

# DROUGHT WORKSHEET

for preliminary Benefit Cost Analysis conducted by the State Mitigation Technical Unit

Applies for the following mitigation activities: **AQUIFER AND STORAGE RESTORATION, OTHER ACTIVITY RELATED**. For assistance, contact the State of Florida Mitigation Technical Unit.

**IMPORTANT:** This worksheet is required as part of your application. The State of Florida Mitigation Technical Unit will conduct a Benefit Cost Analysis (BCA) for your project and the following information is needed to evaluate cost effectiveness. Once a preliminary BCA is completed, the reviewer will contact you to collect support documentation.

**NOTE:** Having a complete worksheet will expedite the Technical Review.

## SECTION I - PROJECT GENERAL INFORMATION

<b>Project Name</b>	
<b>Applicant</b>	
<b>Point of Contact</b>	Name:
	Address (Please include City, State and Zip Code):
	Phone number:
	Email:
<b>HMA Program</b> (FMA, PDM, HMGP, 406 PA MITIGATION)	

## SECTION II - STRUCTURE GENERAL INFORMATION

<b>Address</b>	
In case of multiple sites, attach to this worksheet a list of all locations/sites involved in this project.	
<b>City, State and Zip Code</b>	
<b>County</b>	

## SECTION III - PROJECT COST INFORMATION

<b>Mitigation Project Cost</b>	\$
A lump sum on this worksheet is acceptable for preliminary BCA, but a detailed breakdown attached to your application is required.	
<b>Annual Maintenance Cost</b>	\$
Relates to the amount of money you expect to spend every year maintaining the project, to ensure functionality at the time of a storm event.	

## SECTION IV - HISTORICAL DAMAGES / LOSS OF SERVICE

The following information is a guidance on how to enter the data:

Population Served by Project - The economic value of loss of water (i.e., damages) is dependent upon the number of people impacted by a drought. As it relates to this methodology, "population" is defined by the number of people who would be both impacted by drought and who would benefit.

Average water use rate (gallons per day) - The total annual production (in gallons), divided by population, divided by 365 days.

Maximum Volumetric Pumping Rate (million of gallons per day) - value relates to the production pumping rate (not injection) that delivers stored water for drought mitigating purposes.

Average depth to recoverable water (feet) - defines the typical depth that stored water must be pumped from during production.

<b>What would be the population being served by the project?</b>	
<b>What is the average Water Use Rate (gallons per day)?</b>	
<b>What is the maximum Volumetric Pumping Rate (million of gallons per day)?</b>	
<b>What is the depth to recoverable water (feet)?</b>	

## SECTION VI - BEFORE AND AFTER MITIGATION

Based on current FEMA BCA guidance and practices, to evaluate a project that reduces the risk from drought, it would be necessary to determine the recurrence interval associated with the severity of scenario drought events. Establishing a traditional recurrence interval for drought may be difficult; however, the applicant should use the best available data and methodology deemed appropriate by a licensed professional engineer or similarly qualified professional to complete this section.

<b>Before Mitigation</b>			
Recurrence Interval (years)	Potable Water Demand (mgd)	System Supply Yield (mgd)	Duration of Impact (days)

<b>After Mitigation</b>	
System Supply Yield (mgd)	Duration of Impact (days)