



Transportation & Public Works Committee

Notes for Agenda Items 4 – 8

March 8, 2021



AGENDA

1. **WELCOME AND INTRODUCTIONS** (5 min.)
2. **COMMENTS ON NOTES FROM DECEMBER 14, 2020, MEETING** (5 min.)
3. **OVERVIEW OF REGIONAL FOOD AND WATER SECURITY PLANNING** (20 min.)
BMC staff Megan Bluthardt and Blake Fisher will present an overview of the grant-funded project on food and water security, and Dennia Palmer will brief on the purpose of the grant-funded regional shelter project.
4. **UASI FUNDING UPDATE** (15 min.)
Jeramie Calandro will update the group on the status of UASI funds for FY 2021.
5. **UPDATE: DEVELOPMENT OF A RESOURCE GUIDE: PLANNING, DESIGNING, OPERATING, AND MAINTAINING LOCAL INFRASTRUCTURE IN A CHANGING CLIMATE** (15 min.)
Eileen Singleton will update the committee on this project.
6. **GROUP DISCUSSION** (15 min.)
The group will discuss pandemic and other operational activities.
7. **UPDATES ON RELATED WORK** (15 min.)
 - T&PW Projects
 - Disaster Debris Planning Task Force
 - UAWG and Emergency Management Committee
8. **OTHER BUSINESS** (5 min.)
 - Upcoming events

4. UASI Funding Update

- **Schedule**
- **Potential project ideas**
 - Protecting critical infrastructure, particularly water treatment systems, from cyberattack
 - study of vulnerabilities
 - funding for implementation of identified protections
 - other
 - wastewater testing closer to the sources of creation (i.e., pipe from a large building like a dorm or apartment building leading into the wastewater piping system) to enable an earlier warning of possible health issues/emergencies.
 - identifying locations to install equipment for a pilot
 - other

5. Update: Development Of A Resource Guide: Planning, Designing, Operating, And Maintaining Local Infrastructure In A Changing Climate

- Steering Committee meeting #1 held January 21
- Steering Committee meeting #2 scheduled for March 31
- Current work:
 - Task 3: Documenting the changing climate
 - Task 4: Documenting direct and indirect changes, includes agency interviews

Task 3: Documenting the changing climate

Temperature

Source: ICF analysis of downscaled LOCA data – see additional details below

1. Days less than 32°F (7)
2. Annual avg temp (6)
3. Days > 90°F (6)
4. Days > 95°F (5)
5. Number of heatwaves (6)
 - a. “Heatwaves” = 4 or more days above the baseline 98th percentile temperature

Precipitation

Source: ICF analysis of downscaled LOCA data – see additional details below

6. 100-yr, 24-hour precipitation amount (6)¹
7. 10-yr, 24-hour precipitation amount (5)
8. “Extremely Heavy” 24-hour precipitation amount (6)
 - a. i.e., amount of precipitation in the 99th percentile of all events in the time period
9. Avg. Monthly Precp. (5)
10. Maximum 5-day precipitation amount (2)

Sea Level Rise and Storms

Source: MDOT SHA Climate Change Viewer

11. Projected SLR (9)
 - a. Maps of flood depths at mean higher-high water (i.e., high tide) based on 2015, 2050, and 2100 sea levels
12. Projected Coastal Inundation from storm surge (9)
 - a. Maps of flood depths at mean higher-high water under the 100-year (1% annual chance) storm event at 2015, 2050, and 2100 sea levels

6. Group Discussion

- **Pandemic response**
- **Nuisance Flood Plans / Road closure tracking**
- **UPWP projects: DPW/DOT issues / projects related to:**
 - the pandemic
 - climate change
 - Climate change projects will include follow-on work to the Climate Change Resource Guide, such as developing a short training program for its use, additional interactive mapping, and other projects and needs identified through work on the Resource Guide.
 - equity

7. Updates on Related Work

- **T&PW Projects**
- **Disaster Debris Planning Task Force**
 - Presentation at March 17 meeting on debris monitoring software
 - Presentation in the fall on snow declaration
- **UAWG and Emergency Management Committee**

8. Other Business

- Upcoming events
- Future T&PW presentation ideas
- 2021 T&PW meetings: June 14, September 13, December 13