

Table 2-1: Master Scenario Event List

| No. | Date | Events / Injections | Interrogatories | Objectives |
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| PART 1 | | | | |
| <i>In the Pomperaug watershed, spring began with the ground water table low. Streamflow in the Pomperaug River is averaging 100 cubic feet per second (60% below normal). Stream flow has been below normal for three months.</i> | | | | |
| 1-1 | March 30, 2009 | The Woodbury Ski Area closes early after struggling to maintain snow pack after one of the driest winters on record in CT. This has been their worst business season in history. | <ul style="list-style-type: none"> • What measures are taken at this point to counteract the drought? • Who has the authority to measure water in the watershed in support of identifying and categorizing drought stages? • What is the frequency of these measurements? • To what parties are the results reported and by whom? • Based on quantitative data measurements, who has the regulatory authority to issue a Drought Advisory? • What authority does any entity have to issue a drought advisory? | <ul style="list-style-type: none"> • Declare Drought Advisory for the local area. • Identify who is measuring and communicating watershed data. • Identify who receives the data. • Identify who has authority to take actions based on this data, and what actions may be taken. |

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| 1-2 | May 30, 2009 | <p>Streamflow in the Pomperaug River is at 50 cubic feet per second. Stream flow has been below normal for four months.</p> <p>Water suppliers are experiencing slower than normal groundwater recharge in their wells. Water storage tanks are currently full but suppliers are not sure how long this will last. United Water has continuously pumped their wells for three consecutive days. The Watertown Fire District is experiencing water quality conditions that violate Safe Drinking Water Act and CTDPH standards.</p> | <ul style="list-style-type: none"> • What measures are taken at this point to counteract the drought? • How do the municipalities ensure that measures taken are equitable? • Who is the local point person with the state agencies? • What is their joint organizational model for implementing associated actions, and is it based on the Incident Command System? • Who initiates the State-Level Interagency Drought Workgroup and who are the members? | <ul style="list-style-type: none"> • Local towns to declare Drought Watch or Warning for the local area. • Water companies declared drought emergency levels specific to their system. • Local stakeholder workgroup meetings occur to establish a coordinated response. • Implement local ordinances to enforce drought response measures or identify the need to develop local ordinances. |
| 1-3 | June 2, 2009 | The Pomperaug Health Department is receiving several calls a day recently regarding low pressure and lack of water in private wells. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Discuss local ordinances to enforce drought response |
| 1-4 | June 2, 2009 | The DEP would like to inform Pomperaug River anglers that the traditional opening day stocking in the Pomperaug River has been cancelled due to low stream flow. Fourth of July stocking will occur pending a healthier stream flow. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Discuss local ordinances to enforce drought response |

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| 1-5 | June 30, 2009 | <p>Streamflow in the Pomperaug River is at 12 cubic feet per second. Stream flow has been below normal for five months.</p> <p>The National Weather Service reported a record hot and dry June for CT with only one significant rain event, 1 inch, late in the month.</p> <p>There is increased environmental stress on the river creating a serious odor due to the low river flow below the sewage plants at Heritage and the Southbury Training School.</p> <p>Based on their Emergency Contingency Plans, the local water companies are experiencing triggers for a “drought advisory”.</p> | <ul style="list-style-type: none"> • How are stakeholders coordinating? • What are the water company responses to a “drought advisory” and how do other local organizations support the response effort? • What is the organizational model for the Pomperaug area and is it based on the Incident Command System (ICS)? • How does the Pomperaug area liaison with the State Authorities? • How are water supply needs prioritized at the local level? • Where do local and regional stakeholders convene? • Who convenes at the CT Operations Center? • At what point during a severe drought is each Emergency Operations Center (local and regional) opened? | <ul style="list-style-type: none"> • Local towns and region to declare Drought Watch or Warning for the local area. • Water companies declared drought emergency levels specific to their system. • Coordinate between local command staff, local stakeholders, and state authorities. • Identify the need for a risk-based approach to prioritizing water supply needs as part of an overall water allocation plan. • Recognize the need to leave water in the environment vs. pumping the rivers dry. • Discuss what is a reasonable amount of water to leave in the environment during drought conditions. |
| 1-6 | July 3, 2008 | <p><i>Newspaper Story: Dusty Southbury Construction Site Causing A Traffic Hazard</i> (See Appendix C of this Report)</p> | <p>What response actions do you take?</p> | <ul style="list-style-type: none"> • Discuss the coordination of developing a public message regarding the |

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| | | | | drought. |
| 1-7 | July 6, 2009 | Town offices are experiencing several phone calls a day from irate residents who have observed excessive use of water in the local area and demand answers. | What response actions do you take? | <ul style="list-style-type: none"> • Discuss local ordinances to enforce drought response. |

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| PART 2 | | | | |
| <i>There was no rain throughout July and the streamflow in the Pomperaug River was at a historic low- 3.0 cubic feet per second. Stream flow has been below normal for six months. The Connecticut DEP cancelled this summer's fish stocking in the Pomperaug River.</i> | | | | |
| 2-1 | August 8, 2009 | The first fish kills as a result of dry stream beds were reported. | <ul style="list-style-type: none"> • What has been the progression of the declarations of drought stages from: <ul style="list-style-type: none"> - Advisory - Watch - Warning - Emergency? • How has this been communicated to the public and by whom? • What is the risk communication plan? • What water use restrictions are (or need to be) in place? • As promulgated by what agency(ies)? • How are they enforced? | <ul style="list-style-type: none"> • Water companies declared drought emergency levels. • Local water suppliers coordinate with local and state government officials to communicate to the public. • Identify the need for a regional risk communication plan for a drought scenario and the agency who manages it. • Identify a way to actively enforce water use restrictions using a phased approach based on the severity. |
| 2-2 | August 9, 2009 | Local farmers tried to irrigate their fields with extensive ground water pumping, but reduced yields are a reality for them. It is also getting difficult to feed local herds such as dairy cows, beef cows, alpaca, and horses. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Consider agricultural effects. |
| 2-3 | August 10, 2009 | Governor Rell declares a Drought Emergency for Connecticut. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Partial activation of State EOC. |

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| 2-4 | August 11, 2009 | Local stores can hardly keep bottled water in stock. | <ul style="list-style-type: none"> • What response actions are taken? | <ul style="list-style-type: none"> • Develop public messages. |
| 2-5 | August 15, 2008 | The Central Naugatuck Valley Council of Governments (COG) sends out a memo inviting local stakeholders to a meeting on August 16, 2009 to coordinate plans for a regional drought response. They expect stakeholders to prepare for this meeting by responding to the questions provided. | <p>Representatives from each respective town convene to discuss the following:</p> <ul style="list-style-type: none"> • What is the model for integrating the town's representatives and who provides the leadership for Pomperaug? How are water companies and local subject matter experts made part of the model? • What is the model for coordinating with the State's drought response plan? • What is the definition of critical water users and large water users and who are they? • What is the plan for prioritizing water needs and associated allocation – within each town and within Pomperaug? • Have any of the towns adopted the new Model Water Use Restriction Ordinance? If there is no ordinance, why not? • How does the ordinance integrate with the individual towns respective plans, (e.g., EOP)? • Are documented MOU's in place? • Should schools be in session this Fall if the drought situation does not improve? | <ul style="list-style-type: none"> • Utilize the ICS emergency management model and include local stakeholders in the organization. • Gain an understanding of the state-level support available in a drought emergency. • Identify the need of developing a water allocation plan for the Pomperaug region. • Identify the need of developing a water use restriction ordinances and enforcement protocols. • Identify the need of developing MOUs. |
| PART 3 | | | | |

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| <i>The Pomperaug River runs dry.</i> | | | | |
| 3-1 | September 8, 2009 | <p>A brush fire started in the Lake Whittemore sanctuary east of Woodbury earlier in the week with water coming from a very low Lake Quassapaug; a larger fire started in the Audubon center in Southbury; the desiccated Pomperaug River was not able to help put out the fire. Helicopters were brought in to get the fire under control at considerable expense.</p> <p>Selectman of all the towns received numerous press inquiries, as this is an election year.</p> | <ul style="list-style-type: none"> • Who is paying for the helicopters? • What is the plan for allocating water among the Pomperaug towns and what is it based on? | <ul style="list-style-type: none"> • Gain a deeper understanding of who the stakeholders are in a drought emergency. • CTDEP considers closing state forests. |

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| 3-2 | September 8, 2009 | A reporter sends you an email with a list of questions with the expectation that your organization will respond as soon as possible. | <ul style="list-style-type: none"> • “The residents are scared, scared that water is running out, scared about their lives, scared about their houses – what are you doing about this?” • “Who is paying for the helicopters?” • “And why is Southbury supplying water to Middlebury and Oxford? Middlebury and Oxford have their own needs – please comment.” • “What is the plan for allocating water among the Pomperaug towns and what is it based on?” | <ul style="list-style-type: none"> • Explore the realities of public outrage over a severe drought. |
| 3-3 | September 9, 2009 | <p><i>Mock News Report Video: Heritage Village Water Company requests activation of interconnections with adjacent utilities, Meanwhile, residents of Southbury called for the reduction of any out of basin water transfers to the towns of Middlebury and Oxford. There was an instant reaction by the people of Oxford and Middlebury and this controversy was played up in the papers and carried on the television as ‘Towns in Conflict’ about water supplies.</i></p> <p>See the video at http://www.youtube.com/watch?v=MNgsc7DCFGc</p> | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Discuss out of basin transfers. |
| 3-4 | September 9, 2009 | The stakeholders prepare for a press conference for town leadership from the Pomperaug communities. Questions from the media are provided ahead of time. | <p>These questions are asked by local TV stations and the press:</p> <ul style="list-style-type: none"> • What if another wild fire breaks out – how will it be extinguished? • Who decides how to use the small amount of water we have remaining? • Is there a way to measure how much | <ul style="list-style-type: none"> • Develop public messages. |

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| | | | <p>water is the “property” of each town and how much each town uses?”</p> <ul style="list-style-type: none"> • What is the process for sharing water between towns based on more significant risk? | |
| 3-5 | September 2009 | Farmers were forced to abandon crops as they were not worth harvesting. Local farmers markets cease. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Consider agricultural and commercial effects. |
| 3-6 | September 15, 2009 | A heat wave occurs in the region. The odor from local sewage systems is particularly bad and town offices are receiving many complaints from residents. | <ul style="list-style-type: none"> • What response actions do you take? • How much water needs to be left in the environment? | <ul style="list-style-type: none"> • Consider environmental effects. |
| 3-7 | September 2009 | Fire fighters raise issue that there is not enough water in local rivers to fight fires. They consider chemical retardants as an option to suppress fires in the uplands. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Weight the costs and benefits of transporting water into the region to fight fires and the adverse environmental effects of using chemicals. |
| 3-8 | September 15, 2009 | The Central Naugatuck Valley Council of Governments (COG) sends out a memo inviting local stakeholders to a meeting on September 16, 2009 to coordinate plans for a regional drought response. They expect stakeholders to prepare for this meeting by responding to the questions provided. | <p>Representatives from each respective town convene to discuss the following:</p> <ul style="list-style-type: none"> • Has there been any kind of risk assessment conducted to assist in the prioritization of water needs – in the town? In the Pomperaug area? Should there be? • For example, consider priority users such as the Naugatuck Valley Surgical, firemen fighting the wild fires, public cooling shelters, special populations, etc... • Have the risks of drought been | <ul style="list-style-type: none"> • Begin exploring the possibility of a risk-based approach to prioritizing water supply needs as part of an overall water allocation plan. • Discuss what is a reasonable amount of water to leave in the environment during drought conditions. |

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| | | | <p>compared to the risks of wild fire/building risk (property damage, business interruption) as part of the prioritization process?</p> <ul style="list-style-type: none"> • What stakeholders should participate in the risk assessment /prioritization process? • What would it take for the stakeholders be willing to sign off on the process results and abide by them in an emergency? | |
| PART 4 | | | | |
| <p><i>There was a heavy rain the prior week, much to everyone's relief. But it came and went very quickly, causing significant property damage due to erosion and flood exacerbated by the recent fires and depleted foliage on the river banks. Despite heavy flow in the river for one day, the situation had returned to dire consequences soon after.</i></p> | | | | |
| 4-1 | October 1, 2009 | The police are receiving emergency calls regarding aggressive wildlife in the valley looking for food and water. There were several unfortunate incidents involving children and wildlife that forced many parents to conclude that they did not want their children to play outdoors. Recess at the schools as well as other outdoor activity was eliminated in many cases. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Consider environmental effects of a severe drought and prevention tactics. |
| 4-2 | October 2, 2009 | Economic activity was coming to a slowdown and the leaf peeper tourist business was very slow. The news about the area continues to be very negative. | <ul style="list-style-type: none"> • What response actions do you take? | <ul style="list-style-type: none"> • Consider economic effects of a severe drought and prevention tactics. |

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| 4-3 | October 3, 2009 | A meeting is called for all affected stakeholders. | <ul style="list-style-type: none"> • What could have been done to mitigate recent events? • What actions specified in the CT Drought Preparation and Response Plan are being implemented at the local level? • Is water being allocated using a risk-based approach? Who authorizes water allocation decisions within the Pomperaug Watershed area? • What messages need to be communicated to the public? • How can public communication be made more effective so as to calm fears and obtain desired behaviors? | <ul style="list-style-type: none"> • Discuss what could have been done to mitigate the effects of the drought. |