State of Hawaii
Five-Year Floodplain Management Plan

FINAL

Department of Land and Natural Resources
Engineering Division

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I. Authority

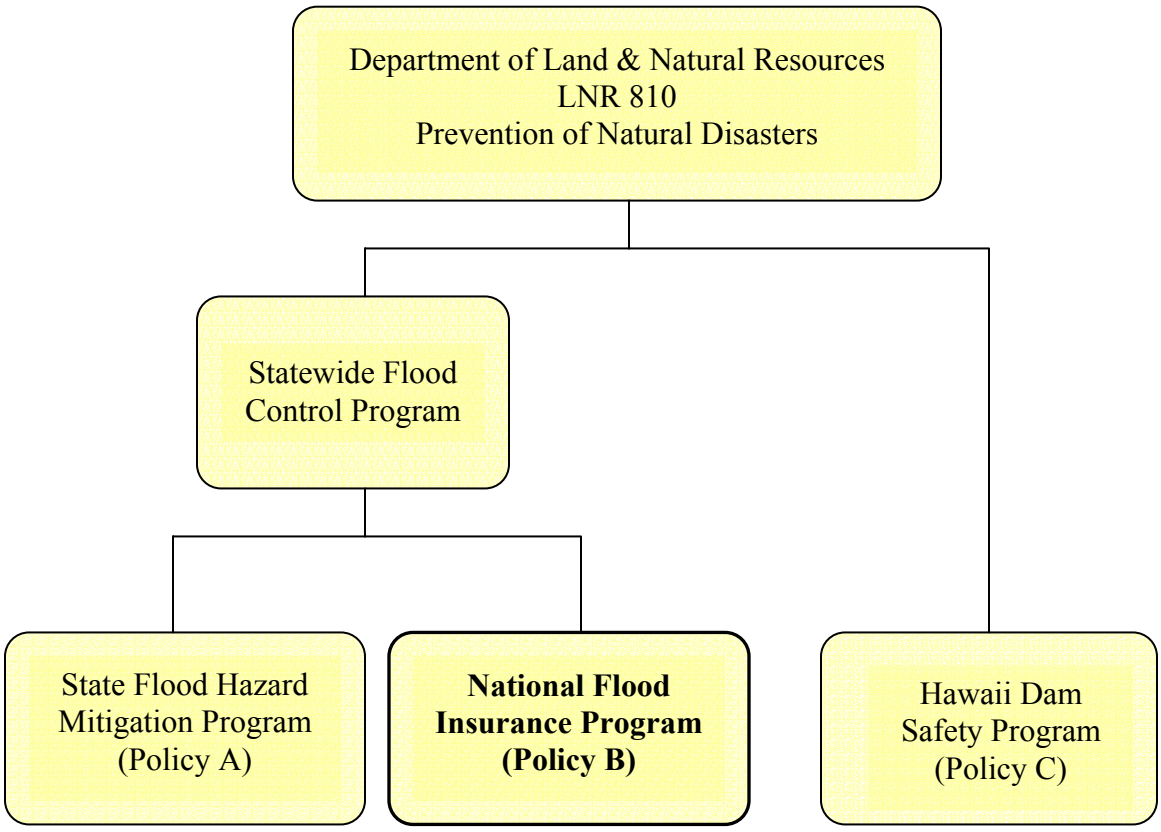
As authorized by Chapter 179 of the Hawaii Revised Statutes (HRS), the Department of Land and Natural Resources has been designated as the State Coordinating Agency of the Statewide Flood Control Program.

Under the authority set forth in HRS Chapter 179, the Department of Land and Natural Resources has been appointed as the State Coordinating Agency, responsible for administering the National Flood Insurance Program in Hawaii. Chapter 126 of the Hawaii Revised Statues authorizes the director of finance to enable the State to qualify and participate in the federal flood insurance program.

II. Vision Statement and State Policy

Hawaii's Department of Land and Natural Resources (DLNR) has the daunting mission of managing all of the natural and cultural resources within the state's public lands and ocean waters. Part of the Departments' broad scope of work includes the LNR 810 Program – Prevention of Natural Disaster.

Figure 1
Flowchart of LNR 810 Program



The goals of the LNR 810 program is to "*protect people and their property from unwise floodplain development, and to protect society from the costs associated with developed floodplain through floodplain management activities and regulations of dams and reservoirs*". In this effort, the State has implemented policies to carry out these goals.

Policy A: Utilize strategies and objectives for floodplain management from the State's Flood Hazard Mitigation Plan.

Policy B: Administer the National Flood Insurance Program to protect the public by incorporating a proactive floodplain management plan.

Policy C: Administer the State Dam Safety Program to reduce the risk for loss of life and property damage caused by dam related failures and incidents.

The purpose of this Five Year Floodplain Management Plan is to assist the Federal Emergency Management Agency (FEMA) in identifying the total workload necessary to provide an effective floodplain management plan for the State of Hawaii through the Community Assistance Program – State Support Service Element (CAP-SSSE). The CAP-SSSE is a federal program designed to utilize State assistance in ensuring that communities participating in the National Flood Insurance Program (NFIP) are achieving the flood loss reduction goals of the NFIP. Through a State grant mechanism, the Department of Land and Natural Resources provides technical assistance to NFIP communities and evaluates the community's performance in implementing NFIP floodplain management activities. Available CAP-SSSE funding is provided on a 75 percent Federal and 25 percent State cost-share basis. As a product-based program, FEMA and the State mutually agree upon specific flood loss reduction activities that will be undertaken each fiscal year through a cooperative agreement.

The remainder of this report will focus on State Policy B – the National Flood Insurance Program (NFIP) with primary emphasis on the CAP-SSSE program.

At present, all four Counties of the State are participating NFIP communities:

Table 1
Summary of NFIP Participating Communities

Community Name	Community Number	Emergency Entry Date	Regular Entry Date	Current Map Index Date	CRS* Class
County of Hawaii (Big Island)	155166	6/5/1970	5/3/1982	4/2/2004	n/a
County of Kauai	150002	4/2/1971	11/4/1981	10/18/2002	n/a
County of Maui (incl: Molokai, Lanai, and Kahoolawe)	150003	9/18/1970	6/1/1981	10/18/2002	8
City and County of Honolulu	150001	6/5/1970	9/30/1980	11/20/2000	n/a

* CRS - Community Rating System

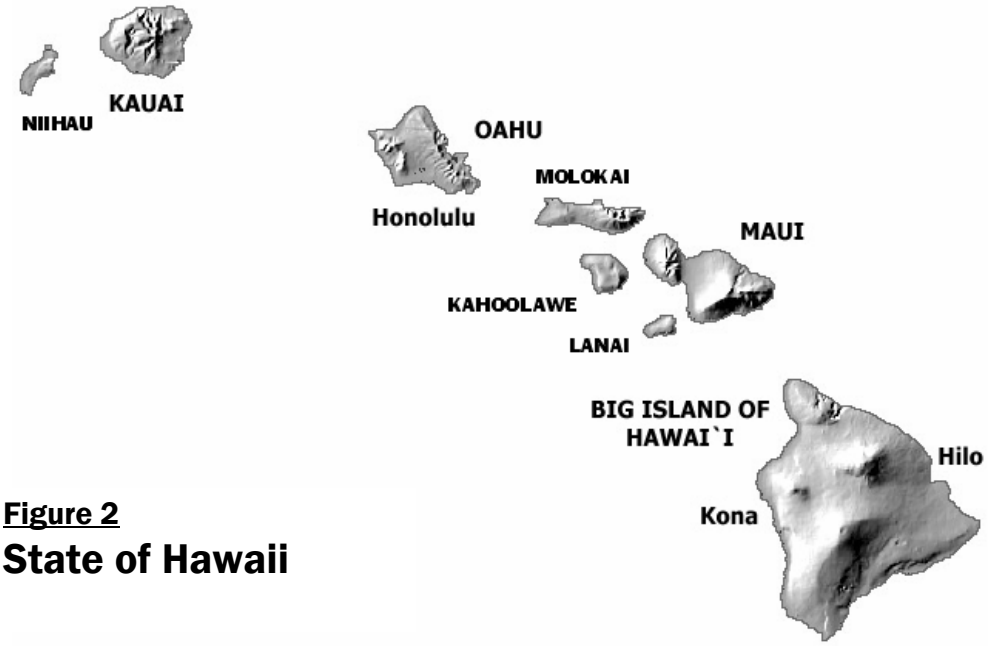


Figure 2
State of Hawaii

The State currently operates the CAP-SSSE program with a restrictive budget and inadequate staffing. With on-going budgetary cuts to the various state departments and programs and limited federal funding, the CAP-SSSE program has been unable to expand services and capabilities to further improve Hawaii's flood loss reduction efforts. With the typical program funding available, the State has only been able to accomplish the basic requirements for participation in the CAP-SSSE program. These activities include:

- Provide ordinance assistance for all four communities;
- Conduct Biennial Community Assistance Visits for each community;
- Publish and distribute a quarterly newsletter; and
- Provide technical assistance to community officials as well as the general public.

However, over the past two years, FEMA has made it possible for the State to offer additional floodplain management activities through supplemental awards. Because Hawaii has far fewer communities than our Region IX counterparts, it has the unique opportunity to be more creative in our floodplain management activities. Some of these added activities include:

- V-Zone inspections of current flood insured properties;
- Detailed Repetitive Loss Investigations;
- Additional training opportunities
- Development of a V-Zone coastal construction workshop that focuses on Hawaii's unique island environment.

Even with these added activities, the State is still deficient in it's campaign to increase public awareness of the NFIP. The State's long-term vision for the CAP-SSSE program is to have integrated coordination between State agencies with respect to planning and construction of State projects within Special Flood Hazard Areas, establish and maintain close relationships with local realtors, lenders, and insurance agents, provide comprehensive evaluations of each community's floodplain management program, reduce the number of repetitive losses, offer more training and educational workshops, and achieve 100 percent participation in the Community Rating System.

Although this vision may be a tall order to fulfill within the next five year, the State maintains its commitment to achieving these goals in the future. Success of the State's vision will be dependent upon a combination of increased Federal and State funding, as well as increased staffing. If the combination of these resources is obtained, the State will have the capability of successfully reducing flood losses in Hawaii.

III. Current Floodplain Management Activities in Hawaii

Managing floodplain development in Hawaii is a broad task that involves a variety of disciplines which include public officials, engineers, architects, surveyors, lenders, realtors, agents, and home owners/business owners. The State is currently involved in a variety of floodplain management activities, under the current FY04 CAP-SSSE cooperative agreement. These activities are described in detail below:

- Community Assistance Visits (CAV)

  The State will conduct two comprehensive program evaluation assessments within the FY04 fiscal year. Each CAV evaluation shall include:

  - A detailed audit of the Community's current Floodplain Management Ordinance and recently permitted development within the Federal Emergency Management Agency (FEMA) designated Special Flood Hazard Areas (SFHA).
  - A meeting with the State, FEMA, and local County officials to assess the community's compliance with the rules and regulations of the National Flood Insurance Program (NFIP) and to review the community's permit and variance files.
  - A floodplain tour of the community.
  - Provide a comprehensive CAV report to FEMA and the assessed community using the standard reporting format identified in FEMA Manual 7810.4 and/or as directed by the Region.
  - Provide follow-up visits and reports, as needed, to resolve any compliance issues.
  - All reporting to be entered in FEMA's Community Information System (CIS) by the State.

  The amount of time that is dedicated to review local flood ordinances will vary depending upon the outcome of the Departments request of the State Attorney

General's office on the validity of the automatic adoption clause as used in County Flood Ordinances.

Currently two (Maui County and the City and County of Honolulu) of the four participating NFIP communities use the automatic adoption clause in their local flood ordinances. The other two communities (Kauai County and Hawaii County) have opted to update their ordinances when a new map and/or study have been revised.

- Community Assistance Contacts

  Because Hawaii conducts comprehensive Community Assistance Visits on a biennial basis, the Community Assistance Contacts have been provided through CAV follow-up meetings.

- Quarterly Newsletter

  The State will prepare, publish, and distribute the Hawaii Flood Management Newsletter on a quarterly basis.

- Conferences and Training

  The State NFIP Coordinator and/or her representative shall attend the annual Association of State Floodplain Manager's Conference.

- State Hosted Workshops and Training

  The State will conduct one 8-hour basic floodplain management workshop for community officials and private sector individuals involved with floodplain development. The workshop, conducted by Ms. Diane Calhoun, will focus on floodplain management responsibilities, regulations, flood insurance studies and maps, flood insurance requirements, and effective problem solving techniques for floodplain management problems

- General Technical Assistance

  Under this assistance category, the State plans to provide a variety of technical assistance activities:
  - Accompany FEMA, to selected communities, to introduce the V-zone risk rating form and on a field tour to the island of Molokai to determine mapping needs.
  - Provide assistance to local community officials and the general public. This also includes detailed review of proposed developments within a SFHA, providing flood zone determinations, and attending meetings and/or site visits as requested by the community.
  - Maintain a website dedicated to safe Floodplain Management in Hawaii.

- V-Zone Inspections of Flood Insured Properties

  Based on a listing provided by FEMA, the State will conduct a field investigation of up to 200 Hawaii County's V-zone flood insured properties and provide an inspection report of our findings.

- Repetitive Loss Investigation

  Based on the 2004 Repetitive Loss Portfolio provided by FEMA, the State will conduct a field investigation of the repetitive loss structures and research building permit history (if any) with the community. Upon completion of the investigation, a report will be provided to FEMA.

- Coordination with Region IX and other State Agencies

  The State will attend the annual CAP-SSSE Conference held at FEMA Region IX's office in Oakland California. At this conference the State will inform the region of current events and program matters.

- Assistance to Communities in Responding to Disasters

  The State will provide post disaster assistance and support to NFIP communities in the event of a disaster.

Provided the adequate resources are available, Hawaii plans to continue to conduct these basic floodplain management activities for at least the next five years.

Table 2
Summary of Current Floodplain Management Activities

Current Floodplain Management Activities	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
Ordinance Assistance	●	●	●	●	●	●
Community Assistance Visits	●	●	●	●	●	●
Community Assistance Contacts	●	●	●	●	●	●
Quarterly Newsletter	●	●	●	●	●	●
Conferences and Training	●	●	●	●	●	●
State Hosted Workshops and Training	●	●	●	●	●	●
General Technical Assistance	●	●	●	●	●	●
Assistance to Communities in Responding to Disasters	●	●	●	●	●	●
Coordination with Region IX and other State Agencies	●	●	●	●	●	●
V-Zone inspections of Flood Insured Properties	●	●				
Repetitive Loss Investigation			●	●	●	

IV. Needs Analysis / Gap Assessment

The State's LNR 810 program is funded by several sources and supports a variety of different Federal programs such as the CAP-SSSE and the Hawaii Dam Safety Program, as well as co-sponsoring a variety of community funded flood control projects and/or studies. Although the state general funds appropriated to the LNR 810 program for state fiscal year 2005 (July 1, 2005 to June 30, 2006) amounts to $116,333.00, the funding allocation for the CAP-SSSE program is limited to $26,955.00.

The federal portion of the funding for the CAP-SSSE program, is awarded annually based on Congressional appropriation for the National Flood Insurance Program. For the federal fiscal year 2004, Hawaii was awarded a base CAP-SSSE grant of $60,380.00. However, additional funding was made available for FY04 and the Federal award was increased to $72,640.00. Typically, Hawaii receives an annual average grant award of approximately $55,000.00 - $60,000.00.

Based on the state's FY05 general fund share of $26,955.00, a Federal award of $60,000.00 would fall short of the 75 percent Federal / 25 percent State cost share agreement. A Federal award of $80,865.00 would provide a 75% match to the State's $26,955.00 (25%) contribution.

With an increase in the Federal award, the State would be able to expand it's current floodplain management activities to include additional follow-up CAV meetings to resolve local program deficiency in each community, additional training workshops, increased exposure and distribution of our quarterly newsletter, and closer coordination with other State agencies upon development and implementation of a State Executive Order for Floodplain Management.

As mentioned previously, Hawaii does not currently have a mechanism for insuring NFIP compliance at the State level. The Department of Land and Natural Resources is actively working on developing a State Executive Order for Floodplain Management, so the regulatory requirements of the program are mandated for all State agencies.

Although additional funding is a vital and necessary prerequisite for expanding the CAP-SSSE program in Hawaii, the State would not be able to utilize additional funds without additional manpower and related resources. When the opportunity to increase staffing becomes a viable option at the State level, the CAP-SSSE program will need to generate additional funds on the order of $35,000.00 to support one Engineering Aid IV (EA IV) position (*based on a FY04 salary schedule*). At that time, increased funding contributions from both FEMA and the State would be necessary to secure additional staff.

V. Proposed Floodplain Management Activities

Part of the State's strategy to enhance and improve the CAP-SSSE program is to implement new floodplain management activities, in addition to expanding on current activities. These new activities may include, but are not limited to:

- Development of a State Executive Order (EO) for Floodplain Management and Coordination with other State Agencies as it relates to the NFIP;
- Annual Statewide Floodplain Managers Conference;
- Certified Floodplain Management Program;
- Community Rating System – State Assistance Program; and
- Flood Audit for At-Risk Commercial Structures.

Table 3
Performance Timeline of Proposed Floodplain Management Activities

Proposed Floodplain Management Activities	FY04	FY05	FY06	FY07	FY08	FY09
Development of State EO for Floodplain Management and Coordination with other State Agencies as it relates to the NFIP		●	●	●	●	●
Annual State Floodplain Management Conference		●	●	●	●	●
Certified Floodplain Management Program		●	●	●	●	●
CRS – State Assistance Program				●	●	●
Flood Audits for At-Risk Commercial Structures					●	●

Hawaii does not currently have a mechanism for insuring NFIP compliance at the State level. The Department of Land and Natural Resources is actively working on developing a State Executive Order for Floodplain Management so the regulatory requirements of the program are mandated for all State agencies.

All of the existing and proposed floodplain management activities can be categorized into one of three product groups: Regulatory, Public Awareness, and Technical Assistance. The percentage of time the State plans to invest in each group is estimated as follows:

Regulatory:	70 %
Public Awareness:	20%
Technical Assistance:	10%

The following proposals are estimates of the funding required to successfully implement the proposed floodplain management activities:

- Development of a State Executive Order for Floodplain Management and Coordination with other State Agencies as it relates to the NFIP:

  Scope of work:

  Hawaii does not currently have a mechanism for insuring NFIP compliance at the State level. This activity would provide for the development of a State Executive Order for Floodplain Management, training workshops, and continued coordination with State Agencies as it relates to development within floodplains.

Table 4
Cost Estimate – State Executive Order and State Agencies Coordination

Position Type	Description of Work	Quantity	Units	Unit Cost	Total Cost
Personnel Expenses					
EM VII	Personnel hours	24	Hours	$38.50	$924.00
CE VI	Personnel hours	16	Hours	$37.40	$598.40
CE V	Personnel hours	96	Hours	$31.70	$3043.20
Sec II	Personnel hours	40	Hours	$14.71	$588.40
EA IV (new position)	Personnel hours	192	Hours	$12.33	$2367.36
Fringe Benefits @ 34.6% =					$2602.39
Incidental Expenses					
---	Misc.Workshop Expenses	1	LS	$1000.00	$1000.00
Total Estimated Cost =					$11,123.75

This activity could be accomplished without the new EA IV position. Therefore, the cost estimate for this activity would be reduced to $7937.28.

- Statewide Floodplain Managers Conference:

Scope of work:

Co-sponsor with FEMA Region IX an annual Statewide Floodplain Managers Conference. The location would alternate communities each year. The conference would provide a venue for community officials to discuss program issues and receive training. This floodplain management activity would provide for airfare, lodging, and ground transportation to this annual event for up to two personnel per non-host community and two State representatives. Depending upon the agenda, the conference would either be one-day or a two-day event. The cost estimates for both options are listed in the table below.

Table 5
Cost Estimate - Statewide Floodplain Managers Conference

Position Type	Description of Work	Quantity	Units	Unit Cost	Total Cost
Personnel Expenses					
CE V	Personnel hours	40	Hours	$31.70	$1268.00
EA IV (new position)	Personnel hours	24	Hours	$12.33	$295.92
Fringe Benefits @ 34.6% =					$541.11
Incidental Expenses					
---	Inter-Island airfare (8RT)	16	Coupon	$100.50	$1608.00
Option A	Ground Transportation (one-day conference)	4	Days	$40.00	$160.00
Option B	Ground Transportation (two-day conference)	8	Days	$40.00	$320.00
Option A	Per Diem (one-day conference)	8	Days	$20.00	$160.00
Option B	Per Diem (two-day conference)	16	Days	$80.00	$1280.00
---	Misc. Event Expenses	1	LS	$300.00	$300.00
Total Estimated Cost (Option A) =					$4333.03
Total Estimated Cost (Option B) =					$5613.03

This activity could be accomplished without the new EA IV position. Therefore, the cost estimate for this activity would be reduced to $3,713.73 (Option A) or $4853.73 (Option B).

- Certified Floodplain Management Program:

Scope of work:

Funding for this activity would be used to establish a certification program for floodplain managers. The goal of the program is to formalize a procedure to recognize and provide an incentive for individuals to improve their knowledge of floodplain management concepts; enhance individual professional development goals; promote an understanding of relevant subject matter that is consistent nationwide; convey new concepts and practices; and build partnerships among organizations and agencies to carry out the requirements of floodplain management and to reduce the impact caused by floods. Specific tasks would include conducting a basic NFIP training session to prepare applicants on the exam and proctoring the National Exam annually in Hawaii. The exam would be offered on rotating between communities each year

Table 6
Cost Estimate - Certified Floodplain Management Program

Position Type	Description of Work	Quantity	Units	Unit Cost	Total Cost
Personnel Expenses					
CE VI	Personnel hours	40	Hours	$37.40	$1496.00
CE V	Personnel hours	16	Hours	$31.70	$507.20
EA IV (new position)	Personnel hours	16	Hours	$12.33	$197.28
Fringe Benefits @ 34.6% =					$761.37
Incidental Expenses					
---	Interisland airfare (6RT)	12	coupon	$100.50	$1206.00
---	Ground Transportation	2	Days	$40.00	$80.00
---	Per Diem	6	Days	$20.00	$120.00
---	Workshop Speaker	1	LS	$3500.00	$3500.00
---	Misc.Workshop Expenses	1	LS	$500.00	$500.00
Total Estimated Cost =					$8367.85

This activity could be accomplished without the new EA IV position. Therefore, the cost estimate for this activity would be reduced to $7660.31.

- Community Rating System – State Assistance Program:

  Scope of work:

  In an effort to promote and encourage 100% participation in the Community Rating System, the State proposes to implement the *CRS State Assistance Program*. This program would be designed to provide State assistance in:

  - preparing non-participating communities for eligibility into the CRS program;
  - carrying out selected eligible activities, for participating communities, in an effort to maintain and/or increase community status rating for flood insurance premium reduction. The program would provide for 1 visit per quarter to each participating community.

Table 7
Cost Estimate – CRS State Assistance Program

Position Type	Description of Work	Quantity	Units	Unit Cost	Total Cost
Personnel Expenses					
EM VII	Personnel hours	64	Hours	$38.50	$2464.00
CE V	Personnel hours	256	Hours	$31.70	$8115.20
Sec II	Personnel hours	128	Hours	$14.71	$1882.88
EA IV (new position)	Personnel hours	640	Hours	$12.33	$7891.20
Fringe Benefits @ 34.6% =					$7042.23
Incidental Expenses					
---	Inter-Island airfare (12RT)	24	Coupon	$100.50	$2412.00
---	Ground Transportation	12	Days	$40.00	$480.00
---	Per Diem	12	Days	$20.00	$240.00
---	Parking	12	Days	$10.00	$120.00
---	Misc.Office Supplies	1	LS	$500.00	$500.00
Total Estimated Cost =					$31,147.51

This activity cannot be accomplished without increased staffing and operating expenses.

- Flood Audits for At-Risk Commercial Structures:

Scope of work:

In light of recent flooding that has caused many non-insured Hawaii business owners millions of dollars in flood losses, the State proposes to simulate Mecklenburg County, North Carolina's Flood Audits for At-Risk Commercial Structures project. The objectives of this activity would be to:

- Identify businesses that are located in a Special Flood Hazard Area.
- Notify business owners of their flood hazard risk, provide information on flood proofing techniques, and flood insurance options.
- Select a business as a case study to develop a flood proofing/ retrofit plan.

Table 8
Cost Estimate - Flood Audits for At-Risk Commercial Structures

Position Type	Description of Work	Quantity	Units	Unit Cost	Total Cost
Personnel Expenses					
EM VII	Personnel hours	20	Hours	$38.50	$770.00
CE V	Personnel hours	160	Hours	$31.70	$5072.00
Sec II	Personnel hours	80	Hours	$14.71	$1176.80
EA IV (new position)	Personnel hours	640	Hours	$12.33	$7891.20
Fringe Benefits @ 34.6% =					$5158.86
Incidental Expenses					
---	Interisland airfare (16RT)	32	coupon	$100.50	$3216.00
---	Ground Transportation	8	Days	$40.00	$320.00
---	Per Diem	16	Days	$20.00	$320.00
---	Misc. Office Supplies	1	LS	$3500.00	$1000.00
Total Estimated Cost =					$24,924.86

This activity cannot be accomplished without increased staffing and operating expenses.

The proposed floodplain management activities cannot be implemented without additional funding from both Federal and State resources. The following table summarizes the cost sharing distribution for the proposed floodplain management activities. Please note that the figures are based upon FY04 estimates and they do not include inflation cost increases.

Table 9
Cost Sharing for Proposed Floodplain Management Activities

Proposed Activity	Estimated Cost	Estimated Federal Share (75%)	Estimated State Share (25%)
EO and Coordination with other State Agencies	$11,123.75	$8,342.81	$2,780.94
Statewide Floodplain Managers Conference Option A (one-day conference) Option B (two-day conference)	 $4,333.03 $5,613.03	 $3,249.77 $4,209.77	 $1,083.26 $1,403.26
Certified Floodplain Management Program	$8,367.85	$6,275.89	$2,091.96
Community Rating System – State Assistance Program	$31,147.51	$23,360.63	$7,786.88
Flood Audits for At-Risk Commercial Structures	$24,924.86	$18,693.65	$6,231.21
Total Estimated Cost (with increased staffing) =	**$79,897.00-$81,177.00**	**$59,922.75-$60,882.75**	**$19,974.25-$20,294.25**

VI. Map Modernization Activities

The Department of Land and Natural Resources (DLNR) is currently unable to assist in the implementation of the State's Multi-Hazard Flood Map Modernization project, due to budgetary and staffing constraints. DLNR will not be seeking additional funding under the Map Modernization Management Support (MMMS) program at this time.

DLNR is currently awaiting ruling from the State Attorney General on the validity of the automatic adoption clause use in local flood ordinances. If the State Attorney General and affected County's Corporation Council find the use of automatic adoption of newly effective data a valid method of updating their respective ordinances, then FEMA and DLNR should not foresee an increase in staffing efforts to review ordinances upon map revisions.

VII. Performance Measures

The following tables summarize the performance milestones that will be used as a measurement to evaluate the effectiveness of Hawaii's vision and strategy.

Table 10
Percentage Base Performance Metric

Floodplain Management Activity	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
Percentage of NFIP-Participating Communities who have received a CAV visit once biennially	100	100	100	100	100	100
Percentage of Communities whose Flood Ordinances are reviewed	100	100	100	100	100	100
Percentage of Local Community Floodplain Managers who subscribe to the Hawaii Flood Management Newsletter	100	100	100	100	100	100
Percentage of Communities who are provided with Technical Assistance	100	100	100	100	100	100
Percentage of local NFIP coordinators who attend Statewide Floodplain Managers Conference (*new activity*)	--	50	100	100	100	100
Percentage of Participating NFIP who are CRS communities (*new activity*)	25	25	25	50	75	100
Percentage of local NFIP coordinators who are CFM certified (*new activity*)	50	75	100	100	100	100

Table 11
Performance Metric for Current Program Evaluation

Current Core Floodplain Management Activities	Method of Measurement
Community Assistance Visits / Community Assistance Contact	
Maintain biennial CAV meetings with each community	Submittal of two CAV reports to FEMA each year.
Improve floodplain management compliance in each community	Compare percentage with number of violations discovered in subsequent years
Increase the number of communities that adopt and enforce higher regulatory standards	Compare the number of communities in FY04 – FY09 with the number in subsequent years.
Quarterly Newsletter	
Maintain or increase the number of subscribers to the Hawaii Flood Management News	Compare number of newsletter distributed (hardcopy and electronically) quarterly per fiscal year with the percentage comparison in subsequent years.
Conferences and Training	
Maintain or increase number of local and state floodplain managers attending the annual ASFPM conference	Compare percentage of Hawaii attendee in FY05 – FY09 with the percentage in subsequent years.
Increase the number of local and state floodplain managers attending EMI courses offered at Emmitsburg.	Compare percentage of training attendance in FY05 – FY09 with the percentage in subsequent years.
Maintain attendance at the annual CAP-SSSE conference held at FEMA Region IX office.	Ensure attendance each year.
State Hosted Workshops and Training	
Maintain or increase number of training workshops offered to local officials, lenders, agents, realtors, and private sector consultants	Compare percentage of training offered in FY05 – FY09 with the percentage in subsequent years.
General Technical Assistance	
Quantify general technical assistance calls	Document all technical assistance inquires in technical assistance phone log.
Coordination with Region IX and other State Agencies	
Increase State inter-agency compliance with the NFIP	Develop State Executive Order for Floodplain Management

Table 12
Performance Metric for Proposed Floodplain Management Activity Evaluation

Proposed Floodplain Management Activities	Method of Measurement
Community Rating System – State Assistance Program	
Increase the number of CRS communities	Compare the number of CRS communities in FY05 – FY09 with the number in subsequent years.
Increase the CRS class improvements in each participating CRS community	Compare the CRS class rating for each participating CRS community in FY05 – FY09 with subsequent years.
Statewide Floodplain Managers Conference	
Increase Floodplain Management training in State.	Compare percentage of training attendance in FY05 – FY09 with the percentage in subsequent years.
Certified Floodplain Management Program	
Increase the number of certified floodplain managers (CFM) in Hawaii.	Compare the number of CFMs in FY04 with the number in subsequent years.
Flood Audits for At-Risk Commercial Structures	
Increase the number of flood insured commercial businesses in Hawaii.	Compare the number of flood insured businesses with the number in subsequent years.