



**US Army Corps  
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**FOR IMMEDIATE RELEASE**

**February 8, 2007**

## **Honolulu District Announces 2006 Flood Damage Prevention Figures**

**By Honolulu District Public Affairs**

**(HONOLULU – NR-05-07)** During Fiscal Year 2006, the total flood damages prevented by reservoirs, levees and emergency operations under the Honolulu District's jurisdiction totaled \$23,191,457.

Of this total, \$57,175 was from projects in Guam and American Samoa with the rest from the State of Hawaii.

When the Corps of Engineers designs and builds a project to reduce flood damages, it also estimates how much damage would have been caused by various storm events had the project not been built. These estimates, updated to current dollar values, are used to calculate the damages avoided with the project in place.

March 2006 was an exceptionally wet and record-breaking month in the State of Hawaii. According to the National Weather Service (NWS) the state was under 22 days of flash flood warnings, suffered one damaging tornado and three verified severe thunderstorms.

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## **2-2-2 FLOOD REDUCTION**

- Kahawainui Stream, Island of Oahu: A total of \$14,173,716 in damage from heavy rains was prevented to the town of Laie by this project on March 2, 2006 during a stormy period that lasted from March 1-3, 2006. Peak stream stage was 4.86 feet, which is 2.36 feet higher than the zero damage level of 2.50 feet.
- Hanapepe River, Island of Kauai: A total of \$3,082,199 damages were prevented by this project from five storms that occurred on October 1, 2005, March 10, 15, and 26, 2006 and August 7, 2006. Thunderstorms generated by the remnants of Hurricane Kenneth caused the flash flooding on October 1, 2005. Damages were sustained island wide from the March storms which caused road closures, flooding of low-lying areas, cesspool back-ups, landslides island-wide and the Ka Loko Reservoir breach. The highest peak flow occurred during the March 15, 2006 storm. A peak of 23,800 cubic feet per second (cfs) was recorded, which is 19,800 cfs higher than the zero damage level of 4,000 cfs. This peak had a recurrence interval of between 25 to 50 years. The August 7, 2006 heavy rain storm from the remnant of Tropical Storm Fabio caused flash flooding throughout Kauai. No damage was reported in Hanapepe.

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### **3-3-3 FLOOD REDUCTION**

- Alenaio Stream, Island of Hawaii: A total of \$5,869,231 in damage was prevented to the town of Hilo by this project from a thunderstorm on March 9, 2006. According to the NWS this storm dumped six to 10- plus inches of rain over Southeast Hawaii and caused numerous road closures in Hilo. Peak discharge on Alenaio stream was not determined, but exceeded the zero damage level of 680 cubic feet per second from a reported peak stage of 7.99 feet.
- Wailoa/Waiakea Stream, Island of Hawaii: A total of \$9,137 in damage was prevented to the town of Hilo by this project from a storm on March 9, 2006. A total of 11.4 inches of rain in 24 hours was reported at the Waiakea Uka rain gauge in this watershed. Peak discharge on Waiakea Stream was 865 cubic feet per second and exceeded the zero damage level of 650 cubic feet per second.

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