

Grantee: Rhode Island

Grant: B-10-DF-44-0001

April 1, 2017 thru June 30, 2017 Performance Report



Grant Number:

B-10-DF-44-0001

Obligation Date:**Award Date:**

11/10/2010

Grantee Name:

Rhode Island

Contract End Date:**Review by HUD:**

Submitted - Await for Review

Grant Award Amount:

\$8,935,237.00

Grant Status:

Active

QPR Contact:

Laura Sullivan

LOCCS Authorized Amount:

\$8,935,237.00

Estimated PI/RL Funds:**Total Budget:**

\$8,935,237.00

Disasters:**Declaration Number**

FEMA-1894-RI

Narratives**Disaster Damage:**

THE EFFECT OF THE MARCH 2010 FLOOD DISASTER

The flooding that occurred between March 12th and 30th 2010 (FEMA declaration DR-1894) was the worst in over 100 years in the State of Rhode Island, and was unprecedented in scale, ubiquity, and overall impact to the State.

The disaster was caused by exceptionally heavy spring rainfall along the Northeast coast. Fully 16.32 inches of rain accumulated in Rhode Island in March, eclipsing the previous record of precipitation by more than an inch; more than 8.6 inches of rainfall over March 28-30th

This downpour had two major effects on Rhode Island's physical geography: 1.) the Blackstone, Pawtuxet, Woonasquatucket, Pawcatuck and other rivers reached record heights and overflowed. The Pawtuxet crested at 20.79 feet, 11 inches above the 9 feet flood level. 2.) The month of rain had led to super-saturation of permeable surfaces, which led to not only a lessening of the effectiveness of watersheds and other river-flood mitigating features, but also to the pooling of non-river waters in low topographies and the seepage of ground waters into basements and foundations. The March 2010 disaster was widespread and delocalized, as flood damage occurred around multiple rivers and low-altitude points.

The flooding itself led to in excess of \$200 million dollars of damage, as conservatively estimated by the Governor's office, to Rhode Island infrastructure, homes and businesses. Multiple utility substations, including a major substation in Westerly, Rhode Island, were flooded, and more than 10,000 households lost power for multi-day periods. Sections of forty major arterial roads and highways were closed, with many incurring significant structural damage; sections of I-95 were shutdown for three days, restricting north-south movement in the State. Numerous bridges, dams and wastewater treatment plants were damaged to the point of requiring replacement or major structural repairs. (See Appendix E.1-4, for FEMA Public Assistance by Unit of Local Government).

Several hundred Rhode Islanders were evacuated during the flood; over 25,000 applied for FEMA Individual Assistance related to disaster needs. Displaced and affected homeowners were disproportionately comprised of low income individuals (39%), according to the Preliminary Damage Assessment. Total damage to homes and individual property is estimated to have exceeded \$100 million. (See Appendix D.1-2, for FEMA Individual Assistance by Unit of Local Government).

Perhaps hardest hit were businesses in Rhode Island. Total disaster damage to businesses exceeded \$70 million. Most affected were areas around the Pawtuxet River, where the Natick business district and commercial corridor in West Warwick was submerged under 10 feet of water. More than 3,000 businesses statewide applied for SBA disaster assistance loans.

Intensifying these effects, especially in the business sector, was the already weakened Rhode Island economy. Rhode Island was hit particularly hard by the recession; unemployment at the time of the flood was 12.5%, almost 3.0 points above the national level, and the State budget deficit exceeded \$220 million. Both the damage from the flood, and the temporary and long term stasis and confusion the flood caused, have exacerbated



Disaster Damage:

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FEDERAL AND STATE RESPONSE TO DATE

In view of initial Preliminary Damage Assessments conducted by federal, state and local officials, then Governor Carcieri requested a Federal Disaster Declaration for disaster assistance on March 24th, 2010. President Obama approved this request on March 29th, and Emergency Declaration DR-1894 was issued. The federal and state response to DR-1894 has been primarily directed through cooperation between the Rhode Island Emergency Management Agency (RIEMA) and the Federal Emergency Management Agency (FEMA).

Immediate Response to DR-1894

RIEMA has functioned as the Lead State Agency and directed the immediate response to the flooding disaster. On March 12th, RIEMA transitioned from daily operations to Incident Command Structure, and began to coordinate with various state agencies and the National Guard. Through the State Emergency Operations Center (SEOC), RIEMA and other Emergency Support Function partners were able to prioritize, assess, and jointly deal with disaster events and needs. The SEOC remained open until April 6th.

In order to streamline the recovery process for flood victims, RIEMA and FEMA jointly set up and operated Disaster Recovery Centers (DRCs), 'One Stop Shops' for the provision of disaster assistance. Five DRCs were established within close proximity to disaster areas, the first opening April 2; the DRCs remained open until May 28th. The centers were staffed by disaster recovery specialists, and case managers from the local Community Action Agencies, as well as representatives from the Department of Mental Health and Retardation and Hospitals, to assist with mental health and behavioral issues, and Representatives from the SBA, to give guidance on applying for SBA loans. The State's Congressional Delegation was instrumental in promulgating information regarding flood assistance to those affected. As of the filling of this Action Plan, \$33,708,738.04 has been provided for Individual Housing Assistance, \$3,156,624 for individual Other Needs Assistance, and \$42,921,200 in SBA assistance loans.

Non-Immediate Response to DR-1894

To date, the non-immediate response to the DR-1894 has also been primarily coordinated through RIEMA and FEMA, and has focused on:

- 1.) Using FEMA Public Assistance (PA) monies to rebuild damaged infrastructure;
- 2.) Coordination of private resources with non-profits;
- 3.) Development of municipal Hazard Mitigation Plans.

RIEMA has been extremely successful in coordinating municipal applicants for Public Assistance with FEMA technical specialists and officials. FEMA technical staff has also been effective in assisting city and town officials in conducting damage assessments on effected public facilities. To date, cooperation between local government managers and FEMA and RIEMA officials has led to the expenditure of \$7.8 million in PA on rebuilding infrastructure lost to flooding and reimbursing flood associated costs, with another \$2.6 obligated to be spent. (SEE Appendix E for PA by City/Town)

The United Way, in conjunction with RIEMA, has founded the RI Flood Recovery Fund (RIFRF), which has created a nexus for both monetary and in-kind donations and for volunteering activities. RIEMAhasfurtherh

Disaster Damage:

elpedcoordinate 71 private non-profit agencies to establish the RI Disaster Long Term Recovery Group (RIDLTRG). Using resources secured through the RIFRF, the RIDLTRG has filled the remaining unmet need, after federal assistance, for many flood victims. FEMA Federal Coordinating Officer Craig A. Gilbert stated of the RIDLTRG: "We've seen long term recovery groups form in other disaster areas, but the size of the effort seen here might have created an unprecedented recovery model that could serve as a gold standard across the nation."

Finally, RIEMA and FEMA have been aggressive in assisting units of local government in the development and updating of local Hazard Mitigation Plans (HMPs). The development of these plans will serve as a boon in two areas. First, the plans will provide a foundation for future municipal hazard mitigation activities. Second, FEMA approval of a city's HMP makes the city eligible for a number of programs under FEMA Unified Hazard Mitigation Assistance (UHMA), and allows the city to apply for disaster mitigation funds through the Hazard Mitigation Grant Program (HMGP); Rhode Island has been allotted \$11.0 million in HMGP funds.

Public Comment:

supplemental funding for buyout projects may not be known until after the selection process. Thus, awards may not be given in the initial RFP. Subsequent CBDG-DR and other funds may be allocated to this activity.

This Action Plan was revised to allow direct state administration of a planning activity (Activity #5, Flood Mitigation Study) and resubmitted on 8/1/2011. The Plan was available for public comment for 30 days, ending 10/20/2011. No comments were received.

This Action Plan was revised to allow direct state administration of a planning activity (Activity #23, Wastewater Climate Vulnerability Assessment) and resubmitted on 8/6/2013. The Plan was available for public comment for over 7 days, from 7/26/2013 to 8/5/2013. No comments were received.

This Action Plan was revised and resubmitted on 9/15/2015. Substantial amendments included allowing direct state administration of a planning activity (#29, CRMC Pawtuxet Watershed Modelling) and changing the funding allocation among



Activity Types (Housing, Property Buyouts, and Planning allocations had changes greater than 25%). The Plan was available for public comment for over 7 days, from 9/2/2015 to 9/14/2015. The comment below was received during the period.

1) Comment: I respectfully request that you consider Nuevos Horizontes when placing future public notices in order to adequately communicate public policy to non-English speaking Hispanics.

RESPONSE: The Action Plan (previously substantially amended in 2013) specified that public notification of substantial amendments would be published in the Providence Journal and Providence en Español, in English and Spanish respectively. In accordance with the Action Plan, public notices were published in both publications. Providence en Español no longer issues a print edition. It is now an online publication only. Accordingly, the Spanish language notice was published online for the length of the comment period. In light of the shift by Providence en Español from a print publication to an online publication, and comments received by Nuevos Horizontes, OHCD has amended its public participation procedures to allow for publication in Providence en Español and/or Nuevos Horizontes.

This Action Plan was revised and resubmitted on 6/28/2016. Substantial amendments included allowing direct state administration of a planning activity (#30, Scituate Reservoir Mitigation Model Recovery Plan) and changing the funding allocation among Activity Types (Planning allocation had changes greater than 25%). The following comments were received relative to the State's Amended 2010 Floods CDBG-DR Action Plan. The amended Plan was available for public comments from June 17, 2016 to June 27, 2016. Notice of availability of the amended Plan was posted in the Providence Journal and Nuevos Horizontes on June 17, 2016.

1) Comment: Please make sure that people know the difference between a parallel wave set up and perpendicular wave set up as the S [south] facing beaches can get quite a hit by an offshore "storm". Also, peoplumus

Recovery Needs:

RECOVERY PLANNING

The State of Rhode Island has been allocated \$8,935,237 in CDBG-DR Funds. Of this amount, \$446,761 (5%) will be set aside for administrative purposes. \$6,727,221 was competitively awarded to units of local government or agencies of state government, through two separate application rounds in 2011 and 2012. Beginning in 2013, the State will solicit Proposals directly from eligible applicants using one or more pre-application rounds.

In order to ensure that program requirements, as listed in FR-5452-N-01, are met, a minimum of 50% of the State's total allocation must be expended on activities producing benefit to low- and moderate-income persons. The remaining funds will be awarded to proposals that meet any of the three National Objectives. As of September 2015, the State estimates that 81% of the 2010 Floods allocation will be expended on activities that address the low/moderate income national objective.

Apart from the \$8.9 million allocation to the state, two municipalities, Cranston and Warwick, have been directly awarded \$1,277,067 and \$2,787,697 in CDBG-DR funding, respectively. State CDBG-DR funds may be awarded to these two municipalities if it is determined that disaster need in these areas warrants additional funding over the direct allocation amount.

As provided in Docket No. FR-5452-N-01, requirements at 42 U.S.C. 5306 are waived to the extent necessary to allow a state to use its disaster recovery grant allocation directly to carry out state-administered activities. The State shall directly administer four planning activities, as follows:

1. Blackstone River Flood Risk Management Study

Lead agency: OHCD has contracted with the U.S. Army Corps of Engineers to conduct this study.

Geographic area: Berkeley Industrial Park, east bank of Blackstone River, Town of Cumberland

2. Implications of Climate Change on Wastewater Infrastructure

Lead agency: R.I. Department of Environmental Management (RIDEM)

Geographic area: Statewide

3. Integrated Watershed and River Modeling of the Pawtuxet River

Lead agency: R.I. Coastal Resources Management Council (CRMC)

Geographic area: Pawtuxet River Watershed, primarily Kent and Providence Counties

4. Scituate Reservoir Mitigation Model

Lead agency: University of Rhode Island (URI)

Geographic area: Pawtuxet River Watershed, primarily Kent and Providence Counties

In the event that OHCD determines that it is the best course of action to carry out additional CDBG-DR activities through direct state administration, OHCD reserves the right to distribute OHCD funds to a State Agency, or to a direct sub-recipient of the state. If the state chooses to directly administer an activity, this will require a substantial action plan amendment.

No municipality will be awarded more than 25% (\$2.2 M) of the overall allocation.

ELIGIBLE APPLICANTS & GRANTEEES

All Rhode Island units of general local government, including CDBG "Entitlements" located in the Presidential-declared areas, and agencies of state government, are eligible to apply for CDBG Disaster Recovery funds in every activity category.

ELIGIBLE ACTIVITIES

Every activity must meet on



Recovery Needs:

tives: Benefiting Low- and Moderate-Income Persons; Preventing or Eliminating Slums or Blight; and, Meeting Urgent Needs.

Determination of Eligible Activities

Activities which will be eligible for CDBG-DR funding were determined based, generally on 1) the overall list of eligible CDBG activities, as set forth by 42 U.S.C. 5305 and other applicable federal laws and regulations, and amended by FR-5452-N-01; and 2) Preliminary proposals from municipalities.

Total Allocation for each category of activities, was based upon 1) Proportional dollars requested per category by municipalities, as a percentage of total dollars requested for all categories; and 2) The most up to date FEMA, RIEMA and HUD assessments of total disaster need (See Appendix C.2). These allocations have been updated based on the aggregate eligible requests for grant funds in each activity category received from applicants.

I. Public Facilities and Infrastructure Activities (\$5,539,654)

CDBG funds may be used for projects that will repair or rehabilitate public infrastructure and facilities damaged during the disaster. Examples include repair, rehabilitation, and replacement of water and sewer systems, streets, storm drainage, and public buildings (eligible public buildings include structures for both citizen use and local government administration). Hazard mitigation improvements are allowed only to the extent that they are factors in an otherwise allowable activity.

Maximum Award: \$2,000,000

Threshold Criteria: Project will address need arising from the March 2010 disaster and be the best alternative to resolve the need.

II. Housing Activities (\$294,472)

CDBG-DR funds may be used for assisting low- and moderate-income households with rehabilitation, clearance and demolition activities to address unmet housing needs as a result of the March 2010 Flood. Hazard mitigation improvements are allowed only to the extent that they are factors in an otherwise allowable rehabilitation activity.

Down Payment and Homeownership Assistance, as modified by Waiver #16 in FR-5452-N-01, are also eligible housing activities. Actual need under this specific activity category is unknown at this time.

Eligible Housing Activities include:

Rehabilitation of existing low- moderate income housing, damaged during the 2010 Flood.

Clearance and removal of debris on low- and moderate-income properties, and adjacent properties

Demolition of structures on low- and moderate-income properties

Down payment Assistance

Home Ownership Assistance

Maximum Award: \$500,000

Threshold Criteria: Project will address need arising from the March 2010 disaster and be the best alternative to resolve the need.

III. Economic Recovery, Stabilization, and Development Activities (\$1,509,052)

CDGB-DR funds shall be available to local businesses that suffered physical damage, to property or equipment, due to the disaster and/or loss of revenue due to the closure of a public facility or public infrastructure.

Assistance may also be given to private, for-profit entities for mitigation activities related to hazards from severe storms and flooding. This activity includes Business Relocation.

Mitigation activities

Recovery Needs:

e further to the business due to ongoing flood danger, and can be qualified under the L/M Income Jobs or other Nive.

Maximum Award: \$1,509,052

Funds will be distributed to sub-grantees, who will then distribute funds to business owners, based on the below criteria.

Threshold Criteria:

Capability and experience with business assistance programs, esp. disaster relief

Commitment to use the following criteria for assistance to individual businesses:

Business suffered documented physical damage or economic loss due to the March, 2010 disasters.

Receipt of a disaster loan from, or evidence of application to the U.S. Small Business Administration (SBA), a financial institution, or an economic development corporation or other equivalent types of loans.

Commitment to re-open business (if closed) within 12 month of receipt of assistance

Commitment to not award any entity assistance in excess of its unmet need, and to follow provisions of the Stafford Act regarding duplication of benefits

IV. Property Buyout Activities (\$319,408)

CDGB-DR funds shall be available to assist residential property owners with the leveraging of other funds to facilitate voluntary buyouts of flood-damaged housing units in repetitive flood areas.

Funds may be distributed to Residential buyout projects that provide for the buyout of both L/M Income and above L/M Income residences.

Projects will be qualified under either L/M Income Area Benefit, or Urgent Need, depending on the use of the land following a buy-out.

CDGB-DR funds shall also be available to assist commercial property owners with the leveraging of other funds to facilitate voluntary buyouts of flood-damaged units in repetitive flood areas. Commercial property buyouts must be eligible under a National Objective, likely Urgent Need or L/M Income Jobs.

Threshold & Evaluative Criteria: Buyout Projects will be evaluated and funded based on the following criterion:

Commitment of the applicant to property buyouts through another program and funding source

Documented loss among properties in the buy-out area

Any restrictions (deed, otherwise) on the future development of the property

Appraised value of the property (pre/post disaster) in the buyout proposal.



Coordination with local Planning/Building agencies, or other regulatory groups
Conformance to regulatory provisions in the Stafford Act.
Maximum Award: No Maximum

V. Planning Activities (\$825,890)

Assistance may be given for the development of Disaster Recovery or Hazard Mitigation policy-planning capacity. Disaster recovery planning includes floodplain management measures through mapping, zoning/building code ordinance revisions, floodplain ordinances, drainage basin studies directly related to impacts of the disaster, infrastructure and engineering studies necessary for disaster recovery and mitigation, and updating building requirements. All planning activities should relate to need related to the March 2010 disaster. Funds may be used to develop new floodplain maps and to update and improve existing maps.
Maximum Award: No Maximum

VI. Public Service Activities (\$0)

CDBG funds may be used for projects that provide public services to disaster recovery, if successful.

Recovery Needs:

not been provided by the unit of general local government, or are required, as a result of the March 2010 disaster. The City of Providence will address need arising from the March 2010 Floods.

VII. Administration (\$446,761)

State administration including sub-grantee administration will include direct personnel expenses (salary and fringe benefits), direct and indirect expenses, equipment, consultants, and other operating expenses involved in selection, funding, assisting, and monitoring sub-grantee projects, detailed quarterly reporting to HUD, and documentation of adherence to all laws and regulations.

PROJECT SELECTION

OHCD staff will verify that a Project Proposal fulfills at least one CDBG national objective, and meets threshold and eligibility requirements as articulated by the Application or Pre-Application, and that CDBG-DR funds are the best available resource for implementation of the Proposal. Proposals that meet these criteria will be reviewed by the Steering Committee (the Committee).

OHCD staff will prepare Reviews of each eligible Proposal for the Committee, which will include: Summary of the Proposal, quantitative metric data for each Proposal, CDBG Needs Assessment, qualitative analysis of the Proposal's feasibility, impact and other criteria, and the National Objective fulfilled by the Proposal.

Proposals will be selected by the Committee. Selected Proposals from the application rounds will proceed to contract discussions. Selected Proposals from pre-applications shall proceed to the application stage. OHCD shall review completed applications from pre-applications selected by the Committee. Barring indications of program ineligibility, or significant changes to the proposed activities, selected pre-application Proposals will then proceed to contract discussions, without additional review by the Committee. The Committee will be comprised of representatives from OHCD, RIEMA, the RI Economic Development Corporation, the Division of Planning, the Department of Transportation, and the Governor's Office.

Proposals will be competitively evaluated. The members of the Committee will independently give each project a numeric score; awards will be given to the projects in each group with the highest average score. In reviewing an application or pre-application and awarding a grant, the State may eliminate or modify a proposed activity or modify proposed funding where it is determined that such changes are necessary to comply with program requirements, national objectives, and threshold requirements, or where certain activities are not competitive in relation to other Proposals under review.

Factors the Committee will consider in evaluating Proposals include but are not limited to the following:

- Disaster Recovery need in the area (municipality, county, or region) the Proposal will effect. Disaster need assessment will be based on the most current data at the time of review of Proposals
- The Applicant's capacity and experience in implementing activities comparable to their Proposal
- The Feasibility and Impact of the Proposal, relative to other received Proposals
- Integration with other funding sources through leveraging
- Timeliness of Project implementation

Recovery Needs:

>CDBG Needs Assessment

Threshold criteria, prioritization of funding, and Proposal scoring methodology will be detailed in the Application, Pre-Application, or appended materials.

Public Comment:

No written comments were received relative to the State's Draft Community Development Block Grant - Disaster Recovery (CDBG-DR) Action Plan. The Plan was available for public comment from December 17, 2010 to December 28, 2010. Notice of availability of the draft plan was posted in the Providence Journal and Providence en Espanol on December 17, 2010. Following are several informal verbal comments received during this period.

- 1) Comment: Does the map on Page 8 show the allocation that each Unit of Local Government will receive through the CDBG-DR?



RESPONSE: NO - The Map on Page 8 of the Action Plan shows FEMA Individual Assistance distributed to affected individuals as an immediate response to the disaster. This map is solely to demonstrate the approximate need level of municipalities. There is no set allocation per unit of local government for the CDBG-DR program. Funds will be distributed to communities for specific projects through a competitive RFP process. Clarification has been added to the page.

2) Comment: How will the Awards/Selection process work, given that the program must distribute 50-70% of funds to programs with LMI benefit, and must also meet funding ranges for activity types (i.e. 0-20% Business Assistance, 50-70% Infrastructure)?

RESPONSE: The Selection and awards process will be detailed in the Application Handbook and RFP, to be issued after HUD approval of the State's Action Plan; the RFP and Handbook is estimated to be available in March 2011.

Generally, an Application Steering Committee will develop award recommendations, factoring program requirements (including LMI percentage) and program activity goals. The Steering Committee, during the selection phase, will likely first award 60% of funds to the most competitive projects which also fulfill the National Objective of benefit to LMI individuals. The remaining funds will be awarded to the most competitive projects, regardless of the National Objective they fulfill.

Within each category of activity (Housing, Infrastructure, Buyouts, etc.), the percentage of funds that will be distributed to projects that fulfill the LMI benefit Objective and to projects that fulfill other National Objectives will be determined largely on the type and characteristics of proposals that the OHCD receives.

3) Comment: The Action Plan allocates \$893,523 (10%) for buyout activities. The overall interest in buyout activities among municipalities is likely greater than \$10 million dollars. Could the amount be adjusted?

RESPONSE: If actual need for buyout activities, based on competitive proposals received, exceeds the preliminary estimates for allocation, the State may amend its action plan.

Due to the generally high cost associated with this activity, buyouts will likely need supplemental / leveraged funding in order to be financially feasible, as noted on Page (11) of the Action Plan. All proposals will be considered at

Public Comment:

I know what stage of the tide is at when the "surge" arrives.

RESPONSE: The Coastal Resources Management Council (CRMC) and other agencies are actively assessing the impacts of storm surge events on Rhode Island's coastline through projects such as the BeachSAMP, shoreline change mapping, and the Coastal Environmental Risk Index. CDBG-DR funds have been awarded to support some of those efforts. CRMC, in partnership with URI, is also seeking to model the impacts of combined storm surge and riverine flooding in tidal rivers.

This comment also pertains to the Hurricane Sandy CDBG-DR Action Plan. It will be included in the comment section of that plan as well.

2) Comment: Is additional assistance available for families still struggling to recover from the 2010 Floods?

RESPONSE: At this time, the 2010 Floods CDBG Disaster Recovery funds are fully obligated.

If you currently need assistance, please contact:

2-1-1 by dialing 211; or

The Help Center at Rhode Island Housing, 401-457-1130 (for homeowners at risk of foreclosure); or

Your local community action program (CAP). Contact information for CAP agencies is available

at <http://www.ricommunityaction.org/agencies.asp>.

Federal assistance applications deadlines for the 2010 Floods have passed. If you have questions about your existing SBA loan, contact your SBA loan officer or SBA's Customer Service Center at 1-800-659-2955. Have your loan number available when you call.

Overall	This Report Period	To Date
Total Projected Budget from All Sources	N/A	\$8,935,237.00
Total Budget	\$0.00	\$8,935,237.00
Total Obligated	\$757.78	\$8,935,237.00
Total Funds Drawdown	\$41,344.50	\$7,327,152.79
Program Funds Drawdown	\$41,344.50	\$7,327,152.79
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$41,344.50	\$7,327,152.89
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$72,900.00	\$7,553,315.07



Progress Toward Required Numeric Targets

Requirement	Required	To Date
Overall Benefit Percentage (Projected)		94.55%
Overall Benefit Percentage (Actual)		96.45%
Minimum Non-Federal Match	\$0.00	\$7,553,315.07
Limit on Public Services	\$1,340,285.55	\$0.00
Limit on Admin/Planning	\$893,523.70	\$871,824.75
Limit on State Admin	\$0.00	\$385,647.20
Most Impacted and Distressed Threshold (Projected)	\$0.00	\$0.00

Progress Toward Activity Type Targets

Progress Toward National Objective Targets

Overall Progress Narrative:

The State continues to provide a significant amount of technical assistance on an ongoing basis via telephone and email, particularly with regard to federal labor standards. This quarter, OHCD has worked closely with East Providence and West Warwick to move projects forward in a timely manner. OHCD also consulted with HUD and DOL on a labor standards compliance issue. Contract extensions to remaining Floods projects include timeline benchmarks with continued funding tied to performance. One activity was monitored this quarter.

Project Summary

Project #, Project Title	This Report Period	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
1, Administration	\$17,375.91	\$446,761.00	\$385,647.20
2, Public Facilities and Improvements	\$0.00	\$5,539,653.77	\$4,332,396.13
3, Housing Rehabilitation	\$0.00	\$294,472.08	\$294,472.08
4, Economic Recovery	\$0.00	\$1,509,051.64	\$1,509,051.64
5, Property Acquisition	\$0.00	\$319,408.19	\$319,408.19
6, Planning	\$23,968.59	\$825,890.32	\$486,177.55

Activities

Project # / Title: 1 / Administration

Grantee Activity Number: 1a
Activity Title: State Administration

Activity Category:

Administration

Project Number:

1

Projected Start Date:

03/29/2010

Benefit Type:

()

National Objective:

N/A

Activity Status:

Under Way

Project Title:

Administration

Projected End Date:

12/31/2017

Completed Activity Actual End Date:

Responsible Organization:

State of Rhode Island2

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$431,761.00
Total Budget	\$0.00	\$431,761.00
Total Obligated	\$0.00	\$431,761.00
Total Funds Drawdown	\$17,375.91	\$370,647.20
Program Funds Drawdown	\$17,375.91	\$370,647.20
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$17,375.91	\$370,647.20
State of Rhode Island1	\$17,375.91	\$42,364.47
State of Rhode Island2	\$0.00	\$328,282.73
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Activities were varied and related to the disasters which occurred in March, 2010. Activities range from infrastructure improvements, business assistance, residential rehabilitation and planning.

Budget increased by \$88,141 as a result of the transfer of activity delivery costs previously budgeted as local administration (Activity 1b) to non-admin activities, per guidance provided by HUD during June 2014 monitoring visit.

June 2015: Budget increased by \$44,319.44 as a result of the transfer of activity delivery costs previously budgeted as local administration (Activity 1b) to non-admin activities, per guidance provided by HUD during June 2014 monitoring visit.

November 2015: Budget increased by \$7,540 as a result of the transfer of activity delivery costs previously budgeted as local administration (Activity 1b) to non-admin activities, per guidance provided by HUD during June 2014 monitoring visit.



Location Description:

State offices are located at One Capitol Hill - 3rd Floor, Providence, Rhode Island. Local programs will be administered through local Town offices.
Disaster declaration was statewide. Activities funded are distributed throughout the State.

Activity Progress Narrative:

The State continues to provide a significant amount of technical assistance on an ongoing basis via telephone and email, particularly with regard to federal labor standards. This quarter, OHCD has worked closely with East Providence and West Warwick to move projects forward in a timely manner. OHCD also consulted with HUD and DOL on a labor standards compliance issue. Contract extensions to remaining Floods projects include timeline benchmarks with continued funding tied to performance. One activity was monitored this quarter.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Project # / Title: 2 / Public Facilities and Improvements

Grantee Activity Number: 14

Activity Title: Johnston, Pump Stations

Activity Category:

Rehabilitation/reconstruction of a public improvement

Project Number:

2

Projected Start Date:

09/07/2011

Benefit Type:

Area ()

Activity Status:

Under Way

Project Title:

Public Facilities and Improvements

Projected End Date:

12/31/2017

Completed Activity Actual End Date:



National Objective:

Low/Mod

Responsible Organization:

Town of Johnston

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$431,902.00
Total Budget	\$0.00	\$431,902.00
Total Obligated	\$0.00	\$431,902.00
Total Funds Drawdown	\$0.00	\$45,658.68
Program Funds Drawdown	\$0.00	\$45,658.68
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$45,658.68
Town of Johnston	\$0.00	\$45,658.68
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Two Johnston sewer pump stations were inundated during the March 2010 Floods. The Town originally received CDBG-DR funds for a feasibility study to evaluate options such as floodproofing, elevating, or relocating the pump stations. The Town completed the study of the sewer pump stations and selected an alternative to implement.

The selected alternative is to relocate two sewer pump stations out of the 100 year floodplain and re-route nearby sewer pipes. The Town requested CDBG-DR funds to implement the selected alternative. OHCD approved the request, and after discussions with the Town, amended the original activity scope and budget to include implementation. This activity now includes relocation of two sewer pump stations and re-routing of sewer pipes.

The projected end date has been extended. FEMA has issued new advisory flood maps with changes to base flood elevation that affect the design of this project. The Town has requested an extension as a result of the new base flood elevations.

June 2015: Budget increased by \$12,565 to include ADCs.

November 2015: Projected end date extended. Project delayed due to changes to FEMA flood maps in the service area and issues obtaining easements. The Town has now obtained the necessary easements.

Location Description:

River Drive and South Bennett Drive (AKA Lafazia Drive), Johnston, RI.

Activity Progress Narrative:

Construction is complete. The Town has indicated that the contractor has been paid. After consultation with HUD and DOL, OHCD reinstated the CDBG-DR contract with the Town for this activity. Labor standards issues remain under review. As of the end of the quarter, no funds had been drawn down, since no request for payment was received from the Town. The U.S. Department of Labor has initiated an investigation into labor standards compliance on this project.

Accomplishments Performance Measures**No Accomplishments Performance Measures**

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number: 26

Activity Title: Coventry, Industrial Drive Culverts

Activity Category:

Rehabilitation/reconstruction of a public improvement

Activity Status:

Planned

Project Number:

2

Project Title:

Public Facilities and Improvements

Projected Start Date:

04/01/2014

Projected End Date:

12/31/2016

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Urgent Need

Responsible Organization:

Town of Coventry

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$189,049.00
Total Budget	\$0.00	\$189,049.00
Total Obligated	\$0.00	\$189,049.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Town of Coventry	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Repair and/or replacement of culverts along Industrial Drive, south of route 117 (Flat River Road). The March 2010 Floods overwhelmed the Industrial Drive drainage system, resulting in the flooding of Flat River Road and Industrial Drive. The flooding took several days to subside enough to make the roads passable.

This is a round three activity, awarded in 2013 with contract execution in early 2014.

November 2015: The projected end date has been extended. The project was delayed due to a financing gap. The Town has now obtained a commitment of additional grant funds from FEMA/RIEMA.

Location Description:

Industrial Drive, south of Route 117 (Flat River Road) in Coventry, R.I.

Activity Progress Narrative:

This project has been cancelled. The activity status will be changed in DRGR in the next quarter.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/100

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number: 31

Activity Title: Shippee Avenue Green Infrastructure

Activity Category:

Rehabilitation/reconstruction of a public improvement

Activity Status:

Planned

Project Number:

2

Project Title:

Public Facilities and Improvements

Projected Start Date:

01/01/2017

Projected End Date:

12/31/2018

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Low/Mod

Responsible Organization:

Town of West Warwick

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$200,305.32
Total Budget	\$0.00	\$200,305.32
Total Obligated	\$0.00	\$200,305.32
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
State of Rhode Island2	\$0.00	\$0.00
Town of West Warwick	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Stormwater green infrastructure improvements to reduce the peak stormwater flow rate and runoff volume downhill of Shippee Avenue. Planned improvements include a bioretention basin, a linear bioretention basin on a roadway bump out, and a subsurface sidewalk storage system.

The area of Shippee Avenue and south to Washington Street had major flooding issues during the 2010 Floods. Streets, homes, and businesses all sustained damage due to flood waters. Fire Dept. records show a minimum of ten water/flood calls in this neighborhood during the 2010 Flood event.

Location Description:

Shippee Avenue neighborhood in West Warwick. Green infrastructure improvements to be installed along Shippee Ave and nearby streets to the north (uphill), to benefit Shippee Ave and nearby streets to the south (downhill).

Activity Progress Narrative:

This quarter, there were some staffing changes at the Town. The Town has missed some performance benchmarks. In order to assess current local capacity, OHCD requested additional information from the Town in a June 6 memo, and will follow up with a meeting in the next quarter.



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	6
Activity Title:	East Providence, State Street Infrastructure

Activity Category: Construction/reconstruction of streets	Activity Status: Planned
Project Number: 2	Project Title: Public Facilities and Improvements
Projected Start Date: 08/01/2013	Projected End Date: 12/31/2017
Benefit Type: Area ()	Completed Activity Actual End Date:
National Objective: Low/Mod	Responsible Organization: City of East Providence

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$431,660.00
Total Budget	\$0.00	\$431,660.00
Total Obligated	\$0.00	\$431,660.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
City of East Providence	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Predevelopment, design, construction/reconstruction of culverts and other improvements to the stormwater infrastructure under Warren Avenue in the State Street neighborhood, a predominately low/moderate income area. These improvements will correct damage and prevent future flooding in an area heavily damaged by the March 2010 Floods.

This was originally submitted as a single activity with a budget of \$600,000 plus \$15,000 in local admin (Activity 1b). The City decided to split it into 2 activities, or 2 phases in the same general location. The first is for river bank repairs for \$105,000 (removal of invasive species, debris and non-structural improvements to flow). That project is now under activity 25 in DRGR, with a budget of \$105,000, including activity delivery costs. The second is replacing and/or enlarging the culverts under State Street with a budget of \$510,000, including activity delivery costs. This remains activity 6 in DRGR.

The combined budgets of Activities 6 and 25 have been increased to include activity delivery costs previously budgeted as local administration (Activity 1b), per guidance provided by HUD during June 2014 monitoring visit.

November 2015: The projected end date has been extended as a result of delays.

January 2017: Budget decreased from \$510,000 to \$431,660, due to limitations on expenditures outside of the eligible jurisdiction.

Location Description:



Census Tract - 103, Block Group - 2, Warren Avenue.

The service area is located in the east central portion of East Providence, within Providence County in the State of Rhode Island, bounded by Waterman Avenue to the south, Almeida Avenue to the west, Seekonk Massachusetts border to the east. The principle drainage features in the area are the Runnins River, which bound the eastern boundary of the area and flows in a southern direction, and its unnamed tributary, which flows along the northern portion of the study area and converges with the Runnins River in Mass., at a point just east of the study area.

Activity Progress Narrative:

One abutting property owner has refused to grant a temporary construction easement across the property, causing additional delays. All easements must be in place prior to submitting the wetlands permit application to RIDEM. The City met with OHCD on June 20th to discuss options for completing the project. OHCD will follow up with the City in writing in July regarding continued eligibility for CDBG-DR funding.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Project # / Title: 6 / Planning

Grantee Activity Number: 23

Activity Title: Wastewater Climate Vulnerability Assessment

Activity Category:

Planning

Project Number:

6

Projected Start Date:

10/01/2013

Benefit Type:

Area ()

Activity Status:

Under Way

Project Title:

Planning

Projected End Date:

06/30/2017

Completed Activity Actual End Date:

04/20/2017



National Objective:

N/A

Responsible Organization:

State of Rhode Island, Dept. of Environmental

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$150,000.00
Total Budget	\$0.00	\$150,000.00
Total Obligated	\$0.00	\$150,000.00
Total Funds Drawdown	\$0.00	\$150,000.00
Program Funds Drawdown	\$0.00	\$150,000.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$150,000.00
State of Rhode Island, Dept. of Environmental	\$0.00	\$150,000.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$72,900.00	\$72,900.00

Activity Description:

An assessment of statewide wastewater collection and treatment vulnerability to flooding and climate change. These assessments would seek to predict, plan for, and if possible mitigate wastewater system flooding and related impacts as experienced in 2010.

The flooding of 2010 resulted in the submergence of two major wastewater treatment facilities - one in Warwick, which treats about 3.5 million gallons per day and the other in West Warwick, which treats some 5.2 million gallons. The Cranston WPCF experienced partial flooding of the facility site and limited structural flooding. The resulting repair costs were approximately \$25 million. In addition, two major pumping stations were submerged (Cranston's Pontiac Pumping Station and Westerly's New Canal Pumping Station). These station failures resulted in sewage overflows and backups until crews could establish bypass pumping and, in time, make lengthy repairs. Statewide, numerous smaller stations were also submerged or over taxed. These failures required communities to either establish bypass pumping systems or pay for continuous septage hauling to pump down incoming wastewater and transport it overland to the wastewater treatment facility until crews could repair the stations. DEM's Office of Water Resources logged in 55 reported system failures or overflows between the flooding of March 14/15 2010 and March 30/31 2010. Some of these events were in actuality regional failures or overflows, which, if able to be tallied, would increase the total number of known, discrete overflows, etc.

The purpose of these assessments is to use existing data and reports (especially those specific to Rhode Island and the Northeast, such as work done by the RI Department of Health's drinking water section) to meet the following needs: (i) summarize the current state of climate change science and (ii) use this information to characterize potential impacts on Rhode Island's wastewater collection and treatment infrastructure and to develop strategies that can prevent damage as that experienced in March 2010. Such assessments will use data gathered from previous events, most especially the March 2010 flooding, as benchmarks to better understand threats to wastewater systems as well as strategies to address these threats.

March 2015: The budget has been increased by \$4,395, the amount currently available in the DRGR Planning Project. In the summer of 2015, OHCD will increase the activity budget to \$150,000, in concert with other Action Plan changes.

OHCD approved a scope change and budget increase of \$50,000. The scope is expanded to include modeling of inland flooding and development of new statewide maps depicting expanded inland flooding zones, based on flood elevations at 2-ft and 3-ft above the existing 100-yr floodplain and independent validation using stream gauge data and modeling studies.

May 2015: The budget has been increased to \$150,000. See above. This activity budget increase required funds to be shifted from the PF&I project to the Planning project.

June 2015: National objective corrected to be NA, not Urgent Need (planning activity).

Location Description:

Statewide study of wastewater collection and treatment infrastructure. This infrastructure directly collects and treats sewage from 70% of Rhode Island's residents and businesses via public sewers.



Wastewater infrastructure within the scope of this project includes: (i) the nineteen major wastewater treatment facilities (see Map C.1); (ii) vulnerable wastewater collection systems that service these nineteen treatment facilities, including any major wastewater collection pumping stations or wastewater collection lines that may be prone to flooding or storm surge; and (iii) the Narragansett Bay Commission's Combined Sewer Overflow tunnel system.

Activity Progress Narrative:

Closed out effective 4/20/17.

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of Plans or Planning Products	1	1/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 24

Activity Title: Johnston, Starr St. Flood Mitigation Study

Activity Category:

Planning

Activity Status:

Under Way

Project Number:

6

Project Title:

Planning

Projected Start Date:

08/01/2011

Projected End Date:

12/31/2015

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

N/A

Responsible Organization:

Town of Johnston

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$15,605.00
Total Budget	\$0.00	\$15,605.00
Total Obligated	\$0.00	\$15,605.00
Total Funds Drawdown	\$0.00	\$15,605.00
Program Funds Drawdown	\$0.00	\$15,605.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$15,605.00
Town of Johnston	\$0.00	\$15,605.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The purpose of the project was to conduct a flood mitigation feasibility study of an unnamed brook/wetland area between Venice Avenue and Starr Street. This area experienced significant flooding and road closures during the 2010 Floods. Changes to the flow conveyance of stormwater required permission (easements) from private property owners. The study assessed the legal, logistical, and environmental feasibility of flood mitigation measures in this area. As a result of this study, municipal flood mitigation measures in this area were deemed infeasible.

This activity is linked to canceled Activity #7, Johnston, Starr Street Drainage. Activity 7 was canceled and this activity as a result of the Town's determination Activity #7 was infeasible, due to the outcome of the environmental review and preliminary feasibility study.

OHCD expects to close out this activity in the next quarter.

Location Description:

Census Tract - 125, Block Group 2 (3052 total people; 1580 (51.8%) LMI).

Area bounded by Mill Street to the south, Venice Avenue to the west, Delucia Street to the east and Water Street to the north.

The project includes a segment of an unnamed brook which is tributary to Simmons Brook downstream to the Mill Street bridge. The Starr Street area is a mixed residential/industrial neighborhood that is typical of the development in the area.



Activity Progress Narrative:

The Town has been requested to forward closeout documentation to OHCD.

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of Plans or Planning Products	0	0/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number: 29

Activity Title: CRMC, Pawtuxet Watershed Modelling

Activity Category:

Planning

Activity Status:

Under Way

Project Number:

6

Project Title:

Planning

Projected Start Date:

11/01/2015

Projected End Date:

09/30/2017

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

N/A

Responsible Organization:

State of Rhode Island, Coastal Resources Management

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$175,059.00
Total Budget	\$0.00	\$175,059.00
Total Obligated	\$0.00	\$175,059.00
Total Funds Drawdown	\$23,968.59	\$110,346.23
Program Funds Drawdown	\$23,968.59	\$110,346.23
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$23,968.59	\$110,346.33
State of Rhode Island, Coastal Resources Management	\$23,968.59	\$110,346.33
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Flooding is currently ranked as one of RI's most devastating natural hazards, as demonstrated in the State's Hazard Mitigation Plan. During the 2010 Floods, inland and riverine flooding closed Interstate 95, shut down critical facilities, including major wastewater treatment facilities and electricity substations, and inundated residences and businesses.

CRMC and URI Ocean Engineering Dept. will develop an operational, spatially distributed hydrological/ hydraulic model for the Pawtuxet watershed and river, which include the river structure and geometry, to allow an analysis of the historical behavior of the watershedriver system. The model and analysis will include the Scituate Reservoir. The model will map the flood extent, continuously, for the river floodplain during the past events and for specific scenarios (e.g., 25yr event). This tool will then be used for recommendations with regard to mitigation and planning of flooding. The project will be a stepping stone for a real time forecasting tool, which not only predicts the stage levels at selected locations, but also the areas that are predicted to be inundated.

The planning product will be a GIS based map of the flood extent in the Pawtuxet River and Watershed for multiple storm/precipitation scenarios.

December 2015: The scope has been expanded to include analysis of the effect of river structures such as gates and dams on flood regulation. Dams and other hydraulic structures will be modeled. The budget has been increased from \$149,970 to \$175,059 to cover the increased scope.

Location Description:

Pawtuxet watershed and river, including the Scituate Reservoir. Primarily in Kent and Providence Counties.



Activity Progress Narrative:

This quarter, the project team refined the model on the STORMTOOLS ArcGIS online map viewer platform for public accessibility and use at: <http://edc.maps.arcgis.com/home/webmap/viewer.html?webmap=d025e9fc58ae440a88b5ce590ddfa4cd>. In addition, a draft final technical report was completed. A Steering Committee meeting was held on June 1 at the URI GSO campus. The project team presented its findings and recommendations and the Steering Committee provided helpful input for preparation of the final report (expected by 8/15/17). The URI project team presented the Pawtuxet River model and findings at the American Society of Civil Engineers (ASCE) Environmental & Water Resources Congress meeting May 21-25, 2017 with a project poster available online at: <https://drive.google.com/file/d/0B8R4ypixddoTcjRfbGtRZWlmdEk/view?usp=sharing>.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Plans or Planning Products	0	0/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	30
Activity Title:	URI, Scituate Reservoir Mit Model Recovery Plan

Activity Category:

Planning

Project Number:

6

Projected Start Date:

09/01/2016

Benefit Type:

Area ()

National Objective:

N/A

Activity Status:

Planned

Project Title:

Planning

Projected End Date:

12/31/2018

Completed Activity Actual End Date:

Responsible Organization:

State of Rhode Island2

Overall	Apr 1 thru Jun 30, 2017	To Date
Total Projected Budget from All Sources	N/A	\$275,000.00
Total Budget	\$0.00	\$275,000.00
Total Obligated	\$757.78	\$275,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
State of Rhode Island2	\$0.00	\$0.00
University of Rhode Island	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Disaster recovery planning includes floodplain management measures through mapping, zoning/building code ordinance revisions, floodplain ordinances, drainage basin studies directly related to impacts of the disaster, infrastructure and engineering studies necessary for disaster recovery and mitigation, and updating building requirements. All planning activities must address needs/impacts resulting from the March 2010 disaster.

Funds may be used to develop new floodplain maps and to update and improve existing maps.

Disaster recovery planning activities must provide long-term utility.

August 2016: Funds have been awarded to the University of Rhode Island for the Scituate Reservoir Mitigation Modeling Project. This study will investigate the concept of retrofitting the Scituate Reservoir spillway at the Gainer Dam to determine if it is feasible to release water prior to large storm events to create storage capacity within the Reservoir and reduce downstream flooding along the Pawtuxet River. This study involves developing and/or integrating models of 1) Scituate Reservoir impacts on drinking water supply, and 2) downstream Pawtuxet River flooding. Spillway management at the Gainer Dam has the potential to negatively impact water supply, or safe yield. Therefore, this study is designed to identify opportunities for downstream flood mitigation via spillway management without adverse impacts on safe yield. The final report will include sections on data, technical information on the safe yield simulation model, safe yield analysis, scenario selection, and analysis of spillway management alternatives.

January 2017: Budget adjusted from \$274,242 to \$275,000 to match the contract amount. The original DRGR



amount was limited by pending minor budget adjustments to other activities in DRGR.

Location Description:

Rhode Island communities/watersheds that experienced significant flood impacts during the 2010 Floods, such as damages to residential and commercial structures, infrastructure, natural resources, or public assets.
August 2016: The Scituate Reservoir and Pawtuxet River watershed, located in Providence and Kent counties.

Activity Progress Narrative:

Data/Model Acquisition, initial model development and model verification on EXCEL and OASIS has been completed. Reservoir inflow predictions are being done using a probabilistic approach. The URI team presented an oral presentation at the New England Lake Conference 2017 titled "OASIS model application to optimize water availability in the Scituate reservoir." On June 19, a webinar talk on Technique of incorporating probabilistic hydrologic forecasts into operating rules for use in managing flood flows was given by Dan Sheer, President of Hydrologics. The talk was attended by experts from National Weather Service, Providence Water Supply Board, Rhode Island Department of Transportation, Rhode Island Water Resource Board and Coastal Resource Management Council along with University of Rhode Island and Hydrologics representatives.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Monitoring, Audit, and Technical Assistance

Event Type	This Report Period	To Date
Monitoring, Audits, and Technical Assistance	1	17
Monitoring Visits	1	14
Audit Visits	0	0
Technical Assistance Visits	0	1
Monitoring/Technical Assistance Visits	0	2
Report/Letter Issued	1	16



