

## Chapter 5 Appendix B State Mitigation Capability Assessment

Agency Name (Mission/Function) <b>County of Hawaii</b>	Programs, Plans, Policies, Regulations, Funding, or Practices	Point of Contact Name, Address, Phone, Email	Effect on Loss Reduction*			Comments
			Support	Facilitate	Hinder	
Building Division, Department of Public Works	<ul style="list-style-type: none"> <li>▪ Name of standard building code-UBC</li> <li>▪ Version of code-1991</li> <li>▪ Year codes adopted-1993</li> <li>▪ Prescriptive provisions for dealing w/light wood frame and masonry construction in high wind areas -2425: not adopted, 2518: adopted</li> <li>▪ Minimum wind speed in code-80 mph</li> <li>▪ Compliance required for self-built structures -Yes</li> <li>▪ Required building plans for single &amp; multi-family structures needing permits -Yes</li> <li>▪ Permitted structures requiring no plans -None</li> <li>▪ Required stamp by architect or engineer on plans -Yes</li> <li>▪ Exceptions to stamp requirement-R3 ≤ 1300; R3 &amp; M1 ≤ 1800; non-residential: 1 story ≤ \$40 K; 2 story ≤ \$35 K</li> <li>▪ Inspections performed by government employed building inspectors -No</li> <li>▪ Approved non-government building inspectors</li> <li>▪ Structural engineers; special requests &amp; approval.</li> <li>▪ Building permit fees required-Yes</li> <li>▪ Rate of permit fees -Scaled for residential from \$10 for ≤ \$500 up to \$355 for first \$50 K, plus \$3 per \$1,000</li> <li>▪ Number of structural inspections for single family dwellings - 4</li> <li>▪ Points in construction process for various inspections - foundation, framing, walls ties, final</li> <li>▪ Plans to adopt more recent versions of standard building codes -No</li> <li>▪ Version of codes to be adopted-1997 UBC</li> <li>▪ Other changes planned for next three years-Yes</li> <li>▪ Types of changes to codes -In 1997 UBC (County adoption pending) increase in seismic zone from 3 to 4.</li> <li>▪ Length of time for government review and adoption of new standard building codes -6 months</li> <li>▪ NFIP minimum standards as part of permit system -Yes</li> <li>▪ Administration of NFIP minimum standards -Chief engineer approval; floodplain administrator - permit review, mapping, &amp; gathering info</li> </ul>	Brian Kajikawa, 961-8321	YES	YES		

Planning Department		Chris Yuen, 961-8288	YES	YES		
Civil Defense	<ul style="list-style-type: none"> <li>▪ Education is #1 priority: Center for Study of Active volcanoes at UH-H; special lectures; tsunami museum; DOE curriculum – earthquake exercise, faculty training</li> <li>▪ Earthquake Advisory Board: increase awareness on zoning requirements through brochures distributed with building permit.</li> </ul>	Troy Kindred, 935-0031	YES	YES		
Flood Coordinator	<ul style="list-style-type: none"> <li>▪ Design for channelization of Waieka Stream being planned</li> </ul>	Kelly Gomes (Hilo) 961-8327 Kiran Emler (Kona) 327-3530	YES	YES		
Solid Waste/Division		Barbara Bell, 961-8083	YES	YES		
Wastewater/Division	<ul style="list-style-type: none"> <li>▪ Have developed emergency response plan</li> </ul>	Peter Boucher, 961-8338	YES	YES		
Housing Department	<ul style="list-style-type: none"> <li>▪ Code compliance of building codes (esp. to earthquake zones)</li> </ul>	Edwin Taira, 961-9379	YES	YES		
Information Services		Department of Data Systems, Clayton Yugawa, 961-8207				

U.S. Army Corps of Engineers	<ul style="list-style-type: none"> <li>▪ Palai Stream flood control –feasibility underway.</li> <li>▪ Keopu-Hienaloli Stream flood control- feasibility underway</li> <li>▪ Repairs to Paauau Stream, Waiakea-Uka Stream, Wailoa Stream, Alenaio Stream - in construction</li> <li>▪ Hurricane Evacuation Study for County of Hawaii- starting.</li> <li>▪ Waiakea Stream Flood Control - feasibility pending agreement with County.</li> <li>▪ Holualoa Flood Hazard Special Study- underway Upper Alenaio Stream (FEMA Flood Insurance)</li> <li>▪ Palai Stream flood control – completed reconnaissance, pending further review.</li> <li>▪ Hilo Light Draft Harbor – starting reconnaissance</li> <li>▪ Tie-down of propane tanks (MAP)</li> <li>▪ Upgrade of Seismic Zone (MAP)</li> <li>▪ Hardening Koloa Fire Station Doors (HMGP)</li> <li>▪ Hardening sewage treatment plants (HMGP)</li> <li>▪ Pacific Tsunami Museum outreach/education (HMGP)</li> <li>▪ Retrofit Hilo Central Fire Station (HMGP)</li> <li>▪ Videotape on Volcanic and Seismic Hazards (HMGP)</li> <li>▪ Breathing Protection for school Students, Teachers, and Staff (HMGP)</li> <li>▪ UH-H Outreach Programs on 5 major hazards – including seminars for teachers, community groups, schools, and teacher training (HMGP)</li> </ul>	Paul Mizue, 438-8880	YES	YES		
Coastal Zone Management	<ul style="list-style-type: none"> <li>▪ Hawaii Shoreline Erosion Management Study</li> <li>▪ Aerial Photograph Analysis of Coastal Erosion...</li> </ul>		YES	YES		
Electric Utility		HELCO				
Phone Company		Nextel, 800-947-8500 Cingular, 639-5000 Verizion, 245-6654 Windward Wireless, 823-8801				

Agency Name (Mission/Function) <b>City and County of Honolulu</b>	Programs, Plans, Policies, Regulations, Funding, or Practices	Point of Contact Name, Address, Phone, Email	Effect on Loss Reduction*			Comments
			Support	Facilitate	Hinder	
<b>Building Department</b>	<ul style="list-style-type: none"> <li>▪ Name of standard building code-UBC</li> <li>▪ Version of code -1991</li> <li>▪ Year codes adopted -1994</li> <li>▪ Structural design provisions amended-No</li> <li>▪ Prescriptive provisions for dealing w/light wood frame and masonry construction in high wind areas -Yes</li> <li>▪ Minimum wind speed in code-80 mph</li> <li>▪ Compliance required for self-built structures -Yes</li> <li>▪ Required building plans for single &amp; multi-family structures needing permits -Yes</li> <li>▪ Permitted structures requiring no plans -None</li> <li>▪ Required stamp by architect or engineer on plans -Yes</li> <li>▪ Exceptions to stamp requirement-1 story ≤ \$40K; 2+ stories ≤ \$35 K</li> <li>▪ Inspections performed by government employed building inspectors -Yes</li> <li>▪ Approved non-government building inspectors -Special inspection for sheathed shear walls, diaphragms, uplift ties, etc., acc. to UBC Sec 306.</li> <li>▪ Building permit fees required-Yes</li> <li>▪ Rate of permit fees - scaled for residential. Begins at \$8 for ≤ \$500</li> <li>▪ Number of structural inspections for single family dwellings -4</li> <li>▪ Points in construction process for various inspections - foundation, framing, fire rated walls, final</li> <li>▪ Plans to adopt more recent versions of standard building codes -Yes</li> <li>▪ Version of codes to be adopted-1994</li> <li>▪ Anticipated date for adoption of new codes -2003</li> <li>▪ Other changes planned for next three years-No</li> <li>▪ Length of time for government review and adoption of new standard building codes -18 months</li> <li>▪ NFIP minimum standards as part of permit system -Yes</li> <li>▪ Administration of NFIP minimum standards -Permits; districting; penalties</li> </ul>	Wayne Inoyue, 523-6308	YES	YES		
Planning Department		Department of Planning and Permitting, Eric Crispin, 523-4432				
Civil Defense		Mark Marshall, 241-1800				

Flood Coordinator		Mario Siu-Li, 523-4247				
Solid Waste/Division	<ul style="list-style-type: none"> <li>▪ National Disaster Debris Management Plan</li> </ul>	John Lee, Refuse Division, 692-5358	YES	YES		
Information Services		Ken Schmidt, Department of Planning, 527-6012				
U.S. Army Corps of Engineers	<ul style="list-style-type: none"> <li>▪ Waolani Stream (FEMA Flood Insurance)</li> <li>▪ Ala Wai Canal –joint flood control &amp; ecosystem project in feasibility.</li> <li>▪ Kahuku Area- joint flood control &amp; ecosystem project - feasibility underway</li> <li>▪ Wailele Stream flood control – feasibility underway</li> <li>▪ Barbers Point harbor – feasibility investigations underway</li> <li>▪ Wailupe Stream - design report pending agreement with City/State</li> <li>▪ Kuliouou Stream Flood Control - pending feasibility start.</li> <li>▪ Hauula/Punaluu/Kaaawa Shore Protection – completion of construction documents on hold pending real estate acquisition</li> <li>▪ Waikiki Erosion Control - in initial reevaluation report stage.</li> <li>▪ Waimanalo Stream &amp; Reservoir Flood Hazard Study- starting</li> <li>▪ Paukaulia Stream Special Study – flood plain study</li> <li>▪ Waolani Stream (FEMA Flood Insurance)</li> <li>▪ Ala Wai Canal – floodplain study (with state)</li> <li>▪ Barbers Point harbor – feasibility investigations underway (with state)</li> <li>▪ Makaha coast shore protection – reconnaissance stage</li> <li>▪ Haleiwa/Waialua Flood control – completed reconnaissance, on hold pending funding</li> <li>▪ Wailele Stream flood control – completed reconnaissance, on hold pending funding</li> <li>▪ Honolulu Harbor – completing reconnaissance study</li> <li>▪ Keehi Lagoon – starting reconnaissance Hauula/Punaluu/Kaaawa Shore Protection – completion of construction documents on hold pending real estate acquisition and completion of environmental documentation</li> <li>▪ Lualualei Flood Control – technical study underway for drainage/flood control recommendations (with NRCS) <ul style="list-style-type: none"> <li>▪ Building 525, Fort Shafter</li> </ul> </li> <li>▪ <b>preparing design for relocation &amp; expansion of the Pacific Ocean Division/Honolulu Engineer District Emergency Operations Center</b></li> <li>▪ Flood proofing Sunset Terrace (HMGP) Association Sewage Treatment Plant (HMGP)Hardening Honolulu Harbor Operations and Facilities</li> </ul>	Paul Mizue, 438-8880	YES	YES		

Coastal Zone Management	<ul style="list-style-type: none"> <li>▪ Oahu Shoreline Study</li> </ul>		YES	YES		
Electric Utility	<p>HECO</p> <ul style="list-style-type: none"> <li>▪ Conducted joint exercise with state Civil Defense</li> <li>▪ Completed <i>Emergency Response Plan</i>.</li> <li>▪ Conducted "table top" exercise and a functional test with employees.</li> </ul>	Alva Nakamura 543-7070	YES	YES		
Phone Company	<p>GTE Hawaiian Tel AT and T Wireless 627-8500 Virtual wireless, 739-9677 Nextel, 262-8561 Sprint Hawaii/Sprint PCS, 800-480-4727 Verizion Wireless, 627-0077</p>					

Agency Name (Mission/Function) <b>County of Kauai</b>	Programs, Plans, Policies, Regulations, Funding, or Practices	Point of Contact Name, Address, Phone, Email	Effect on Loss Reduction*			Comments
			Support	Facilitate	Hinder	
			Division of Building	<ul style="list-style-type: none"> <li>▪ Name of standard building code-UBC</li> <li>▪ Version of code-1997 (with highway appendices)</li> <li>▪ Year codes adopted-1999</li> <li>▪ Structural design provisions amended-No</li> <li>▪ Prescriptive provisions for dealing w/light wood frame and masonry construction in high wind areas -Yes</li> <li>▪ Minimum wind speed in code-80 mph</li> <li>▪ Compliance required for self-built structures -Yes</li> <li>▪ Required building plans for single &amp; multi-family structures needing permits -Yes</li> <li>▪ Permitted structures requiring no plans -None</li> <li>▪ Required stamp by architect or engineer on plans -Yes</li> <li>▪ Exceptions to stamp requirement-1 story: \$40K; 2 stories: \$435 K</li> <li>▪ Inspections performed by government employed building inspectors -Yes</li> <li>▪ Approved non-government building inspectors -Special inspections in 1997 UBC, but not rigidly applied.</li> <li>▪ Building permit fees required-Yes</li> <li>▪ Rate of permit fees -Scaled for residential from \$10 for ≤ \$500 up to \$516 for first \$100 K plus \$3 per \$1,000</li> <li>▪ Number of structural inspections for single family dwellings -6</li> <li>▪ Points in construction process for various inspections - foundation slab \flooring, framing, load path \up lift ties, gypsum board\bath, final</li> <li>▪ Plans to adopt more recent versions of standard building codes -Yes</li> <li>▪ Version of codes to be adopted-2003 1 BC</li> <li>▪ Anticipated date for adoption of new codes -2005</li> <li>▪ Other changes planned for next three years-No</li> <li>▪ Length of time for government review and adoption of new standard building codes -18 months</li> <li>▪ NFIP minimum standards as part of permit system -Yes</li> <li>▪ Administration of NFIP minimum standards -Building permit; Certificate of Occupancy; permit reviews; flood certification; penalties for non-compliance</li> </ul>		

Planning Department		Ian Costa, 241-6677				
Civil Defense		Mark Marshall, 241-1800				
Flood Coordinator	<ul style="list-style-type: none"> <li>▪ NFIP standards (Ch.27, HI City Code)</li> </ul>	Wally Kudo,241-6610	YES	YES		
Solid Waste/Division	<ul style="list-style-type: none"> <li>▪ Disaster Degree Action manual being compiled</li> <li>▪ Debris management</li> </ul>	Troy Tanigawa, 241-6880	YES	YES		
Wastewater/Division		Mel Matsumoto, 241-6610				
Housing Department		Ken Rainforth, 241-6445				
Information Services		Department of Finance, 241-6523				
U.S. Army Corps of Engineers	<ul style="list-style-type: none"> <li>▪ Kikiaola Harbor –completing construction documents</li> <li>▪ Nawiliwili Harbor - feasibility start pending agreement with State</li> <li>▪ Hurricane Evacuation Study – coastal inundation and vulnerability components (with FEMA)</li> <li>▪ Hardening of the Kauai War memorial Convention Hall (emergency shelter) (MAP) <ul style="list-style-type: none"> <li>▪ Survey of buildings and hotels for emergency shelters (MAP)</li> <li>▪ Project Hoomalu (HMGP)</li> <li>▪ Hardening essential facilities (HMGP)</li> <li>▪ Hardening Anahola Community Center (emergency shelter) (HMGP)</li> </ul> </li> <li>▪ Hardening Pepeekeo Radio Relay Facility (HMGP)</li> </ul>	Paul Mizue, 438-8880	YES	YES		
Coastal Zone Management	<ul style="list-style-type: none"> <li>▪ Kauai Shoreline Erosion Management Study</li> <li>▪ Aerial Photograph Analysis of Coastal Erosion...</li> </ul>		YES	YES		
Electric Utility		Kauai Island Electric Co				

Phone Company		Verizon, AT and T Wireless, 327-9300 Nextel, 331-1600 Hilo Kine Wireless, 96909649 Sperry Communications, 326-2224 Voicestream's Wireless Paradise,			
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Agency Name (Mission/Function) <b>County of Maui</b>	Programs, Plans, Policies, Regulations, Funding, or Practices	Point of Contact Name, Address, Phone, Email	Effect on Loss Reduction*			Comments
			Support	Facilitate	Hinder	
<b>Division of Public Works, Environmental Management. Division of Development Services Administration</b>	<ul style="list-style-type: none"> <li>▪ Name of standard building code-UBC</li> <li>▪ Version of code-1997 with amendments</li> <li>▪ Year codes adopted-2000</li> <li>▪ Structural design provisions amended-No</li> <li>▪ Prescriptive provisions for dealing w/light wood frame and masonry construction in high wind areas -Appendices adopted but provisions optional</li> <li>▪ Minimum wind speed in code-80 mph</li> <li>▪ Compliance required for self-built structures -Yes</li> <li>▪ Required building plans for single &amp; multi-family structures needing permits -Yes</li> <li>▪ Permitted structures requiring no plans -None</li> <li>▪ Required stamp by architect or engineer on plans - Yes</li> <li>▪ Exceptions to stamp requirement-Per Hawaii Revised Statutes Section 464-13</li> <li>▪ Inspections performed by government employed building inspectors -Yes</li> <li>▪ Approved non-government building inspectors Yes, for Special inspections required by Section 1707</li> </ul>	Clement Enomoto, 270-7236				
<b>Division of Public Works, Environmental Management. Division of Development Services Administration (cont.)</b>	<ul style="list-style-type: none"> <li>▪ Version of codes to be adopted-2000IBC</li> <li>▪ Anticipated date for adoption of new codes -No set date</li> <li>▪ Other changes planned for next three years-No</li> <li>▪ Length of time for government review and adoption of new standard building codes -18 months</li> <li>▪ NFIP minimum standards as part of permit system - Yes</li> <li>▪ Administration of NFIP minimum standards - Department of Planning,</li> <li>▪ Special Flood Hazard Area Development Permit, flood map revisions</li> <li>▪ Building permit fees required-Yes</li> <li>▪ Rate of permit fees -Scaled for residential from \$15 for ≤ \$500; \$639.50 for first \$100 K to \$500 K, plus \$3.50 per \$1,000</li> <li>▪ Number of structural inspections for single family dwellings -2</li> </ul>		YES	YES		

Planning Department	<ul style="list-style-type: none"> <li>▪ Points in construction process for various inspections</li> <li>▪ Fire rated walls, final, framing, foundation</li> <li>▪ Plans to adopt more recent versions of standard building codes -Yes</li> <li>▪ Amending shoreline rules with Dr. Fletcher for most populated areas of island</li> <li>▪ Participate in Project Impact Conference in 2000 in Wash, D.C.</li> <li>▪ Working on photo of shoreline structures and determine conformity of irrigation lines and shoreline structures</li> <li>▪ Modify shoreline area rules (Ch. 203, Maui Planning Commission). Stricter development standards within shoreline setback.</li> <li>▪ <i>Beach Management Plan</i> received County Council endorsement.</li> <li>▪ Updated Flood Hazard Ordinance to comply with FEMA after H. Iniki.</li> </ul>	Clayton Yoshida (270-7735)	YES	YES		
Civil Defense		Kyle Watanabe (243-7285)				
Flood Coordinator		Francis Cerizo, 270-7771				
Solid Waste/Division		John Harder, Chief Solid Waste Division 270-7881				
Wastewater/Division	<ul style="list-style-type: none"> <li>▪ Attended conference for Emergency Preparedness</li> <li>▪ Have developed emergency response plan</li> </ul>	Tracey Takimine, 270-7421	YES	YES		
Housing Division		270-7805				

Information Services		Department of Management Information Services, Jacob Verkerke, 270-7842				
U.S. Army Corps of Engineers	<ul style="list-style-type: none"> <li>▪ Iao Stream Modification – continuing design report</li> <li>▪ Hurricane Evacuation Study -starting</li> <li>▪ Maalaea Harbor – completing environmental documentation</li> <li>▪ Kaumalapau Harbor (Lanai) – completing construction documents</li> <li>▪ Launiupoko Shore Protection – under construction.</li> <li>▪ Kahului Light Draft Harbor – completing construction documents</li> <li>▪ Kahoolawe SBH- reconnaissance underway</li> <li>▪ Kapaakea Stream - reconnaissance underway</li> <li>▪ Kihei Area Erosion - reconnaissance underway</li> <li>▪ Hurricane Evacuation Study – (with FEMA, pending 3/99 interagency decisions)</li> <li>▪ Hanalei River, Maui Floodway (FEMA Flood Insurance)</li> <li>▪ Wailuku River (FEMA Flood Insurance)</li> <li>▪ Kuau Point (FEMA Flood Insurance)</li> <li>▪ Iao Stream Modification – continuing feasibility investigations</li> <li>▪ Kahului Harbor – starting reconnaissance</li> <li>▪ Maalaea Harbor – completing environmental documentation</li> <li>▪ Kaumalapau Harbor (Lanai) – completing construction documents</li> <li>▪ Launiupoko Shore Protection – completing construction documents</li> <li>▪ Kahului Light Draft Harbor – completing construction documents</li> <li>▪ Survey of buildings and hotels for emergency shelters (MAP)</li> <li>▪ Hardening Maui Memorial Medical Center (HMGP)</li> </ul>	Paul Mizue, 438-880	YES	YES		
Coastal Zone Management	<ul style="list-style-type: none"> <li>▪ Ariel Photograph Analysis of Coastal Erosion</li> </ul>		YES	YES		
Electric Utility		MECO				

Phone Company		AT and T Wireless, 871-2111 Nextel, 800-639-8359 Sprint, 566-9479 Verizon Wireless, 1-800-256-4646  Voice Stream 808-873-3260				
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