

**APPENDIX O**  
**DROUGHT CONTINGENCY MEASURES**

## **APPENDIX O DROUGHT CONTINGENCY MEASURES**

### **Introduction**

Senate Bill 1 required drought contingency planning both on a local and regional basis. Local water supply agencies developed detailed drought contingency plans. Those plans included items as follows:

- Public Involvement
- Public Education
- Coordination with Regional Water Planning Groups
- Drought Response Stages
- Criteria on Initiation and Termination of Drought Response Stages
- Water Management Strategies at 75% and 50% of Normal Flows
- Description of the Information Monitored by the Water Supplier
- Notification Procedures
- Specific Water Supply or Demand Management Measures
- Variance Procedures
- Enforcement Procedures

Regional plans required identification of all the water sources within the region, drought response triggers and actions initiated by those triggers. These items are included in previous tasks or within the individual local suppliers' drought contingency plans. Texas Water Development Board Table 5 and information from local water suppliers were used to assemble Table O-1, which is attached. For those cities that provided information, Table O-1 identifies by water source possible drought contingency stages and associated actions for each stage.

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
ELM FORK/LAKE GRAPEVINE SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	1. Water reservoir levels drop below 65% of capacity. 2. Water demand exceeds 90% of system capacity for 3 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 45% of capacity. 2. Water demand exceeds 95% of system capacity for 2 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 30% of capacity. 2. Water demand exceeds 98% of system capacity for 1 day. 3. A short-term emergency situation occurs.	<b>Municipal Gov-</b> 25% reduction in non-essential use, identify & repair small leaks, and reductions in landscape uses <b>Residential Actions-</b> Voluntary reduction in water usage <b>Commercial Actions-</b> Voluntary reduction in water usage <b>Industrial Actions-</b> Voluntary reduction in water usage	<b>Municipal Gov-</b> 50% reduction in non-essential use, landscape uses except for parks and golf courses restricted to watering schedule or off peak hrs. <b>Residential Actions-</b> Voluntary landscape restricted to watering schedule or off peak hrs. Reduced freq. in watering new landscaping. <b>Mandatory-</b> Prohibit excess runoff. <b>Commercial Actions-</b> Initial fillings only for fountains; prohibit hosing off of paved areas; limit excessive run-off <b>Industrial Actions-</b> Prohibit hosing off of paved areas; limit excessive runoff	<b>Municipal Gov-</b> Prohibit non-essential use, landscape uses restricted to watering schedule or off peak hrs. Golf course green & tee box watering restricted to off-peak hours. <b>Residential Actions-</b> landscape restricted to watering schedule or off peak hrs. Prohibit draining/filling of pools, permitting of pools, and excess runoff. High vol. users subject to 10% rate increase <b>Commercial Actions-</b> landscape restricted to watering schedule or off peak hours, reduce excess runoff, and watering of nursery stock restricted to off-peak hrs. <b>Industrial Actions-</b> landscape restricted to watering schedule or off peak hours, reduce the frequency of car washing & excess runoff.	<b>Municipal Gov-</b> Prohibit landscape watering. Golf course green & tee box watering restricted to off-peak hours. <b>Residential Actions-</b> Prohibit landscape watering and vehicle washing; foundations may be watered for 2 hrs. with a soaker or hand held hose during water schedule or off-peak times; 25% reduction indoor use. <b>Commercial Actions-</b> Prohibit landscape watering and vehicle washing <b>Industrial Actions-</b> Prohibit landscape watering and vehicle washing; 25% reduction in indoor water use	
	DWU	ADDISON	DALLAS	Total raw water supply in connected lakes drops below 55% of total conservation storage, demand exceeds 90% of deliverable capacity for three consecutive day, or short term deficiencies in distribution system limit supply capability.	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	Total raw water supply in connected lakes drops below 35% of total conservation storage, demand exceeds 95% of deliverable capacity for five consecutive day.	Total raw water supply in connected lakes drops below 20% of total conservation storage, demand exceeds 100% of deliverable capacity for two consecutive day.	The City manager requests voluntary reductions in water use. Notify major water users & work with them to achieve voluntary reduction. Prohibit city government use of water for all non-essential use. Request a reduction in landscape watering by city government.	Begin mandatory water use restrictions as follows: prohibit using water in such a manner as to allow runoff or other water wastes; limit outside watering to the five day schedule provided by the city.	Implement recommended engineering alternatives. Continue actions of the previous stages, but watering is only allowed between 9 pm and 9 am.	Prohibit all commercial and residential landscape watering including golf courses with the following exceptions: nurseries can water stock per watering schedule, public gardens may be watered per schedule, foundations may be watered for 2 hrs with soaker hose and hand held hose per watering schedule, washing of vehicles is prohibited, all commercial users may be required to reduce consumption.	
	DWU	CARROLLTON	DALLAS & DENTON	Will begin every May 15 and last until September 15.	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 48 hours.	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 24 hours.	City will enact stage 4 upon notification from DWU of critical situation; or major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service.		City Manager will request voluntary reductions in use.	Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrollton with no watering on Sunday. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrollton with no watering on Sat., Sun., or Wed. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Prohibit all outdoor water use until situation has improved.	
	DWU	COPPELL	DALLAS	*Refer to the City of Dallas									
	DWU	FARMERS BRANCH	DALLAS	*Refer to the City of Dallas									
	DWU	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	*Refer to the City of Dallas									

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				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	IRVING	DALLAS	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 1. 2. Water demand exceeds 90% of the current maximum flow rate contracted with DWU for 3 consecutive days. 3. Short-term deficiencies in the City's distribution system limit supply capabilities.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 3. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 4. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary reduction in water use. 1. Irving Water Utility staff will communicate as necessary with DWU to initiate joint water management programs. 2. Irving Water Utility staff will work with major water users to voluntarily reduce water use. 3. Irving Water Utility staff will conduct public information programs to educate its customers, enlist their support of voluntary water use restrictions, and to remind customers that the summer water surcharge rate structure is in effect.	Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. Landscape watering is limited by watering schedule per city. 2. Vehicle washing is prohibited, but is allowed following the landscape watering schedule. 3. Filling of pools is prohibited, except for newly repaired or constructed pools. 4. No ornamental fountains or ponds may be operated(except were needed to support aquatic life). 5. Use of hydrants is limited to fire fighting or activities related to public health, safety and welfare(construction purposes may be allowed with a permit from IWU). 6. Golf Courses can water greens and tee boxes w/o restrictions, but fairways must follow watering schedule. 7. Limit non-essential use of water.	Goal- Reduce the average daily water demand below 100% of the contracted rate with DWU. 1. Landscape watering and residential carwashing is prohibited between the hours of 7 am and 7 pm, and is limited to the watering schedule per city.(foundation and new plantings may be watered for 2 hours using a hose and watering schedule) 2. Nurseries may water stock only between the hours of 7 am and 7 pm. 3. Public gardens are prohibited from watering between 7 am and 7 pm. 4. Golf courses are prohibited from watering greens and tee boxes from 7am to 7 pm, and fairway watering must comply with watering schedule.	Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. All landscape watering is prohibited (except for nurseries may water stock using stage 3 provisions.) 2. The use of water for construction purposes under special permit is prohibited. 3. The use of water to wash vehicles is prohibited. 4. Filling of pools is prohibited. 5. No ornamental fountains or ponds may be operated(except were needed to support aquatic life).	Goal- Restrict water usage to allow system to recover from emergency condition. 1. The director is to determine the actions to take in this stage.
	DWU	LEWISVILLE	DALLAS & DENTON	<b>*Refer to the City of Dallas</b>										
	UTRWD	ARGYLE	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of rated production capacity. 2. Average daily water consumption will not allow storage levels to be maintained in District clearwells and ground storage tanks. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.	Inform the public of the condition and ask them to voluntarily conserve water. Assist participants in contacting any large industrial users and discuss need for initiation of conservation measures.	District designated person will keep participants informed of current measures in effect. District will request participant's to request all customers with meters larger than one inch to reduce consumption by 15%.	Deliveries of water to participants facilities will be controlled to the extent determined by the District designated person to restore overall system to a safe performance level. At participant's request, District will assist participants in eliminating all non-essential water uses. District will eliminate all non-essential uses such as truck washing and lawn watering.				

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				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
	UTRWD	AUBREY	DENTON	1. Notification from UTRWD to begin Stage 1 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 90% of the wells original capacity.	1. Notification from UTRWD to begin Stage 2 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 85% of the wells original capacity. 3. When the total daily demands equal or exceed .400 mgd for 3 consecutive days or .425 mgd for a single day.	1. Notification from UTRWD to begin Stage 3 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 80% of the wells original capacity. 3. When the total daily demands equal or exceed .425 mgd for 3 consecutive days or .450 mgd for a single day.	1. Notification from UTRWD to begin Stage 4 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 75% of the wells original capacity. 3. When the total daily demands equal or exceed .450 mgd for 3 consecutive days or .475 mgd for a single day.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Activate and use an alternative supply source as needed. 3. Use reclaimed water for non-potable purposes. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Aubrey shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Same as stage 1, and reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing of gutters, and failure to	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Same as stage 2. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Aubrey. 3. The use of water from fire hydrants for construction purposes under special permit is discontinued.	Goal- Achieve a 40% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	BARTONVILLE WSC	BARTONVILLE	DENTON	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	BARTONVILLE WSC	COPPER CANYON	DENTON	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	UTRWD	CORINTH	DENTON	<b>*Refer to the City of Argyle</b>									
	MUSTANG WSC	CROSSROADS	DENTON	Peak daily water use is approaching 75% of potential daily production rate (existing volume 588,600 gpd) for 3 consecutive days. Consideration will be given to time of year and weather conditions.	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be enforced if repairs can not be made within 48 hrs.	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be enforced if repairs can not be made within 48 hrs.	Peak Daily Water use is approaching 90% of potential daily production rate (existing volume 706,320 gpd), for 3 consecutive days.	The imminent or actual failure of a major component of the system which would cause an immediate health of safety hazard. Water demand is exceeding the capacity of the plant- 784,800 gpd for 3 consecutive days.	Alternate day usage of water for outdoor purposes such as lawns, gardens, car washing, etc. The provisions for the alternate day use will be specified by the Corporation in a written notice.	The Corporation may limit water usage determined by the plants capability. A flow restrictor will be installed at member's expense. The maximum number of gallons per meter per month shall be contained in the notice to each member.	All outdoor water usage is prohibited; however, usage for livestock is exempt.	All outdoor water usage is prohibited; livestock may be exempted by the Corporation. All consumption will be limited by: 1. A fixed percentage of each member's average use in the prior month. 2. A maximum number of gallons per meter per week.	

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				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	DENTON	DENTON	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 65% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 3 consecutive days. Type C- Water demand approaches a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 45% of the total conservation storage. Type B- Water demand has reached or exceeded 95% of delivery capacity for 2 consecutive days. Type C- Water demand exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 30% of the total conservation storage. Type B- Water demand has reached or exceeded 98% of delivery capacity for 1 consecutive days. Type C- Water demand seriously exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	A potential serious drought contingency condition exists for all or part of the system. Initiate a public awareness campaign to inform the public that the City is concerned about water uses and that staff is watching the water sources and evaluating conditions on a daily basis. Encourage public and internal users to voluntarily reduce water consumption. Encourage city governments to take the lead by reducing water use.	Goal 10-20% reduction: The situation calls for an internal restriction on outdoor water use (a five day watering schedule). The public is encouraged to conserve water on a voluntary basis and use all water efficiently. Wholesalers are asked to modify restrictions to meet City of Denton criteria.	Goal 20-30% reduction: The situation calls for mandatory external and internal restrictions to protect public health and safety. Impose 20% surcharge penalty for residential customers water use above 30,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 80% of prior billing volumes for a 30-day period. Rate of flow restrictions also apply to wholesale customers.	Goal 30% or greater reduction: The situation is critical an it is necessary to ban all outside watering. Impose 20% surcharge penalty for residential customers water use above 15,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 70% of prior billing volumes for a 30-day period. Restrictions also apply to wholesale suppliers.		
	BARTONVILLE WSC	DOUBLE OAK	DENTON	<b>*No Emergency/Drought Contingency Plan Submitted</b>										
	UTRWD	FLOWER MOUND	DENTON	<b>*Refer to the City of Argyle</b>										
	LAKE CITIES MUA	HICKORY CREEK	DENTON	1. Average daily water consumption reaches 90% of rated production capacity for a 3 day period. 2. Weather conditions are to be considered in determining severity of water navigability. Predicted long, cold or hot, dry periods need to be considered.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated storage tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.	1. The General Manager of the Authority will notify the local fire dept. of the status of the system and request notice of any fire event. 2. Designate a person to manage various stages of emergency water demand management. 3. Contact large commercial or industrial users and inform them of the need for initiation of conservation methods. 4. Review systems capabilities and make any repairs needed.	1. All conditions of previous stage still in effect. 2. Contact all customers with meters larger than one inch to reduce water consumption by 15%.	1. All conditions of previous stage still in effect. 2. The General Manager shall notify the local T.V., local newspaper, and police of each of the customer cities as to the status of the water system. 3. Customers will be notified by telephone and with written notice hand delivered to each customer within 24 hours of the condition. 4. The Authority will eliminate all non-essential uses such as car washes and lawn watering.				
	UTRWD	HIGHLAND VILLAGE	DENTON	<b>*Refer to the City of Argyle</b>										
	LAKE CITIES MUA	LAKE DALLAS	DENTON	<b>*Refer to the City of Hickory Creek</b>										
	UTRWD & MUSTANG WSC	LINCOLN PARK	DENTON	<b>*Refer to Cities of Argyle &amp; Crossroads</b>										
	UTRWD	OAK POINT	DENTON	<b>*Refer to the City of Argyle</b>										
	LAKE CITIES MUA	SHADY SHORES	DENTON	<b>*Refer to the City of Hickory Creek</b>										

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				1	2	2	3	4	5	1	2	3	4
	DWU	THE COLONY	DENTON	1. DWU declares STAGE 1 or the average daily water consumption reaches 90% of delivery capacity. 2. Consumption (90%) has existed for a period of 3 days. 3. Weather conditions are to be considered in drought classification determination.	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	1. DWU declares STAGE 3 or the average daily water consumption reaches 90% of delivery capacity following STAGE 2. 2. Average daily consumption will not enable storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought conditions at the same time with a 24 hour period. 5. Water system is contaminated either accidentally or intentionally. 6. Water system fails from acts of God or man.	1. DWU declares STAGE 4 water crisis. 2. Local demand exceeds 90% of deliverable capacity for three consecutive days following STAGE 3 Water Emergency.	1. Inform the public of the situation and encourage voluntary reduction of water use. 2. Contact commercial and industrial users and explain necessity for initiation of strict conservation methods. 3. Limit irrigation, washing vehicles, water use on construction sites and city discontinues non-essential use.	1. Outdoor residential water use is permitted, but must follow a schedule made by the City. 2. Commercial and industrial use will be visited to ensure volunteered conservation has been initiated. 3. Limit use for washing vehicles, etc. 4. Limit use on construction projects to essential water use only. 5. Increase education effort	1. Outdoor watering is only permitted by the City's schedule and during off-peak hours. 2. Prohibit public water uses which are not essential for health, safety and sanitary purposes. 3. Commercial and industrial uses will be controlled to the extent dictate by the City Manager.	1. Prohibit landscape watering. 2. Prohibit washing vehicles, etc. 3. Prohibit use on construction projects. 4. Impose a \$.20/1000 gallons increase on all service billings. 5. Increased education efforts.	
RAY HUBBARD/TAWAKONI SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	*Refer to the City of Dallas in Elm Fork/Lake Grapevine System					1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.				
	DALLAS CO. WCID #6	BALCH SPRINGS	DALLAS	1. Dallas initiates action and requests customer cities to do likewise during high demand months. 2. Combined ground storage falls below 35% of capacity at the beginning of a 24-hour demand period.	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	1. Dallas supply cut by 30% on a continuous basis during high demand months. 2. Combined ground storage falls below 25% of total capacity.	1. Designated official requests voluntary reductions in water use. 2. Accelerate public information efforts to teach reduced water use. 3. Notify major water users and request conservation. 4. Prohibit City Government from non-essential use. 5. Request reduction in landscape watering by City Gov. 6. Encourage less water use in construction projects.	1. Initiate studies to address solutions to problems. 2. Announce mandatory water reductions including the following are prohibited: hosing off paved areas and buildings; pool draining followed by refilling; washing vehicles by hose; and other non-essential uses as determined by General Manager. Construction water use limited to non-peak hrs. 10 pm to 4 am. Odd-even watering at businesses and residences based on address. Public gardens & golf courses placed on watering schedule. Watering is allowed at anytime (on specified days) if done using a hand-held hose, a bucket or a drip irrigation system.	1. Implement appropriate solutions to supply or distribution problems. 2. Continued implementation of all restrictions from previous stages. Exceptions: Commercial car washing is prohibited between 2 pm and 9 pm each day and landscape watering will be allowed once every five days according to watering schedule provided.			

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	DWU	CEDAR HILL	DALLAS & ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.				1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.	1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawn watering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am and 10 am and 8 pm and 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
	DWU	COCKRELL HILL	DALLAS	*Refer to the City of Dallas in Elm Fork/Lake Grapevine System											
	COMBINE WSC	COMBINE	DALLAS	*No Emergency/Drought Contingency Plan Submitted											
	DWU	DESOTO	DALLAS	*Refer to the City of Cedar Hill											
	DWU	DUNCANVILLE	DALLAS	*Refer to the City of Cedar Hill											
	DWU	GLENN HEIGHTS	DALLAS & ELLIS	Discretionary. 1. Based on static waters in the wells, whether or not within the 10% of normal. 2. Water demands above normal. 3. Time of the year is major factor. 4. No measurable rainfall in the last 30 days. 5. Weather forecast	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	All static water levels are below 640.0 and falling. The City has experienced failure to achieve water demand reduction objectives through voluntary curtailment. The previous days demand exceeded 80% of peak. The storage tanks fill no more than 65% overnight.	Static levels of wells are at or below 680.0 feet below the natural ground surface; failure to achieve water demand reduction objectives through STAGE 3 restrictions. Storage tanks filling up to less than 50% overnight; or emergency condition.	Emergency condition may be terminated at such time the storage reservoirs are able to fill 95% overnight for three consecutive nights, with favorable weather conditions prevailing.	Goal- 10% reduction in consumption. 1. Inform the public. 2. Notify major commercial users. 3. Increase water supply & demand monitoring. 4. Increase leak detection and repair efforts.	Goal-15 to 18% reduction 1. Continued implementation of stage 1 actions. 2. Formal public notification of a water shortage and encourage voluntary water use curtailment.	Goal- 25 to 30% reduction 1. Continued implementation of relevant actions from previous stages. 2. Car, window, and pavement washing are prohibited unless done with using a bucket. 3. Lawn and garden irrigation restricted to watering schedule between 6 am and 10 am and 8 pm and 10 pm. using only hand held hoses for application. 4. Street washing, fire hydrant flushing, filling of swimming pools and golf course watering are prohibited uses of public water. 5. Prohibit use of water-cooled air conditioners without recirculation.	Goal- 50% or more reduction 1. Continued actions of previous stages. 2. Lawn watering, non-commercial washing of vehicles; street, driveway, and sidewalk washing; and ornamental water use for fountains, artificial waterfalls and reflecting pools are all prohibited non-essential outdoor uses. 3. Implement drought surcharge. 4. Reduce system pressures to minimum levels permissible(35 psi). 5. Ration water or terminate service in the following order: Industrial, Commercial, Residential, Public Health and Safety Facilities.	1. Formal public notification that the measures taken in response to the drought or emergency conditions can be terminated.	
	DWU	HUTCHINS	DALLAS	*Refer to the City of Dallas in Elm Fork/Lake Grapevine System											
	DWU	LANCASTER	DALLAS	*Refer to the City of Cedar Hill											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	CEDAR HILL	OVILLA	DALLAS & ELLIS	1. Water consumption has reached 80% of daily maximum supply for 3 consecutive days. 2. Supply has been reduced to 120% of average consumption for previous week. 3. There is an extended period of at least 8 weeks of low rainfall and water use has risen 20% above the use for the same period during the previous year.	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	1. Failure of a major component of the system or an event which reduces the minimum residual pressure below 20 psi for a period of 2 days or longer. 2. Water consumption has reached 95% of daily maximum supply for 3 consecutive days. 3. Water consumption of 100% or more of the maximum available and the water level in the water storage standpipe drops in one 24 hour period. 4. Other unforeseen events which could cause imminent health or safety risks to the public.				1. Encourage voluntary reduction of use through the news media. 2. Reduce fire drills which use water. 3. Minimize water flushing by the water utility operators and delay water flushing associated with construction projects. 4. Plan for increase in water supply by investigating new sources or discussing a modification to the water supply contract with Cedar Hill.	1. Inform public of conditions and measures. 2. Prohibit and/or limit private washing of vehicles, windows, siding, pavements, and other non-essential water uses outside the home. 3. Restrict residential irrigation to one day a week and implement the City's watering schedule. 4. Institute system of monitoring and/or enforcing violations of above measures. 5. Prosecute violators of actions 2 and 3 above.	1. Prohibit and/or limit all non-essential water outside the residence, and establish times when watering may be permitted. 2. Ensure that high water use industries are conserving as much as possible. 3. Prohibit any public water use which is not essential for public health. 4. Prosecute violators. 5. Limit the amount of water that may be used for any purpose and prescribe a time when it can be used. 6. Discontinue water service to repeat or severe violators of the above provisions.		
	DWU	SEAGOVILLE	DALLAS	*Refer to the City of Dallas in Elm Fork/Lake Grapevine System											
	DWU	OAK LEAF	ELLIS	*Refer to the City of Dallas in Elm Fork/Lake Grapevine System											
	COMBINE WSC	COMBINE	KAUFMAN	*No Emergency/Drought Contingency Plan Submitted											
NORTH TEXAS MWD SYSTEM	NTMWD	ALLEN	COLLIN	WSE of Lake Lavon lies between 480-475 feet MSL; or the water demand equals or exceeds 95% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 90% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 470-453 feet MSL; or the water demand equals or exceeds 99% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 60% of the normal operating elevation within 45 consecutive days.	1. NTMWD will notify water users to start Drought Condition Operations under the NTMWD plan or start their plans.	1. Establish pro rata allocations for all users using billing records. 2. Water users will be advised to continue the actions of the previous stage and implement the next stage.	1. Water users will be advised to continue the actions of the previous stages and implement the next stage. 2. The uniform percentage of water supplied may be reduced further by the Board of Directors.					
	NTMWD	FAIRVIEW	COLLIN	*Refer to the City of Allen											
	NTMWD	FARMERSVILLE	COLLIN	*Refer to the City of Allen											
	NTMWD	FRISCO	COLLIN & DENTON	*Refer to the City of Allen											

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	GARLAND	COLLIN & DALLAS	The City's provider, NTMWD requests initiation of STAGE 1; or total daily water demand equals 80% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 80% overnight.	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	The City's provider, NTMWD requests initiation of STAGE 3; or total daily water demand equals the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 50% overnight.	The City's provider, NTMWD requests initiation of STAGE 4; or total daily water demand exceeds the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 20% overnight.	The water system experiences catastrophically decreasing reservoir levels or delivery capacities' major water line breaks or pump or system failures occur' natural or man-made contamination of the water supply occurs or is suspected'or other conditions arise that constitute an unprecedented loss of capability to provide water service adequate for the public health, safety, or welfare.	1. Customers will be requested to voluntarily limit landscape watering to designated watering days. 2. Customers will also be requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. Irrigation of golf courses is prohibited except on designated watering days. 7. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter is permitted. 12. It is an offense to refuse to repair a leak once notified of it.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed sprinklers. The use of hose-end sprinklers is prohibited. 2. The use of water to irrigate golf courses is prohibited, unless the golf course uses non-potable water. 3. The use of water from fire hydrants for construction purposes is prohibited.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of permanently installed sprinklers is prohibited. 2. Car washes are prohibited, except at commercial car washes between the hours 6 am until 10 am and 6 pm until 10pm. 3. The use of water to fill, refill, or add water to any indoor or outdoor swimming pool, wading pool, hot tub or spa-type pool is prohibited. 4. No application for new, additional, expanded, or increased capacity water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind will be allowed or approved.	1. The irrigation of landscaped areas is prohibited at all times by any means. 2. The use of water to wash any vehicle is prohibited at all times. 3. Surcharges will be added per City ordinance.
	NTMWD	LUCAS	COLLIN	*Refer to the City of Allen										
	NTMWD	MCKINNEY	COLLIN	*Refer to the City of Allen										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
		CITY	COUNTY	STAGES					STAGES				
				1	2	2	3	4	5	1	2	3	4
	NTMWD-NORTH COLLINS WSC	MELISSA	COLLIN	When NTWMD Plan Mild trigger is achieved.	When NTWMD Plan Moderate trigger is achieved.	When the NTMWD Plan Severe trigger is achieved.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management-North Collin Water Supply will reduce flushing of water mains. Recommended Customer Measures - 1. Water Customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays and only between the hours of midnight and 10am and 8pm to midnight. 2. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management-North Collin Water Supply will discontinue flushing of water mains. Recommended Customer Measures - 1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management-Discontinue all non-essential water use. Recommended Customer Measures - 1. The irrigation of landscaped areas is limited to designated watering days between the hours of 6-10 am and 8pm-12am and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of hose-end sprinklers or permanently installed sprinklers is prohibited. 2. The use of water for washing vehicles is limited to designated water days and hours. 3. The use of water to fill pools is prohibited. 4. Operation of fountains is prohibited unless it is necessary to support aquatic life. 5. No additions or improvements to the system will be approved. 6. The use of water from fire hydrants for construction purposes is prohibited.	Goal: Achieve a 50% reduction in daily water demand. Recommended Customer Measures- 1. Irrigation of landscaped areas is absolutely prohibited. 2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.		

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	NTMWD	MURPHY	COLLIN	Stage will begin upon notification from wholesaler NTMWD.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 95% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 100% of the system's capacity on a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.			Goal- Achieve a voluntary reduction as requested by NTMWD. Supply Management Measures - Reduced or discontinued flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Murphy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures - Reduce or discontinue flushing of water mains, reduced or discontinued irrigation of public landscaped areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. All restaurants are prohibited from severing water to patrons, unless water is asked for. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. An increase in water rates will occur rates provided by the city. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.	
	NTMWD	NEW HOPE	COLLIN	*Refer to the City of Allen											
	NTMWD	PARKER	COLLIN	*Refer to the City of Allen											
	NTMWD	PLANO	COLLIN & DENTON	1. General or Geographic emergency 2. Water system failures/emergencies 3. Supply failure from NTMWD 4. An inability to recover 90% in all storage facilities within a 24-hour period. 5. An inability to recover 90% in all storage facilities within 48-hour period.	Stages 2 & 3 are missing from the report.	Stages 2 & 3 are missing from the report.				Inform the public and encourage voluntary water reductions.	Stages 2 & 3 are missing from the report.				

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	PRINCETON	COLLIN	Average daily water consumption reaches 90% of the system's firm pumping capacity; or average daily water consumption reaches 90% of the production capacity and/or the contractual amount of the water provider.	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	Average daily water consumption reaches 100% of the system's total pumping capacity for a period of 3 days; or average daily water consumption exceeds 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are less than 25% of full volume; or water system fails due to acts of God or man.			In the event severe conditions persist (Stage 3 or greater) for an extended period of time, the City may ration water usage and/or terminate service in the following sequence: Recreational users, Commercial users, Industrial users, School users, Residential users; Hospitals, Public Health and Safety Facilities .				
	NTMWD	RICHARDSON	COLLIN & DALLAS	By April 30 of each year the Director of Public Services shall forecast water supply and potential water demands for May 1 through September 30 of that year. The forecast will be based on supply information from NTMWD and from City pumping reports.	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	The City's inability to recover water storage approximately 90% in all storage facilities within a 48-hour period.	1. Natural Disasters 2. Water system failures 3. Supply failure from the NTMWD or initiation of any stage in the NTMWD Drought Contingency Plan.		1. Annually from May 1 through Sept. 30, the Director of public services shall accerate public information efforts to educate and encourage voluntary reductions in water use. 2. Request that users voluntarily reduce water usage, and inform major water consumers to initiate water consumption measures.	1. Initiate studies to evaluate alternatives should conditions worsen, and implement recommendations. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Begin mandatory water use restrictions limiting all landscape and other outdoor water usage at each service address to once every 3 days and according to watering schedule per City.	1. Continue implementation of stage 2 restrictions and continue recommended alternatives identified in stage 2. 2. Initiate studies to continue evaluation of alternatives should conditions worsen. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Continue mandatory water use restrictions limiting all landscape and other outdoor water at each service address to once every seven days and according to watering schedule per City.	1. All outdoor and/or landscaping water shall be prohibited until the emergency is alleviated. 2. The use of water for municipal purposes shall be limited only to those activities necessary to maintain the public health, safety and welfare. 3. The use of water from fire hydrants is prohibited except for fire fighting and related activities. 4. The Director of Public Services shall initiate studies to continue evaluation of alternatives should conditions worsen, and implement recommendations. 5. Continue public information efforts regarding water supply conditions and conservation efforts.	
	NTMWD	ROYSE CITY	COLLIN & ROCKWALL	*Refer to the City of Allen										
	NTMWD	SACHSE	COLLIN & DALLAS	*Refer to the City of Allen										
	NTMWD	WYLIE	COLLIN & ROCKWALL	*Refer to the City of Allen										

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	MESQUITE	DALLAS	Total daily water demand equals or exceeds 37 million gallons for 14 consecutive days or 40 million gallons for 7 consecutive days; or continually falling treated water ground reservoir levels do not refill above 60% overnight for 7 consecutive days; or continually falling treated water overhead storage levels do not refill above 60% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 42 million gallons for 3 consecutive days or 44 million gallons on a single day; or the available water supply to the City of Mesquite is equal to or less than 44 mgd; or continually falling treated water ground reservoir levels do not refill above 40% overnight for 3 consecutive days; or continually falling treated water overhead storage levels do not refill above 40% overnight for 3 consecutive days.	*Not listed in the report(page missing)	*Not listed in the report(page missing)	Goal- Achieve a voluntary 5% reduction in total daily water demand and reduce consumption during peak times. 1. Water customers are requested to voluntarily limit landscape watering to non-peak hours. Outdoor water use is prohibited between the hours 4 pm and 9 pm and all day Sunday. Use of automatic irrigation systems will be limited to the hours of 1 am to 6 am and prohibited on Sundays. 2. Water customers are requested to minimize or discontinue water use for non-essential purposes. 3. Use of soaker hoses is permitted at all times for foundations only.	Goal- Achieve a 10% percent reduction in daily water demand. 1. Irrigation of landscaped areas with hose-end sprinklers shall be prohibited between the hours of 4 pm and 9 pm. Use of automatic irrigation systems will be limited to the hours of 1 am and 6 am. All watering is prohibited on Sundays. 2. Use of soaker hoses is permitted at all times for foundations only. 3. Use of water to wash vehicles at residences shall follow the schedule mentioned in section 1. Vehicles may be washed at commercial car washes any time. Exceptions include garbage trucks and others that must be washed to maintain health and safety regulations. 4. Use of water to maintain pool levels is limited to schedule mentioned in section 1. 5. Operation of fountains or ponds is prohibited unless they support aquatic life. 6. Use of water from hydrants is limited to fire fighting and other activities related to public safety, health, and welfare.	*Not listed in the report (page missing)	1. Irrigation of landscaped areas is limited to Monday, Wed., and Fri. and shall be by means of hand-held hoses with positive shut off nozzles. Irrigation of landscaped areas is prohibited between the hours 1 pm and 9 pm on watering days. 2. Use of water to wash vehicles not at commercial car washes is prohibited. Use of water to wash vehicles at commercial washes shall be prohibited between the hours of 1 pm and 9 pm. 3. The filling of swimming pools is limited to between 6 am and 11 am on designated water days. 4. Operation of fountains or ponds is prohibited unless they support aquatic life. 5. No applications for additions or improvements to the systems will be allowed or approved. 6. The use of soaker hoses is permitted only for foundations and only on designated watering days.	Goal- Achieve 50% reduction in daily water demand. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. The use of soaker hoses is prohibited.

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	ROWLETT	DALLAS & ROCKWALL	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 1. 2. Total daily water demand equals 80% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 80% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 3. 2. Total daily water demand equals the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 50% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 4. 2. Total daily water demand exceeds the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 20% overnight.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Discontinue work site wash downs. 3. Reduce or discontinue irrigation of public landscaped areas. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Rowlett Water Utilities shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: 1. Flushing of water mains for public health only. 2. Discontinue irrigation of public landscaped areas. 3. Discontinue work site wash downs. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve a 45% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	NTMWD	SUNNYVALE	DALLAS	*Refer to the City of Allen										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	NTMWD	CRANDALL	KAUFMAN	1. Daily water demand exceeds 700,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 45 psi for more than six consecutive hours.	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	1. Daily water demand exceeds 1.0 mgd for three consecutive days. 2. Distribution pressure remains below 30 psi for more than six consecutive hours. 3. Storage remains below 50% of total storage capacity (625,000 gallons) for more than 2 consecutive days. 4. Failure of essential system component is imminent potentially causing immediate health or safety hazard.				Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule. During winter months request water users to insulate pipes in lieu of continuously running water to prevent freezing.	Continue implementing all Mild Condition actions. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 4 am till 8 am and 8 pm till 10 pm.	Continue implementing all Moderate Condition actions. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Impose max limits for water use. 3. Impose monetary fines for violators of prescribed maximum use limits. Notify each customer of this action.		
	NTMWD	FORNEY	KAUFMAN	<b>*Refer to the City of Allen</b>											
	NTMWD	KAUFMAN	KAUFMAN	Daily water demand exceeds 2,000,000 gpd for 3 consecutive days; or water pressure in system remains below 45 psi for 6 consecutive hours; or water levels in Lake Lavon fall between 482-475 feet MSL.	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	Daily water demand exceeds 2,500,000 gpd for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 12 consecutive hours during June, July, or August; or water levels in Lake Lavon fall between 468-453 feet MSL; or imminent or actual failure of system component where immediate health or safety hazards exist.	Natural disasters, massive power outages, massive equipment or facility failures, or public water supply contamination			Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule.	Continue implementing all relevant actions in preceding phase. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 6 am till 10 am and 8 pm till 10 pm. 4. Operation of fountains or ponds is prohibited unless it is used to support aquatic life. 5. Request industries and other non-municipal users to curtail all non-essential use, increase recycling, or modify production process.	Continue implementing all relevant actions in preceding phase. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Limit use to residential customers and secure compliance with legal action if necessary. 3. Require industrial and commercial users to stop operations. 4. Establish monetary fines for exceeding limits. Notify each customer of this action.		
	NTMWD	OAK GROVE	KAUFMAN	<b>*Refer to the City of Allen</b>											
	NTMWD	HEATH	ROCKWALL	<b>*Refer to the City of Rockwall</b>											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
	NTMWD	ROCKWALL	ROCKWALL	City's wholesaler, NTMWD notifies requesting initiation of STAGE 1; or the total daily water demand equals or exceeds 15.2 mgd for 3 consecutive days or 16.1 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 3; or the total daily water demand equals or exceeds 16.9 mgd for 3 consecutive days.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Natural disaster, massive power outage; or 4. City's wholesaler, NTMWD notifies requesting initiation of STAGE 4.	Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 5% reduction in daily water demand. Supply Management Measures: 1. Reduce flushing of water lines. 2. Discontinue irrigation of public landscaped areas. 3. Use reclaimed water for non-potable purposes. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2 but watering is allowed only between the hours of 6 am to 10 am and between 8 pm and 12 am with hand held hose, buckets, or drip irrigation. 2. Watering of golf courses tees is prohibited unless the water is obtained from other than the City of Rockwall. 3. Washing of vehicles is prohibited, unless done at a commercial car washes adhering to watering schedule. 4. The use of water for construction purposes under special permit is discontinued. 5. All restaurants are prohibited from serving water unless asked. 6. The filling of pools is prohibited. 7. No applications for improvements to the system will be allowed or ap	Goal- Prohibit all uses of public water supply, except in emergency cases until further notice. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Water use is only in emergency cases.	
TRINITY AQUIFER	SG	ANNA	COLLIN	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG	CELINA	COLLIN	The warning light on the 150,000 gallon ground storage tank is activated intermittently for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for ten consecutive days after declaration of a moderate drought.	1. Inform the public and supply users with recommendation of ways to conserve water. 2. Post voluntary lawn watering schedule.	1. No outdoor usage between 8 am until 7 pm. 2. Users with an even address may use water for outdoor purposes on Mon., Wed., or Fri., and odd addresses on Tue., Thurs., or Sat. 3. No watering on Sun.	The City Council bans the use of water totally for outdoor sprinkling, watering lawns, shrubs, driveway and automobile washing. Certain industrial and commercial users which are not not essential to health & safety of the community will be prohibited from use.			

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	GAINESVILLE	COOKE	Total daily water demand equals or exceeds 80% or 4.14 mgd for five consecutive days.	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	Total daily water demand equals 100% or 5.169 mgd for three consecutive days.			Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.		
	SG	LINDSAY	COOKE	*No Emergency/Drought Contingency Plan Submitted										
	SG	MUNSTER	COOKE	*No Emergency/Drought Contingency Plan Submitted										
	SG	VALLEY VIEW	COOKE	*No Emergency/Drought Contingency Plan Submitted										
	SG	CARROLLTON	DALLAS & DENTON	*Refer to the City of Carrollton in Elm Fork/Lake Grapevine System										
	SG	CEDAR HILL	DALLAS & ELLIS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	SG	DESOTO	DALLAS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS							
				STAGES					STAGES							
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5		
	SG	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	*No Emergency/Drought Contingency Plan Submitted												
	SG	IRVING	DALLAS	*Refer to the City of Irving in Elm Fork/Lake Grapevine System	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.											
	SG	LANCASTER	DALLAS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System												
	GW	WILMER	DALLAS	*No Emergency/Drought Contingency Plan Submitted												
	SG- ARGYLE WSC	ARGYLE	DENTON	Drought contingency plan is provided by the Argyle WSC.												
	SG	AUBREY	DENTON	*Refer to the City of Aubrey in Elm Fork/Lake Grapevine System												
	SG-BARTONVILLE WSC	BARTONVILLE	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	BARTONVILLE WSC	COPPER CANYON	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	SG	CORINTH	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	BARTONVILLE WSC	DOUBLE OAK	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	SG	FRISCO	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	LAKE CITIES MUA	HICKORY CREEK	DENTON	*Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.											
	SG	HIGHLAND VILLAGE	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	SG	JUSTIN	DENTON	1. Daily demand exceeds 200,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 45 psi for more than 6 consecutive hours.	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	1. Daily demand exceeds 240,000 gpd for 3 consecutive days. 2. Failure of two wells during June, July, or August or simultaneous to a mild or moderate condition occurrence. 3. Imminent failure of system component where immediate health or safety hazards exist.	1. Inform the public of situation and request voluntary reduction. 2. Inform major commercial users and request conservation. 3. Publicize voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent freezing.	Continue implementing all relevant actions in the preceding phase. 1. Car, window and pavement washing prohibited except when a bucket is used. 2. Street washing, water hydrant flushing, filling of swimming pools, and athletic field watering are prohibited uses of public water. 3. Implement the even odd watering schedule between the hours of 6-10 am and 8-10 pm.	Continue implementing all relevant actions in the preceding phase. 1. Ban all outdoor water use. 2. Set limits on water use by both commercial and residential users. 3. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.						
	SG-KRUGERVILLE WSC	KRUGERVILLE	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	SG	KRUM	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	LAKE CITIES MUA	LAKE DALLAS	DENTON	*Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System												
	SG	LINCOLN PARK	DENTON	*No Emergency/Drought Contingency Plan Submitted												
	N/A	OAK POINT	DENTON	*No Emergency/Drought Contingency Plan Submitted												

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
				Submitted									
	SG	PILOT POINT	DENTON	*No Emergency/Drought Contingency Plan Submitted									
	SG	PONDER	DENTON	*No Emergency/Drought Contingency Plan Submitted									
	SG	ROANOKE	DENTON	*No Emergency/Drought Contingency Plan Submitted									
	SG	SANGER	DENTON	1. Peak daily water use is approaching 880,000 gpd, or 80% of the water supply rated as 1,100,000 gpd, for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year.	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of the system - 1,100,00 gallons per day for three consecutive days.			Step 1- Inform the public and provide specific steps which can be taken. Notify major commercial users and request voluntary conservation. Implement the City's mandatory watering schedule, which is an odd/even system between the hours 6-10 am and 8-10 pm. During winter months request water user to insulate pipes instead of running water to prevent freezing. City will monitor lake levels.	Step 2- Mayor will ban the use of water totally for outdoor sprinkling, watering of lawns, shrubs, driveway and automobile washing.		
	LAKE CITIES MUA	SHADY SHORES	DENTON	*Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System									
	SG	THE COLONY	DENTON	*Refer to the City of The Colony in Elm Fork/Lake Grapevine System	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.								

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	SG- TROPHY CLUB #1	TROPHY CLUB	DENTON	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 1 restrictions.	Daily water demand reaches 95% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 2 restrictions.	Daily water demand reaches 95% of the production capacity of the system for 5 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 3 restrictions.	Daily water demand reaches 100% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 4 restrictions.			Goal- Raise public awareness of the supply situation. Supply Management Measures: 1. Prohibit municipal entities use of water for all non-essential uses. 2. Request a reduction in landscape water by municipal entities. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the Master District shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters and failure to repair controllable lea	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: 1. Water customers shall limit landscape watering to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: 1. Water customers shall limit landscape watering to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: 1. Water customers shall limit landscape watering to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: 1. Water customers shall limit landscape watering to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	ITALY	ELLIS	Total daily demand equals or exceeds 350,000 gallons for 5 consecutive days or 400,000 gallons on a single day.	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	Total daily demand equals or exceeds 425,000 gallons for 5 consecutive days or 450,000 gallons on a single day.	Total daily demand equals or exceeds 450,000 gallons for 5 consecutive days or 475,000 gallons on a single day.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Total daily demand equals 475,000 gallons for 5 consecutive days or 500,000 gallons for 2 days.	Goal- Achieve a voluntary 5% reduction in total use. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Italy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 7% reduction in daily water demand. Supply Management Measures: Reduced or discontinued use for flushing of water mains and irrigation of public landscaped areas, and use of an alternative source and reclaimed water for non-potable uses. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure to repair	Goal- Achieve a 8% reduction in daily water use. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Italy. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 10% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 15% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. Stage 6- Water will be allotted according to the City's plan.

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS							
				STAGES					STAGES							
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5		
	SG	MIDLOTHIAN	ELLIS	Joe Pool Lake water elevations are between 506-510 feet MSL, and water demand has reached 75% of the treatment plant's max. daily demand for two consecutive weeks.	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	Joe Pool Lake water elevations are between 482-496 feet MSL; or water demand has exceeded the treatment plant's max. daily demand on a regular basis and presents imminent danger of a major system failure; or water levels are low enough in the storage reservoirs to hinder fire protection, the imminent or actual failure of a major component of the system has occurred which will cause an immediate health or safety hazard, and due to natural or other disaster, the public water supply is not dependable and may not be suitable for human consumption.				Develop info center and designate info person. Inform public of situation and encourage voluntary reduction. Contact commercial and industrial users and explain necessity of initiation of strict conservation methods. Implementation of system oversight and make adjustments as required to meet changing conditions.	Continue implementation of all relevant actions in preceding phase. Prohibit car, window, and pavement washing except when a bucket is used. Implement the lawn watering schedule provided by the City between the hours of 8 pm until 10 am. The following public water uses not essential for public health or safety will be prohibited: Street washing, water hydrant flushing, filling swimming pools, athletic field watering, watering grassed areas of public property.	Continue implementation of all relevant actions in two previous phases. All outdoor water use will be prohibited. Advise the public daily regarding the severity of the condition. Consider adoption of an emergency ordinance to implement water rationing or surcharges for excessive water use.			
	SG	BELLS	GRAYSON	Loss of over one-third of water production from total pumpage of well #1, well #3 and well #4.		Depletion of 30% of storage tanks and inability to maintain 60% of storage capacity.	The Mayor, or his/her designee, determines the emergency by the following: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.				Public notification would go into effect requesting voluntary water conservation.	Voluntary conservation shall become mandatory.	Customers must comply with the regulations set by the City's plan.			
	SG	COLLINSVILLE	GRAYSON	<b>*No Emergency/Drought Contingency Plan Submitted</b>												
	SG	SHERMAN	GRAYSON	<b>*No Emergency/Drought Contingency Plan Submitted</b>												
	SG	TIOGA	GRAYSON	Daily water demand exceeds 175,000 gpd for 3 consecutive days (50% of rated capacity of the wells)	1. Daily water demand exceeds 212,000 gpd for 3 consecutive days (60% of rated capacity of the wells). 2. Water pressures in distribution system remain below 40 psi for more than 6 consecutive hours. 3. Failure of either well, coupled with demand over 75,000 gpd (75% of capacity of the small well).	1. Daily water demand exceeds 265,000 gpd for 3 consecutive days (75% of rated capacity of all wells) 2. Imminent failure of system component where immediate health or safety hazards exist. 3. Water pressures in distribution system continue to drop after implementing management steps.				1. Inform the public of situation through the media. 2. Notify major commercial water users of the situation and request voluntary water use reductions. 3. Publicize voluntary lawn watering schedule. 4. During the winter months request water users to insulate pipes rather than running water to prevent freezing.	1. Continue implementing all relevant actions in preceding phase. 2. Car washing, window washing, pavement washing are all prohibited except when a bucket is used. 3. The following public water use, not essential for public health or safety, are prohibited: Street Washing, Water Hydrant Flushing, and Athletic Field Watering. 4. Implement the City's mandatory watering schedule.	1. Continue implementing all relevant actions in preceding phase. 2. Ban all outdoor water use. 3. Set limits on water use by both commercial and residential users. 4. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.				

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
	SG	VAN ALSTYNE	GRAYSON	Stage is initiated when continually falling treated water reservoir levels which do not refill above 100% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 90% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 85% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 75% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. 3. One or more water wells are out of services. 4. One or more water wells are experiencing dangerously declining pumping levels.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Van Alstyne shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Van Alstyne. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	SG	WHITESBORO	GRAYSON	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG	ALEDO	PARKER	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG	HUDSON OAKS	PARKER	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG	RENO	PARKER	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG	SPRINGTOWN	PARKER	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	GW	WILLOW PARK	PARKER	<b>*No Emergency/Drought Contingency Plan Submitted</b>									
	SG-BENBROOK WSA	BENBROOK	TARRANT	Daily water use equals or exceeds 10.0 mgd for seven consecutive days.	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	Daily water use equals or exceeds 15 mgd (150% of treatment capacity) for five consecutive days; and/or the storage capacity levels continually recede on a daily basis and remain below 50% of storage capacity for 72 consecutive hours, and the Water Authority Manager determines that such conditions are a hazard to the public health and safety. Failure of any system component which limits the treatment, storage, or distribution capabilities of the system.	Inform the customers. Citizens will be encouraged to restrict outside water use to specified time periods. Use an odd-even watering system.	Inform the public of condition and ask that all customers repair all water leaks and restrict outside water use to specified periods on assigned days.	Curtail all irrigation until further notice. Temporarily ban the use water to supply or re-supply swimming pools. Curtail industrial use of water.			

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	SG	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.				1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.	1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recycling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.		
	SG	CROWLEY	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	DALWORTHINGTON GARDENS	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	EULESS	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	EVERMAN	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	HASLET	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	HURST	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	KELLER	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	KENNEDALE	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	LAKE WORTH	TARRANT	1. Annually, beginning on May 1 through September 30. 2. When the water supply available to the city is equal to or less than 1.4 MGD. 3. When notification from provider the City of Fort Worth is received to initiate Stage 1 of the Plan. 4. The specific capacity of the city's wells is equal to or less than 95% of the well's original specific capacity. 5. The total daily demand equals or exceeds 1.2 MGD for three consecutive days or 1.4 MGD on a single day. 6. Continually falling ground and/or elevated storage levels which do not refill above 95% overnight.	Daily water purchases reach 60% of total water produced for 3 consecutive days.	1. When the water supply available to the city is equal to or less than 1.2 MGD. 2. When notification from provider the City of Fort Worth is received to initiate Stage 2 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 85% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.4 MGD for three consecutive days or 1.6 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 85% overnight.	1. When the water supply available to the city is equal to or less than 1.1 MGD. 2. When notification from provider the City of Fort Worth is received to initiate Stage 3 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 75% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.5 MGD for three consecutive days or 1.7 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 75% overnight.	1. When the water supply available to the city is equal to or less than 1.0 MGD. 2. When notification from provider the City of Fort Worth is received to initiate Stage 4 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 65% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.6 MGD for three consecutive days or 1.8 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 65% overnight.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: The City will reduce the amount of water used for flushing fire hydrants, washing equipment, and watering parks or other grounds. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 2 am and 6 am and 9 pm and 12 am on designated days. 2. All operations of the City of Lake Worth shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: The City in order to reduce water demand will reduce or discontinue flushing of water mains, reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surf	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Lake Worth. 3. The use of water for construction purposes from fire hydrants under special permit is discontinued.	Goal- Achieve a 50% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	SG	NEWARK	TARRANT & WISE	*No Emergency/Drought Contingency Plan Submitted										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS								
				STAGES					STAGES								
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5			
	SG	NORTH RICHLAND HILLS	TARRANT	Daily water demand exceeds 90% of production capacity of the system for 3 consecutive days or short term deficiencies in the distribution system limit supply capability.	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	Daily water demand exceeds 95% of the production capacity of the system for five consecutive days.	Daily water demand exceeds 100% of the production capacity of the system for 2 consecutive days.						1. Request voluntary reductions in water use. 2. Activate an info center. 3. Staff will begin to review problems. 4. Notify major users and assist them to achieve voluntary use reduction. 5. Prohibit city use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request no landscape watering between 10 am and 1 pm by the customer cities. 7. Request the City of Watauga to adhere to the same restrictions as NRH retail customers.	1. Continue implementation of all relevant actions from stage 1. 2. Initiate engineering studies to evaluate alternatives. 3. Continue public info efforts. 4. Begin mandatory water use restrictions: Prohibit hosing off paved areas, buildings, or windows; operation of ornamental fountains, swimming pool draining followed by refilling; washing or rinsing vehicles by hose; using water in such a manner as to allow runoff or other wastes. 5. Implement the City's watering schedule between the hours 10 am and 7 pm. 6. Require reduction in local governments non-essential use and reduction in landscape watering. 7. Encourage people to wait until the emergency water situation has passed before establishing new landscaping. 8. Prohibit draining and refilling of existing pools and filling of new pools. 9. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Continue implementation of all relevant actions from stage 1 and 2. 2. Implement recommended engineering alternatives. 3. Prohibit residential and commercial lawn watering and car washing between the hours of 10 am to 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the water schedule. 5. Golf courses using treated water for grounds watering must adhere to following schedule: Greens and tee boxes may be watered but not between 10 am to 7 pm. All other areas must adhere to City's rotational schedule. 6. Public gardens may be watered, but not between 10 am to 7 pm. 7. Nurseries may water stock, but not between 10 am to 7 pm. 8. No new landscaping may be established during this period. 9. No refilling of private pools. 10. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Nurseries may water stock, but not between 10 am to 7 pm and abide by rotational schedule. 2. Public gardens may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 3. Golf course greens and tee boxes may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 4. No refilling of public pools. 5. All commercial users may be required to reduce water consumption. 6. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.
	SG	PANTEGO	TARRANT	<b>*No Emergency/Drought Contingency Plan Submitted</b>													
	SG	PELICAN BAY	TARRANT	1. Average daily water consumption reaches 90% of rated production capacity for a three day period. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.						1. The Director of Public Works of the City will notify the local fire department of the status of the system and request notification of any fire event. 2. Designate a person for the City to manage the various stages of emergency water demand management. 3. Contact any large commercial or industrial users and discuss need for initiation of conservation methods. 3. Review system operational condition and capabilities. Complete any repairs to City facilities which effect the water systems production capability.	1. All measures of previous stage will remain in effect. 2. Contact all customers with meters larger than one inch to request reduction of water consumption by 15%.	1. All measures of previous stage will remain in effect. 2. The Director of Public Works of the City shall notify the local TV, newspaper, and police dept. of the status of the system. 3. Customers will be notified by telephone and written notice of the condition. 4. The City will eliminate all non-essential uses such as car washes and lawn watering.		

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	RICHLAND HILLS	TARRANT	*No Emergency/Drought Contingency Plan Submitted										
	SG	SANSOM PARK VILLAGE	TARRANT	*No Emergency/Drought Contingency Plan Submitted										
	SG	WHITESETTLEMENT	TARRANT	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).			1. Inform the public that between May 1 and September 1 customers should look for ways to conserve water. 2. Advertise voluntary lawn watering schedule. 3. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	1. Impose a mandatory odd-even watering schedule. 2. Prohibit non-essential water uses as defined in the plan. 3. Investigate complaints of water misuse and cite water wasters. 4. Vehicles may be washed at commercial car washes, otherwise, they may be washed utilizing water buckets only.	1. Prohibit all outdoor water use, except those needed to sustain livestock, pets, aquatic life, and fire fighting. 2. Contact largest commercial and industrial users and request limited water use or temporarily cease watering consuming operations. 3. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved. 4. Washing vehicles is prohibited, except those needed for sanitation or safety reasons.		
	SG	ALVORD	WISE	*No Emergency/Drought Contingency Plan Submitted										
	SG	BOYD	WISE	*No Emergency/Drought Contingency Plan Submitted										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	CHICO	WISE	1. When the total daily water demand equals or exceeds 175,000 gallons for 5 consecutive days or 200,000 gallons for a single day. 2. Continually falling treated water reservoir levels which do not refill above 75% overnight based on an evaluation of minimum treated water storage required to avoid system outage.	1. When the total daily water demand equals or exceeds 200,000 gallons for 5 consecutive days or 220,000 gallons for a single day.	1. When the total daily water demand equals or exceeds 225,000 gallons for 5 consecutive days or 240,000 gallons for a single day.	1. When the total daily water demand equals or exceeds 250,000 gallons for 5 consecutive days or 260,000 gallons for a single day.	1. Major water line breaks or pump or system failures occur which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: No flushing of dead lines will be implemented by the City. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Chico shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% reduction in daily demand. Supply Management Measures: The City in order to reduce water demand will not flush dead lines or wash vehicles or the outsides of buildings. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Use of West Wise Water Association as an alternative supply source will be implemented directly by the City to manage limited water supplies. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect. 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 40% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .	
	SG	RHOME	WISE	*No Emergency/Drought Contingency Plan Submitted										
WOODBINE AQUIFER	SG	ANNA	COLLIN	*No Emergency/Drought Contingency Plan Submitted										
	SG	BLUE RIDGE	COLLIN	*No Emergency/Drought Contingency Plan Submitted										
	SG	CELINA	COLLIN	*Refer to the City of Celina in the Trinity Aquifer Section	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.									
	SG	MELISSA	COLLIN	*No Emergency/Drought Contingency Plan Submitted										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	SG	PROSPER	COLLIN	System water production exceeds 400,000 gpd for 2 consecutive days or 360,000 gpd for 7 consecutive days.	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	System water production exceeds 520,000 gpd for 2 consecutive days or 440,000 gpd for 7 consecutive days.	Major power outage. Malfunction of major system component.	Contact major water users individually by telephone and post general public notice by radio and TV announcements asking customers to curtail outside water use.	Restrict all outside watering to 6 am to 8 am daily. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Institute water rationing to ensure essential uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Impose mandatory restrictions of water use. Close distribution systems valves to preserve water for vital uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.			
	SG	CEDAR HILL	DALLAS & ELLIS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.										
	SG	GLENN HEIGHTS	DALLAS	*Refer to the City of Glenn Heights in Ray Hubbard/Tawakoni System	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.										
	SG	HUTCHINS	DALLAS	*No Emergency/Drought Contingency Plan Submitted											
	SG	OVILLA	DALLAS & ELLIS	*Refer to the City of Ovilla in Ray Hubbard/Tawakoni System	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.										
	SG-HEBRON WSC	HEBRON	DENTON	*No Emergency/Drought Contingency Plan Submitted											
	SG	LITTLE ELM	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity exists for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not allow storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.	Step 1- Inform the City Council and general public in a meeting of the City Council. Designate a Public Info. Official. Advise public of condition and encourage voluntary reductions in water use. Individually contact commercial and industrial users and discuss need and opportunities for initiation of conservation methods. Review system operation condition and capabilities. Implementation of system oversight and make adjustments to meet changing conditions.	Step 2- Outdoor residential use will be permitted an alternate days. The Mayor will monitor system functions and may establish hours for outside water use. Public info officer shall keep the public advised. Commercial and industrial users will be individually visited to insure volunteered conservation has been initiated. All customers with larger than 1-inch meters will be requested to reduce consumption 15%.	Step 3- The City will ban water use to the following: 1. Vehicle washing, window washing, and all outside watering. 2. Public water uses which are non-essential. 3. Commercial uses and industrial uses will be controlled to the extent determined by the Mayor to restore overall system to a safe performance level.					
	SG	NORTHLAKE	DENTON	*No Emergency/Drought Contingency Plan Submitted											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	SG	FERRIS	ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.				1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.	1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawnwatering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am until 10 am and 8 pm until 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
	SG	ITALY	ELLIS	<b>*Refer to the City of Italy in the Trinity Aquifer</b>	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather forecast indicate mild drought conditions will exist 5 days or more. 3. One ground storage tank, or one elevated storage tank, or one clear well is taken out of service during mild drought period. 4. Storage water level is not being maintained during period of 100% rated production period. 5. Existence of any one listed condition for a duration of 36 hours.										
	SG	MAYPEARL	ELLIS	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	MILFORD	ELLIS	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	PALMER	ELLIS	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	RED OAK	ELLIS	<b>*No Emergency/Drought Contingency Plan Submitted</b>											
	SG	HONEY GROVE	FANNIN	<b>*No Emergency/Drought Contingency Plan Submitted</b>											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
				1	2	2	3	4	5	1	2	3	4	5
	SG	LEONARD	FANNIN	Continually falling treated water reservoir levels do not refill to a 100% overnight.	Continually falling treated water reservoir levels do not refill to a 90% overnight.	Continually falling treated water reservoir levels do not refill to a 90% overnight.	Continually falling treated water reservoir levels do not refill to a 85% overnight.	Continually falling treated water reservoir levels do not refill to a 75% overnight.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the West Leonard WSC shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the West Leonard WSC. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	SAVOY	FANNIN	Total daily water demand exceeds 80% or .0884 mgd for 5 consecutive days.	*Remaining stages missing from handout	*Remaining stages missing from handout						Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.
	SG	TRENTON	FANNIN	*No Emergency/Drought Contingency Plan Submitted										
	SG	BELLS	GRAYSON	*Refer to the City of Bells in the Trinity Aquifer Section					City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 2; or the specific capacity of the PHWS well is less than or equal to 90% of its original capacity; or total daily demand equals or exceeds the PHWS safe operating capacity.					

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4
	SG	DENISON	GRAYSON	Denison WTP has treated and distributed 10 mgd for 30 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 12 mgd for 3 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Force majeure	Goal- Achieve a voluntary 10% -20% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the City of Denison shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% -30% reduction in daily water demand. Water Use Restrictions: 1. 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 1 when using sprinklers, but watering is allowed anytime with hand held hose, buckets, drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable	Goal- Achieve a 30%-50% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% or greater reduction in daily water demand. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Implementation of water rationing pursuant to Executive Order.	
	SG	GUNTER	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	HOWE	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG-LUELLA WSC	LUELLA	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	POTTSBORO	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	SHERMAN	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	SOUTHMAYD	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	TOM BEAN	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	VAN ALSTYNE	GRAYSON	*Refer to the City of Van Alstyne in the Trinity Aquifer Section									
	SG	WHITEWRIGHT	GRAYSON	*No Emergency/Drought Contingency Plan Submitted									
	SG	FROST	NAVARRO	*No Emergency/Drought Contingency Plan Submitted									

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
HUBERT H MOSS LAKE	SS	GAINESVILLE	COOKE	*Refer to the City of Gainesville in the Trinity Aquifer Section	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.									
JOE POOL LAKE	TRA	CEDAR HILL	DALLAS & ELLIS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	TRA	DUNCANVILLE	DALLAS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System										
	TRA	GRAND PRAIRIE	DALLAS	*Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System										
	TRA	FERRIS	ELLIS	*Refer to the City of Ferris in the Woodbine Aquifer Section	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	TRA	MIDLOTHIAN	ELLIS	*Refer to the City of Midlothian in the Trinity Aquifer Section	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.									
	ROCKETT SUD	RED OAK	ELLIS	1. Average daily water use is approaching 4.7 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressures.	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of 5.2 mgd for three consecutive days. 3. All available water supply, such as the water wells, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped			1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 1 Curtailment: A. Prohibit water from landscape irrigation to escape into gutter, ditches, streets, etc. B. Failure to promptly repair a leak due to defective plumbing is prohibited. C. Prohibit recreational use D. Prohibit any other wasteful uses.	1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 2 Curtailment: A. Notify major commercial users of the situation and request voluntary reductions. B. Implement the City mandatory watering schedule, which allows customers with last names beginning with AM to water on even number days and customers with last names ending in N-Z to water on odd days. C. During winter months request customers to insulate pipes rather than running water to prevent freezing. D. Corporation will begin monitoring pressure in the distribution system and water levels in the storage tanks.	1. Inform the public and encourage reductions in water use. 2. Advise public daily of situation. 3. Enact Step 3 Curtailment: Ban all outdoor water use A. Continue implementation of all relevant actions of previous stages. B. Car, window, and pavement washing are prohibited unless done with bucket. C. The following public uses are prohibited: Street washing, water hydrant flushing, filling pools, golf course watering, and athletic field watering. D. Exceptions by approval of General Manager: Health and safety uses of water, commercial businesses that uses water to maintain, but not expand, their businesses, public gardeners, watering at a minimum rate necessary to establish or maintain revegetation or landscape plantings. 4. Certain industrial and commercial water users which are not essential to the health and safety of community will be prohibited from water use.		
CEDAR CREEK/RICHLAND-CHAMBERS SYSTEM	FORT WORTH	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	Daily water demand reaches 80% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 100% of the production capacity of the system for 3 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard; or a significant reduction in the production capacity of the system is experienced.			1. Inform public by mail and through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Advise the public of situation daily. 4. Advertise a voluntary watering schedule.	1. Impose mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit non-essential use. 5. Request industries and other non-municipal water users to stop certain use, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related issues.		

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	TRWD	MANSFIELD	ELLIS, JOHNSON & TARRANT	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.	1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	
	TRA/TRWD	MIDLOTHIAN	ELLIS	*Refer to the City of Midlothian in the Trinity Aquifer Section										
	EAST CEDAR CREEK FWSD(TRWD)	GUN BARREL CITY	HENDERSON	Daily water demand consumption exceeds 80% of WTP capacity; or storage tank levels do not refill above 95% overnight.	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	Daily water demand consumption exceeds 90% of WTP capacity; or storage tank levels do not refill above 75% overnight.	Daily water demand consumption exceeds 95% of WTP capacity; or storage tank levels do not refill above 65% overnight.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the East Cedar Creek Fresh Water Supply shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Facility. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 25% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 30% reduction in daily water demand. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.
	TRWD	MABANK	HENDERSON & KAUFMAN	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System										
	EAST CEDAR CREEK FWSD(TRWD)	PAYNE SPRINGS	HENDERSON	*Refer to the City of Gun Barrel City in the Cedar Creek/Richland Chambers System										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	WEST CEDAR CREEK MUD (TRWD)	SEVEN POINTS	HENDERSON	1. Average daily water use reaches 3,812,400 gpd (90% of firm line capacity) for three consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 3.0 mgd for three consecutive days. 3. Available water supply, Cedar Creek Lake, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.				Outdoor water use prohibited from 12 pm to 12 am on Fri., Sat., and Sun.	Outdoor water use prohibited from 12 pm to 12 am.	All outdoor water use is prohibited.		
	WEST CEDAR CREEK MUD (TRWD)	TOOL	HENDERSON	*Refer to the City of Seven Points in the Cedar Creek/Richland Chambers System											
	FORT WORTH	BURLESON	JOHNSON & TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	TRWD	KEMP	KAUFMAN	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System											
	SS	CORSICANA	NAVARRO	*No Emergency/Drought Contingency Plan Submitted											
	TRWD	ARLINGTON	TARRANT	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System											
	TRA	BEDFORD	TARRANT	*No Emergency/Drought Contingency Plan Submitted											
	TRWD	BENBROOK	TARRANT	*Refer to the City of Benbrook in the Trinity Aquifer Section	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.										
	TECON(TRWD)	BLUE MOUND	TARRANT	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System											
	TRA	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.	1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.	1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recycling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.					
	FORT WORTH	CROWLEY	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	FORT WORTH	DALWORTHINGTON GARDENS	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	FORT WORTH	EDGECLIFF VILLAGE	TARRANT	*Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System											
	TRA	EULESS	TARRANT	*No Emergency/Drought Contingency Plan Submitted											
	FORT WORTH	EVERMAN	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
		CITY	COUNTY	STAGES					STAGES					
				1	2	2	3	4	5	1	2	3	4	5
	FORT WORTH	FOREST HILL	TARRANT	<b>*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System</b>										
	TRWD	FORT WORTH	TARRANT	Water storage in TRWD West Fork Reservoirs is projected to decline to less than 295,670 acre-ft ( 50% of capacity) within 2 weeks, based upon projected water demand and inflows; or water storage in the TRWD reservoirs has declined to 1,426,752 acre-ft (60% of capacity); or demand for Fort Worth or TRWD exceeds 90% of deliverable capacity for 3 consecutive days; or water demands approach a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water storage in TRWD reservoirs has declined to 25% of capacity; or demand exceeds 95% of deliverable capacity for 5 consecutive days; or water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water Storage in TRWD reservoirs has declined to 20% of capacity; or demand exceeds 100% of deliverable capacity for 2 consecutive days; or water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.			1. City Manager or designee requests voluntary reductions is use. 2. Accelerate public information efforts. 3. Staff begins to review problems. 4. Notify major water users and assist them to achieve voluntary use reduction. 5. Prohibit city government use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request a reduction in landscape watering by city government. 7. No landscape watering between 10 am and 7 pm. 8. Determine effect on wholesale customers and notify them of impact. Advise them to start drought procedures.	1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public information efforts. 3. Begin mandatory water restrictions as follows: Prohibit hosing off paved areas, building or windows; operation of ornamental fountains; washing of vehicles by hose; using water in a manner that allows runoff or other water wastes. 4. Limit landscape watering to schedule (five-day rotation) provided by the City and watering is prohibited between 10 am and 7 pm. with exceptions. 5. Require a reduction by local governments of non-essential water use and a reduction in landscape watering. 6. Encourage people to let emergency situation pass before establish new landscaping. 7. Prohibit refilling of existing pools and filling of new pools, pools that are filled may add water to replace what is lost during the day. 8. Advise wholesale customers to take the correct actions.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages. 3. Prohibit residential and commercial landscape watering and vehicle washing between hours of 10 am and 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the five-day rotational basis as landscapes for up to two hours. 5. Golf course may water greens and tee-boxes, but not between the hours mentioned above. Fairways and all other areas must adhere to the watering schedule. 6. Public gardens may be watered, but not between posted hours. 7. Nurseries may water stock, but not between posted hours. 8. No new landscaping may be established during this period. 9. No refilling of private pools. Commercial and public pools may refill. 10. Advise wholesale customers to take the correct actions.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit all residential and commercial landscape watering, except: nurseries may water stock, public gardens may water, golf courses may water greens and tee-boxes, and foundations may be watered for 2 hours using a soaker hose or hand-held hose, but all must follow the watering schedule and times watering is allowed. 3. Vehicle washing is prohibited, unless it is for health, sanitation, or safety reasons; or at a commercial car wash. 4. No new landscaping during this period. 5. No refilling of private pools. Commercial and public pools may refill what is lost from normal daily use. 6. All commercial water users may be required to reduce consumption by a percentage determined by the director. 7. Advise wholesale customers to take the correct actions.

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	TRA	GRAPEVINE	TARRANT	1. Surface water demand reaches (90% of pumping capacity - City of Grapevine/TRA WTPS)(Design 18.77 mgd), Peak 19.67 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 90% of the reduced pumping capacity.	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	1. Surface water demand reaches (7 day period) (100% of pumping capacity - City of Grapevine/TRA WTPS)(Design 20.86 mgd), Peak 21.86 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system exceeds the reduced production, including a complete failure of the plant to produce any water.	1. Catastrophic failure of a critical component of the treatment, delivery or distribution system that would limit water available to meet demand.			1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Notify major commercial user of situation and encourage conservation. 3. Publicize a voluntary watering five-day rotational schedule. 4. Car, window and pavement washing are prohibited, unless done with bucket. 5. Landscape watering can occur between 6-10 am with portable sprinklers and 12-7am with a permanent automatic sprinkler system. Golf courses are allowed to water greens and tee-boxes on designated days between 12 am and 12 pm and 7 pm to 12 am. The irrigation of fairways is prohibited. 6. Prohibited public uses include: street washing, water hydrant flushing, filling of pools, athletic field watering.	1. Continue to implement all relevant actions from stage 1. 2. Implement stage 1 watering schedule, but make it mandatory.	1. Continue implementation of all relevant actions of preceding stages. 2. All outdoor watering is prohibited. 3. Contact TRA to determine if additional water is available. 4. By Council action, implement a user's surcharge for excessive use. 5. Ration water in the following order: Industrial, Commercial, Residential, Public health and Safety facilities.		
	FORT WORTH	HURST	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	FORT WORTH	KELLER	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	FORT WORTH/TRA	NORTH RICHLAND HILLS	TARRANT	*Refer to the City of North Richland Hills in the Trinity Aquifer	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.										
	FORT WORTH	RICHLAND HILLS	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System											
	FORT WORTH	WATAUGA	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.										
LAKE GRAPEVINE	SS	GRAPEVINE	DALLAS & TARRANT	*Refer to the City of Grapevine in the Cedar Creek/Richland Chambers System	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 17.14 mgd), Peak 18.93 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS								
				STAGES					STAGES								
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5			
	PARK CITIES MUD	HIGHLAND PARK	DALLAS	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 527 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 520 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 515 feet MSL.						1. Designated official will request reduction in use for all municipal operations. 2. Public info will be accelerated to encourage reduced water use. 3. Major users will be notified and asked to reduce use voluntarily. 4. Staff will begin to review problems.	1. Town or City will be responsible for reducing non-essential use. 2. Vehicle washing is prohibited, unless done with bucket or pail; or at a commercial car wash. 3. No runoff is allowed off yards. 4. No washing of structures. 5. No permitting or maintaining of defective plumbing. 6. No use of hydrants, unless for fighting fires. 7. No water use for ornamental fountains. 8. No washing down of hard-surfaced areas. 9. No water can be used for dust control.	1. Designated official announces beginning of mandatory water reduction. 2. Implement odd/even watering schedule. 3. The two councils shall set a mandatory water use limit with out penalty. 4. Restaurants are prohibited from serving water, unless requested. 5. Use for scenic ponds or lakes is prohibited. 6. The use of water for all pools is prohibited. 7. The use of water for new landscaping is prohibited.	1. All outdoor use is prohibited. 2. All allocations of water use to commercial customers shall be established by City Manager. 3. The max monthly usage by residents will be established by City Manager. 4. The Managers shall take actions deemed necessary to meet the conditions resulting from the emergency.
	PARK CITIES MUD	UNIVERSITY PARK	DALLAS	*Refer to the City of Highland Park													
LAKE RAY ROBERTS	UTRWD(DENTON)	CORINTH	DENTON	*Refer to the City of Argyle in the Elm Fork/Lake Grapevine System	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one cleanwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.												
	SS	DENTON	DENTON	*Refer to the City of Denton in the Elm Fork/Lake Grapevine System	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.												
	UTRWD(DENTON)	HIGHLAND VILLAGE	DENTON	*Refer to the City of Argyle in the Elm Fork/Lake Grapevine System													
	UTRWD(DENTON)	SANGER	DENTON	*Refer to the City of Argyle in the Elm Fork/Lake Grapevine System													
LAKE LEWISVILLE	SS	DENTON	DENTON	*Refer to the City of Denton in the Elm Fork/Lake Grapevine System	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.												
WEST FORK LESS BRIDGEPORT LOCAL	FORT WORTH	NORTHLAKE	DENTON	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.												
	TROPHY CLUB #1	ROANOKE	DENTON	*Refer to the City of Trophy Club in the Trinity Aquifer Section													
	FORT WORTH	SOUTHLAKE	DENTON & TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System													
	TROPHY CLUB #1	TROPHY CLUB	DENTON	*Refer to the City of Trophy Club in the Trinity Aquifer Section													
	TRWD	AZLE	PARKER & TARRANT	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.												
	COMMUNITY WSC	BRAIR	PARKER & TARRANT	*No Emergency/Drought Contingency Plan Submitted													

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SPRINGTOWN	RENO	PARKER	*No Emergency/Drought Contingency Plan Submitted										
	TRWD	SPRINGTOWN	PARKER	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System										
	TRWD	FORT WORTH	TARRANT	*Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.									
	FORT WORTH	HALTOM CITY	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
	FORT WORTH	HASLET	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
	FORT WORTH	KELLER	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
	FORT WORTH	LAKE WORTH	TARRANT	*Refer to the City of Lake Worth in the Trinity Aquifer Section										
	TRWD	RIVER OAKS	TARRANT	1. Water storage in TRWD West Fork reservoirs is projected to decline to less than 295,670 acre-feet(50% of capacity) within 2 weeks. 2. Water storage in the TRWD reservoirs has declined to 1,426,752 acre-feet(60% of capacity) 3. Demand for River Oaks or TRWD exceeds 90% of deliverable capacity for 3 consecutive days. 4. Water demand approaches a reduced delivery capacity for all or part of the system due to supply or production limitations including contamination of the system.	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has declined to 25% of capacity. 2. Demand exceeds 95% of deliverable capacity for 5 consecutive days. 3. Water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has declined to 20% of capacity. 2. Demand exceeds 100% of deliverable capacity for 2 consecutive days. 3. Water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water customers requested to voluntarily practice water conservation. 2. Accelerate public info efforts. 3. Staff will begin to review problems. 4. Notify major water users and request voluntary water use reduction. 5. Prohibit city government use of water for street washing, vehicle washing, operation of ornamental fountains and all other non-essential use. 6. Request voluntary reduction in landscape watering by city government. 7. Request voluntary limitation in landscape watering between 10am and 7pm.	1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public info efforts. 3. Begin mandatory water use restrictions as follows: Prohibit hosing off sidewalks, driveways, parking lots, paved areas, or other hard surfaced areas; Prohibit washdown of buildings, windows or structures, other than for fire production; Operation of ornamental fountains; Washing or rinsing of vehicles; Flushing of gutters; Using water in such a manner as to allow runoff or other wastes. 4. Implement the City's five-day rotational watering plan. 5. Require reduction by local governments of non-essential use and landscape watering. 6. Encourage public to wait until condition has improved before establishing new landscaping. 7. Prohibit draining and refilling of existing pools and filling of new pools. Existing commercial, public and private swimming pools that are filled may only add water that is lost during normal daily use.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages. 3. Prohibit residential or commercial landscape watering and car washing between the hours of 10am and 7pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on watering days for 2 hours. 5. Public gardens may water, but not between the hours 10am and 7pm. 6. Nurseries may water plant stock, but not between the hours of 10am and 7pm. 7. No new landscaping may be established during this period. 8. No refilling of private pools. Commercial and public pools may refill.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit residential and commercial landscape watering with the following exceptions: Nurseries' plant stock, public gardens, and foundations may be watered but must follow watering schedule and hours in stage 3; or any location using groundwater or wastewater effluent for irrigation. 3. Any and all washing of vehicles is prohibited, except vehicles that need to be washed for health, sanitation, or safety reasons, such as food carriers. 4. No new landscaping may be established during this period. 5. All commercial water users may be required to reduce water consumption by a percentage determined by the Mayor.		
	FORT WORTH	SAGINAW	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
	FORT WORTH	SANSOM PARK VILLAGE	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	FORT WORTH	WESTWORTH VILLAGE	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
	FORT WORTH	WHITE SETTLEMENT	TARRANT	*Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System										
LAKE BARDWELL	TRA	ENNIS	ELLIS	The water supply available from Lake Bardwell is equal to or less than 26,778 acre-feet, the lake elevation is at 415 -420 feet MSL the normal lake storage is at 55% or the daily potable water supply system demand is at 85+% capacity.	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	The water supply available from Lake Bardwell is equal to or less than 16,111 acre-feet, the lake elevation is at 410 -412 feet MSL the normal lake storage is at 35% or the daily potable water supply system demand is at 95+% capacity.	The water supply available from Lake Bardwell is equal to or less than 10,080 acre-feet, the lake elevation is at 406 -409 feet MSL the normal lake storage is at 20% or the daily potable water supply system demand is at 98+% capacity.	Voluntary reductions will be encouraged, increased public information.	Mandatory limits on lawn watering, restrictions against hosing off paved areas, building or windows washing or rinsing of vehicles by hose and any operation of fountains. No draining and refilling of swimming pools. Violators subject to fines.	Strengthen mandatory water restrictions to specified days and hours, raise retail and wholesale rates by 10% for use exceeding 4,000 gallons per month.	No watering of landscaped areas, no washing of vehicles, mandatory reduction for commercial users, raise rates another 10% for use exceeding 4,000 gallons per month.		
	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	Monitor weather conditions, activate Lake Bardwell Pump Station at elevation 529 feet.	Lake elevation drops to 527 feet.	Lake elevation drops to 527 feet.	Lake elevation drops to 524 feet.	Lake elevation drops to 520 feet.	Lake elevation drops to 517.5 feet.	Voluntary reduction with public education of conditions and reduce non-essential use of water	Mandatory limits on all lawn and landscape watering to Wed. and Sat. only. Prohibit washing off paved areas, buildings or vehicles; or rinsing off fountains or filling of swimming pools. Violators subject to fines.	Limit watering of landscaped areas between 4-9am on designated days. All commercial and industrial accounts must submit a detailed water conservation plan to the city for consideration and approval. Violators subject to fines.	No landscape watering, no washing of vehicles, and all violators subject to fines.	
LAKE CLARK	TRA	ENNIS	ELLIS	*Refer to the City of Ennis in the Lake Bardwell Section	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.									
OTHER AQUIFER	FILES VALLEY WC-PG	MILFORD	ELLIS	*No Emergency/Drought Contingency Plan Submitted										
	PG	PECAN HILL	ELLIS	*No Emergency/Drought Contingency Plan Submitted										
	SG	ANNETTA	PARKER	*No Emergency/Drought Contingency Plan Submitted										
	PG	AURORA	WISE	*No Emergency/Drought Contingency Plan Submitted										
LAKE WAXAHACHIE	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	*Refer to the City of Waxahachie in the Lake Bardwell Section	Lake elevation drops to 527 feet.									
REUSE	TRA	WAXAHACHIE	ELLIS	*Refer to the City of Waxahachie in the Lake Bardwell Section	Lake elevation drops to 527 feet.									
CARRIZO-WILCOX AQUIFER	SG	FAIRFIELD	FREESTONE	*No Emergency/Drought Contingency Plan Submitted										
	SG	TEAGUE	FREESTONE	*No Emergency/Drought Contingency Plan Submitted										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	ATHENS	HENDERSON	Daily usage exceeds 4.5 mgd.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 65% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 50% overnight.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to even number days for even number address and odd number days for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1, watering is allowed at all times when done use a hand-held hose, a bucket or watering can, or drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City. 3. The use of water for construction purposes under special permit is discontinued. 4. Restaurants are prohibited from serving water to patrons, unless requested.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above, except between 6-10 am and 6-10 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.
	SG	EUSTACE	HENDERSON	<b>*No Emergency/Drought Contingency Plan Submitted</b>										
	SG	MALAKOFF	HENDERSON	<b>*No Emergency/Drought Contingency Plan Submitted</b>										
TEAGUE CITY LAKE	SS	TEAGUE	FREESTONE	<b>*No Emergency/Drought Contingency Plan Submitted</b>										
WORTHAM LAKE	SS	WORTHAM	FREESTONE	1. Average daily water consumption reaches 90% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 85% of full capacity.	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	1. Failure of elevated storage tank or other major system component which reduce the availability of water to less than 50% of the average daily usage or causes health or safety hazard. 2. Water level in Lake Wortham drops below 50% of full capacity. 3. Water supply from City of Mexia is out of service.		1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Implement odd/even voluntary watering schedule between the hours of 6-8 am and 8-10 pm.	1. Continue implementation of stage 1 actions. 2. Prohibit nonessential use. 3. Limit residential car, window, and pavement washing unless a bucket is used. 4. Impose watering schedule in stage 1, but make it mandatory. 5. Assess fines to water wasters.	1. Maintain all relevant actions of previous stages. 2. Forbid all outside water use. 3. Restrict each customer's water consumption to a percentage determined prior. 4. Consider adoption of an emergency ordinance to implement water rationing.			
LAKE TEXOMA	COE STORAGE	DENISON	GRAYSON	<b>*Refer to the City of Denison in the Woodbine Aquifer Section</b>	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.									

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS						
				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
	GTUA	SHERMAN	GRAYSON	1. Water demand has reached 2 times average daily use for 10 consecutive days. 2. Water levels are low enough to disrupt beneficial recreation activities. 3. Water levels are low enough that the supply situation may become critical if the drought conditions continue.	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact level beyond which operational problems will occur.	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact level beyond which operational problems will occur.	1. Imminent or actual failure of a major component of the system has occurred which will cause immediate health or safety hazard. 2. Above ground storage cannot be replenished during off-peak periods. 3. Wells are producing at 2 times average daily consumption for a period of 20 consecutive days. 4. Water demand exceeds the system's capacity on a regular basis, presenting the imminent danger of a major system failure.				1. Inform the public and encourage voluntary conservation. 2. Activate info center. 3. Advise public daily. 4. Advise a voluntary daily lawn watering schedule.	1. Impose mandatory lawn watering schedule between the hours of 6-8 am and 6-8 pm only. 2. Fine water wasters. 3. Institute excessive use fee. 4. Prohibit non-essential use. 5. Request industries or other non-municipal water to stop certain uses, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial users to stop operations so that remaining water is available for essential health and safety related uses.		
LAKE RANDELL	SS	DENISON	GRAYSON	*Refer to the City of Denison in the Woodbine Aquifer Section		Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.									
	DENISON	POTTSBORO	GRAYSON	*Refer to the City of Denison in the Woodbine Aquifer Section											
LAKE ATHENS	ATHENS MWA	ATHENS	HENDERSON	*Refer to the City of Athens in the Carrizo-Wilcox Aquifer Section		Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.									

Table O-1  
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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
				1	2	2	3	4	5	1	2	3	4	5
TRINIDAD CITY LAKE	SS	TRINIDAD	HENDERSON	The water supply available to the City of Trinidad is equal to or less than 230 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 75 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 50 acre-feet.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in total water use. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Trinidad shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair leaks is p	Goal- Achieve 20% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be occurring to the schedule between the hours of 6am until 10am and 6pm until 10pm. 2. Use of water to wash vehicles shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS				
				STAGES					STAGES				
				1	2	2	3	4	5	1	2	3	4
LAKE BRYSON	SS	BRYSON	JACK	When the reservoir level reaches the 50% level.	When the reservoir level reaches the 40% level.	When the reservoir level reaches the 30% level.	When the reservoir level reaches the 15% level.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Stage 6 - Water Allocation-When the reservoir reaches the 15% level or treatment capabilities drop below 25%.	Goal- Achieve a voluntary 5% reduction in daily demand. Supply Management Measures: Educate public on water conservation. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Bryson shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure	Goal- Achieve 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Discontinue all water system operations, initiate emergency response procedures. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.
LOST CREEK/JACKSBORO SYSTEM	SS	JACKSBORO	JACK	1. Treatment plant production exceeds 0.9 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.8 mgd. 3. The lake level in Lake Jacksboro reaches an elevation of 1006 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1400 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.1 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.4 mgd during October through May or 0.6 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1004 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1000 acre-feet (after first fill of Lost Creek Reservoir).	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in water usage by limiting lawn watering to once every 5 days. 4. Request limiting car washing to once a week. 5. Request reduction in indoor by 10%	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Implement the 5 day rotational watering system of the City. 5. Prohibit all other non-essential uses. 6. Impose a fine of \$200 for violations. 7. Impose a surcharge of \$3.50 per 1000 gallons for all use over 8,000 gallons per month.	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Prohibit all outdoor water use. 5. Impose a fine of \$500 for violations. 6. Impose a surcharge of \$3.50 per 1000 gallons for all use over 7,000 gallons per month.			

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				STAGES					STAGES						
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5	
BRIDGEPORT LOCAL	TRWD	JACKSBORO	JACK	*Refer to the City of Jacksboro in the Lost Creek/Jacksboro System		1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).									
	TRWD	FORT WORTH	TARRANT	*Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System		TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.									
	TRWD	BRIDGEPORT	WISE	1. Average daily water consumption reaches 90% of production capacity for 3 consecutive days. 2. Weather conditions are to be considered in drought classification determination. Predicted long, cold or dry periods are to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not enable storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought classification occurs at the same time for a 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe conditions is reached immediately upon detection.	1. Develop info center and designate info person. 2. Advise public of condition. 3. Encourage voluntary reductions. 4. Contact commercial and industrial users and encourage conservation. 5. Implement system oversight and make adjustments as required to meet changing conditions.	1. Implement City odd/even watering schedule. 2. Mayor will monitor system and set hours. 3. Keep public advised of situation. 4. Commercial and industrial users will be visited to insure volunteered conservation.	Mayor will ban use for the following: 1. Vehicle and window washing, outside watering. 2. Non-essential public uses. 3. Commercial uses not listed and industrial uses will be controlled to the extent dictated by the Mayor.					
	WEST WISE WSC	CHICO	WISE	*Refer to the City of Chico in the Trinity Aquifer Section											
	WISE CO WSD	DECATUR	WISE	When water pressures leaving the water plant drops to 100 psi or total water demand equals or exceeds 600,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 96 psi or total water demand equals or exceeds 750,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 94 psi or total water demand equals or exceeds 850,000 gallons for 3 consecutive days.	1. Major water line breaks or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 2% reduction in total use and a 2% increase in pressure. Demand Management Measures: Contact wholesale customers and request voluntary measures to reduce use; General Manager will provide weekly reports to media.	Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Contact wholesale customers to discuss conditions and possibility of pro rata curtailment; request initiation of mandatory measures; initiate preparation for pro rata curtailment; will provide weekly reports to media.	Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Request initiation of mandatory measures; initiate pro rata curtailment; will provide weekly reports to media.	1. Assess severity of situation. 2. Inform wholesale customers. 3. Notify city, county, or state officials for assistance. 4. Undertake necessary actions e.g.. Repairs. 5. Prepare post event report.		

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				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
LAKE TAWAKONI	SS	TERRELL	KAUFMAN	Water in storage in the New Terrell City Lake is equal to or less than ____ (acre-feet and/or percentage of storage capacity).	When the water supply available to the City of Terrell is equal to or less than ____ (acre-feet, percentage of storage, etc.).	When the water supply available to the City of Terrell is equal to or less than ____ (acre-feet, percentage of storage, etc.).	When total daily water demand equals or exceeds ____ percent of the safe operating capacity of ____ million gallons per day for ____ consecutive days or ____ percent on a single day.	When total daily demand equals or exceeds ____ million gallons for ____ consecutive days of ____ million gallons on a single day (e.g., based on the "safe" operating capacity of water supply facilities).	Continually falling treated water reservoir levels do not refill above ____ percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).	Goal- Achieve a voluntary --% reduction in --. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a --% reduction in --. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve --% reduction in --. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
LAKE TERRELL	SS	TERRELL	KAUFMAN	*Refer to the City of Terrell in the Lake Tawakoni Section					When the water supply available to the City of Terrell is equal to or less than ____ (acre-feet, percentage of storage, etc.).					
NAVARROMILLS RESERVOIR	CORSICANA (TRA)	BLOOMING GROVE	NAVARRO	WSE declines to below 422.5 feet.	WSE declines to below 421.5 feet.	WSE declines to below 421.5 feet.	WSE declines to below 419.0 feet.	WSE declines to below 414.5 feet.	WSE declines to below 388.0 feet.	Authority will notify wholesale customers and encourage voluntary reduction.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.
	TRA	CORSICANA	NAVARRO	*Refer to the City of Blooming Grove										
	CORSICANA (TRA)	DAWSON	NAVARRO	*Refer to the City of Blooming Grove										
	CORSICANA (TRA)	FROST	NAVARRO	*Refer to the City of Blooming Grove										
	CORSICANA (TRA)	KERENS	NAVARRO	*Refer to the City of Blooming Grove										
	CORSICANA (TRA)	RICE	NAVARRO	*Refer to the City of Blooming Grove										
LAKE HALBERT	SS	CORSICANA	NAVARRO	*No Emergency/Drought Contingency Plan Submitted										

Table O-1  
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					POSSIBLE ACTIONS					
				STAGES					STAGES					
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
LAKE MINERAL WELLS	SS	MINERAL WELLS	PARKER	*No Emergency/Drought Contingency Plan Submitted										
LAKE PALO PINTO	SS	MINERAL WELLS	PARKER	*No Emergency/Drought Contingency Plan Submitted										
LAKE WEATHERFORD	SS	WEATHERFORD	PARKER	*No Emergency/Drought Contingency Plan Submitted										
LAKE BENBROOK	TRWD	WEATHERFORD	PARKER	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.	1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	
	TRWD	BENBROOK	TARRANT	*Refer to the City of Benbrook in the Trinity Aquifer	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.									
	TRWD	FORT WORTH	TARRANT	*Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.									
LAKE ARLINGTON	TRWD	ARLINGTON	TARRANT	*Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.									