

Deutsch Domestic Water Company, Inc

PO Box 45, Crawford, Colorado 81415 | (907) 232-4409 | hobbsalaska@msn.com

February 1, 2022

Ben Wade
Water Supply Planning
Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, Colorado 80203

Re: Water Efficiency Grant – POGGI PDAA 2022-2322

Sub: **50% Progress Report**

Ben,

DDWC has completed Tasks 3 & 4 of the Drought Management Plan and hereby submits the 50% Progress Report indicating the “essential” elements that have been completed:

Task 3 –Drought Vulnerability Assessment

3.1 Water Supply Reliability and Drought Management Planning

3.1.1 DDWC has attached the summary of water supply reliability documents.

- 1978 Water Rights Decree Case No W3056
- 2010 Augmentation Plan Case No 2010CW19
- 2017 Updated Augmentation Plan Case No 2017CW3005

3.1.2 DDWC has defined key terms used to define water supply reliability.

- Absolute water right in the Saddle Mountain Seep
- Young Ditch dry-up for augmentation purposes
- Blue Mesa Reservoir for augmentation purposes

3.1.3 DDWC has described how water supply reliability and efficiency are closely related to drought planning.

- The efficient use of water supply resources can make a significant difference in water supply reliability during drought conditions.
- DDWC will be exploring how best to use off-peak spillage to fill storage to help meet on-peak demands.



DDWC-DMP 50% Progress Report

February 1, 2022

Deutsch Domestic Pipeline															
Water Balance at Full Build-out, Revised January 2017															
(values in gallons)															
Demand															
Homes	Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Percent
1 Homes	150	1,627,500	1,470,000	1,627,500	1,575,000	1,627,500	1,575,000	1,627,500	1,627,500	1,575,000	1,627,500	1,575,000	1,627,500	19,162,500	90.0%
2 Commercial	1	15,500	14,000	15,500	15,000	15,500	15,000	15,500	15,500	15,000	15,500	15,000	15,500	182,500	0.9%
Subtotals		1,643,000	1,484,000	1,643,000	1,590,000	1,643,000	1,590,000	1,643,000	1,643,000	1,590,000	1,643,000	1,590,000	1,643,000	19,345,000	90.9%
Average Demand	gpm	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	36.81	
	cfs	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	
3 Lawn (acres)	1.72	-	-	-	65,947	197,840	309,950	329,734	250,598	151,678	85,731	-	-	1,391,478	6.5%
4 Stock - Irrigation Season	50	-	-	-	-	8,250	16,500	17,050	17,050	16,500	8,525	-	-	83,925	0.4%
Stock - Nonirrigation Season	200	68,200	61,600	68,200	66,000	34,100	-	-	-	-	34,100	66,000	68,200	1,475,403	5.9%
Subtotals		68,200	61,600	68,200	131,947	240,190	326,450	346,784	267,648	168,178	128,356	66,000	68,200	1,941,753	9.1%
Average Demand	gpm	1.53	1.53	1.53	3.05	5.38	7.56	7.77	6.00	3.89	2.88	1.53	1.53	3.69	
	cfs	0.003	0.003	0.003	0.007	0.012	0.017	0.017	0.013	0.009	0.006	0.003	0.003	0.008	
Total Demand		1,711,200	1,545,600	1,711,200	1,721,947	1,883,190	1,916,450	1,989,784	1,910,648	1,758,178	1,771,356	1,656,000	1,711,200	21,286,753	100.0%
Average Demand	gpm	38.33	38.33	38.33	39.86	42.19	44.36	44.57	42.80	40.70	39.68	38.33	38.33	40.50	
	cfs	0.085	0.085	0.085	0.089	0.094	0.099	0.099	0.095	0.091	0.088	0.085	0.085	0.090	
Water Rights															
W-3056															
Homes & Commercial	gallons	1,803,223	1,628,718	1,803,223	1,745,055	1,803,223	1,745,055	1,803,223	1,803,223	1,745,055	1,803,223	1,745,055	1,803,223	21,231,502	93.5%
	gpm	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	40.39	
	cfs	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	
2017CW3005															
Lawn (acres)	1.15	-	-	-	44,092	132,277	207,234	220,462	167,551	101,412	57,320	-	-	930,349	
Stock - Irrigation Season	50	-	-	-	-	8,250	16,500	17,050	17,050	16,500	8,525	-	-	83,925	
Stock - Nonirrigation Season	200	68,200	61,600	68,200	66,000	34,100	-	-	-	-	34,100	66,000	68,200	466,600	
Subtotal	gallons	68,200	61,600	68,200	110,092	174,627	223,734	237,512	184,601	117,912	99,945	66,000	68,200	1,480,874	6.5%
	gpm	1.53	1.53	1.53	2.55	3.91	5.18	5.32	4.14	2.73	2.24	1.53	1.53	2.82	
	cfs	0.003	0.003	0.003	0.006	0.009	0.012	0.012	0.009	0.006	0.005	0.003	0.003	0.006	
Total Available	gallons	1,871,423	1,690,318	1,871,423	1,855,147	1,977,850	1,968,789	2,040,735	1,987,824	1,862,967	1,903,168	1,811,055	1,871,423	22,712,125	100.0%
	gpm	41.92	41.92	41.92	42.94	44.31	45.57	45.72	44.53	43.12	42.63	41.92	41.92	43.21	
	cfs	0.093	0.093	0.093	0.096	0.099	0.102	0.102	0.099	0.096	0.095	0.093	0.093	0.096	

3.2 Drought Impact Assessment

3.2.1 DDWC has identified potential impacts that could occur during future droughts.

- Not enough spring flow to meet non-essential outside uses
- Not enough spring flow to meet essential inside uses

3.2.2 DDWC has shown the relative priority of potential impacts.

- Highest priority for meeting essential inside uses

Task 4 – Drought Mitigation and Resources Strategies

4.1 Drought Mitigation Measures

4.1.1 DDWC has developed a list of drought mitigation measures.

- Developing more strategically placed storage
- Using off-peak spillage to help meet on-peak demand
- Limiting non-essential uses

4.1.2 DDWC has used Worksheets B & C in the Guidance Document to select and screen supply and demand-side response strategies. Worksheet A has been used to develop new mitigation action steps.

4.1.3 DDWC has described the criteria used to select the mitigation measures.

4.2 Supply-Side Response Strategies

4.2.1 DDWC has used Worksheet B to develop a list of supply-side response strategies and specific measures that will be employed.

4.2.2 DDWC has described the criteria used to select the mitigation measures.

4.3 Demand-Side Response Strategies

4.3.1 DDWC has used Worksheet C to develop a list of demand-side response strategies and specific measures that will be employed.

4.3.2 DDWC has described the criteria used to select the mitigation measures.

4.4 Drought Public Information Campaign

4.4.1 DDWC has used Worksheet D to outline the information for the public drought campaign such as: target audience, communication tools, and specific key information.

4.4.2 DDWC will develop scripted messages to be delivered to the public throughout the various stages of drought and has developed a website to make easier.

DDWC-DMP 50% Progress Report

February 1, 2022

DDWC Projected Retail Water Deliveries over Next 5-Years (acre-feet/yr)						Average	
years	2021	2022	2023	2024	2025	2021-2025	Percent
	(drought yr)						
Water Supply	45.0	65.3	65.3	65.3	65.3	61.3	100%
Customer Category							
Residential	26.5	31.0	32.5	34.1	35.7	31.9	52%
Commercial	0.6	0.6	0.6	0.6	0.6	0.6	1%
Irrigation	1.5	2.3	2.4	2.5	2.6	2.3	4%
Live Stock	1.8	2.0	2.0	2.0	2.0	2.0	3%
Total Deliveries	30.3	35.8	37.5	39.2	40.9	36.7	60%
Spillage	14.7	29.5	27.8	26.1	24.5	24.5	40%
GPCD							
Residential Taps						150	100%
Active Taps	75	79	83	87	91	83	55%
Population	263	277	291	305	319	291	
Residential GPCD	90.0	100.0	100.0	100.0	100.0	98.0	
Total GPCD	103.1	115.7	115.3	114.9	114.6	112.7	

50% Progress Report

This Progress Report indicates the “essential” elements for Tasks 3 & 4 that have been completed, such as:

1. Defined potential impacts that could occur during future droughts
2. Created list of drought mitigation measures (worksheet A attached)
3. Created list of the selected supply-side response strategies (worksheet B attached)
4. Created list of the selected demand-side response strategies (worksheet C attached)
5. Created the general components of the public drought campaign (worksheet D attached)
6. Completed elements under Tasks 1 & 2 outlined in the 25% Progress report

Please let me know if you have questions and/or would like more information.

Thanks,

Austin R Hobbs

President

(907) 232-4409

Historical Drought Impacts, Future Potential Impacts, and Mitigation

WORKSHEET A - HISTORICAL IMPACTS, FUTURE POTENTIAL IMPACTS AND MITIGATION

Instructions:

- [1] This column provides a list of drought related impacts. Add additional impacts identified during the planning process. The grouping of impacts (e.g., community, economic) may be modified.
 [2] Enter an "X" for all impacts experienced during historical droughts.
 [3] Enter "1" - significant impact, "2" - moderate impact, or "3" - minor impact
 [4] List historical/existing mitigation and response strategies that were implemented to address specific impact
 [6] Add any additional comments worth noting for historical drought assessment.
 [7] Enter an "X" for all potential future impacts.
 [8] Enter "1" - high priority, "2" - medium priority, or "3" - low priority
 [9] List mitigation actions and/or response strategies that may be taken to address identified potential impacts

Historical, Existing and Potential Drought Impacts (1)	Historical Drought Assessment				Vulnerability Assessment		Possible Mitigation & Response Strategies (9)
	Historical Impact (2)	Ranking of Drought Impact Severity (3)	Historical/Existing Mitigation & Response Strategies (4)	Comments (5)	Potential Future Impact (7)	Ranking of Potential Impact Severity (8)	
Water Provider							
Loss of revenue from reduction in water sales	X	2	Increased rates for excess use		X	2	Restructuring rates
Reduction in municipal well production							
Reduction in storage reserves	X	1	None		X	1	Installing more storage
Disruption of water supplies							
Degraded water quality							
Higher water treatment costs							
Sediment and fire debris loading to reservoirs following a wildfire							
Increased costs and staff time to implement drought plan	X	1	None		X	1	Increasing rates
Increased data/information needs to monitor and implement drought mitigation plan							
Costs to acquire/develop new water supplies/water rights transfers							
Costs to increase implement shortage response							
Public favorable/unfavorable perception of provider regarding drought response	X	1	Improved communications		X	1	Creating website
Scarcity of equipment and other water related services (e.g., contractors to repair wells)							
List other provider related impacts							
Community and Societal							
Domestic landscaping stressed or killed							
Public landscaping stressed or killed							
Lower quality drinking water (e.g., poor taste and odor)							
Reduced firefighting capability	X	1	None		X	1	Adding more storage
Cross-connection contamination as a result of lower pressures							
Increased pollutant concentrations							
Reduced quality of life							
Loss of human life (e.g., heat stress)							
Public safety from wildfires							
Reduction in fire fighting capabilities	X	1	None		X	1	Adding more storage
Increased respiratory ailments							
Increased disease caused by wildlife concentrations							
Mental and physical stress							
Increased political conflict							
Reduction or modification of recreational activities							
Inequal distribution of drought response implementation							
Changes to population growth trends (more likely during a long-term drought)							
Heightened awareness about water conservation	X	3	None		X	1	Website & news letters
Change in water use behavior to conserve water	X	3	None		X	1	Website & news letters
Re-evaluation of social values (priorities, needs, rights)							
List other community related impacts							
Economic							
Decreased land prices							
Land subsidence as a result of groundwater depletions							
Income loss to farmers that indirectly affects municipal businesses							
Loss to recreation and tourist industry							
Reduction of economic development							
Increase in food prices							
Restrictions/limitations on landscaping harms landscaping companies							
Impacts to large scale commercial water users (e.g., golf courses)							
Loss in hydropower energy							
List other economic related impacts							
Environmental and Recreational							
Increased risk of frequency and severity of wildfires							
Beetle kill							
Stress to surrounding natural environment							
Loss of wetlands							
Lower streamflows							
Lower lake/reservoir levels							
Increased susceptibility to plant disease							
Increased wind and water erosion							
Reduced flow from springs	X	1	Improvements		X	1	More improvements
Air quality effects (e.g. dust and pollutants)							
Visual and landscape quality (e.g., dust, vegetative cover, etc.)							
Stress to fish and other wildlife							
Lower water quality in streams and/or lakes/reservoirs							
Campfire bans							
Land subsidence							
List other environmental and recreational related impacts							

Supply-Side Mitigation and Response Strategies

WORKSHEET B - SUPPLY-SIDE MITIGATION AND RESPONSE STRATEGIES

Instructions

- [1] This column provides a list of supply-side response strategies. List additional strategies identified using Worksheet A or alternative sources.
- [2] This column identifies long-term mitigation actions.
- [3] This column identifies short-term response strategies.
- [4] and [5] Preliminary Selection: Identify the mitigation and response strategies that meet the following:
 Enter "existing" for all mitigation and response strategies included in existing drought management plans that will continue to be used in the future.
 Enter "new" for all mitigation and response strategies are to be considered for this drought management planning effort.
 Enter "eliminated" for all existing mitigation and response strategies that will no longer be used in the future.
- [6] Screening: Specify how well the selected mitigation and response measures meet the criteria to the right of these instructions by entering the following ranking value:
 Enter "1" for mitigation and response strategies that meet one of the five screening criteria.
 Enter "2" for mitigation and response strategies that meet two of the five screening criteria.
 Enter "3" for mitigation and response strategies that meet three of the five screening criteria.
 Enter "4" for mitigation and response strategies that meet four of the five screening criteria.
 Enter "5" for mitigation and response strategies that meet five of the five screening criteria.
- [7] Enter an X for selected mitigation and response strategies following the screening process.
- [8] If necessary provide additional explanation of why a mitigation or response strategy was retained or eliminated.
- [6] Screening Criteria:
 a) Technical feasibility
 b) Perceived benefits
 c) Cost effectiveness
 d) Public acceptance
 e) Environmental sensitivity and other extraneous impacts

Supply-Side Mitigation and Response Strategies [1]	Long-term Mitigation Actions [2]	Short-term Response Strategy [3]	Candidate Long-term Mitigation Actions [4]	Candidate Short-term Response Strategy [5]	Screening Ranking Value [6]	Post-Screening Selection of Mitigation and Response Strategies [7]	Comments [8]
Water Supply Augmentation							
Establish drought reserves	X		new	new	5	X	
Draw from drought reserves		X	new	new	5	X	
Increase groundwater pumping							
Deepen wells							
Develop supplemental groundwater/conjunctive use	X		new	new	5	X	
Treat water normally used for non-potable irrigation for potable purpose	X	X	new	new	5	X	
Reactivate abandoned wells							
Flush existing wells to develop maximum flow rate							
Blend primary supply with water of lesser quality to increase supplies							
Rehabilitate operating wells							
Employ desalination of brackish groundwater							
Utilize poorer quality water that normally not used if can meet safety standard							
Increase use of recycled water							
Utilize ditch water or treated effluent for irrigating landscaping/parks	X	X	new	new	4	X	
Build new facilities to enhance diversion or divert new supply	X		new	new	4	X	
Lower reservoir intake structure							
Use reservoir dead storage							
Acquire additional storage	X		new	new	5	X	
Build emergency dams							
Reactivate abandoned dams							
Cloud seeding							
List additional strategies identified using Worksheet A or alternative sources							
Water Supply Portfolio and Cooperative Agreements							
Call back water rights that others are allowed to use							
Purchase/lease water from other entities (e.g., neighboring cities)							
Consider filing SWSP to temporarily use agricultural water rights if water is available		X	new	new	4	X	
Lease irrigation rights from farmer							
Capitalize on new regional water supply opportunities that may result as a result of drought							
Lease private wells							
Cancel municipal leases of water to farmer							
Use irrigation decrees		X	new	new	4	X	
Invoke drought reservations that allow reduction in bypass requirements							
Renegotiate contractually controlled supplies							
Develop water transfers with other entities	X	X	new	new	4	X	
Develop water bank to facilitate water transfers in times of drought							
Develop interconnects with other entities							
Trade water supplies with other entities to increase yield							
Increase water quality monitoring							
List additional strategies identified using Worksheet A or alternative sources							
Improve Water Distribution Efficiency							
Conduct distribution system water audit	X	X	new	new	4	X	
Repair leaks in distribution system	X	X	new	new	4	X	
Reduce distribution system pressure							
Replace inaccurate meters	X		new	new	4	X	
Calibrate all production, commercial, industrial, and zone meters							
Install meters at key distribution points to isolate areas of overuse and probable leakage	X		new	new	4	X	
Minimize reservoir spills	X	X	new	new	4	X	
Change operations to optimize efficiency and distribution of supplies	X	X	new	new	4	X	
Change pattern of water storage and release operations to optimize efficiency	X	X	new	new	4	X	
Reduce reservoir evaporation (e.g., reduce storage in reservoirs with high evaporation rate)							
Reduce reservoir seepage (e.g., reduce storage in reservoirs with high seepage rate)							
Recirculate wash water							
Enhance efficiency of water treatment facilities	X		new	new	4	X	
List additional strategies identified using Worksheet A or alternative sources							
Emergency Response							
Declare a drought/water shortage and appropriate stage		X	new	new	4	X	
Establish water hauling programs							
Restrict/prohibit new taps		X	new	new	2	X	
Identify state and federal assistance	X	X	new	new	4	X	
Provide emergency water to domestic well users							
List additional strategies identified using Worksheet A or alternative sources							
Public Education and Relations							
Establish a public advisory committee	X	X	new	new	4	X	
Implement Drought Public Education Campaign with long- and short-term strategies. (See Worksheet D)	X	X	new	new	4	X	
Extend boat ramps and docks for recreational use when reservoirs are low							
List additional strategies identified using Worksheet A or alternative sources							

Demand-Side Mitigation and Response Strategies

WORKSHEET C - DEMAND-SIDE MITIGATION AND RESPONSE STRATEGIES

Instructions:

- [1] This column provides a list of demand-side response strategies. List additional strategies identified using Worksheet A or alternative sources.
- [2] This column identifies the long-term mitigation actions.
- [3] This column identifies the short-term response strategies.
- [4] and [5] Preliminary Selection: Identify the mitigation and response strategies that meet the following:
 Enter "existing" for all mitigation and response strategies included in existing drought management plans that will continue to be used in the future.
 Enter "new" for all mitigation and response strategies are to be considered for this drought management planning effort.
 Enter "eliminated" for all existing mitigation and response strategies that will no longer be used in the future.
- [6] Screening: Specify how well the selected mitigation and response measures meet the criteria to the right of these instructions by entering the following ranking value:
 Enter "1" for mitigation and response strategies that meet one of the five screening criteria.
 Enter "2" for mitigation and response strategies that meet two of the five screening criteria.
 Enter "3" for mitigation and response strategies that meet three of the five screening criteria.
 Enter "4" for mitigation and response strategies that meet four of the five screening criteria.
 Enter "5" for mitigation and response strategies that meet five of the five screening criteria.
- [7] Enter an X for selected mitigation and response strategies following the screening process.
- [8] If necessary provide additional explanation of why a mitigation or response strategy was retained or eliminated.
- [6] Screening Criteria:
 a) Technical feasibility
 b) Perceived benefits
 c) Cost effectiveness
 d) Public acceptance
 e) Environmental sensitivity and other extraneous impacts

Mitigation and Demand-Side Response Strategies [1]	Type of Strategy		Candidate Long-term Mitigation Actions [4]	Candidate Short-term Response Strategy [5]	Screening Ranking Value [6]	Post-Screening Selection of Mitigation and Response Strategies [7]	Comments [8]
	Long-term Mitigation Actions [2]	Short-term Response Strategy [3]					
Provider/Municipality							
Develop drought public education campaign with long-term and short-term demand management strategies	X	X	new	new	4	X	
Identify high water use customers and develop water saving targets	X	X	new	new	4	X	
Implement conservation measures that also provide water saving benefits during drought periods (e.g., water fixture rebates)	X		new	new	4	X	
Restrict the issuance of new taps		X	new	new	4	X	
Implement drought surcharges		X	new	new	4	X	
Implement a modified rate structure for drought periods	X	X	new	new	4	X	
Conduct irrigation audits on provider/municipal parks and open spaces	X	X	new	new	4	X	
Educate provider/municipal staff on how to save water	X	X	new	new	4	X	
Provide instructional resources to business on developing an office/business specific drought mitigation and response plan	X	X	new	new	4	X	
Eliminate/reduce irrigation on provider/municipal owned parks and landscaping	X	X	new	new	4	X	
Limit outdoor watering to specific times of the day	X	X	new	new	4	X	
Limit number of watering days per week	X	X	new	new	4	X	
Set time limit for watering	X	X	new	new	4	X	
Prohibit watering during fall, winter, and early spring		X	new	new	4	X	
Convert sprinklers to low volume irrigation where appropriate	X		new	new	4	X	
Restrict outdoor misting devices							
Reduce street cleaning, sidewalk, and driveway washing							
Limit/prevent washing of provider/municipal fleet vehicles							
Limit hydrant washing and flushing		X	new	new	4	X	
Limit use of water for fire training							
Eliminate all fire hydrant uses except those required for public safety		X	new	new	4	X	
Turn off ornamental fountains in buildings and parks							
Install water saving fixtures, toilets, and/or appliances in provider/municipal-owned buildings							
Conduct indoor water audits							
List additional strategies identified using Worksheet A or alternative source:							
Residential							
Enforce landscape watering restrictions	X	X	new	new	4	X	
Limit outdoor watering to specific times of the day	X	X	new	new	4	X	
Limit number of watering days per week	X	X	new	new	4	X	
Set time limit for watering	X	X	new	new	4	X	
Prohibit lawn watering during fall, winter, and early spring		X	new	new	4	X	
Limit watering to hand-held hose or no-volume nonspray device		X	new	new	4	X	
Promote outdoor water audits	X	X	new	new	4	X	
Convert sprinklers to low volume irrigation where appropriate	X	X	new	new	4	X	
Limit/restrict outdoor misting devices							
Limit/prohibit installation of new sod, seeding, and/or other landscaping							
Enforce policy guidelines/limitations for installation of new sod and/or other landscaping							
Enforce restrictions on spraying of impervious surfaces							
Prohibit/limit vehicle washing							
Prohibit/limit nonrecirculating fountains							
Prohibit/limit filling and use of swimming pools		X	new	new	4	X	
Enforce indoor water restrictions		X	new	new	4	X	
Promote indoor water audits	X	X	new	new	4	X	
Promote/require installation of water efficient appliances (e.g., dishwashers, clothes washer)	X	X	new	new	4	X	
Promote/require graywater use							
Provide acoustical meters to assist customers in identifying leaks							
Require water efficient fixtures and/or appliances on house resale or remodeling	X		new	new	4	X	
Provide historical monthly water usage on water bills	X	X	new	new	4	X	
Promote/enforce reduction of water-cooled air conditioning							
List additional strategies identified using Worksheet A or alternative source:							
Commercial and/or Industrial							
Prohibit/limit use of construction water							
Enforce policy guidelines/limitations for installation of new sod and/or other landscaping							
Enforce outdoor landscape watering restrictions	X	X	new	new	4	X	
Promote/require indoor and outdoor water audits where applicable	X	X	new	new	4	X	
Turn off indoor and outdoor ornamental fountains							
Prohibit/limit filling and use of swimming pools		X	new	new	4	X	
Promote/enforce installation of water efficient fixtures and appliances	X	X	new	new	4	X	
Turn off public drinking fountains							
Promote reduction of water-cooled air conditioning							
Promote/require buildings with water-cooled air conditioning to raise the temperature modestly							
Prohibit/limit dealership washing of vehicles							
Enforce water use restrictions on commercial car washes							
Promote commercial car washes to install water recycling technology and/or other BMPs							
Promote service of water in restaurants only upon request							
Promote reduction in frequency of linen and towel washing in hotels							
Provide instructional resources on developing a business/office specific conservation plan							
Promote/require conversion of cooling towers and other industrial water using processes							
List additional strategies identified using Worksheet A or alternative source:							

Drought Public Information Campaign

WORKSHEET D - PUBLIC INFORMATION CAMPAIGN

Instructions:

- [1] Select the drought information to convey to the public prior to a drought (long-term mitigation), in response to declaration of a drought (long-term response), or for both scenarios. Enter "yes," "maybe," or "no" in each column.
- [2] Select the targeted audience and corresponding communication tool(s) for each of the drought components selected in column [1] by entering the appropriate letter designation(s) for each of the applicable communication tools identified in the communications tools listed to the right.
- [3] Enter additional ideas.
- [4] Enter an "X" for all components where coordination with other entities is a likely possibility.

Communication Tools

- a Website devoted to drought and water conservation tips
b Water bill (monthly water use targets and actual consumption)
c Establish drought hotline & train staff to operate hotline
d Newspaper articles
e Television
f Outreach and press releases to general media
g Provider, municipal & county websites
h Water or utility bill inserts
i Distribution of brochures
j Seminars/special programs
k Broadly distributed emails
l School outreach/educational programs (field trips, speakers, curriculum)
m Mail fliers
n Public meetings
o Distribution of water conservation tools (rain meter, sink aerators, etc)
p Booths at special events
q Billboards
r Social media
s Email
t Meetings
u Phone
Insert other communication tools [3]

Public Information Campaign Components	Screening [1]		Targeted Audience [2]															Coordinate with Other Entities [4]
	Long-term Mitigation Actions	Short-term Response Strategy	Decision makers/policy makers	Governmental bodies/city departments (e.g. parks, fire department)	Community recreational facilities	Media	Single-family residential	Multi-family residential	HOAs	Commercial business owners	Commercial business employees	School facility managers	School children	Industrial businesses	Specific targeted businesses (local nurseries, landscape architects, health facilities)	Large water users (golf courses)	Insert other audience members [3]	
Drought Information to Convey to the Public																		
Drought awareness: status of current drought conditions, drought stage and associated water restrictions		yes	a				a			a							a	
Sustainability and vulnerabilities of water supply system	yes		a				a			a							a	
Where customers may access drought management plan	yes		a				a			a							a	
Measures and/or impacts that customers can expect if drought continues or intensifies		yes	a				a			a							a	
Factors that could influence water supply services and cost of services		yes	a				a			a							a	
Water provider's actions to save water and/or acquire new water - lead by example		yes	a				a			a							a	
Policy recommendations, requirements, and penalties		yes	a				a			a							a	
Enforcement of drought policies and penalties for violations		yes	a				a			a							a	
Explanation of rate increases/drought surcharge		yes	a				a			a							a	
Increase advertisement of water saving incentives, conservation and drought plans	no	no																
Water savings tips	no	no																
Landscape tips during a drought (e.g., which plants to convert to drip, which to save, which to let die)	no	no																
Post-drought landscape revival information	no	no																
Use of gray water where legal and appropriate	no	no																
Promote existing xeriscape gardens	no	no																
Promote ways to clean sidewalks, driveways, and other hard surfaces without using hoses	no	no																
Promote ways to wash vehicles to minimize water waste	no	no																
Water saving targets and actual consumption by individual customer, city, sector, etc.	no	no																
Instruction to customers on how to set up a low water use plan for their homes or business	no	no																
Instructions on how to track water use within the home	no	no																
Publicize efforts of individuals and businesses as examples of how to reduce water use	no	no																
Encourage intense public discussion and media involvement concerning ways to reduce water use while minimizing impacts (e.g., landscaping impacts)	no	no																
Do-it-yourself water waste reduction/water savings brochure	no	no																
Provide customers with a drought report card at the end of the year showing monthly/annual water use pre-drought and during the drought		yes	a				a			a							a	
Open burning restrictions to reduce wildfire or grass fires	no	no																
Restrictions on fishing to reduce stress on aquatic species	no	no																
Restrictions on use of athletic fields to minimize turf impacts	no	no																
Emergency water supply or bottled water distribution centers	no	no																
<i>Insert additional information to convey to the public [3]</i>	no	no																