
**King County Flood Control District
Semi-Annual 2015 Performance Report
Per Flood Control District Resolution 2008-17**

October 2015



King County

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King County Flood Control District Semi-Annual 2015 Performance Report (April–September)

I. Purpose

This report provides the King County Flood Control District's (District) Board of Supervisors with the status of work completed by the Water and Land Resources (WLR) Division of the Department of Natural Resources and Parks as Service Provider to the District.

II. Scope of Services

The District's work program is comprised of two major components:

1. A capital improvement program to rehabilitate flood protection facilities and other projects to protect structures at high risk of flooding; and
2. Operational and programmatic activities, such as identifying flood risks, communicating those risks to the public, preparing for and responding to flood events, maintaining over 500 facilities in King County's flood protection system, and inter-governmental coordination such as the Basin Technical Committees (BTCs).

Capital Improvement Program Implementation

Projects in the capital program reduce risks to public health, safety, and critical public infrastructure from flooding, erosion, and rapid channel migration. A detailed description of flood hazard management conditions and objectives for each major river system is available in the adopted 2006 King County Flood Hazard Management Plan, which serves as the District's Comprehensive Plan, as well as the 2013 King County Flood Hazard Management Plan Update and Progress Report adopted by King County. The capital program fulfills one or more of the following flood hazard management objectives:

- Repair and improve flood protection facilities throughout major commercial, industrial and residential areas;
- Reduce risks to people by removing flood, erosion, and landslide-prone residential structures;
- Improve flood water conveyance and capacity; and
- Provide safe access to homes and businesses by protecting key transportation routes.

The District's 2015 revised capital program includes \$132 million in appropriations (including carryover from 2014). Of this amount, approximately \$7 million is backed by external grant revenue. \$31.5 million is allocated to three grant programs that award funds to external agencies such as the Snoqualmie Tribe, Puyallup Tribe, Sound Salmon Solutions, Mountains to Sound Greenway, and the forty jurisdictions in King County: the Opportunity Fund, the Cooperative Watershed Management Grants, and the Flood Reduction Grants. Approximately \$33 million is programmed for projects managed by other agencies such as the cities of Kent, Seattle, Bellevue, Renton and Lake Forest Park, and the U.S. Army Corps of Engineers.

Highlights of capital program implementation to date in 2015 include:

Corridor Planning – The purpose of corridor plans is to define basin-specific flood risk reduction outcomes and long-term capital investment strategies. Corridor planning is underway on the Tolt, South Fork Snoqualmie, Middle Fork Snoqualmie, Cedar, and Green Rivers.

Tolt River Corridor Plan: Technical staff are finalizing existing and current conditions reports. Tolt River Corridor Planning efforts are expected to resume in the fourth quarter of 2015 and be completed at the end of 2016.

South Fork Snoqualmie Corridor Plan: Following the completion of existing and current conditions reports, the District approved provisional corridor goals to direct planning efforts at the end of 2015. Staff has completed technical comparisons of four different floodplain management approaches. Stakeholder input is being sought through community meetings. South Fork Snoqualmie Corridor Planning efforts are expected to be completed in 2016.

Middle Fork Snoqualmie Corridor Plan: Planning efforts are on hold pending completion of the South Fork Snoqualmie Corridor Plan.

Cedar River Corridor Plan: Completed documentation of existing conditions in the basin includes analysis of flooding and erosion risks and existing habitat conditions. Two technical workshops were hosted for key stakeholders and subject experts to discuss high priority problem areas and opportunities. Public outreach included two Advisory Committee meetings, a Recreation Workshop (supported by in-kind support from the National Park Service), and a general public meeting in June. The plan is expected to be completed in 2016.

Green River System-Wide Improvement Framework (SWIF): The Draft SWIF Submittal Package is being developed. Five chapters of the Draft SWIF Main Report have been drafted and are currently in various stages of internal review. These chapters include: Chapter One (Introduction); Chapter Two (Current Conditions); Chapter 3 (PL 84-99 Deficiency Action Plan); Chapter 5 (Vegetation Plan); and Chapter 6 (Interim Risk Reduction Measures Plan). Technical appendices to the SWIF Main Report that are drafted and included as part of the Draft SWIF submittal package include: the SWIF Advisory Charter and Work plan; Vision and Goals; Current Conditions Report; Howard Hanson Dam Capacity Evaluation; and other more detailed technical reports. Technical work is underway to finalize Chapter 4 (Capital Plan) and Chapter 7 (Funding and Implementation) is being prepared. The SWIF is scheduled for completion and submittal to the U.S. Army Corps of Engineers by February 22, 2016.

Alaskan Way Seawall Construction – The District’s financial contribution is completed.

Cedar River Gravel Removal Project – This project is a partnership between the District and the City of Renton. During the reporting period, the City and its consultant continued negotiation of mitigation requirements and completion of permit applications. The consultant team conducted two technical studies: an investigation of alternatives to address performance issues with the Elliott Spawning Channel intake structure (complete); and a lighting impact study within the project reach (underway). Both studies address elements of mitigation of the project’s habitat impacts. Final design has begun and construction is expected to begin in summer 2016.

Willowmoor Floodplain Reconnection Project – The project team conducted outreach to project stakeholders and the public focused on soliciting feedback with respect to the refined conceptual design alternatives presented at the March 14 public meeting. Based on feedback and technical analysis, alternatives will be presented to the Board of Supervisors for consideration in late fall 2015.

South Fork Snoqualmie “Early Action” Project – This project is designed to reduce flood risks to a major regional transportation corridor as well as commercial and residential properties in and around North Bend. An early action project has been initiated for the South Fork Snoqualmie Corridor Plan to address I-90 flooding. Several conceptual solutions have been reviewed and alternatives analysis is currently underway. The project team anticipates completion of the alternatives analysis in December 2015 for Board consideration in 2016.

Sinnema Quaale Revetment, Lower Snoqualmie – This flood protection facility supports an embankment adjacent to the Snoqualmie Valley Trail, two regional fiber optic lines, and State Route 203 between Carnation and Duvall. The project involves constructing a 750-foot steel shoring wall and 12 engineered log structures to stabilize the river embankment and provide enhanced aquatic habitat. Reconstruction of this revetment is underway during the 2015 construction season.

Tolt Pipeline Protection, Lower Snoqualmie – This project will reconstruct approximately 1000 linear feet of the Winkelman revetment where ongoing lateral channel migration threatens to undermine the City of Seattle’s Tolt River water supply pipeline. The project is in the preliminary design phase and is on schedule for construction in 2016.

San Souci Flood Buyouts – Acquisition of the last at-risk parcel in the San Souci neighborhood along the Tolt River completes 20 years of effort to acquire 18 parcels from willing landowners.

SE 19th Way Road Protection Revetment Repair, Lower Snoqualmie – This project was authorized as part of the 2014 capital budget adoption to repair ongoing erosion of the SE 19th Way revetment. The project is currently in the planning phase and has a target construction date of summer 2017.

Lower Russell Road Levee Setback Project – The project was in pre-design from August 2014 to September 2015. A preferred alternative was developed and approved by the District in August 2015 with significant input from project partners, the general public, state and local permitting agencies and the Muckleshoot Tribe. Bi-weekly coordination meetings to review project design iterations took place between City of Kent and King County staff. Forty citizens, Board Member Upthegrove, and Mayor Cooke attended the June 8, 2015 public meeting. The multi-benefit project was well received by those in attendance. On June 17, a design workshop was attended by 27 stakeholders to discuss habitat and recreation elements of the project. Construction is targeted for 2017.

City of Kent Partnership Projects – Staff coordinated with the City of Kent to review reimbursement requests, property transfers, engineering designs, and construction of projects paid for by the District through Interlocal Agreements. For the reporting period, these projects included the Briscoe-Desimone Levee Improvement Project and the Upper Russell Secondary Levee project. By September 2015, Reaches 2 and 3 of the Briscoe Levee Improvement Project

were completed and final deliverables were submitted to the Department of Ecology for a \$7 million State grant that funded a portion of this project. Construction of the Reach 1 floodwall was completed and the construction contract was awarded for Reach 4. Construction of the South Reach of the Upper Russell Secondary Levee Project began in August 2015 with estimated completion in December.

Teufel Nursery – Demolition of structures at the former Teufel Nursery on the Green River was completed. This site was acquired in 2011 as a future mitigation site following U.S. Army Corps of Engineers-required tree removals on the Green River in 2008-2009.

Green River Flood Damage Repairs – Two levee sections in the Lower Green River were damaged from high flows in March 2014. One site is in Auburn at the Dykstra levee; the second in Tukwila at the Desimone levee. Both projects are funded and managed through the U.S. Army Corps of Engineers PL 84-99 rehabilitation program, with the District as the local sponsor and providing local match. From April-September 2015, final plans and specifications for the Desimone Reach 1 repair were completed, the construction contract was awarded in July 2015, and construction began in August. The project is expected to be substantially complete by December 2015. The Dykstra Levee repair is anticipated for construction by the U.S. Army Corps of Engineers in summer 2016.

McAleer-Lyon Creek Channel Improvement Project - Lake Forest Park – Reimbursed the City of Lake Forest Park for this project which will re-establish a more natural floodplain widening for Lyon Creek and upgrade undersized culverts in the project area. This expenditure is a portion of the 25 percent local share for Lake Forest Park's \$3 million Federal Emergency Management Agency grant.

Lower Coal Creek Flood Hazard Feasibility Study - City of Bellevue – Bellevue was reimbursed for a project which will increase the storage capacity of the regional detention pond while maintaining fish passage and increasing conveyance capacity at five box culvert crossings. Pre-design alternatives analysis was completed during the reporting period. The second phase of the project, which includes planning, design, and construction, began in August 2015.

Countyline Levee Setback - White River – The project is progressing toward implementation. Project design is nearing 90 percent, all permit approvals have been obtained, and all land rights have been acquired. Work scopes for the construction contract and construction management services are in progress to prepare for the start of construction in spring 2016. This project offers significant flood risk benefits to the residents of the City of Pacific and reconnects floodplain habitat.

Right Bank Levee - White River - Field data collection related to the feasibility investigation involving geotechnical soil sampling and groundwater monitoring has been scoped and will be completed using a consultant. The field data will be used to understand ground conditions in the project site area near and within Pacific City Park. The field work was conducted in September, to be followed by data analyses in late 2015. Additional feasibility studies are expected to be conducted in 2016 for use in planning level design work.

City of Pacific Park Opening and Closing – County crews opened and maintained the HESCO flood barriers in spring 2015. The barriers will be closed by County crews in mid-October in

preparation for high river conditions expected in the flood season.

Acquisition and Elevation of At-Risk Structures – Five at-risk homes were elevated in the Snoqualmie basin during the reporting period; another 11 home elevations are underway.

Acquisitions for Levee or Revetment Projects – During the reporting period, five parcels, totaling 6.86 acres, were acquired to support flood risk reduction projects on the Tolt, South Fork Snoqualmie, and White Rivers.

Sub-Regional Opportunity Fund – Payments of over \$1.6 million were made to nine jurisdictions for projects intended to improve local drainage and water quality conditions. The largest single payment was to the City of Seattle with over \$1.4 million contributed to the City’s South Portland Avenue Drainage Project.

Water Resource Inventory Area (WRIA) Funding – Over \$1.4 million was paid to 18 separate non-profit or governmental agencies working on habitat conservation priorities in the Cedar-Sammamish, Green-Duwamish, White, and Snoqualmie watersheds.

Operational and Programmatic Implementation

Flood Preparedness, Regional Flood Warning Center and Post Flood Recovery Program

The District’s operational work program includes a comprehensive approach to preparing and educating citizens for flood events, coordinating emergency response and regional flood warning center operations during flood events, and ensuring consistency across basins for post-flood recovery actions. During the 2014-2015 flood season, the Flood Warning Center was opened six times for approximately 117 total hours. Preparation for the 2015-2016 flood season was a major focus of activity during the reporting period.

Staff prepared for annual coordination meetings for internal staff and external partners that take place in October. These include:

- Interagency Flood Preparedness meeting, October 5;
- Flood Warning Staff Training, October 7;
- Winter Weather Seminar, hosted by King County Emergency Management, October 15; and
- Flood Warning Patrol Training, October 19.

“Improving Access to Neighborhoods during Flood Events” report – The WLR Division transmitted the Phase 1 report to the FCD Executive Director in February 2015. The Phase 1 report included background information on road closures that isolate communities, potential solutions, an initial list of potential priority sites and proposed tasks for the Phase 2 motion response. The Phase 2 report, transmitted in April 2015, defines near-term early action activities and recommends four early action projects to reduce the impacts from flooding, erosion and channel migration that can isolate communities. These four projects were adopted by the Board as part of the July 2015 revised budget.

2014-2015 King County Flood Awareness Brochure – the flood warning brochure was translated into 21 languages and posted at www.kingcounty.gov/floodservices under “[How to prepare for a](#)

[flood](#).” The brochure features flood preparedness tools and resources, an update on District projects, and inclusion of the King County river gage and flood stage map. That information remains ready and available during any flood event to share with King County’s [Community Communication Network](#). The network is a way to exchange information (emails) between Public Health – Seattle & King County (Public Health), community-based organizations, and community leaders in order to ensure essential emergency and emergency health-related information reaches vulnerable residents of King County to inform them how to protect themselves.

Technology Updates

Updates to the King County Flood App for iOS, Android, and Windows phones are in development and expected to be released in October. The app will allow users to access multiple combined hydrographs of recent and forecasted river data. This feature will be added to the Flood Warning website. All King County websites are being migrated to a new template that is "mobile responsive" which means it adapts to a wide range of screen sizes, from small smartphone displays to big screen desktop displays. Several improvements were made to the back-end systems that manage the data used on the websites, apps and automated phone system.

Flood Hazard Studies, Mapping, and Technical Services Program

Landslide Mapping

Technical analyses have progressed and the results will revise the 2014 preliminary information into an updated, detailed map of landslide hazard areas that intersect major river floodplains. With the mapping, an inventory of landslide data is being compiled. These products will be utilized to assess flood-related risks and inform the development of capital flood risk reduction projects along the major river corridors. A second quarter 2016 completion date is anticipated.

Cedar River Channel Migration Zone (CMZ) Mapping

New mapping of channel migration hazard areas was completed for the Cedar River extending from its mouth at Lake Washington up to Landsburg Road bridge. The draft study was presented at a public meeting in January 2015 with the revised final mapping and study report completed in June 2015. Technical information from the CMZ mapping and study will be utilized to support river corridor planning and the development of capital flood risk reduction projects in the Cedar River.

Public Outreach, Flood Hazard Planning and Grants, and Repetitive Loss Mitigation

Significant outreach efforts during the reporting period include preparation for flood season, outreach about multiple construction projects, as well as outreach about floodplain planning, technical studies and maps, and other public engagement efforts. Public outreach activities during April – September supported the following projects and programs:

- 2015-2016 Flood Outreach/Take Winter By Storm Campaign Preparation (October 2015 to March 2016)
- 2015 King County River Management Survey
- Black River Pump Station Improvements
- Briscoe-Desimone Levee Improvement Project
- Cedar River Annual Public Meeting (Public Meeting November 18)

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- Cedar River Channel Migration Zone Study and Map
 - Cedar River Corridor Plan (Public Meeting May 18; Field Trip June 3; Recreation Workshop June 15)
 - Cedar River Corridor Plan Stakeholder Advisory Committee Meetings (February to July)
 - Desimone Levee Repair Project
 - Dykstra Levee Repair Project
 - Elliott Bridge Reach Mitigation Project
 - Green River Trail Maintenance Work
 - I-90 Flood Risk Reduction Project
 - King County Flood Control District Flood Reduction Fund
 - King County Flood Control District Sub-Regional Opportunity Fund
 - King County Rivers Facebook Page
 - Known Hazards in King County Rivers
 - Large Wood Annual Meeting (June 9)
 - Lower Russell Road Levee Setback Project (Public Meeting June 8)
 - Lower White River Countyline Reach Projects
 - Reddington Levee Clean Sweep Planting Event (April 25)
 - Repetitive Loss Property and Repetitive Loss Area Annual Outreach (September 30)
 - Sinnema Quale Upper Revetment Analysis and Repair Project Public Outreach and Media Event (June 4)
 - South Fork Snoqualmie River Corridor Plan (Neighborhood Meetings June-July and a larger Public Meeting July 23)
 - South Fork Snoqualmie River Channel Migration Zone Study and Mapping Preparation
 - Willowmoor Floodplain Restoration Project Stakeholder Advisory Committee (October 14)

Community Rating System Discount

The Community Rating System (CRS) is a FEMA program that provides a discount on flood insurance if the local community implements a variety of public outreach, awareness, flood response, and floodplain management activities. King County has been a Class Two community since 2007, one of the two highest rated counties in the United States. This results in a 40 percent insurance discount for policyholders in the special flood hazard area.

Every three years King County has a verification visit from FEMA's CRS program representatives to certify the continued excellence of our floodplain management programs and policies. The last visit was completed in October 2014. CRS program representatives reviewed King County's floodplain management related program including public information, mapping and regulations, capital investment and maintenance, and flood warning and response activities. We expect to hear confirmation of our Class Two status before the end of the year.

A regional CRS User's Group comprised of all CRS communities within King County including Auburn, Bellevue, Carnation, Issaquah, Kent, King County, North Bend, Renton, Snoqualmie, and the City of Redmond coordinate experiences with floodplain management and the CRS program for mutual learning and benefit.

Leveraging External Resources through Grants and Partnerships

The Washington State Floodplains by Design Program will provide funding for two project proposals submitted for multi-purpose floodplain planning and projects. Awards amount to approximately \$4.9 million for the Boeing Levee/Russell Road Improvements and Floodplain Restoration and \$5 million for the Cedar River Corridor Plan Implementation projects. Agreements are expected to be in place by the end of 2015.

In partnership with other King County agencies, a grant application was submitted to the King County Equity and Social Justice Opportunity Fund. The application requested \$8,000 to enable underserved populations to participate in programs, such as the home elevation and Rainwise programs, which they would not otherwise be able to take advantage of due to up-front costs required of participating residents. The grant was not awarded.

County staff submitted an application to the Washington State Salmon Recovery Funding Board for \$200,000 for the Willowmoor Floodplain Restoration Final Design project. This project aims to improve habitat conditions for Chinook salmon and reduce the frequency and duration of high lake levels on Lake Sammamish while maintaining downstream Sammamish River flood control performance. Grants will be awarded by December 2015.

County staff submitted an application to the Washington State Department of Ecology requesting \$500,000 under the Water Quality Grant Program. The proposed project would help meet state water quality standards for temperature in the Green River by planting 1.4 miles of river shoreline within the Lower Russell Road Levee Setback project area with native trees and shrubs, and by installing large wood clusters in in-water areas of high solar radiation to provide shade and thermal refuge for salmon. Wood clusters and plants are located on the right bank of the river where effective shade and sun aspect studies have shown tree planting to have the most potential to provide shade to reduce solar radiation warming of the water. Grant awards will be announced in July 2016.

A FEMA grant application submitted in 2012 to elevate two homes on the Lower Snoqualmie is currently being considered for the 2015 Hazard Mitigation Grant Program round (DR-4168). Decisions are anticipated by first quarter 2016.

Resource Management, Annual Maintenance, and Facility Assessment Program

This element of the District's work program includes inspections and maintenance of approximately 500 flood protection facilities along 119 linear miles of riverbank, approximately 800 acres of land, and pump stations and related flood protection infrastructure.

County staff completed 62 levee and revetment inspections between April and September. County staff also participated in four levee inspections along the Green and Cedar Rivers that were led by the staff from the Seattle District - U.S. Army Corps of Engineers. In addition, 68 maintenance sites were inspected to determine work needs to control noxious weeds and maintain native revegetated areas. These maintenance site inspections are now conducted more efficiently by using a paperless system to enter data directly into the digital River Facility Inventory database, saving approximately 30 minutes per inspection.

The maintenance program consists of four program areas:

1. During the reporting period, half of the 465 known areas of knotweed infestations were treated. The remaining areas are scheduled for treatment in October. Another 62 maintenance sites were treated for other types of noxious weeds.
2. Maintenance activities on over 50 sites included irrigation, signage, hazard tree mitigation, debris removal, mulching, and mowing. Extra water saving measures were used to efficiently irrigate native planting sites.
3. County staff conducted periodic inspections to maintain river safety signage and monitor large wood conditions at six potentially hazardous river locations.
4. Four at-risk structures were demolished and 21 water supply wells were decommissioned on the flood-buyout properties.

The Black River Pump Station forebay sediment removal project State Environmental Policy Act (SEPA) review was completed and permit application materials are being finalized for construction in 2016 and 2017. A detailed assessment of the condition of the pump station building and equipment was completed in April 2015. The assessment includes detailed capital project recommendations and cost estimates.

Staff completed annual maintenance tasks to maintain flood conveyance and sustain aquatic habitat in the Sammamish Transition Zone reach in Marymoor Park. These maintenance tasks included pruning vegetation within the navigation channel, mowing, and removing cut vegetation from the high flow channel. This work was completed as part of the commitment made in the April 2011 Lake Sammamish Flood Reduction Plan to address residential concerns around high water levels in Lake Sammamish related to the Transition Zone channel, and has become part of the dialogue with the Stakeholder Committee on the Willowmoor Project.

In the ongoing effort to ensure eligibility of Green River levees in the U.S. Army Corps of Engineers Rehabilitation and Inspection Program authorized under Public Law 84-99, 28 levee deficiencies were corrected to improve levee safety and inspectability. Additional work as identified in the Deficiency Action Plan will continue into the fall. These corrections include the removal of tree stumps, dense non-native vegetation and other encroachments within the levee and the repair of minor structural problems.

Program Management and Supervision; Finance, Budget and General Administration

This category also includes audits by the State of Washington and the District, as well as District billings, financial management and reporting, grant billings for external grants and 67 reimbursement requests as part of the Subregional Opportunity Fund, Flood Reduction, and the Cooperative Watershed Management grant programs. Approximately 282 grant agreements are administered through these programs. Finance staff provided 86 hours responding to audit questions from the District and the State Auditor's Office. Contract administration staff supported the development of four new contracts, 32 work orders and 12 contract amendments. New contracts and work orders issued during the reporting period total just over \$9 million. During this reporting period, contract administration staff also participated in four internal contract audits.

Attachment A: King County Flood Control District Capital Expenditures, April- September 2015

Basin	Apr	May	Jun	Jul	Aug	Sep	Total
SF Skykomish/Miller Rivers	\$483	\$2,677	\$730	\$2,877	\$1,126	\$1,455	\$9,349
Upper Snoqualmie River	\$452,035	\$186,562	\$124,106	\$264,959	\$211,003	\$175,215	\$1,413,881
Lower Snoqualmie River	\$126,959	\$138,269	\$164,530	\$2,678,594	\$165,417	\$1,211,219	\$4,484,988
Tolt River	\$321,735	\$26,352	\$10,711	\$153,659	\$29,119	\$31,808	\$573,385
Raging River	\$7,507	\$908	\$110	\$0	\$0	\$0	\$8,525
Sammamish River	\$37,633	\$23,598	\$14,248	\$20,996	\$9,915	\$12,955	\$119,345
Major Lake Tributaries	\$57,633	\$0	\$0	\$246	\$529,435	\$0	\$587,314
Cedar River	\$339,714	\$121,119	\$241,844	\$234,746	\$146,347	\$190,105	\$1,273,875
Green River	\$2,036,311	\$292,107	\$1,521,443	\$633,171	\$266,900	\$293,236	\$5,043,167
White River	\$164,668	\$335,112	\$195,078	\$57,997	\$59,351	\$57,088	\$869,294
Seattle Projects	\$0	\$18	\$0	\$0	\$0	\$0	\$18
Grant Fund	\$88,181	\$56,783	\$15,358	\$209,537	\$1,097,381	\$57,510	\$1,524,749
Monitoring/Maintenance	\$22,387	\$32,406	\$31,792	\$29,028	\$26,806	\$12,697	\$155,115
Subregional Opportunity Fund	\$1,559,422	\$38,874	\$439	\$18,918	\$22,472	\$303,683	\$1,943,808
Countywide Miscellaneous	\$0	\$824	\$0	\$2,106	\$600	\$98	\$3,628
Total	\$5,214,667	\$1,255,608	\$2,320,388	\$4,306,833	\$2,565,872	\$2,347,071	\$18,010,439

Attachment B: King County Flood Control District Operating Expenditures, April - September 2015

Description	Apr	May	Jun	Jul	Aug	Sep	Total
Annual Maintenance	\$62,584	\$156,192	\$184,738	\$220,772	\$291,332	\$129,179	\$1,044,798
Flood Hazards Plan, Grants, Outreach	\$30,997	\$34,869	\$26,833	\$58,467	\$38,563	\$21,774	\$211,503
Flood Hazard Studies, Maps, Technical Services	\$126,220	\$30,634	\$59,721	\$89,386	\$74,704	\$43,723	\$424,388
Flood Preparation, Flood Warning Center	\$25,963	\$2,661	\$7,098	\$5,034	\$5,245	\$14,738	\$60,740
Program Management, Supervision, Finance, Budget	\$76,670	\$78,426	\$112,998	\$108,984	\$88,226	\$93,000	\$558,303
Program Implementation	\$120,167	\$163,627	\$140,003	\$119,748	\$64,045	\$93,660	\$701,250
Overhead / Central Costs	\$295,652	(\$7,456)	\$224,938	\$53,902	\$114,610	\$97,566	\$779,213
Total	\$738,253	\$458,954	\$756,329	\$656,292	\$676,727	\$493,640	\$3,780,195