

Texas Water Development Board



2016 Region M Water Plan

Appendix D: Drought Contingency Plans Summary

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Agua Special Utility District 4/1/2014	Reservoir level, water demand/WTP and pump capacity, emergency situation	TRIGGERS:	a) US waters of the Amistad and Falcon reservoirs is equal to or less than 40% storage capacity, b) any of the WTP are operating at or above 65% total daily capacity for 3 consecutive days, c) water system pumps are operating at or above 65% total daily capacity for 3 consecutive days	a) US waters of the Amistad and Falcon reservoirs is equal to or less than 30% storage capacity, b) any of the WTPs are operating at or above 75% total daily capacity for 3 consecutive days, c) water system pumps are operating at or above 75% total daily capacity for 3 consecutive days	a) US waters of the Amistad and Falcon reservoirs is equal to or less than 25% storage capacity, b) any of the WTPs are operating at or above 85% total daily capacity for 3 consecutive days, c) water system pumps are operating at or above 75% total daily capacity for 3 consecutive days	a) US waters of the Amistad and Falcon reservoirs is equal to or less than 20% storage capacity, b) any of the WTPs are operating at or above 90% total daily capacity for 24 consecutive hours, c) water system pumps are operating at or above 90% total daily capacity for 24 consecutive hours, d) an immediate reduction in water use is required to protect the public health and safety and/or integrity of the water system	
		ACTIONS:	Customers are required to follow a certain schedule in order to: irrigate landscapes, wash vehicles, add water to pools, and irrigate golf courses/parks/greenbelt. The following are prohibited: operating ornamental fountains unless required to support aquatic life or if recirculation is used, use of water from hydrants or flush valves unless required to maintain public health, safety, and welfare, washing down hard-surfaced areas or structures, use of water for dust control, permitting water to run into any gutter or street, failure to repair controllable leaks within a reasonable period of time, any waste of water.	Customers are required to follow a certain schedule in order to: irrigate landscapes in a hand-help watering manner, wash vehicles, and add water to pools. The following are prohibited: irrigating landscapes with a sprinkler, irrigating gold courses/parks/greenbelt, operating ornamental fountains unless required to support aquatic life or if recirculation is used, use of water from hydrants or flush valves unless required to maintain public health, safety, and welfare, washing down hard-surfaced areas or structures, use of water for dust control, permitting water to run into any gutter or street, failure to repair controllable leaks within a reasonable period of time, any waste of water.	Customers are required to follow a stricter schedule in order to irrigate landscapes in a hand-help watering manner. The following are prohibited: washing vehicles, adding water to pools, irrigating landscapes with a sprinkler, irrigating gold courses/parks/greenbelt, operating ornamental fountains unless required to support aquatic life or if recirculation is used, use of water from hydrants or flush valves unless required to maintain public health, safety, and welfare, washing down hard-surfaced areas or structures, use of water for dust control, permitting water to run into any gutter or street, failure to repair controllable leaks within a reasonable period of time, any waste of water. No applications for any new or expanded water service connections will be approved.	The following are prohibited: irrigation of landscaped area, all outdoor use of water, washing vehicles, adding water to pools, irrigating gold courses/parks/greenbelt, operating ornamental fountains unless required to support aquatic life or if recirculation is used, use of water from hydrants or flush valves unless required to maintain public health, safety, and welfare, washing down hard-surfaced areas or structures, use of water for dust control, permitting water to run into any gutter or street, failure to repair controllable leaks within a reasonable period of time, any waste of water. No applications for any new or expanded water service connections will be approved.	
City of Alamo 3/28/2014		TRIGGERS:	Initiated automatically May 1 through Sept. 30 each year	Daily water use equals or exceeds 85% of treatment capacity for 7 consecutive days	Daily water use equals or exceeds 95% of treatment capacity for 7 consecutive days and/or reservoir levels continually recede on a daily basis and remain below 74% of capacity for 48 consecutive hours, and/or water pressure below 20 psi occurs in distribution system.	Daily water use equals or exceeds 120% of treatment capacity for 3 consecutive days and/or the reservoir levels continually recede on a daily basis and remain below 50% capacity for 24 consecutive hours, and/or water pressure below 20 psi occurs in distribution system and the City Manager determines such conditions are a hazard to public health and safety.	1. Major water lines break, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or 2. Natural or man-made contamination of the water supply source(s).
		ACTIONS:	a) customers requested to voluntarily limit landscape irrigation to certain days and times. b) all operations of the city of Alamo will adhere to restrictions in Stage 2. c) customers requested to practice water conservation and minimize or discontinue water use for non-essential purposes.	a) City to reduce flushing of water mains. b) required schedule and/or means restricted for the following: landscape irrigation, washing motor vehicles, filling pools, irrigation of golf courses unless using alternate water source. c) the following are prohibited: operation of fountains or ponds except to support aquatic life or with recirculation system; use of hydrants except for fire fighting, construction with special permit, and other necessary activities; serving water in restaurants except when requested; all non-essential uses and failure to repair controllable leak(s).	City to reduce or discontinue flushing of water mains and irrigation of public landscaped areas, as well as use alternative supply sources. All requirements from Stage 2 except: schedule and means further restricted for landscape irrigation, watering of golf courses prohibited unless using alternate water source, use of hydrants for construction with special permit to be discontinued.	City to reduce or discontinue flushing of water mains and irrigation of public landscaped areas, as well as use alternative supply sources. All requirements from Stage 2 and 3 except: schedule and means further restricted for landscape irrigation and washing of motor vehicles; use of water for swimming pools prohibited; no applications for new, additional, or expanded water connections, meters, lines, etc. shall be approved.	City to discontinue flushing of water mains, fire hydrants, and irrigation of public landscaped areas. All requirements from Stages 2, 3, and 4 except: irrigation of landscaped areas and use of water to wash motor vehicles is absolutely prohibited. Stage 6 - Water allocation according to water allocation plan.
Brownsville Public Utilities Board 5/1/2014	Time of year, reservoir level, system break/failure or contamination, water demand/WTP capacity, projected water demand	TRIGGERS:	Automatically initiated on May 1 of each year and for any of the following: a) TCEQ Rio Grande Watermaster advises that a water shortage is possible due to low levels in Amistad and Falcon reservoirs, b) level of US' water in Amistad and Falcon reservoirs reaches 51%, c) line break, pump, or system failure may result in unprecedented loss of capability to provide service, or d) peak demand on the distribution system and/or treatment plants is nearing capacity limits	a) Level of US' water in Amistad and Falcon reservoirs reaches 25%, b) analyses of water supply and demand indicate that the annual water allotment may be exhausted, c) line break or pump, or system failure will result in unprecedented loss of capability to provide service, d) peak demands on the distribution system and/or treatment plants are nearing capacity levels, or e) contamination of the water supply and/or transmission system may result in unprecedented loss of capability to provide service	a) Level of US' water in Amistad and Falcon reservoirs reaches 15%, b) analyses of water supply and demand the annual water allotment will be exhausted, c) major line break, or pump or system failure may result in unprecedented loss of capability to provide service, d) peak demand on the distribution system and/or treatment plants has exceeded capacity levels for three days, e) contamination of the water supply and/or transmission system will result in unprecedented loss of capability to provide service, or f) the inability to maintain or replenish adequate volumes of water in storage to provide for public health and safety	a) Major line breaks, or pump or system failures occur which cause unprecedented loss of capability to provide water service, or b) contamination of water supply and/or transmission system	
		ACTIONS:	Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses.	Customers shall only be allowed to irrigate and wash vehicles following a certain schedule, golf courses shall follow restrictions in their approved water management plans, restaurants may only serve water to customers upon request, and the following are prohibited unless necessary for public health and safety: washing hard-surfaced areas, washing buildings or structures, using water for dust control, flushing gutters, and failing to repair controllable leaks within a reasonable period of time	All requirements of Stage 2 shall remain in effect and in addition the schedule irrigation and vehicle washing will be further restricted, the use of water from hydrants is only allowed when necessary to maintain public health, safety, and/or welfare, and the following are prohibited: refilling outdoor pools (with some exceptions), operation of outdoor fountains or ponds without recirculation systems unless required to maintain aquatic life, hydrant and sewer flushing except for emergencies, and use of water from or pumping water into resacas.	All requirements of Stage 3 shall remain in effect and in addition the following are prohibited: all landscaping watering, use of water for construction purposes under special permit, adding water to swimming pools, adding water to any outdoor or indoor fountain or pond, except to maintain aquatic life	
City of Donna 9/1/2007		TRIGGERS:	Total daily water demand equals or exceeds 82.2 percent of the system's safe operating capacity for 3 consecutive days.	Total daily water demand equals or exceeds 86.6 percent of the system's safe operating capacity for 3 consecutive days.	Total daily water demand equals or exceeds 91.1 percent of the system's safe operating capacity for 3 consecutive days.	Total daily water demand equals or exceeds 95.5 percent of the system's safe operating capacity for 3 consecutive days.	a) Major water line breaks or pump or system failures occur, causing unprecedented loss of capability to provide water service, or b) Natural or man-made contamination of water supply source(s), or c) unavailability of water supply, unavailability of alternate sources of water, or drought of record conditions which cause unprecedented loss of capability to provide water service.
		ACTIONS:	a) customers requested to voluntarily limit landscape irrigation to certain days and times. b) all operations of the city of Alamo will adhere to restrictions in Stage 2. c) customers requested to practice water conservation and minimize or discontinue non-essential water use.	City shall reduce flushing of water mains. a) schedule and/or means of the following are restricted: landscape irrigation, washing of motor vehicles, use of water for pools, golf course irrigation. b) The following are prohibited: use of water for fountains or ponds, except to support aquatic life; use of hydrants, except for fire fighting, construction with special permit, and necessary activities; serving water in restaurants unless requested; all non-essential uses.	City shall discontinue flushing of water mains and inspect water distribution system, tanks, and treatment plants to locate leaks and make repairs. All requirements of Stage 2 in effect except: Further restrictions on schedule and means of landscape irrigation, watering of golf courses prohibited unless using alternate water source, use of hydrants for construction with special permit discontinued.	City shall actively pursue the detection, repair, and correction of leaks by means of watering, analysis of water system and billing data, use of leak detection equipment, or use of control devices. All requirements of Stage 3 in effect except: further restrictions on schedule and means of landscape irrigation and washing motor vehicles; water for pools prohibited; water for fountains prohibited except for aquatic life; and no applications for new, additional, or expanded water service connections, lines, etc. shall be allowed.	All requirements of stage 4 remain in effect except: landscape irrigation and use of water to wash motor vehicles is absolutely prohibited.
Eagle Pass Water Works System 7/1/2009	Water demand, distribution system pressure, system break/failure or contamination	TRIGGERS:	a) Daily Water demand exceeds 85% of the rated plant capacity for three consecutive days, or b) distribution pressure remains below 45 psi for more than six consecutive days	a) Daily water demand exceeds 90% of the rated plant capacity for three consecutive days, or b) distribution pressure remains below 43 psi for more than six consecutive days	a) Daily water demand exceeds 95% of the rated plant capacity for three consecutive days, b) distribution system pressure remains below 40 psi for more than six consecutive days, c) contamination of the supply sources, or d) system outage due to the failure or damage of major water system components		
		ACTIONS:	Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses.	Customers are required to follow an irrigation schedule and the following are prohibited unless necessary for public health and safety: waste of water, car, window, or pavement washing without the use of a bucket, street washing, fire hydrant flushing, filling swimming pools, athletic field watering	All requirements of Stage 2 shall remain in effect and in addition all outdoor water use is banned and limits will be set on water use by both commercial and resident users		

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
East Rio Hondo Water Supply Corporation 5/1/2014	Reservoir level, irrigation district notice to disallow irrigation, water demand, system break/failure or contamination, distribution system pressure	TRIGGERS:	Falcon and Amistad Reservoirs reach 40% of capacity as determined by the TCEQ	a) Cameron County Irrigation District No. 2 or other IDs provide notice to ERHWSC that they will disallow farm irrigation water use within 60-90 days, b) distribution system pressures fall below 35 psi requirements for two consecutive days, c) ERHWSC consumer demand exceeds 85% of ERHWSC plan capacity for 15 days out of any consecutive 30 day period, or d) Falcon and Amistad Reservoirs reach 15% of capacity as determined by TCEQ.	a) Major water line breaks, or pump or system failures occur, which cause loss of capability to provide water service, b) natural or man-made contamination of the water supply source(s), c) rapidly occurring low-pressure conditions (less than 20 psi) due to any reason.		
		ACTIONS:	Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses.	Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses, such as irrigation, washing vehicles, and ornamental fountains and ponds.	All requirements of Stage 2 shall remain in effect, except the following are prohibited: all irrigation of landscape, using water to wash any vehicle, and adding water to any type of pool.		
Harlingen Waterworks System 6/15/2015		TRIGGERS:	When three or more of the following criteria are met: 1) City reservoir levels = 43' MFR & 40' DTW and falling, 2) Rio Grande River flows = 13.0 cm/s, 3) PDSI = moderate drought (-2.0 to -2.9), 4) Water demand = 70% of WTP Capacity (26.2 MGD)	When three or more of the following criteria are met: 1) City reservoir levels = 42' MFR & 39' DTW and falling, 2) Rio Grande River flows = 12.0 cm/s, 3) PDSI = severe drought (-3.0 to -3.9), 4) Water demand = 80% of WTP Capacity (26.2 MGD)	When three or more of the following criteria are met: 1) City reservoir levels = 41' MFR & 38' DTW and falling, 2) Rio Grande River flows = 11.0 cm/s, 3) PDSI = extreme drought (-4.0 or less), 4) Water demand = 90% of WTP Capacity (26.2 MGD)	All four of the criteria of Stage 3 are met; a major pipeline breaks or pump system failure occurs which causes unprecedented loss of capacity to provide water service; or contamination of the water supply	
		ACTIONS:	Customers are requested to voluntarily conserve water by limiting the irrigation of landscaped areas and minimize waster use for non-essential purposes. All operations of Harlingen Waterworks System shall adhere to water restrictions prescribed for Stage 2.	Irrigation of landscape not by use of a hand-held hose, bucket, or drip irrigation shall be on a schedule based on location. Automobile washing not at a commercial facility will be limited to the irrigation schedule and will only be permitted with a hand-held bucket or hose with shut off nozzle. Use of water from fire hydrants will only be allowed for fire fighting or activities to maintain public health, safety, and welfare without a special permit. Golf course irrigation will only be allowed between 11pm and 6am.	The schedule for landscape irrigation is limited further. Use of water to fill pools is only allowed on watering days. Operation of ornamental fountains will only be allowed if they are necessary to sustain aquatic life or equipped with recirculation system. Only greens and tees on golf courses may be watered. Restaurants may only serve water to their customers when it is requested. The following are prohibited: wash down of sidewalks, walkways, driveways, parking lots, tennis courts, or other hard surfaces; wash down of buildings or structures; use of water for dust control; flushing gutters or permitting water to accumulate in a gutter or street; failure to repair a controllable leak within a reasonable period of time	The following are prohibited: all outdoor use of water (including irrigation) except for the direct need to protect the health, safety, and welfare of the public; washing automobiles; filling pools; operation of ornamental fountains unless necessary to sustain aquatic life. The General Manager is authorized to deny any new or expanded water connections, pipeline extensions, etc.	
Laguna Madre Water District		TRIGGERS:	Voluntary conservation is the first stage. It is always in effect unless a higher stage is required and enacted.	1. When the level of U.S. water stored in Amistad and Falcon Reservoirs reaches 51% or 1,660,000 AF (or below). When the level of water is above this amount, this phase is terminated. 2. Average daily water use is approaching 90% of system capacity, 3. Net storage in District's raw water reservoirs are at 75% and is continually decreasing on a daily basis such that a more serious problem may develop, 4. The availability of raw water is low. 5. The availability of water rights based on quarterly capacity: 1st-20%, 2nd-40%, 3rd-70%. 6. The capacity to transport and/or treat raw water has been affected. 7. The distribution capacity to customers is approaching a maximum. 8. The reservoir III level at WTP #2 is at 7 feet and dropping.	1. During peak demand days such as Texas Week, Easter, Memorial Day, and Labor Day. 2. When the level of US water stored in Amistad and Falcon Reservoirs reaches 25% or 834,600 AF (or below). When the level of water is above this amount, this phase may be terminated. 3. Net storage in District's raw water reservoirs is at 50% and is continually decreasing on a daily basis such that a more serious problem may develop. 4. The availability of raw water is low. 5. The availability of water rights based on quarterly capacity: 1st-22%, 2nd-46%, 3rd-81%	1. When the level of US water stored in Amistad and Falcon Reservoirs reaches 15% or 504,600 AF (or below). 2. When a condition related to unexpected circumstances, such as a major problem on the water system due to natural disaster or unanticipated restriction on the raw water delivery system that immediately diminishes the LMWD's ability to deliver a normal water level. 3. Net storage in district's raw water reservoirs is at 25% and is continually decreasing on a daily basis such that a more serious problem may develop. 4. water demand is exceeding the system's capacity on a regular basis. 5. Rio Grande River level is so low that the River Pumps cannot pump the daily raw water demand. 6. All raw water is being pumped from District's Storage Reservoirs and all replenishment of raw Water Reservoirs has stopped. 7. The availability of water rights based on quarterly capacity: 1st-24%, 2nd-50%, 3rd-89%. 8. Contamination of the water supply and/or transmission and distribution system due to hurricanes, freezes and/or other natural disasters or man-made cause may result in extraordinary loss of capability to provide service. 9. The alternative water source for the LMWD is to purchase "water" from another system or from a retail entity.	
		ACTIONS:	Voluntary Water Use Restrictions: 1. Recommend that all landscape areas be irrigated on a twice per week or less schedule and that such irrigation occur from midnight through 7 am or other schedules as determined from the General manager; 2. Recommend water customers to discontinue water use for non-essential purposes such as washing any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard surface areas.	1. Landscape irrigation will be permitted from 7 pm through 7 am and on designated water days. 2. Use of water to wash any motor vehicle, trucks, trailers, boats, airplanes, and other mobile equipment will be prohibited except of the landscape water days described above. 3. Water use for non-essential purposes is prohibited.	1. During Spring Break (Texas Week) landscape irrigation will be restricted from 9am the Friday before the actual date of Spring Break through Monday at 9am. Peak demands on other Holidays falling on a Tuesday, Wednesday, or Thursday will have restrictions beginning at 9am a day before the holiday and ending a day after at 9am. Holidays falling on Friday thru Monday will have restrictions beginning on Friday 9am and end on Monday at 9am. 2. Landscape irrigation will be permitted on designated water days. Landscape irrigation with a hand-held garden hose, soaker hose, hand-held bucket or water can, no more than 5 gallons capacity or drip irrigation. Landscape irrigation time will be 7pm to 7am. 3. Commercial nurseries and other similar establishments will have these water restrictions: hand-held buckets or water cans from 7pm - 7am, drip or sprinkler irrigation systems from 7pm-7am. 4. Water use for non-essential purposes is prohibited. 5. Permitting or maintaining defective plumbing in a home or business is prohibited. 6. Operation of any outdoor ornamental fountain or pond for aesthetic or scenic purposes is prohibited, except where necessary to support aquatic life or where such fountain or ponds are equipped with a water recirculation system. 7. Landscape irrigation variances are available but customers need to apply by mail. Facsimile, or email their name, address where the new landscape is to be installed, and the date of installation	1. Water use for non-essential purposes is prohibited, including landscape water irrigation, washing of mobile vehicles, watering of golf courses, use of fountains. 2. The use of fire hydrants for any purpose other than fire fighting is prohibited. The water District's General Manager may permit the use of metered fire hydrant water to clear or clean sanitary or storm sewers. 3. The use of water by golf courses for landscape irrigation is prohibited except: areas designated as tees and greens, between 7pm and 7am on designated days. 4. Industrial customers are required to implement an individual water conservation plans. The plans are subject to approval by the Water District's General manager and/or his designee. 5. If the customer already has a water connection, a new water service connection is prohibited. 6. Restaurants will be prohibited from serving water to customers except when requested by customers. 7. The use of water for the expansion of commercial nursery facilities is prohibited. 8. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, or other water service facilities shall be allowed, approved, or installed except as directed by the water District's General Manager. 9. Maximum amounts of monthly water usage and surcharges may be implemented during the emergency as directed by the LMWD's General Manager with approval of the water district's Board of Directors. 10. The water Districts General Manager is authorized to take any actions deemed necessary to meet conditions resulting from the emergency. 11. Violation of this policy is subject to any or all of the following: \$200 fine, disconnection of service. 12. Imposing of surcharges fee would be initiated.	
City of Laredo 4/1/2014	Water demand/WTP capacity, reservoir level	TRIGGERS:	a) WTP flow is less than 85% capacity for 5 consecutive days, b) Amistad reservoir level reaches 51% capacity	a) WTP flow is at 85% capacity for 3 consecutive days, b) Amistad reservoir level reaches 25% capacity	a) WTP flow is at 90% capacity for 1 day, b) Amistad reservoir level reaches 20% capacity	a) WTP flow is at 95% capacity for 1 day, b) Amistad reservoir level is less than 20% capacity	

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
City of Laredo 4/1/2014		ACTIONS: Customer are asked to voluntarily reduce their water usage and the following are prohibited: allowing irrigation water to run off into a gutter, ditch, drain, street and failure to repair a controllable leak	All requirements for stage 1 remain in effect and the following are only allowed during certain scheduled times: irrigation with sprinkler systems, washing of vehicles, adding water to pools, irrigating parks/plazas/squares. The following are prohibited: operating any ornamental fountain or similar structure without a recycling system and washing paved areas, except to alleviate immediate fire hazards.	All requirements for stage 2 remain in effect, except the schedules to use water for certain activities are even stricter and irrigating athletic fields is also held to a certain schedule. No bulk water sales will be made by the City when the water will be transported outside of the City except for domestic/residential/livestock use. Fire hydrant water sales shall cease.	All requirements for stage 3 remain in effect and no applications for new or expanded water service connections will be approved with permission from the Utilities Director, water delivered to non-essential industrial and commercial customers will be reduced, and a maximum monthly water use allocation may be established for residential customers. The following are prohibited: irrigation, washing vehicles, adding water to pools.	
City of Lyford		TRIGGERS: Falcon and Amistad conservation level between 51% and 26% or flow capacity at 90% for 5 consecutive days. Cumulative reduction goal is 5%. ACTIONS: Customers are requested to voluntarily limit the amount of water used to that amount absolutely necessary for health, business, and irrigation. The following uses are prohibited: Allowing irrigation water to run off into a gutter, ditch, or drain; and failure to repair a controllable leak.	Falcon and Amistad conservation level between 25% and 20% or flow capacity at 95% for 5 consecutive days. Cumulative reduction goal is 10%. All elements of Stage 1 remain in effect except that: 1. Irrigation utilizing hose-end sprinkler systems for lawns, gardens, landscaped areas, trees, shrubs, and other plants is prohibited except during designated hours which shall be between the hours of 6am to 8am and 8pm to 11pm. Customers with an address east of Whey 77 are only allowed to water between designated hours on M, W, F. Customers with an address west of Whey 77 are only allowed to water between designated hours on T, The, Sat. Irrigation of lawns, gardens, landscaped areas, trees, shrubs, or other plants is permitted at any time if: A continuously hand-held is used, or a drip irrigation system is used. Exception: commercial nurseries, sod farmers, and similar establishments are exempt but requested to curtail all nonessential water use. 2. The washing of mobile vehicles and equipment is prohibited except on designated hours between 6am and 8 am and 8pm to 11pm on same days designated above. Exception: washing can be done on premises of a commercial carwash or service station and for cleaning of garbage trucks and vehicles to transport food and perishables. 3. The refilling or adding to residential swimming and/or wading pools is prohibited except on designated hours between 8pm to 8am on designated days above. 4. The operation of any ornamental fountain or other structure making similar use of water is prohibited except for those with a recycling system. 5. The use of water for irrigation of parks, plazas, and squares is prohibited except between 8pm to 8am. the irrigation of golf course fairway areas is absolutely prohibited. 6. Essential and utility Use: Fire fighting-no restrictions; medical use by care facilities -no restrictions; Utility-reduction of average system pressure to 60 psi recommended, leak detection and system repairs recommended, stabilizing and equalizing system pressure recommended, sewer line	Falcon and Amistad conservation level between 20% and 15% or flow capacity at 95% for 5 consecutive days. Cumulative reduction goal is 15%. All elements of Stage 2 shall remain in effect except that: 1. irrigation utilizing hose-end sprinklers or automatic sprinkler systems for lawns, gardens, landscaped areas, trees, shrubs, and other plants is prohibited except during designated hours of 6am to 8am and 8pm to 11pm. Customers east of Whey 77 on M and F, and west of HWY 77 T and Sat. Irrigation by hand-held hoses or drip irrigation systems are exempt. 2. Irrigation using hose-end sprinklers or automatic sprinkler systems for athletic fields is prohibited except during designated house between 8pm to 8am. 3. The watering of golf fairway areas is prohibited unless done with treated wastewater, reused water, or well water. 4. A water use surcharge of \$10 shall be levied against all customers that use over 8,000 gallons per month.	Falcon and Amistad conservation level between 15% and 10% or flow capacity at 100% for 3 consecutive days. Cumulative reduction goal is 25%. All elements of Stage 3 remain in effect except that: 1. irrigation utilizing hose-end sprinklers or automatic sprinkler systems for lawns, gardens, landscaped areas, trees, shrubs, and other plants is prohibited except during designated hours of 6am to 8am and 8pm to 11pm. Customers east of Whey 77 on Wednesdays, and west of HWY 77 only on Saturdays. Irrigation by hand-held hoses or drip irrigation systems are exempt. 2. Washing of mobile vehicles not occurring on the premises of commercial carwashes and service stations, and not in the immediate interest of public health shall be prohibited except between the hours of 6am-8am and 8pm to 11pm and only on the owner's premises. Customers East of HWY 77 are allowed to on Wednesdays, customers west of HWY 77 are allowed to on Saturdays. 3. Commercial car washes and service stations in the immediate interest of public health, safety and welfare shall be limited to five (5%) percent of their monthly average usage based on the last twelve billing periods for each of such customer. After such usage, the Mayor or his designee shall enforce this subsection by terminating water service. 4. Commercial nurseries, sod farmers, and similar establishments shall water only on designated days between 10pm and 5am and shall use only hand-held hoses, drip irrigation systems or hand-held buckets. 5. The filling, refilling or adding of water, except to maintain the structural integrity of a pool, to swimming and/or wading pools is prohibited. 6. The operation of any ornamental fountain with or without recirculating features is prohibited. 7. Irrigation for athletic fields is prohibited except between the hour of 8pm to 8am with same designated days as other customers. 8. A water surcharge of \$15 shall be levied against all customers that use over 8,000 gallons per month.	Falcon and Amistad conservation level at 10% or less or flow capacity at 100% for 3 consecutive days. Cumulative reduction goal is 35%. All elements of Stage 4 shall remain in effect in Stage 5 except that: 1. No applications for new, additional, further expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or other water service facilities of any kind shall be allowed, approved or installed except as approved by the City Council. 2. All allocations of water use to non-essential Industrial and Commercial customers shall be reduced to amounts as established by the Mayor, his designee or the Water Advisory Council. 3. The maximum monthly water use allocation for residential customers my be established with revised rate schedules and penalties by the City Council upon recommendation by the Mayor, his designee or the Water Advisory Council. 4. Irrigation by hose-end sprinklers or automatic sprinkler systems is prohibited.. Irrigation by hand-held hoses or drip irrigation systems is allowed between 6am to 8am and 8pm to 11pm for customers east of HWY 77 on Wednesdays and customers west of HWY 77 on Saturdays. 5. The washing of mobile vehicles not occurring on the premises of commercial car washes and service stations and not in the immediate interest of the public health, safety, and welfare is prohibited. 6. Irrigation for athletic fields is prohibited. 6. A water use surcharge of \$20 shall be levied against all customers that use over 8,000 gallons per month.
City of McAllen McAllen Public Utility 2/25/2013		TRIGGERS: In effect at all times ACTIONS: Customers asked to voluntarily limit water use to an amount absolutely necessary for health, business, and irrigation.	1. Demand reaches or exceeds 85% of capacity for 3 consecutive days 2. Amistad-Falcon reservoirs reach 40% capacity 3. Including but not limited to: system outage, equipment failure, or supply contamination The means and/or schedule of the following is restricted: Irrigation, but drip method or hand-held buckets permitted at any time; washing motor vehicles, except commercial carwashes or service stations; washing or sprinkling foundations; adding water to swimming pools; operation of fountains or ponds, except with a recycling system; irrigation for golf courses, except those using wastewater effluent; hydrants restricted to fire fighting and necessary activities. The following are absolutely prohibited: allowing irrigation water to run off into gutter, ditch, or rain; failure to repair controllable leaks; washing paved surfaces.	1. Demand reaches or exceeds 90% of capacity for 3 consecutive days 2. Amistad-Falcon reservoirs reach 25% capacity 3. Including but not limited to: system outage, equipment failure, or supply contamination All stage 2 restrictions except: further restrictions on means and schedule for irrigation, except by drip or hand-held buckets; watering of golf fairways is prohibited unless with wastewater effluent, reused water, or well water; customers to pay a water surcharge.	1. Demand reaches or exceeds 95% of capacity for 3 consecutive days 2. Amistad-Falcon reservoirs reach 20% capacity 3. Including but not limited to: system outage, equipment failure, or supply contamination All stage 2 and 3 restrictions except: further restrictions on means and schedule for irrigation; washing of motor vehicles not occurring on commercial carwashes and not in the immediate interest of public health and safety is prohibited; carwashes in the interest of public health and safety limited to 50% of monthly average; commercial nurseries, sod farmers, etc. limited to means and schedule restrictions; adding water to pools, except to maintain structural integrity, is prohibited; operation of fountains prohibited; customers to pay a water surcharge.	1. Demand reaches or exceeds 100% of capacity 2. Amistad-Falcon reservoirs reach 15% capacity 3. Including but not limited to: system outage, equipment failure, or supply contamination All stage 2, 3, and 4 restrictions except: no applications for new, additional, or expanded water connections, lines, etc. are allowed except as approved by PUB; water allocations to non-essential customers reduced as established by the PUB; max monthly water allocation for residential customers established with revised rate schedules and penalties by the PUB; irrigation permitted only by handheld hoses, handheld faucet filled buckets; drip irrigation on set schedule; customers to pay a water surcharge.
Military Highway Water Supply Corporation 5/5/2014		TRIGGERS: Automatically initiated annually from May 1 through October 31 of each year. ACTIONS: Military Highway WSC will reduce or discontinue flushing of water mains and activate use of alternative supply source(s). Customers are asked to voluntarily limit irrigation of landscaped areas to certain days and times. All operations of Military Highway WSC shall voluntarily adhere to Stage 2 water restrictions. Customers are asked to voluntarily practice water conservation and to minimize or discontinue water use for non-essential purposes.	a) Consumption of 80% of daily max supply for 3 consecutive days. b) Supply is reduced to only 20% greater than the average consumption for the previous month. c) Extended period (at least 8 weeks) of low rainfall and daily use is 20% above the use for the same period during the previous year. Military Highway WSC will discontinue flushing of water mains and irrigation of landscaped areas. The means and/or schedule for the following is restricted: irrigation of landscaped areas; washing of motor vehicles, boats, cars, etc.; use of water to fill swimming pool; irrigation of golf courses; operation of fountains or ponds except when necessary to support aquatic life; use of water for hydrants limited to fire fighting or activities to maintain public health, safety and welfare, and construction with special permit; and restaurants are prohibited from serving water except when requested. The following are non-essential and prohibited: wash down sidewalks, driveways, parking lots; use of water to wash down buildings or structures; use of water for dust control; flushing gutters; and failure to repair a controllable leak(s).	a) Consumption of 90% of supply for 3 consecutive days. b) Water level in any water storage tanks cannot be replenished for 3 consecutive days. Military Highway WSC will discontinue flushing of water mains and irrigation of landscaped areas. All requirements for Stage 2 restrictions remain in effect except: the means and schedule for irrigation of landscaped areas is further restricted, watering of golf courses is prohibited, and the use of water for construction purposes from fire hydrants under special permit is to be discontinued.	a) Failure of major system component or an event which reduces the minimum residual pressure in the system below 20 psi for 24 hours or longer. b) Consumption of 95% or more of max supply for 3 consecutive days. c) Consumption of 100% of max supply at water storage levels in system drop during one 24-hour period. d) Natural or man-made contamination of water supply source(s) e) Declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. f) Reduction of wholesale water supply due to drought conditions. g) Other unforeseen events which could cause imminent health or safety risks to public. Military Highway WSC will discontinue flushing of water mains and irrigation of landscaped areas. All requirements for Stage 2 and 3 remain in effect except: the means and schedule for irrigation of landscaped areas is further restricted; use of water to wash motor vehicles, boats, airplanes, etc. is prohibited and schedules for commercial car washes are restricted; adding water to swimming pools is prohibited; operation of fountains or ponds is prohibited except where necessary to support aquatic life; and no applications for new, additional, or expanded water service connections, meters, mains, etc. of any kind shall be allowed or approved.	a)Major water line breaks, or pump or system failures occur, which case unprecedented loss of capability to provide water service. b) Natural or man-made contamination of the water supply source(s). Military Highway WSC will use an alternative supply source(s). All requirements of State 2, 3, and 4 restrictions remain in effect except: irrigation of landscaped areas is prohibited, of water to wash any motor vehicle, boat, plane, etc. is prohibited. In the event water shortage conditions threaten public health, safety , and welfare, the GM is authorized to ration water according to a set water allocation plan.
North Alamo Water Supply Corporation 1/15/2010	Reservoir level	TRIGGERS: Level in Amistad and Falcon Reservoirs reaches 49% of capacity	Level in Amistad and Falcon Reservoirs reaches 40% of capacity	Level in Amistad and Falcon Reservoirs reaches 23% of capacity	Level in Amistad and Falcon Reservoirs reaches 13% of capacity or in response to 1. supply source contamination, 2. water production or distribution system limitation, 3. system outage due to failure or damage of major water system components	

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
North Alamo Water Supply Corporation 1/15/2010		ACTIONS: All customers are asked to check their plumbing fixtures and facilities to ensure that they are working properly and no water is being wasted. Industrial, wholesale, and certain other customers are asked required to develop and submit a Water Rationing Plan within 60 days.	All WSC owned facilities will be placed on mandatory conservation practices. All customers will be asked to comply with a voluntary watering schedule based on their location.	The voluntary lawn watering provisions from Stage 2 will become mandatory. Allowing water to run off yards, plants, or vegetation into gutters or streets will be prohibited. Non commercial washing of vehicles must be done with a hand-held hose or bucket between 6am and 9am or 7pm and 9pm. Commercial washing of any vehicle will only be allowed on commercial washing facilities. Industrial and wholesale customers are required to implement their Water Rationing Plans. The following are prohibited: exterior washing of structures; use of water to wash down sidewalks, driveways, or hard surfaces; continued use of defective plumbing; use of fire hydrants for purposes other than fire fighting; use of water for dust control.	All nonessential water use not necessary to maintain public health, safety and welfare is prohibited. A pro rata curtailment of deliveries of wholesale water will occur. No application for new or expanded water connections, pipeline extensions, etc. will be allowed except as approved by the Review Committee. The maximum amount of water usage for customers and surcharges may be revised.	
North Cameron Regional Water Supply Corporation 9/11/2014		TRIGGERS: North Cameron Regional Water Plant (NCRWP) ground storage tank falls below 50% capacity.	NCRWP ground storage tank capacity falls to 25% capacity.	NCRWP ground storage tank capacity fall to 10% capacity.	NCRWP has no production capacity.	
		ACTIONS: Request wholesale water customers initiate voluntary measure to reduce water use.	a) Discuss water supply/demand conditions with customers and request they initiate measures to reduce water use b) Implement pro rata curtailment of water diversions and/or deliveries to add 50,000 gallons per day to storage tank	a) Increase water blend ratios if possible, not exceeding 1000 ppm TDS b) Discuss water supply/demand conditions with customers and request they initiate measures to reduce water use and utilize alternative water supplies c) Implement pro rata curtailment of water diversions and/or deliveries to add 75,000 gallons per day to storage tank	a) Notify customers of the need to switch to alternate water supplies b) If appropriate, notify member, county, and/or state emergency response officials c) Undertake necessary actions, including repairs and/or clean-up as needed. d) Prepare post-event assessment report on incident and critique of emergency response procedures	
Pharr 5/1/2014		TRIGGERS: WTP capacity flow is between 17.5 MGD and 18.0 MGD	WTP capacity flow is between 18.0 MGD and 18.45 MGD	WTP capacity flow is between 18.45 MGD and 20.0 MGD		
		ACTIONS: The public is asked to voluntarily follow certain schedules for landscape irrigation and vehicle washing and to stop using ornamental water features.	The public is required to follow a certain schedule for landscape irrigation and vehicle washing. The following is prohibited: use of ornamental water features without recirculation, washing down paved areas, failure to repair a leak in a timely manner	The requirements for stage 2 are still in effect, except that the schedule to irrigate landscape and wash vehicles is stricter.		
Raymondville		TRIGGERS: 1. Water demand reaches 90% of firm production capacity; or 2. A disruption due to equipment or distribution system failure that would limit the capacity of the water system below 85% of capacity during high demand periods.	1. Water demand reaches 95% of firm production capacity; or 2. A disruption due to equipment or distribution system failure that would limit the capacity of the water system below 75% of capacity during high demand periods.	1. Water demand reaches 100% of firm production capacity; or 2. A disruption due to equipment or distribution system failure that would limit the capacity of the water system below 70% of capacity during high demand periods.	In the event of an extended period of the severe condition or any natural catastrophic situations that interrupt or have the potential to interrupt the City's potable water supply, the City is authorized to take all reasonable measures as deemed necessary to provide for the public's safety.	Customers shall be required to comply with the requirements and restrictions for Stage 5 of this Plan when Board President, or his/her designee, determines that a water supply emergency exists based on: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or, 2. Natural or man-made contamination of the water supply source(s).
		ACTIONS: Goal: Achieve a voluntary 35% reduction in daily water use per capita. Voluntary water use restrictions include: a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of midnight and 10:00 a.m. and 8:00 pm to midnight on designated watering days. (b) All operations of the City shall adhere to water use restrictions prescribed for Stage 2 of the Plan. (c) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	Goal: achieve 40% reduction in daily water use per capita. Restrictions include: (a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number, and Saturdays and Wednesdays for water customers with a street address ending in an odd number, and irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system. (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables. (c) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight.	Goal: achieve 50% reduction in daily water use per capita. Restrictions include all requirements from Stage 2 except: (a) Irrigation of landscaped areas shall be limited to designate watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight and shall be 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. (b) The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City. (c) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal: achieve a 60% reduction in daily water use per capita. Restrictions include all requirements of Stage 2 and 3 except: (a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 6:00 a.m. and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, or drip irrigation only. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times. (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m. (c) The filling, refilling, or adding of water to swimming pools, wading pools, and Jacuzzi-type pools is prohibited. (d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system. (e) No application 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 approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage shall be in effect.	Goal: achieve a 60% reduction in daily use per capita. Restrictions include all requirements from Stages 2, 3, and 4 except: (a) Irrigation of landscaped areas is absolutely prohibited. (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.
Rio Grande City 5/1/2014		TRIGGERS: Amistad-Falcon Reservoirs reach 50% conservation levels or City's system demand is at 7.48 MGD.	Amistad-Falcon Reservoirs reach 40% conservation levels or City's system demand is at 7.7 MGD.	Amistad-Falcon Reservoirs reach 25% conservation levels or City's system demand is at 7.92 MGD.	Amistad-Falcon Reservoirs reach 20% conservation levels or City's system demand is at 8.14 MGD.	Amistad-Falcon Reservoirs reach 15% conservation levels, City's system demand is at 8.36 MGD, or in response to emergency conditions.
		ACTIONS: Customers requested to voluntarily limited water use to the amount absolutely necessary for health, business, and irrigation.	schedule restrictions apply to the following: irrigation of outdoors vegetation; washing motor vehicles; washing or sprinkling foundations; water for swimming pools; water for fountains or structures prohibited except with recycling system; water for hydrants limited to firefighting and necessary activities. The following are prohibited: allowing irrigation water to run off; failure to repair controllable leaks; washing paved surfaces. No bulk water sales if transported by truck.	Restrictions from Stage 2 except: it shall be unlawful to irrigate outdoor vegetation other than on schedule, except drip or hand-held bucket permitted; water surcharge for residential, irrigation-metered, and commercial and industrial metered customers.	Restrictions from Stage 3 except: commercial carwashes and service station limited to 50% of monthly average; schedule restrictions for irrigation, nurseries, washing of vehicles, sod farms and only with hand-held hoses, buckets, or drip irrigation; filling pools prohibited except to maintain structural integrity; operation of fountains prohibited; increased surcharge for customers.	Restrictions from Stage 4 except: no applications for new, additional, or expanded water connections, meters, lines, etc. are allowed except as approved by the PUB; All non-essential customer amounts reduced as established by the PUB; Max monthly allocation for residential customers established with revised rate schedules and penalties on recommendation by the PUB; Washing of vehicles not necessary for public safety and health prohibited; increased surcharge for customers.
City of Roma 6/1/2014	Water demand/WTP capacity, reservoir level, system break/failure	TRIGGERS: a) Average daily water use reaches 90% of WTP capacity for 5 consecutive days, b) Falcon and Amistad conservation level is between 26% and 51%	a) Average daily water use reaches 95% WTP capacity for 5 consecutive days, b) Falcon and Amistad conservation level is between 20% and 25%	a) Average daily water use reaches 100% WTP capacity for 5 consecutive days, b) Falcon and Amistad conservation level is between 15% and 20%	a) Average daily water use reaches 100% WTP capacity for 5 consecutive days, b) Falcon and Amistad conservation level is between 10% and 15%	a) Average daily water use reaches 100% WTP capacity for 5 consecutive days, b) Falcon and Amistad conservation level is less than 10%, c) the imminent or immediate failure of a major component of the system causes an immediate health or safety hazard, water levels in the distribution system storage tanks drop to levels such that service pumps cannot pump daily water demand

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
City of Roma 6/1/2014		ACTIONS:	Users are requested to voluntarily limit water usage and the following are prohibited: allowing irrigation water to run off into a gutter/ditch/drain and failure to repair a controllable leak	All requirements for stage 1 remain in effect and users are required to follow a certain schedule irrigation of landscapes/parks/plazas/squares/athletic fields, and vehicle washing. The following is prohibited: use of ornamental water features without recirculation, washing down paved areas unless it's a fire hazard, irrigating golf course fairway. No bulk water sales will be allowed when water will be transported by a truck or vehicle outside of City limits.	All requirements of stage 2 remain in effect except the schedule for irrigation is stricter.	All requirements of stage 3 remain in effect except the schedules for irrigation and vehicle washing are even stricter. The following are prohibited: adding water to a pool unless required to maintain structural integrity and operation of any ornamental fountain or similar structure.	All requirements of stage 4 remain in effect and any application for new or expanded water service connection will not be allowed unless approved by City Council, allocations of water to non-essential industrial and commercial customers will be reduced, and maximum monthly water use allocations for residential customers may be established. The following are prohibited: irrigation by sprinkler systems, irrigation of athletic fields, and vehicle washing not at commercial locations except as required for public health, safety, or welfare.
City of San Benito 12/31/2013	Reservoir level and water treatment capacity.	TRIGGERS:	Falcon and Amistad US storage level is 51% of capacity, or upon request from Cameron County Irrigation District #2 as applied to customers within the city with lawn watering contracts.	Falcon and Amistad US storage level is 25% of capacity, or upon request from Cameron County Irrigation District #2 as applied to customers within the city with lawn watering contracts. Or the City Manager may implement Stage 2 at his discretion if the water treatment plant reaches 95% of capacity.	Falcon and Amistad US storage level is 10% of capacity, or upon request from Cameron County Irrigation District #2 as applied to customers within the city with lawn watering contracts. Or the City Manager may implement Stage 2 at his discretion if the water treatment plant reaches 95% of capacity.	Falcon and Amistad US storage level is 15% of capacity, or upon request from Cameron County Irrigation District #2 as applied to customers within the city with lawn watering contracts. Or the City Manager may implement Stage 2 at his discretion if the water treatment plant reaches 95% of capacity.	
		ACTIONS:	Users are requested to voluntarily limit water usage and the following are prohibited: allowing irrigation water to run off into a gutter/ditch/drain and failure to repair a controllable leak	City Manager notifies, by public announcement and publication, customers of the water system of mandatory conservation and limitation of use. All municipal operations are placed on mandatory conservation. Lawn watering is not allowed between 10:00 am and 6:00 pm. Grass, trees, shrubbery, annual, biennial or perennial vines, gardens, and other similar vegetation may be watered with a hand-held hose equipped with a positive shut-off nozzle or a hand-held bucket or water can no larger than 5 gallons in capacity. Drip irrigation and sprinkler systems are allowed. Car, trailer, and boat washing are limited to 5-gallon buckets or hand-held hose between 6:00 pm and 9:00 pm. Wasting of water as a result of defective plumbing is prohibited. Hydrants may only be used for fire-fighting. Ornamental fountains or artificial waterfalls where water is not reused or recirculated are prohibited. Washing sidewalks, driveways, parking lots, tennis courts, and buildings is prohibited. Water may only be used for dust control for health hazards. Swimming pools and jacuzzis are not permitted to use water except where required to maintain structural integrity. The city may not use water to place new agricultural land into service. Rate surcharges are put into place.	All requirements of stage 2 remain in effect, plus water allowed to run off of yards, plants or vegetation into gutters is prohibited. Rates are increased for high-volume users.	All nonessential water use not necessary to maintain public health, safety and welfare is prohibited. Plant watering, car washing, and fountains as described above are prohibited. No new or expanded water service connections, services or facilities may be approved. Residential use may be capped and surcharges associated by the City Commission. The City Manager may take any other actions necessary.	
San Juan 8/19/2011		TRIGGERS:	Always in effect unless a more stringent plan is required	Agricultural use of irrigation water is discontinued and/or when the demand on the City's system is at 3.7 MGD for a three consecutive day period	Service or deliver water storage in Falcon and Amistad Reservoirs is reduced by 50% by the Watermaster and/or demand on the City's system is at 4.1 MGD for a three consecutive day period	Municipal allocations are reduced to 75% of full amounts by the Watermaster and/or demand on the City's system is at 4.5 MGD for three consecutive days	Municipal allocations are reduced to 80% of full amounts by the Watermaster and/or demand on the City's system is at 4.8 MGD for three consecutive days
		ACTIONS:	Users are requested to voluntarily limit the amount of water used to that amount absolutely necessary for health, business, and irrigation.	Public is required to limit landscape irrigation with hose-end sprinklers automatic irrigation systems to certain days based on location and only between 8am and 8pm (excludes hand-held hose or drip irrigation). Car washing is limited to the same days as irrigation. Public must discontinue use of ornamental water features unless provisions are made for recirculation of water.	Public is required to limit landscape irrigation with hand-held hose or drip irrigation systems to certain days of the week based on location and only between 8am and 8pm. Car washing is only allowed at residences on irrigations days and with hoses with flow control devices. Public must discontinue use of ornamental water features unless provisions are made for recirculation of water.	All elements of Stage 3 remain in effect except that: 1. irrigation of vegetation is only allowed between 12am to 10 am and 8pm to 12 am, 2. automobiles may only be washed at non-commercial facilities on irrigation days and on the owner of the vehicle's property, 3. commercial nurseries, sod farmers, and similar shall only water between 10pm and 5am and shall use only hand-held hoses, drip irrigation, or buckets, 4. residential/domestic meter customers shall pay an additional 75% surcharge for any water used over 10,000 gallons per month	All elements of Stage 4 remain in effect except that: 1. no applications for new or increased water connections, pipeline extensions, etc. shall be allowed, except as approved by the City Commission on recommendation by the Public Utilities Director, 2. maximum monthly water use allocation for residential customers may be established with revised rate schedules and penalties, 3. irrigation is only permitted by hand-held hose, bucket, or drip irrigation between 6am to 8am once every 10 days
San Ygnacio Municipal Utility District 4/1/2014	Reservoir level, water demand, system break/failure	TRIGGERS:	a) Falcon lake level drops below 270 ft., b) daily demand exceeds 60% of supply capacity for 3 consecutive days	a) Falcon lake level drops below 265 ft., b) daily demand exceeds 65% of supply capacity for 3 consecutive days	a) Falcon lake level drops below 360 ft., b) daily demand exceeds 70% of supply capacity for 3 consecutive days	Major water line breaks or pump system failure occurs, which cause unprecedented loss of capability to provide water service	
		ACTIONS:	Wholesale water users will be requested to voluntarily reduce water use	Wholesale water customers will be requested to initiate mandatory measures to reduce non-essential water use and preparations for implementing pro rata curtailment of water deliveries will be made.	Wholesale water customers will be requested to initiate additional mandatory measures to reduce non-essential water use and pro rata curtailment of water deliveries will be implemented.	Inform wholesale water customers of the problem and take necessary actions to resolve it.	
Union Water Supply Corporation 7/26/2011	Falcon reservoir level and/or demand	TRIGGERS:	Always in effect between April 1st and September 30th of every year.	Implemented when: 1. drought conditions are officially declared for the County, 2. water levels in Falcon Reservoir drop below 80% of conservation levels, 3. daily water consumption exceeds 90% of daily supply capacity for ten consecutive days	Implemented when: 1. extreme drought conditions are officially declared for the County, 2. water levels in Falcon Reservoir drop below 70% of conservation levels, 3. raw water supply drop to 10% below projected needs, 4. daily water consumption exceeds 100% of daily supply capacity for ten consecutive days	Implemented when: 1. emergency drought conditions are officially declared for the County, 2. water levels in Falcon Reservoir drop below 60% of conservation levels, 3. raw water supply drop to 30% below projected needs, 4. daily water consumption exceeds 105% of daily supply capacity for ten consecutive days	
		ACTIONS:	Customers are asked to voluntarily limit water use by the following measures: 1. only irrigate between 6pm and 10am, 2. irrigate on certain days, based on address, 3. prevent significant run off from lawn irrigation, 4. wash vehicles only on same days as lawn watering, 5. minimize use of potable water for washing sidewalks, drives, and dust control.	Customers will be required to implement the following measures: 1. only irrigate between 6pm and 10am, 2. irrigate on certain days, based on address, 3. prevent significant run off from lawn irrigation, 4. wash vehicles only on same days as lawn watering, 5. do not use of potable water for washing sidewalks, drives, and dust control.	Customers will be required to implement the following measures: 1. irrigation of landscaped areas only allowed on certain days based on location and between 8pm and 10am, except for irrigation with a hand-held hose, bucket, or drip system, 2. vehicle washing not at a commercial facility is only allowed on watering days between 8pm and 10am and with a bucket or hand-held hose with shut off nozzle, 3. filling pools is only allowed on water days between 8pm and 10am, 4. operation of ornamental fountains is prohibited unless they are required to support aquatic life or are equipped with recirculation system, 5. use of water from hydrants or flush valves are only permitted to maintain public health, safety, or welfare, 6. water golf course and parks is only allowed on water days between 8pm and 10am and with a hand-held hose, 7. the following are prohibited: wash down of sidewalks, walkways, driveways, etc.; wash down of building and structures; use of water for dust control; flushing gutters or permitting water to accumulate in gutters or streets; failure to repair a controllable leak within a reasonable amount of time; any waste of water.	Customers will be required to implement the following measures: 1. irrigation of lawns and landscaped areas is prohibited, 2. vehicle washing is only permitted at a commercial facility, 3. filling pools is prohibited, 4. operation of ornamental fountains is prohibited unless required to sustain aquatic life or if it is equipped with a recirculation system, 4. use of water from hydrants or flush valves is only permitted to maintain public health, safety, and welfare, 5. use of water to irrigate golf course and parks is prohibited, 6. the following are prohibited: wash down of sidewalks, walkways, driveways, etc.; wash down of building and structures; use of water for dust control; flushing gutters or permitting water to accumulate in gutters or streets; failure to repair a controllable leak within a reasonable amount of time; any waste of water.	

Public Water Supply Drought Contingency Plans, Region M

ENTITY DATE	BASIS OF DROUGHT		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Valley MUD No. 2		TRIGGERS:	1) When the level of United States water stored in Rio-Grande River Basin Reservoirs reaches 60 % of capacity, or Valley MUD #2 allocation of irrigation water has reached 5400 acre-ft. 2) When equipment failure or treatment problems causes the capacity of Valley MUD #2's treatment and pumping facilities to fall to within 90% of the daily consumption of potable water.	1) When the level of United States water stored in Rio-Grande River Basin Reservoirs reaches 50 % of capacity, or Valley MUD #2 allocation of water has reached 3350 acre-ft. 2) When equipment failure or treatment problems causes the capacity of Valley MUD #2's treatment and pumping facilities to fall to within 70% of the daily consumption of potable water.	1) When the level of United States water stored in Rio-Grande River Basin Reservoirs reaches 30%, or Valley MUD #2 allocation of water has reached 1900 acre-ft. 2) When equipment failure or treatment problems causes the capacity of Valley MUD #2's treatment and pumping facilities to fall to within 50% of the daily consumption of potable water.	1) when the level of United States water stored in Rio-Grande River Basin Reservoirs reaches 20%, or Valley MUD #2 allocation of water has reached 800 acre-ft. 2) When equipment failure or treatment problems causes the capacity of Valley MUD #2's treatment and pumping facilities to fall to within 25% of the daily consumption of potable water. 3) When water levels in the Rio Grande are low enough to restrict pumping.	
Valley MUD No. 2		ACTIONS:	1) Water customers are requested to voluntarily limit the irrigation of landscaped areas to no more than 3 days a week. Do not water between the hours of 10:00 a.m. and 7:00 p.m. 2) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	1) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number, and Saturdays and Wednesdays for water customers with a street address ending in an odd number. Irrigation of landscaped areas is further restricted and prohibited between the hours of 10:00 a.m. and 7:00 p.m. on designated watering days. However, irrigation of landscaped areas is permitted at any time if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system. 2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days. Such washing shall be done with a bucket and a hand-held hose equipped with a positive shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables. 3) Operation of any ponds or ornamental fountain for aesthetic or scenic purposes is prohibited. 4) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. Use of water from designated fire hydrants for construction purposes may be allowed under special permit from the Valley MUD #2. 5) Irrigation of golf course greens, tees, and fairways is permitted between the hours 7:00 p.m. and 10:00 a.m. 6) The following uses of water are defined as non-essential and are prohibited:	1) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Thursdays for customers with a street address ending in an even number, and Wednesdays for water customers with a street address ending in an odd number. Irrigation of landscaped areas is further restricted and prohibited between the hours of 10:00 a.m. and 7:00 p.m. on designated watering days. Irrigation of landscaped areas is permitted at any time if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system. 2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days. Such washing shall be done with a bucket and a hand-held hose equipped with a positive shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables. 3) Operation of any ponds or ornamental fountain for aesthetic or scenic purposes is prohibited. Fountains that are equipped with a recirculation system are not exempt at this stage. 4) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued. 5) Irrigation of golf course greens, tees, is permitted between the hours 7:00 p.m. and 10:00 a.m. The watering of golf course fairways is limited	1) All irrigation of landscapes is prohibited except for minimal hand watering of drought stressed trees and shrubs. 2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited. Washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables. 3) Operation of any ponds or ornamental fountain for aesthetic or scenic purposes is prohibited. Fountains that are equipped with a recirculation system are not exempt at this stage. 4) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued. 5) Hand watering of golf course greens and tees is permitted between the hours 7:00 p.m. and 10:00 a.m. Treated effluent must be used for this hand watering. The watering of golf course fairways is prohibited. 6) The following uses of water are defined as non-essential and are prohibited: a) Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas; b) use of water to wash down buildings or structures for purposes other than immediate fire protection; c) use of water for dust control; d) flushing gutters or permitting water to run or accumulate in any gutter or street; and e) failure to repair a controllable leak(s) within 3 working days after having been given notice directing the repair of such leak(s).	
City of Weslaco 5/1/2009	Reservoir level, projected water demand, system break/failure	TRIGGERS:	a) Level of US waters in Amistad and Falcon reservoirs reaches 51%, b) water demand projections for the year suggest available water rights may be used at 95%	a) Level of US water in Amistad and Falcon reservoirs reaches 25%, b) a condition causes system-wide problems so the normal level of water service may be diminished for a period of time, c) water demand projections for the year suggest available water rights may be used at 98%	a) Level of US water in Amistad and Falcon reservoirs reaches 15%, b) a condition related to extraordinary circumstances severely and immediately diminish the ability to deliver a normal level of water, c) water demand projections for the year suggest available water rights may be used at 100%		
		ACTIONS:	Request customers to voluntarily reduce water usage	The means and/or schedule for the following will be restricted: watering of grass and vegetation, washing of vehicles, adding water to pools, and irrigating golf courses. The following are prohibited: allowing water to run off into gutters or streets, washing of buildings, trailers, railroad cars, maintaining defective home plumbing, use of hydrants except for fire fighting, ornamental fountain without recirculation, use of water to wash down hard surfaced area, and use of water for dust control.	The following are prohibited: new service connections to the water system if another water source is already used, serving restaurant customers water when they do not ask for it, use of water for scenic and recreational ponds or lakes, use of water for pools, use of water to put new agricultural land into production, use of water for new planting or landscaping, and acceptance of applications for new or extended water service connections without approval by City. Industrial and commercial users must implement an individual curtailment plan and residential customers will receive a maximum monthly usage amount.		
Zapata County Waterworks 7/1/2014	Time of year, reservoir level, system break/failure or contamination, water demand/WTP capacity	TRIGGERS:	Automatically initiated on April 1 of each year	a) Level of Falcon reservoir drops below 270 feet, or b) recorded drinking water treatment as a percentage of total drinking water capacity exceeds 70%	a) Level of Falcon reservoir drops below 260 feet, or b) recorded drinking water treatment as percentage of total treatment capacity exceeds 80%	a) Level of Falcon reservoir drops below 250 feet, or b) recorded drinking water treatment as percentage of total treatment capacity exceeds 90%	System outage or supply contamination
		ACTIONS:	Customers are requested to voluntarily limit the use of water for nonessential purposes	Customers are requested to voluntarily reduce their water use and to follow an irrigation schedule and county and nonessential governmental water use will be reduced.	Customers will be limited to certain schedules and methods for irrigation, vehicle washing, and adding water to pools and the following are prohibited: operation of fountains or ponds without recirculation except when necessary to maintain aquatic life, using water from hydrants or flush valves except when maintaining public health, safety, and welfare, washing down hard-surfaced areas, use of water to wash down buildings or structures, use of water for dust control, flushing gutters, failure to repair controllable leaks within a reasonable period of time, any waste of water	In addition to Stage 3 restrictions, emergency interconnects or alternative supply arrangements shall be investigated, and implemented, if available.	The TCEQ Regional Office will be immediately notified