

LOUISIANA WATERSHED INITIATIVE



INFORMATIONAL BRIEF
PERFORMANCE AUDIT SERVICES
ISSUED AUGUST 10, 2022

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LOUISIANA LEGISLATIVE AUDITOR
MICHAEL J. "MIKE" WAGUESPACK, CPA

August 10, 2022

The Honorable Patrick Page Cortez,
President of the Senate
The Honorable Clay Schexnayder,
Speaker of the House of Representatives

Dear Senator Cortez and Representative Schexnayder:

This informational brief provides the results of our review of information and statistics related to the Louisiana Watershed Initiative. This brief is intended to provide timely information related to an area of interest to the legislature or based on a legislative request. I hope this report will benefit you in your legislative decision-making process.

We would like to express our appreciation to the Office of Community Development for their assistance during this audit.

Respectfully submitted,

A handwritten signature in blue ink, appearing to be "Mike Waguespack", written over a horizontal line.

Michael J. "Mike" Waguespack, CPA
Legislative Auditor

MJW/aa

LWI



MICHAEL J. "MIKE"
WAGUESPACK, CPA

Informational Brief

Louisiana Watershed Initiative

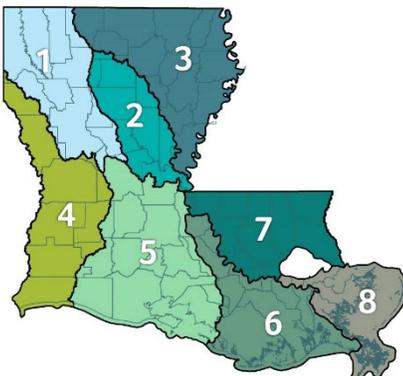
Office of Community Development

Audit Control # 40220012
Performance Audit Services – August 2022

Background

In 2018, Congress established the Community Development Block Grant Program for Mitigation (CDBG-MIT)¹ and appropriated \$12 billion in federal funding specifically for mitigation activities² for areas impacted by a major disaster declared in 2015 through 2017. The U.S. Department of Housing and Urban Development (HUD) is the federal agency responsible for administering CDBG-MIT. Once HUD publishes the Federal Register Notice for a congressional appropriation, grantees must submit an Action Plan to HUD for approval that describes the approach for using the funds, including projects, data collection, modeling, policy measures, and a risk-based Mitigation Needs Assessment.³ In August 2019, HUD published the Federal Register Notice to allocate CDBG-MIT funds to Louisiana, and the state developed the

Exhibit 1 Watershed Regions



Source: Louisiana Watershed Initiative

Action Plan, including accepting public comments. HUD approved the Action Plan in February 2020 and signed a grant agreement with Louisiana in September 2020, establishing a \$1.2 billion line of credit in CDBG-MIT funding to Louisiana for flood risk reduction priorities.

The governor issued an Executive Order⁴ in 2018 to establish the Louisiana Watershed Initiative (LWI) with the intention of taking a statewide approach to

Why We Compiled This Informational Brief

Because of legislative interest in flood mitigation measures, we obtained and analyzed planning documents and expenditure information from LWI to provide information and statistics related to LWI projects, including how projects were selected. Louisiana is facing increased risk of significant future disasters, in both magnitude and frequency of flood events, whether by flash flooding, inland rivers, stormwater, or coastal storm surge. Every parish in the state has been affected by at least one of the 16 declared flood and hurricane related disasters or emergencies over the past two decades.

Informational briefs are intended to provide more timely information than standards-based performance audits. While these informational briefs do not follow all *Government Auditing Standards*, we conduct quality assurance activities to ensure the information presented is accurate. We met with LWI and incorporated its feedback throughout this informational brief.

¹ P.L. 115-123

² Mitigation activities are defined as activities that increase resilience to disasters and reduce or eliminate the long-term risk of loss of life, injury, damage to and loss of property, and suffering and hardship, by lessening the impact of future disasters.

³ The mitigation needs assessment identifies all significant current and future disaster risks and requires grantees to collaborate with stakeholders that administer the Federal Emergency Management Agency’s Hazard Mitigation Grant Program funds.

⁴ Executive Order JBE2018-16

watershed-based floodplain management. Exhibit 1 shows Louisiana's eight watershed regions. LWI's mission is to reduce flood risk and improve floodplain⁵ management across the state, including maximizing the natural and beneficial functions of the floodplain. LWI's approach builds on the efforts and methodologies of both the Coastal Master Plan and LA SAFE⁶ by combining the Coastal Master Plan's focus on data, science, and engineering with the community engagement lessons learned through LA SAFE to work across all sectors of government.

In 2019, LWI recognized eight watershed regions⁷ based upon natural watershed boundaries to coordinate regional flood mitigation efforts and distribute project funds. As evidenced by the Great Floods of 2016 decisions made in one jurisdiction inevitably impact other jurisdictions within a shared watershed. The statewide dynamic watershed models form the foundation of watershed management plans and strategies which is consistent with regional floodplain management best practices and the EPA's Watershed Approach Framework. The Council on Watershed Management is comprised of several state agencies responsible for the management and coordination of LWI:

- **Office of Community Development (OCD):** Oversees disaster mitigation and recovery programs funded by federal CDBG dollars, involving community resilience planning, housing assistance, data collection, and risk reduction projects. Granting agency of the CDBG-MIT funds and responsible for determining project eligibility and alignment with the state's Action Plan.
- **Coastal Protection and Restoration Authority:** Responsible for the development of the state's Coastal Master Plan, and developed a Flood Risk and Resilience Program framework in concert with the 2017 Coastal Master Plan.
- **Governor's Office of Homeland Security and Emergency Preparedness:** Administers the state's Hazard Mitigation Grant Program funded through FEMA, Building Resilient Infrastructure and Communities Program, Flood Mitigation Assistance Grant Program, and Public Assistance Grant Program.
- **Department of Transportation and Development:** Manages the development of LWI watershed models, is the coordinating state agency for the National Flood Insurance Program, and administers the agency's Statewide Flood Control funding through Louisiana's Transportation Trust Fund.
- **Department of Wildlife and Fisheries:** Collects information and data on the state's wildlife and fisheries for management and conservation; provides technical assistance for habitat restoration, conservation, and additional nature-based

⁵ A floodplain is any land area within a watershed that is susceptible to inundation by floodwaters from any source.

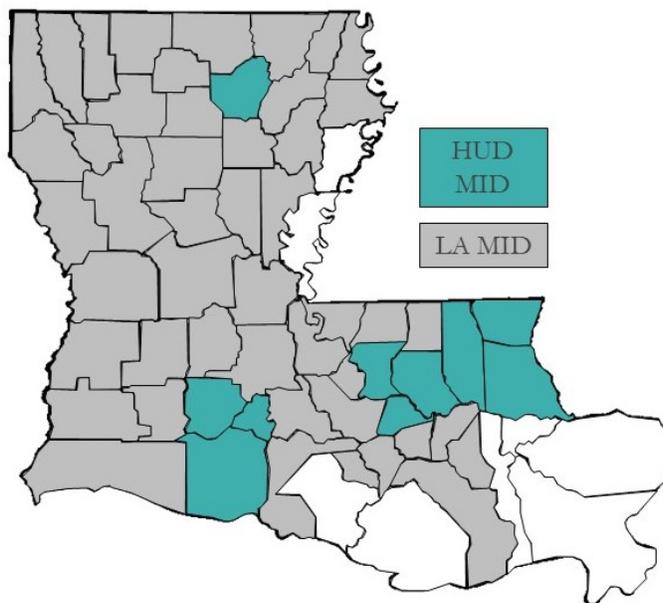
⁶ Louisiana's Strategic Adaptations for Future Environments (LA SAFE) was implemented as a planning and capital investment program in an initial six-parish target area (Jefferson, Lafourche, Plaquemines, St. John the Baptist, St. Tammany, and Terrebonne). LA SAFE was made possible by a \$93 million dollar grant through HUD's Community Development Block Grant National Disaster Resilience program.

⁷ A watershed is an area of land that drains all of its streams and rainfall to a common outlet, such as a reservoir outflow, the mouth of a bay, or a point along a stream's channel.

solutions; and reviews and provides recommendations on environmental permit applications and other proposed activities to avoid or mitigate impacts.

According to the Community Development Block Grant framework, each project receiving funding must meet a national objective. Eligible national objectives specific to the CDBG-MIT program include Low to Moderate Income or Urgent Need Mitigation. To meet the Low to Moderate Income Area national objective, an activity must benefit all residents in a particular area where at least 51% of residents are low to moderate income persons. For an activity to meet the Urgent Need Mitigation national objective, the project must document how it addresses current and future risks in the most impacted and distressed (MID) areas and how the activity will yield community benefits and result in measurable and verifiable reductions in risk of loss of life and property from future disasters. HUD requires Louisiana to expend 50 percent (\$607 million) of all CDBG-MIT grant funds to benefit areas associated with the Great Floods of 2016 identified by HUD as MID areas. The remaining funds may be expended to benefit MID areas identified by the state.⁸ HUD has identified ten parishes as MID areas, and the state has identified 46 parishes as MID areas. Exhibit 2 shows the HUD MID areas and the Louisiana MID areas.

Exhibit 2 Most Impacted and Distressed Parishes Identified by HUD and Louisiana* As of May 2022



HUD MID: Acadia, Ascension, East Baton Rouge, Lafayette, Livingston, Ouachita, St. Tammany, Tangipahoa, Vermilion, Washington

Louisiana MID: Allen, Assumption, Avoyelles, Beauregard, Bienville, Bossier, Caddo, Calcasieu, Caldwell, Cameron, Catahoula, Claiborne, DeSoto, East Carroll, East Feliciana, Evangeline, Franklin, Grant, Iberia, Iberville, Jackson, Jefferson Davis, Lafourche, LaSalle, Lincoln, Madison, Morehouse, Natchitoches, Pointe Coupee, Rapides, Red River, Richland, Sabine, St. Charles, St. Helena, St. James, St. John the Baptist, St. Landry, St. Martin, Union, Vernon, Webster, West Baton Rouge, West Carroll, West Feliciana, Winn

Source: Louisiana Watershed Initiative

*The eight parishes that did not receive a major federal disaster declaration and are, therefore, not identified as MID areas by HUD or the state: Concordia, Jefferson, Orleans, Plaquemines, St. Bernard, St. Mary, Tensas, and Terrebonne.

⁸ The state must provide data-driven analytics to support the state identified areas as most impacted and distressed.

What We Found

As of May 2022, \$656.1 million (54.1%) of CDBG-MIT grant funds have been contracted or awarded. The CDBG-MIT grant funds are allocated to four LWI program areas, Non-Federal Cost Share Assistance, and administration costs. The majority of the remaining funding (85%) is dedicated to program funding area one, Local and Regional Watershed Projects and Programs, and will be allocated in future funding rounds⁹. Exhibit 3 describes the funding areas, the amount awarded, amount remaining, and total allocation for the various funding areas as of May 2022. Appendix A and Appendix B show projects by parish and program area. Appendix C lists all LWI projects by parish.

Exhibit 3

Community Development Block Grant Mitigation Award Allocations As of May 2022

Funding Areas	Description	Amount Obligated	Amount Remaining	Total Allocation	Percent of Award
Program Area 1: Local and Regional Watershed Projects and Programs	Funding awarded in three distinct rounds for local or regional governments for projects on a regional (watershed) basis that increase resilience to floods on a watershed level	\$95,149,053	\$475,517,190	\$570,666,243	47.0%
Program Area 2: State Project and Programs	State identified projects or programs, following the Great Floods of 2016, necessary for immediate implementation of a more comprehensive flood mitigation strategy	231,696,993	81,060,598	312,757,591	25.8%
Program Area 3: Watershed Monitoring, Mapping, and Modeling	Funding provided to state, regional, and/or local entities for activities associated with collecting and monitoring data to obtain a comprehensive set of hydraulic and hydrologic models for all watersheds within the state and whose boundaries extend into bordering states	145,670,040		145,670,040	12.0%
Program Area 4: Watershed Policy, Planning, and Local Capacity Assistance	Encourages watershed management and alignment of effort across watersheds by coordinating public engagement, training, and research to develop informed and collaborative policies and planning tools	23,001,601	1,276,739	24,278,340	2.0%
Non-federal Cost Share Assistance	Funding to support local communities for eligible federal programs that require a state or local match	111,988,107		111,988,107	9.2%
Administrative Costs	General administration costs including the state and subrecipients administration of programs, compliance and monitoring of the state's subrecipients, vendors and other recipients of funding and other costs specified as eligible administrative expenses	48,556,680		48,556,680	4.0%
Total		\$656,062,474	\$557,854,527	\$1,213,917,001	100.0%

Source: Prepared by the legislative auditor's staff using information provided by OCD.

⁹ To date, only round one of three distinct award rounds has been allocated. Round two launched early 2022, however based on information OCD provided, funding has not been obligated yet.

As of May 2022, LWI has awarded state watershed regions a total of \$423.8 million,¹⁰ funding 57 projects. LWI funds a variety of programs dealing with flood mitigation, such as drainage improvements, property buyout, dam/spillway improvements, facility improvements, flood storage, infrastructure improvements, and floodplain preservation. The highest award percentage was \$162.2 million (38.3%) for drainage improvements, followed by \$87 million (20.5%) for property buyout, and \$49.1 million (11.6%) for dam/spillway improvements. Exhibit 4 describes the project types, number of projects, and award amounts. Appendix A and Appendix B describe award allocations by parish for project type and program area. Appendix C lists all LWI projects by parish.

Exhibit 4 Awards by Project Type As of May 2022			
Project Type	Number of Projects	Total Award Amount	Percent of Total
Drainage improvements	20	\$162,229,515	38.3%
Property buyout	7	87,000,000	20.5%
Dam/spillway improvements	8	49,081,320	11.6%
Drainage and facility improvements	1	37,275,789	8.8%
Facility improvements	5	27,215,437	6.4%
Flood storage	6	26,390,835	6.2%
Infrastructure improvements	8	20,441,257	4.8%
Floodplain preservation	2	14,200,000	3.4%
Total	57	\$423,834,153	100%

Source: Prepared by the legislative auditor's staff using information provided by OCD.

In addition to the \$1.2 billion in CDBG-MIT funds, LWI is administering \$24.8 million in CDBG disaster recovery (CDBG-DR) funding for planning activities regarding flood mitigation. As of March 2022, \$16,293,467 (65.7%) of CDBG-DR funds have been spent. LWI has allocated \$21.6 million to watershed modeling and planning, which funds state agency and ancillary support for the modeling effort. In addition, it allocated \$3.2 million to Regional Capacity Building Grants, which is a three-year grant program, awarded on a non-competitive basis, for awards up to \$400,000 per region to enable a long-term watershed coalition capable of performing regional watershed management, as well as to support and cultivate needed staff for these entities. Exhibit 5 shows the other CDBG-DR grant funding going to LWI.

Exhibit 5 Other CDBG Flood Grant Funds As of March 2022				
Planning Area	Allocated	Spent	Remaining	% Remaining
Watershed Modeling and Planning	\$21,600,800	\$14,711,571	\$6,889,229	31.9%
Regional Capacity Building Grant	3,200,000	1,581,896	1,618,104	50.6%
Total	\$24,800,800	\$16,293,467	\$8,507,333	34.3%

Source: Prepared by legislative auditor's staff using information provided by OCD.

¹⁰ For projects awarded under Program Area 1, Program Area 2, and Non-federal Cost Share Assistance.

Details about each program area, including amounts allocated, spent, and remaining, as well as the criteria associated with each program area, are discussed in the following sections.

PROGRAM AREA 1: LOCAL AND REGIONAL WATERSHED PROJECTS AND PROGRAMS

LWI allocated \$570.7 million (47%) of the \$1.2 billion to local and regional watershed projects and programs. To date, \$95.1 million (16.7%) has been awarded to 17 parishes for Round 1 funding and the remaining \$475.5 million (83.3%) will be awarded in future rounds. The purpose of LWI's Local and Regional Watershed Projects and Programs funding area is to aid local and regional organizations in implementing projects and programs with demonstrable and quantifiable mitigation outcomes. This program will provide funding on a regional (watershed) basis for planning, voluntary acquisition, infrastructure, code enforcement, public services, voluntary buyouts and housing activities related to resettlement, economic development and/or other public facilities projects that increase resilience to floods on a watershed level. Projects are required to include plans for long-term operation and maintenance, and address the collection and application of sufficient revenues for future anticipated costs.

The funding for Local and Regional Watershed Projects and Programs will be allocated in three distinct rounds:

- **Round 1** – Awarding of projects complete. Includes projects that are low-risk, high benefit, ready to implement and not known to negatively impact flood risk or the natural, beneficial function of the floodplain. Projects selected will require minimal continued maintenance and provide risk reduction on the community or regional scale. Projects have a minimum threshold grant request of \$500,000 and a maximum request of \$10 million. The maximum funding allocation for this round is \$100 million.
- **Round 2** – Launched in early 2022. It includes two funding opportunities, Design Support Pilot Program and an opportunity which will benefit low to moderate income areas.
 - Due to Round 1 resulting in more applications than available funding, LWI also created the Design Support Program, which extends \$100 million in funding to support eligible Round 1 applications not awarded funding. This program will provide technical assistance and work with applicants to improve supporting data and identify areas to incorporate nature-based solutions. In Spring 2022, a panel of state agency leaders reviewed projects to be included in the Design Support Program. The review panel will make its final project recommendations to the Council on Watershed Management. Watershed regions that did not use all of their Round 1 funding can also use their remaining dollars for projects through this program.
 - The maximum funding for the remainder of Round 2 is \$265 million. The initial \$100 million will fund projects that meet the national objective of

benefit to low to moderate income persons and prioritize HUD-identified MID areas.

Round 3 – Launches in 2024 or later and includes programs and projects to implement flood-risk reduction projects justified by full completed watershed models and incentivize the adoption of resilient policies on a regional basis. The maximum funding allocation for this round is \$100 million.

In Round 1, LWI awarded \$61.6 million to 16 projects through the statewide selection process. The remaining \$33.5 million was awarded to 13 projects in the regional recommendation process. OCD is responsible for the management, evaluation, and scoring of all applications and may employ the assistance of a scoring committee comprised of a representative of each agency on the Council of Watershed Management. Projects in Round 1 are designed to go through a phased application process that includes a pre-application, application, and a two-tiered selection process. Pre-applications determined by OCD to be eligible¹¹ are provided a full application packet that includes clearly communicated requirements, instructions, and scoring criteria. Then, the application is evaluated, scored, and ranked. Projects can earn up to 100 points based on five structured categories of criteria: effectiveness in minimizing risk, project costs and project implementation, social benefits, enhancement of natural functions, and benefit to MID parishes. The two-tiered selection process is a competitive statewide selection for all eligible projects and a successive watershed regional recommendation process within each region. Awards for the statewide selection process is based on applicant score ranking. Any projects scored but not selected by OCD for the statewide selection were sent to the local regional steering committee to consider projects and submit their recommendations back to OCD.

For one **Round 1** project, LWI awarded \$8.5 million for the Bayou Duplantier Floodplain Acquisition in East Baton Rouge Parish to purchase 200 acres to halt potential development in the area and preserve the floodway and floodplain in its natural condition.

Source: LWI website

LWI received and evaluated 188 applications¹² for the Round 1 of program area one. It determined 45 (23.9%) were eligible and awarded funding to 34¹³ (75.6%) of the 45 eligible applicants. OCD determined that 143 (76.1%) of the 188 applications were not eligible due to insufficient data, missing required documentation, requesting funding amounts outside of the funding threshold, and not meeting required guidelines. Applications must include documentation such as studies, analyses, and modeling, to provide evidence that criteria will be met, and to support the project benefits and impacts. For example, the OCD's Round 1 Policies and Procedures state that applications must include a Hydraulic and Hydrologic modeling report for structural projects but 53 applications were determined to be ineligible for not including this required documentation.

¹¹ Application submissions are open to any public entity that have the authority and jurisdiction to implement, operate and maintain the project.

¹² LWI received 326 pre-applications that it deemed eligible for the application process.

¹³ Five applications were for acquisition or buyout projects and funded through program area 2.

PROGRAM AREA 2: STATE PROJECTS AND PROGRAMS

LWI allocated \$312.8 million (25.8%) of funding to state projects and programs.

Funding through State Projects and Programs is allocated for projects or programs the state identified, following the Great Floods of 2016, as necessary for immediate implementation of a more comprehensive flood mitigation strategy. The State Projects and Programs funding is divided between two programs with \$298 million (95%) dedicated to state infrastructure and housing and \$15 million (5%) to state economic development and resilience. State economic development and resilience activities include flood-ready jobs and resilience gap financing programs. State infrastructure and housing activities include regional retention/detention projects and natural flood management; large-area buyouts and traditional non-structural mitigation; resilient affordable housing; remote lands purchase; and critical facilities and infrastructure projects. See Appendix B for parish projects and project types funded by program area.

Projects are selected through a non-competitive process and for immediate implementation. Criteria may include demonstration of best flood-risk mitigation practices, use of green and blue-green infrastructure¹⁴ technologies and techniques, positively benefitting the natural functions of a watershed, and benefits to vulnerable populations, including low- and moderate-income populations. State infrastructure and housing applicants may be eligible for assistance under one or more of the following categories: buyout assistance, housing incentive assistance, and relocation assistance for tenants. Once a person has moved from the survey stage to application stage, they will be considered an applicant of the program. OCD will use the grant execution process to meet with applicants and review all program requirements prior to receipt of grant funds.

For one **State Projects and Programs** project, LWI awarded \$15 million to Livingston Parish for drainage improvements, which will involve lateral drainage work to reduce floodwater inundation, including reshaping eroded banks, repairing levees and other structures and removing debris from about 145 miles of stream channels that connect to the parish's previously cleared waterways.

Source: LWI website

¹⁴ These are strategies to reduce runoff, retain water, and improve water quality on the subject site by retaining or planting native vegetation, removing existing impervious surface area or utilizing pervious pavement, installing bioswales or other retention areas, collecting rainwater for non-potable uses, or installing green roofs.

PROGRAM AREA 3: WATERSHED MONITORING, MAPPING AND MODELING PROGRAM

LWI allocated \$145.7 million (12.0%) of funding to the Watershed Monitoring, Mapping, and Modelling Program. LWI awards funding to state, regional, and/or local entities for activities associated with collecting and/or monitoring of data necessary to obtain a comprehensive set of hydraulic and hydrologic models for watersheds within the state, including watersheds with borders extending into neighboring states. Altogether, this effort is intended to support regional collaboration to build an objective, science-based understanding of how projects, policies, and other measures will reduce flood risk. Through LWI, the state will work with technical experts, federal partners, academic institutions and local stakeholders to create models of Louisiana's watersheds. These models will simulate flood scenarios and analyze potential flood mitigation solutions.

Subrecipients for these funds will be selected based on their technical expertise and considerations of the watershed region(s) they serve. Professional services to complete different pieces of data aggregation, review and/or modeling will be competitively procured by the state or its subrecipients with whom the state will enter into Cooperative Endeavor Agreements (CEAs).

As part of the **modeling program**, the state is investing \$15 million to install river and rain gauges at about 100 sites throughout Louisiana over the next six years, in partnership with the United States Geological Survey. To date, 60 gauges have been installed in 16 parishes.

Source: LWI website

PROGRAM AREA 4: WATERSHED POLICY, PLANNING, AND LOCAL CAPACITY ASSISTANCE

LWI allocated \$24.3 million (2%) of funding to watershed policy, planning, and local capacity assistance. Under this program, LWI will coordinate public engagement, training, and research to develop informed and collaborative policies and planning tools. This program area includes three specific elements: technical assistance,¹⁵ development of statewide and regional watershed management plans, and administration. Subrecipients for these funds will be selected based on the considerations of the watershed region(s) they serve, based on a framework wherein parish and municipal leaders and regional stakeholders participate in the collective management of a watershed region. Professional services to complete technical assistance and planning on behalf of LWI will be collectively procured by the state or its subrecipients and entered into CEAs.

¹⁵ Technical assistance includes flood insurance affordability and policy implementation, local administrator assistance, and risk awareness and education.

NON-FEDERAL COST SHARE ASSISTANCE PROGRAM

LWI allocated \$112 million (9.2%) to the Non-Federal Cost Share Assistance Program. The Non-Federal Cost Share Assistance Program enables the Office of Community Development to leverage CDBG-MIT dollars with other federal disaster recovery funding sources that require a match or cost share. CDBG-MIT funds under this program can be applicable to several federal programs within both the Federal Emergency Management Agency (FEMA) and other federal agencies. The state is using the CDBG-MIT funds to cover the 25% cost share requirement in order to receive federal funding from the Hazard Mitigation Grant Program (HMGP) received from FEMA as a result of the 2016 floods and 2020 hurricanes. The state received \$291 million in HGMP funding that it allocated to parishes impacted by the 2016 floods. Using the global match strategy, \$112 million of CDBG-MIT funds allocated to this the non-federal cost share assistance program will fund the match for all projects included in the 2016 HMGP. Specific HMGP projects selected are funded 100% with the CDBG-MIT funds for the statewide 25% match requirement. This enables the state to streamline administrative costs associated with compliance with multiple federal agency requirements. Each eligible project not receiving direct CDGB-MIT funding will receive credit for the match by using this global match process. Funds are also provided as payment to state agencies, eligible organizations, local governments and/or other local entities for approved activities within programs requiring a non-federal cost-share, including reimbursement of eligible activities. If the state is unable to fund all match requirements, then the state will develop a prioritization or proration methodology for disbursing funds.

As part of the **Non-Federal Cost Share Assistance Program**, LWI awarded \$37.3 million to Ascension Parish for drainage and facility improvements for the Marvin Braud Pump Station Protection Levee Elevation and Upgrades project.

Source: LWI website

ADMINISTRATION

LWI allocated \$48.6 million (4%) of funding to administration costs. The administration costs of the CDBG-MIT funds are necessary for the general administration of LWI, including the state's and subrecipients' time administering programs, compliance and monitoring of the state's subrecipients, vendors, and other recipients of funding and other costs specified as eligible administrative expenses. The aggregated assistance for administration expenses for the state and all subrecipients will be included in the \$48.6 million allocated to administration costs. The federal register notice allows states to allocate up to 5% to administration costs, but the state has chosen to allocate only 4%.

APPENDIX A: AWARDS BY PARISH AND PROJECT TYPE

Parish	Project Type	Number of Projects	Award Amount	Total Amount
Acadia	Flood storage	1	\$2,937,196	\$2,937,196
Allen	Facility improvements	1	\$749,000	\$749,000
Ascension	Drainage and facility improvements	1	\$37,275,789	\$40,625,789
	Infrastructure improvements	1	\$2,100,000	
	Drainage improvements	1	\$1,250,000	
Ascension and Livingston	Drainage improvements	1	\$41,700,000	\$41,700,000
Avoyelles	Drainage improvements	1	\$5,683,000	\$5,683,000
Beauregard	Dam/spillway improvements	1	\$9,963,720	\$9,963,720
Bossier	Drainage improvements	1	\$2,274,656	\$2,274,656
Caddo	Dam/spillway improvements	1	\$6,679,600	\$12,038,384
	Flood storage	1	\$5,358,784	
Calcasieu	Property buyout	1	\$30,000,000	\$30,000,000
Cameron and Vermilion	Drainage improvements	1	\$25,400,000	\$25,400,000
East Baton Rouge	Drainage improvements	2	\$35,544,789	\$84,937,931
	Facility improvements	2	\$24,503,337	
	Floodplain preservation	2	\$14,200,000	
	Flood storage	2	\$10,689,805	
Franklin	Dam/spillway improvements	1	\$8,819,880	\$8,819,880
Grant	Dam/spillway improvements	1	\$1,141,600	\$1,141,600
Iberville	Drainage improvements	2	\$3,223,500	\$3,223,500
Jackson	Dam/spillway improvements	1	\$2,809,000	\$2,809,000
Lafayette	Property buyout	1	\$7,000,000	\$11,725,000
	Flood storage	1	\$4,725,000	
Lafourche	Infrastructure improvements	1	\$1,895,000	\$1,895,000
Livingston	Drainage improvements	1	\$15,000,000	\$25,000,000
	Property buyout	1	\$10,000,000	
Natchitoches	Drainage improvements	1	\$3,430,000	\$3,430,000
Ouachita	Property buyout	1	\$10,000,000	\$25,522,242
	Drainage improvements	3	\$8,331,992	
	Infrastructure improvements	2	\$3,178,000	
	Flood storage	1	\$2,680,050	
	Facility improvements	1	\$1,332,200	
Rapides	Drainage improvements	4	\$18,841,578	\$24,131,578
	Infrastructure improvements	1	\$5,290,000	

Parish	Project Type	Number of Projects	Award Amount	Total Amount
Rapides and Evangeline	Dam/spillway improvements	1	\$2,243,200	\$2,243,200
St. Landry	Dam/spillway improvements	1	\$3,029,320	\$3,029,320
St. Martin	Drainage improvements	1	\$1,000,000	\$1,000,000
St. Tammany	Property buyout	1	\$10,000,000	\$17,978,257
	Infrastructure improvements	3	\$7,978,257	
Vermilion	Property buyout	1	\$10,000,000	\$10,550,000
	Drainage improvements	1	\$550,000	
Vernon	Dam/spillway improvements	1	\$14,395,000	\$15,025,900
	Facility improvements	1	\$630,900	
Washington	Property buyout	1	\$10,000,000	\$10,000,000
Source: Prepared by the legislative auditor's staff using OCD data.				

APPENDIX B: AWARDS BY PARISH, PROJECT TYPE, AND PROGRAM AREA

Parish	Project Type	Round 1 State Projects	Round 1 Regional Projects	State Projects & Programs	Non-federal Cost Share Assistance*	Grand Total
Acadia	Flood storage	\$2,937,196				\$2,937,196
Allen	Facility improvements	749,000				749,000
Ascension	Drainage and facility improvements				\$37,275,789	40,625,789
	Drainage improvements	1,250,000				
	Infrastructure improvements		\$2,100,000			
Ascension and Livingston	Drainage improvements			\$41,700,000		41,700,000
Avoyelles	Drainage improvements		5,683,000			5,683,000
Beauregard	Dam/spillway improvements			9,963,720		9,963,720
Bossier	Drainage improvements		2,274,656			2,274,656
Caddo	Dam/spillway improvements			6,679,600		12,038,384
	Flood storage	5,358,784				
Calcasieu	Property buyout			30,000,000		30,000,000
Cameron and Vermilion	Drainage improvements			25,400,000		25,400,000
East Baton Rouge	Drainage improvements			10,000,000	25,544,789	84,937,931
	Facility improvements				24,503,337	
	Flood storage	4,689,805	6,000,000			
	Floodplain preservation	14,200,000				
Franklin	Dam/spillway improvements			8,819,880		8,819,880
Grant	Dam/spillway improvements			1,141,600		1,141,600
Iberville	Drainage improvements	659,500	2,564,000			3,223,500
Jackson	Dam/spillway improvements			2,809,000		2,809,000
Lafayette	Flood storage	4,725,000				11,725,000
	Property buyout			7,000,000		
Lafourche	Infrastructure improvements	1,895,000				1,895,000
Livingston	Drainage improvements			15,000,000		25,000,000
	Property buyout			10,000,000		
Natchitoches	Drainage improvements		3,430,000			3,430,000

Parish	Project Type	Round 1 State Projects	Round 1 Regional Projects	State Projects & Programs	Non-federal Cost Share Assistance*	Grand Total
Ouachita	Drainage improvements				\$8,331,992	\$25,522,242
	Facility improvements				1,332,200	
	Flood storage		\$2,680,050			
	Infrastructure improvements		3,178,000			
	Property buyout			\$10,000,000		
Rapides	Drainage improvements	\$11,911,600	3,414,305	3,515,673		24,131,578
	Infrastructure improvements	5,290,000				
Rapides and Evangeline	Dam/spillway improvements			2,243,200		2,243,200
St. Landry	Dam/spillway improvements			3,029,320		3,029,320
St. Martin	Drainage improvements		1,000,000			1,000,000
St. Tammany	Infrastructure improvements	7,978,257				17,978,257
	Property buyout			10,000,000		
Vermilion	Drainage improvements		550,000			10,550,000
	Property buyout			10,000,000		
Vernon	Dam/spillway improvements			14,395,000		15,025,900
	Facility improvements		630,900			
Washington	Property buyout			10,000,000		10,000,000
Total		\$61,644,142	\$33,504,911	\$231,696,993	\$96,988,107	\$423,834,153

*Even parishes not awarded Non-Federal Cost Share Assistance dollars still benefit from the program, as the global match process frees up federal dollars for other projects. For example, the following parishes and municipalities will have their non-federal cost share funded with federal dollars due to the global match strategy utilized in the Non-Federal Cost Share Program: Allen, Ascension, Assumption, Avoyelles, Bienville, Bossier, Caddo, Calcasieu, Caldwell/Richland, Cameron, Catahoula, City of Baker, City of Central, City of Mandeville, City of Scott, City of Youngsville, City of Zachary, East Baton Rouge, East Carroll, East Feliciana, Evangeline, Franklin, Grambling, Grant, Iberia, Iberville, Jackson, Jefferson Davis, Lafayette, Lincoln, Livingston, Natchitoches, Ouachita, Pointe Coupee, Rapides, St. Charles, St. Helena, St. James, St. John, St. Martin, St. Tammany, Tangipahoa, Tensas Levee District, Union, Vermilion, Vernon, Washington, West Baton Rouge, West Carroll, West Feliciana, Winn (City of Winnfield).

In addition, LWI allocated \$15 million across all projects for grants management costs that entities may incur.

Source: Prepared by legislative auditor's staff using information provided by OCD.

APPENDIX C: AWARDS BY PROJECT NAME

Parish	Region	Program Area Type	Responsible Organization	Project Type	Project Name	Award Amount
Acadia	5	Round 1 State Projects	Town of Church Point	Flood storage	Church Point Detention and Flood Proofing	\$2,937,196
Allen	4	Round 1 State Projects	Coushatta Tribe of Louisiana	Facility improvements	Coushatta Casino Resort Wastewater Treatment Plant Floodwall	749,000
Ascension	6	Round 1 State Projects	Ascension Parish	Drainage improvements	Bonadona-Cataldo Drainage Pump	1,250,000
		Round 1 Regional Projects	Ascension Parish Government	Infrastructure improvements	Bayou Lafourche Pump Project	2,100,000
	7	Non-Federal Cost Share Assistance	Ascension Parish	Drainage and facility improvements	Marvin Braud Pump Station Protection Levee Elevation and Upgrades	37,275,789
Ascension and Livingston	7	State Projects & Programs	Pontchartrain Levee District	Drainage improvements	La. Hwy. 22 Bridge Construction and Drainage Improvements	41,700,000
Avoyelles	2 and 5	Round 1 Regional Projects	Town of Mansura	Drainage improvements	Bayou Lacombe Channel Improvements	5,683,000
Beauregard	4	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Bundick Lake Flood Surchage Management	9,963,720
Bossier	1	Round 1 Regional Projects	Town of Haughton	Drainage improvements	Foxskin Bayou Drainage Improvements	2,274,656
Caddo	1	Round 1 State Projects	City of Shreveport	Flood storage	Ockley Basin Storage Project	5,358,784
		State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Black Bayou Structure Hardening and Runoff Retention Improvements	6,679,600
Calcasieu	4	State Projects & Programs	State of Louisiana	Property buyout	Greinwich Terrace Buyout Program	30,000,000
Cameron and Vermilion	4 and 5	State Projects & Programs	Cameron Parish	Drainage improvements	Mermentau Basin Inundation Relief Project	25,400,000

Parish	Region	Program Area Type	Responsible Organization	Project Type	Project Name	Award Amount
East Baton Rouge	7	Round 1 State Projects	Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Floodplain preservation	Bayou Duplantier Floodplain Acquisition	\$8,500,000
			Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Floodplain preservation	Ward Creek Floodplain Acquisition	5,700,000
			The Recreation and Park Commission of the Parish of East Baton Rouge (BREC)	Flood storage	Cypress Bayou Green Infrastructure	4,689,805
		Round 1 Regional Projects	Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Flood storage	Jones Creek Detention Improvements	6,000,000
		State Projects & Programs	Facility Planning & Control/LSU-University Lakes	Drainage improvements	University Lakes Flood Risk Reduction Project	10,000,000
		Non-Federal Cost Share Assistance	Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Facility improvements	Airline Highway Park Recreation Center Safe Room -BREC	12,894,655
			Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Facility improvements	Memorial Sports Complex Safe Room	11,608,682
			Mayor's Office of Homeland Security & Emergency Preparedness (EBR)	Drainage improvements	Ward Creek Drainage Project (USACE)	25,544,789
		Franklin	3	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements
Grant	1	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Iatt Lake Drawdown Improvements	1,141,600
Iberville	6	Round 1 State Projects	Town of Maringouin	Drainage improvements	Maringouin Drainage Improvements	659,500

Parish	Region	Program Area Type	Responsible Organization	Project Type	Project Name	Award Amount
		Round 1 Regional Projects	Iberville Parish Government	Drainage improvements	White Castle Canal Drainage Improvement Project	\$2,564,000
Jackson	2	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Caney Lake Flood Surcharge Management	2,809,000
Lafayette	5	Round 1 State Projects	Lafayette City-Parish Consolidated Government	Flood storage	Coulee Mine East Detention Project	4,725,000
		State Projects & Programs	State of Louisiana	Property buyout	Scott Buyout Program	7,000,000
Lafourche	6	Round 1 State Projects	Lafourche Parish Government	Infrastructure improvements	Emergency Backup Pumps for Pump Stations	1,895,000
Livingston	7	State Projects & Programs	Livingston Parish	Drainage improvements	Livingston Parish Drainage Improvements	15,000,000
			State of Louisiana	Property buyout	Spring Park Buyout Program	10,000,000
Natchitoches	1	Round 1 Regional Projects	Natchitoches Parish Government	Drainage improvements	East Natchitoches Drainage Improvements	3,430,000
Ouachita	3	State Projects & Programs	State of Louisiana	Property buyout	West Monroe Buyout Program	10,000,000
		Round 1 Regional Projects	City of Monroe	Infrastructure improvements	Georgia Street Pump Station	500,000
			City of Monroe	Flood storage	Youngs Bayou Detention Pond	2,680,050
			Ouachita Parish	Infrastructure improvements	Portable Pumps Parishwide	2,678,000
		Non-Federal Cost Share Assistance	Ouachita Parish	Drainage improvements	River Styx Pump Station	2,452,206
			Ouachita Parish	Drainage improvements	Black Bayou Canal Drainage	3,181,711
			Ouachita Parish	Facility improvements	Oregon Trail Floodwall	1,332,200
Ouachita Parish	Drainage improvements		Georgia St Pump Station	2,698,075		
Rapides	5	State Projects & Programs	Facility Planning & Control/LSU-Alexandria	Drainage improvements	LSU Alexandria Drainage Improvements	3,515,673
		Round 1 State Projects	City of Alexandria	Drainage improvements	Chatlin Lake Canal Backwater Overflow Relief Structure	10,000,000
			City of Alexandria	Drainage improvements	Horseshoe Canal Hardening	1,911,600

Parish	Region	Program Area Type	Responsible Organization	Project Type	Project Name	Award Amount
	2		City of Pineville	Infrastructure improvements	Huffman Creek Pump Station and Outfall Improvements	\$5,290,000
		Round 1 Regional Projects	Town of Ball	Drainage improvements	Drainage Crossing Replacements	3,414,305
Rapides and Evangeline	5	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Bayou Cocodrie Runoff Retention and Critical Infrastructure Improvements	2,243,200
St. Landry	5	State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Three Mile Lake Backwater Flood Reduction	3,029,320
St. Martin	5	Round 1 Regional Projects	St. Martin Parish Government	Drainage improvements	Cypress Bayou and Coulee LaSalle Drainage Improvements	1,000,000
St. Tammany	7	Round 1 State Projects	City of Slidell	Infrastructure improvements	Dellwood Drainage Pump Station Hardening	3,297,878
			City of Slidell	Infrastructure improvements	Lee Street Drainage Pump Station Hardening	1,830,379
			St. Tammany Parish Government	Infrastructure improvements	East Slidell Ring Levee	2,850,000
		State Projects & Programs	St. Tammany Parish	Property buyout	St. Tammany Parish Buyout Program	10,000,000
Vermilion	5	Round 1 Regional Projects	Vermilion Parish Police Jury	Drainage improvements	Abbeville Area Vermilion River Bridge Debris Barrier System	550,000
		State Projects & Programs	State of Louisiana	Property buyout	Victoria Acres Buyout Program	10,000,000
Vernon	4	Round 1 Regional Projects	City of Leesville	Facility improvements	Replacement of Ball Park Lift Station	630,900
		State Projects & Programs	Department of Transportation and Development	Dam/spillway improvements	Anacoco Creek Watershed Improvements	14,395,000
Washington	7	State Projects & Programs	State of Louisiana	Property buyout	Washington Parish Buyout Program	10,000,000
All	Overall	Non-Federal Cost Share Assistance	Multiple		Grants Management	15,000,000
Total						\$438,834,153

Source: Prepared by legislative auditor's staff using information provided by OCD.