

Grantee: Rhode Island

Grant: B-10-DF-44-0001

July 1, 2018 thru September 30, 2018 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 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.

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.

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 the State's economic situation.

Recovery Needs:

Rhode Island is committed to a two tier Recovery Planning strategy, as reflected in the eligible activities under this Action Plan; Short Term strategies, to identify and address needs resultant from flood damage, and Long-Term strategies, to implement mitigation improvements and projects to lessen the destruction from similar disasters in the future. OHCD hopes to use CDBG-DR as the non-federal match to leverage funding for disaster recovery projects conducted by the US Army Corps of Engineers (USACE), RIEMA, and other state entities.

Short and Long Term Recovery Strategies



Short term strategies are focused on 'making whole' effected individuals, businesses and municipalities. 'Short Term' projects funded or leveraged through CDBG-DR funds will include financial assistance to businesses which lost crucial assets or operating revenue as a result of the flood; assistance to individuals with eligible unmet need; repairs, rehabilitation and debris removal programs for effected private property; and assistance to municipalities for repairs to damaged infrastructure and the provision of public services necessary as a result of the flood.

Long term strategies are focused on improving Rhode Island's ability to cope with future disasters, and attempting to mitigate long term negative impacts through the strategic awarding of funds. Chief among these initiatives are the installation of hazard mitigation factors in conjunction with rehabilitation of infrastructure and residences affected by the March 2010 flood, and the use of CDBG-DR funds for leveraging the buyout of flood-zone properties by other state programs. In awarding funds, the CDBG-DR steering committee will also consider negative consequences that can manifest and increase in the long term, if specific disaster needs are not met.

Leveraging Strategy

OHCD believes that coordination of all Disaster Recovery programs in the state is necessary to achieve the best possible result. OCHD has coordinated with RIEMA, to confer on joint funding of both Public Assistance (10% match requirement) and Hazard Mitigation projects (25% match requirement), and the USACE, to discuss match funding for large scale regional hazard mitigation projects. When Economic Development Agency monies, as mentioned in the Supplemental Appropriations Act-2010, become available, OHCD will incorporate this resource into the overall joint-funding strategy.

Fifteen municipalities and multiple state agencies have submitted applications. These 15 municipalities include the 5 most severely effected cities, and total damage and need among these municipalities is estimated to account for more than two thirds of the state total. The eligible activities and allocation amounts this Action Plan articulates were informed by these responses, as well as disaster and assistance data received from RIEMA, FEMA, SBA and HUD.

Public Comment:

The Rhode Island OHCD will post a draft action plan for the use of the funds, and any substantial amendment to the plan as described above, on the website for a period of not less than (7) calendar days; public comments will be accepted during this time.

Adequate notification will be given to local and regional Planning Commissions and units of local government, and a Notice of Posting for public comments will be published in the following media, in both English and Spanish:

The Providence Journal
75 Fountain Street
Providence RI, 02902

Providence en Español or
45 Meadow View Blvd.
North Providence, RI 02904
(online only)

Nuevos Horizontes or
34 Sherwood Avenue
North Providence, RI 02911
(print only)

America News en Español
570 Broad Street, Suite 302
Providence, RI 02907

All comments will be reviewed and incorporated into the draft plan for submission to HUD.

E-mail your comments to Laura.Sullivan@doa.ri.gov or mail your comments to:

Laura Sullivan, CDBG-DR Program Manager
Office of Housing and Community Development
One Capitol Hill, 3rd Floor
Providence, RI 02908

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	\$0.00	\$8,935,237.00
Total Funds Drawdown	\$16,063.91	\$7,932,210.15
Program Funds Drawdown	\$16,063.91	\$7,932,210.15
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$16,063.91	\$7,932,210.25
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$7,719,238.07



Progress Toward Required Numeric Targets

Requirement	Target	Actual
Overall Benefit Percentage (Projected)		96.89%
Overall Benefit Percentage (Actual)		96.65%
Minimum Non-Federal Match	\$0.00	\$7,719,238.07
Limit on Public Services	\$1,340,285.55	\$0.00
Limit on Admin/Planning	\$1,787,047.40	\$1,090,645.79
Limit on Admin	\$446,761.85	\$417,055.10
Most Impacted and Distressed Threshold (Projected)	\$0.00	\$0.00

Overall Progress Narrative:

The State continues to provide a significant amount of technical assistance to grantees on an ongoing basis via telephone and email. OHCD has continued to work closely with West Warwick to move its project forward in a timely manner.

Funds remain fully obligated to activities. The final projects are underway, with additional draws expected in the next quarter.

Project Summary

Project #, Project Title	This Report Period	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
1, Administration	\$1,648.74	\$446,761.00	\$417,055.10
2, Public Facilities and Improvements	\$0.00	\$5,244,886.24	\$4,718,632.45
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	\$14,415.17	\$1,120,657.85	\$673,590.69



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:

09/30/2019

Completed Activity Actual End Date:

Responsible Organization:

State of Rhode Island2

Overall

Total Projected Budget from All Sources

Jul 1 thru Sep 30, 2018

N/A

To Date

\$431,761.00

Total Budget

\$0.00

\$431,761.00

Total Obligated

\$0.00

\$431,761.00

Total Funds Drawdown

\$1,648.74

\$402,055.10

Program Funds Drawdown

\$1,648.74

\$402,055.10

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$1,648.74

\$402,055.10

State of Rhode Island1

\$0.00

\$0.00

State of Rhode Island2

\$1,648.74

\$402,055.10

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 to grantees on an ongoing basis via telephone and email. OHCD has continued to work closely with West Warwick to move its project forward in a timely manner.

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:	31
Activity Title:	Shippee Avenue Green Infrastructure

Activity Category:

Rehabilitation/reconstruction of a public improvement

Project Number:

2

Projected Start Date:

01/01/2017

Benefit Type:

Area ()

Activity Status:

Planned

Project Title:

Public Facilities and Improvements

Projected End Date:

12/31/2018

Completed Activity Actual End Date:



National Objective:

Low/Mod

Responsible Organization:

Town of West Warwick

Overall	Jul 1 thru Sep 30, 2018	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:

The Town received a PY 2017 CDBG award in the amount of \$500,000 to cover the difference between the pre-bid cost estimate and the low bid received. Construction is underway. OHCD attends construction meetings on a monthly basis, and has provided ongoing technical assistance pertaining to Federal Labor Standards compliance.

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: 34

Activity Title: Bristol, Tanyard Culvert 2a

Activity Category:

Rehabilitation/reconstruction of a public improvement

Project Number:

2

Projected Start Date:

06/01/2018

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Public Facilities and Improvements

Projected End Date:

12/31/2019

Completed Activity Actual End Date:

Responsible Organization:

Town of Bristol

Overall	Jul 1 thru Sep 30, 2018	To Date
Total Projected Budget from All Sources	N/A	\$325,948.47
Total Budget	\$0.00	\$325,948.47
Total Obligated	\$0.00	\$325,948.47
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 Bristol	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Phase 2A (the current proposed project) consists of replacing the existing culvert with a 3 ft x 8 ft box culvert from Richmond Street to Garfield Avenue. The culvert will provide long-term relief from flooding for most storms (up to and including the 10-year event), provide structural integrity, and will require minimal maintenance by the Town. The Tanyard Brook Culvert Replacement Project was divided into two Phases and includes the replacement of the entire existing piped and stone-lined channel with a new concrete box culvert from the Reservoir to the outfall at Walker's Cove in the southern end of Bristol Harbor. Phase 1 work spanned from Garfield Avenue to the outfall in Bristol Harbor and was completed in 2014. Phase 2 work will span from the Tanyard Reservoir and culminate where Phase 1 work left off at Garfield Avenue. This grant supports Phase 2A from Garfield Avenue to Richmond Street. See activity #4 for additional information.

Location Description:

Between Garfield Avenue and Richmond Street in the Town of Bristol, Bristol County

Activity Progress Narrative:

This quarter, the Notice to Proceed was issued and tree-cutting and site preparation have been completed.



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: 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:

Under Way

Project Title:

Planning

Projected End Date:

12/31/2018

Completed Activity Actual End Date:

Responsible Organization:

State of Rhode Island2

Overall

Total Projected Budget from All Sources

Jul 1 thru Sep 30, 2018

N/A

To Date

\$275,000.00

Total Budget

\$0.00

\$275,000.00

Total Obligated

\$0.00

\$275,000.00

Total Funds Drawdown

\$14,415.17

\$127,932.84



Program Funds Drawdown	\$14,415.17	\$127,932.84
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$14,415.17	\$127,932.84
State of Rhode Island ²	\$0.00	\$0.00
University of Rhode Island	\$14,415.17	\$127,932.84
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:

Work on this project is ongoing. In August, URI requested a no cost extension to allow more time to obtain data from stakeholders, finalize storm impact scenarios, fine-tune the model applications, and complete the final report. OHCD approved an extension through January 2019. At the end of the quarter, the contract amendment had not been fully executed. A project communication meeting is scheduled with stakeholders 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: 33

Activity Title: Culvert Assessment and Resiliency Study

Activity Category:

Planning

Activity Status:

Planned

Project Number:

6

Project Title:

Planning

Projected Start Date:

01/01/2018

Projected End Date:

09/30/2019

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

N/A

Responsible Organization:

State of Rhode Island2

Overall	Jul 1 thru Sep 30, 2018	To Date
Total Projected Budget from All Sources	N/A	\$300,000.00
Total Budget	\$0.00	\$300,000.00
Total Obligated	\$0.00	\$300,000.00
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
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Development of a technical manual and completion of a pilot study to assess the present and future extreme flood vulnerability of roadway crossing structures. The project aims to complete the following objectives:

1. Create a technical manual for state and municipal use containing methods for assessing flood risk vulnerability associated with culvert structures in Rhode Island which is consistent with RI Stormwater Manual. The result will be a prioritization of RIDOT/municipal management actions that address significant threats to the safety of the state transportation network imposed by adverse climatic events. The methods to be described in this technical manual are as follows:

- Collection of relevant bridge/culvert structural, site, and other data
- Evaluation of Existing Hydraulic Capacity
- Evaluation of Existing Streamflow Conditions
- Evaluation of Flooding Impact Potential
- Evaluation of Geomorphic Vulnerability
- Evaluation of Aquatic Organism Passage
- Future Climate Assessment
- Potential Disruption of Local Services or Emergency Response Routes
- Development of Ranking System for Structure Prioritization

2. Apply recommendations in the technical manual and complete a pilot study in the Woonasquatucket River watershed, and provide a list of structures that are a priority for replacement due to the factors in Objective 1.

In March of 2010, flooding damage to state and town roads was documented throughout the state. A majority of



these damages were in the vicinity of undersized culverts. Without technical guidance on culvert risk assessment available, many of these culverts were repaired and/or replaced in-kind, without considering flood mitigation strategies. A technical guide on culvert risk assessment will result in future culvert investments that mitigate flood risk and increase the resiliency of state and local transportation assets.

Location Description:

Statewide, with pilot application in Woonasquatucket watershed (primarily Providence County).

Activity Progress Narrative:

Sections 2 and 3 of manual draft have been completed. Online portal for data entry of field work data collection has been completed. Field work is set to be completed by mid December the latest. Draft chapters of manual are 75% or more complete. Draft sections to be sent out for first round of editing in December to DOT staff and stakeholders. Ranking system for prioritization to be discussed at end of field work in January. Project is on schedule.

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	0	20
Monitoring Visits	0	17
Audit Visits	0	0
Technical Assistance Visits	0	1
Monitoring/Technical Assistance Visits	0	2
Report/Letter Issued	0	17

