

Item B-5

Ayron M. Strauch, Hydrologist Stream Protection and Management Branch

COMMISSION ON WATER RESOURCE MANAGEMENT

Ke Kahuwai Pono

"The trustee who oversees the rightful sharing of water."





Prepared in cooperation with the State of Hawai'i Commission on Water Resource Management and in collaboration with the University of Hawai'i Water Resources Research Center

Water-Resource Management Monitoring Needs, State of Hawai'i







Scientific Investigations

U.S. Department of the Interior U.S. Geological Survey

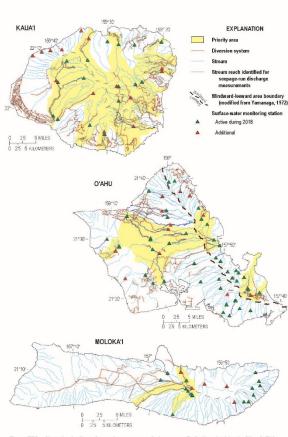


Figure ES2. Maps showing the surface-water resource-monitoring program for the Hawaiian Islands of Kauai, O'ahu, Moloka'i, Maui, and Hawaii. No surface-water monitoring needs were identified for the island of Lâna'i, because no water-resource needs were identified by the State.



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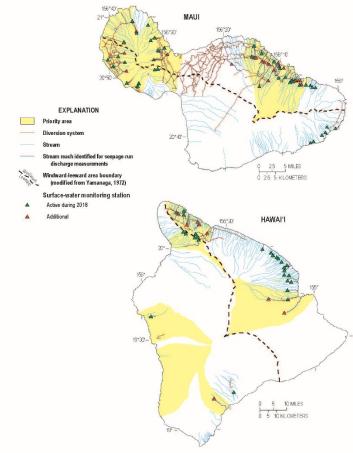
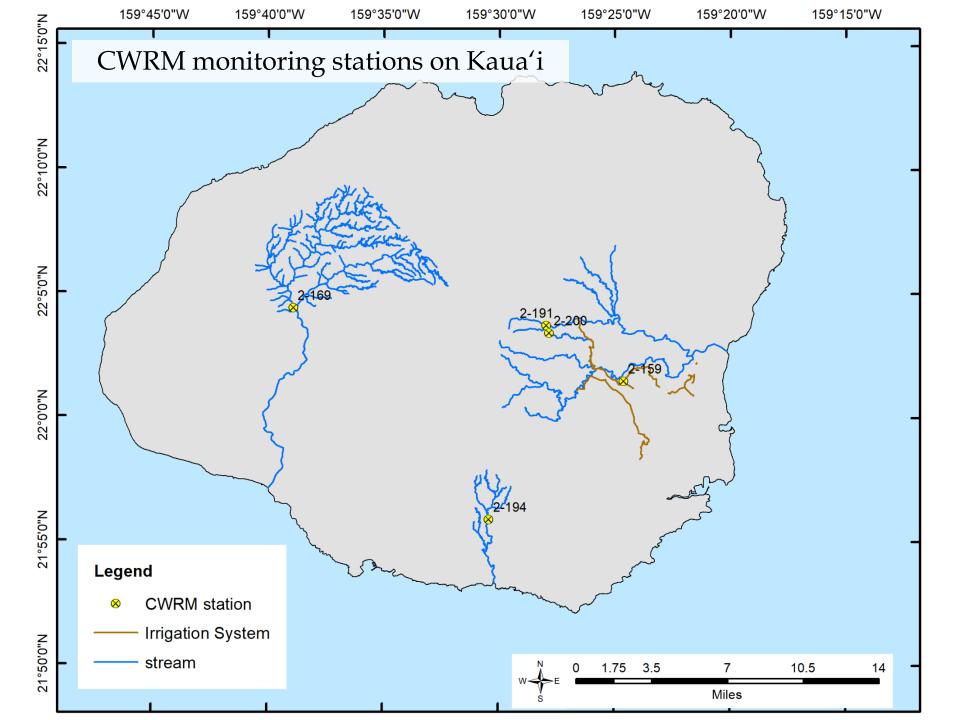
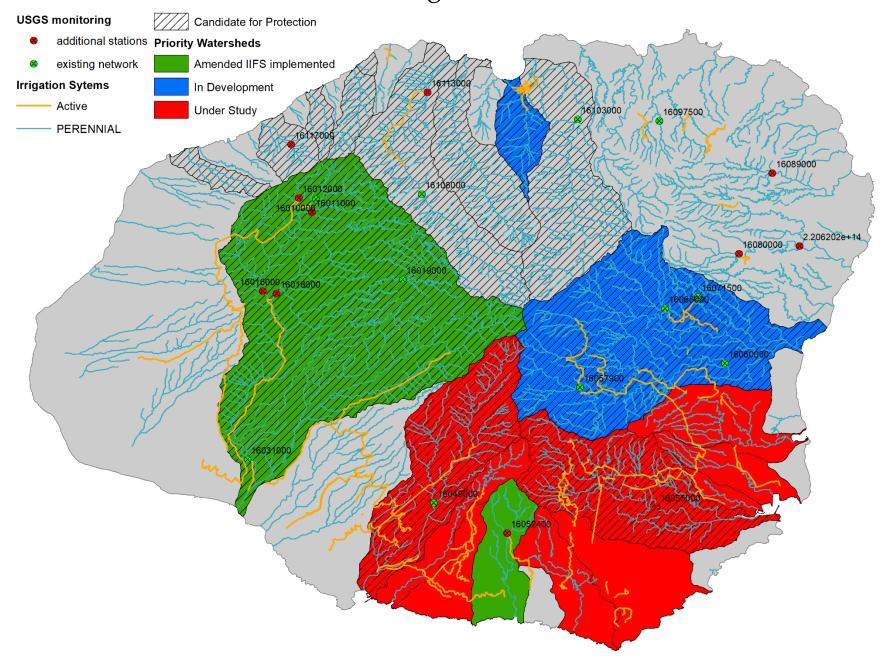
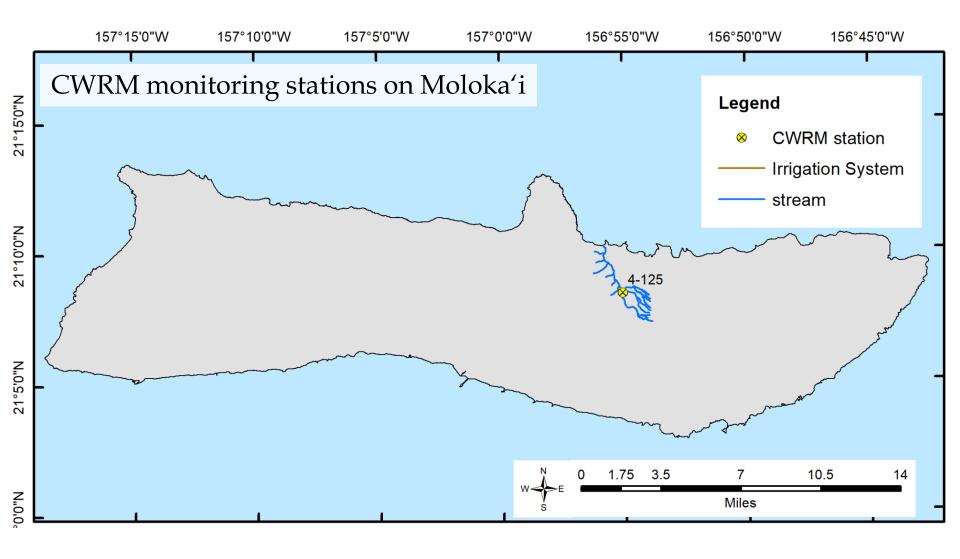


Figure ES2. —Continued

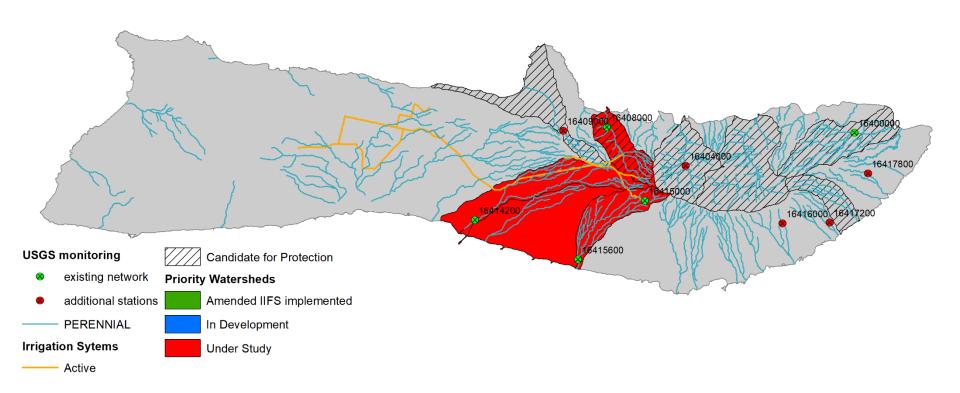


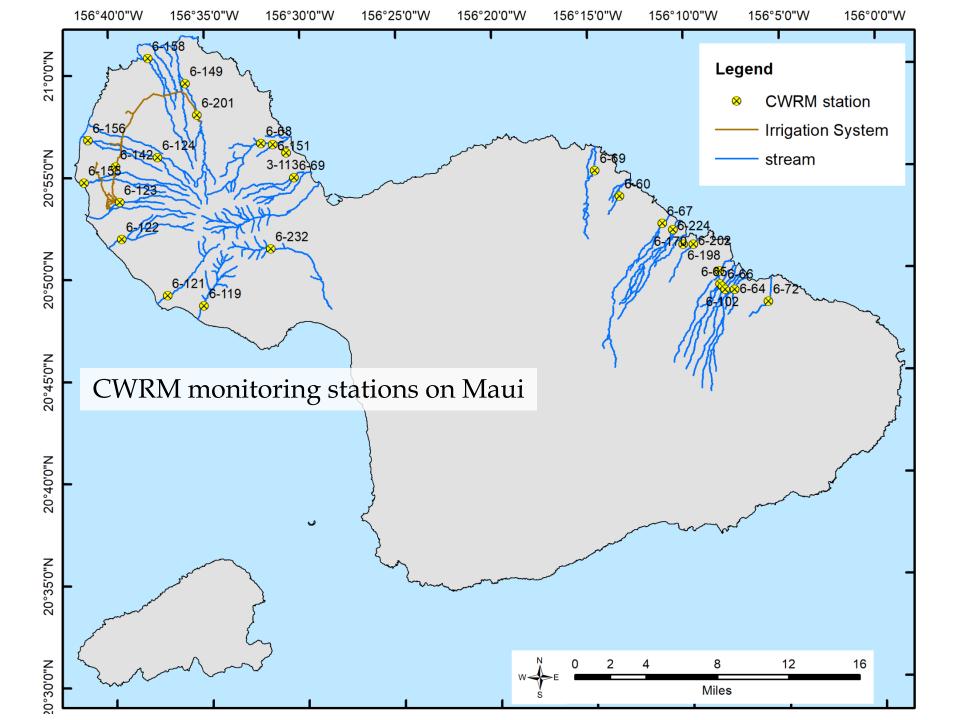
Surface Water Monitoring needs Assessment: Kaua'i

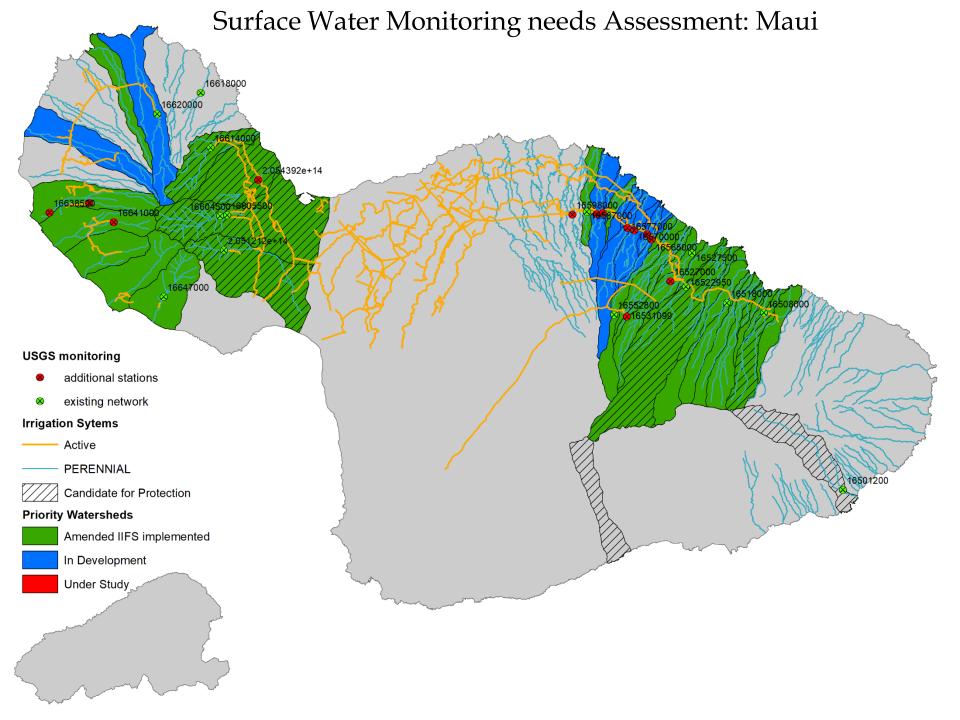




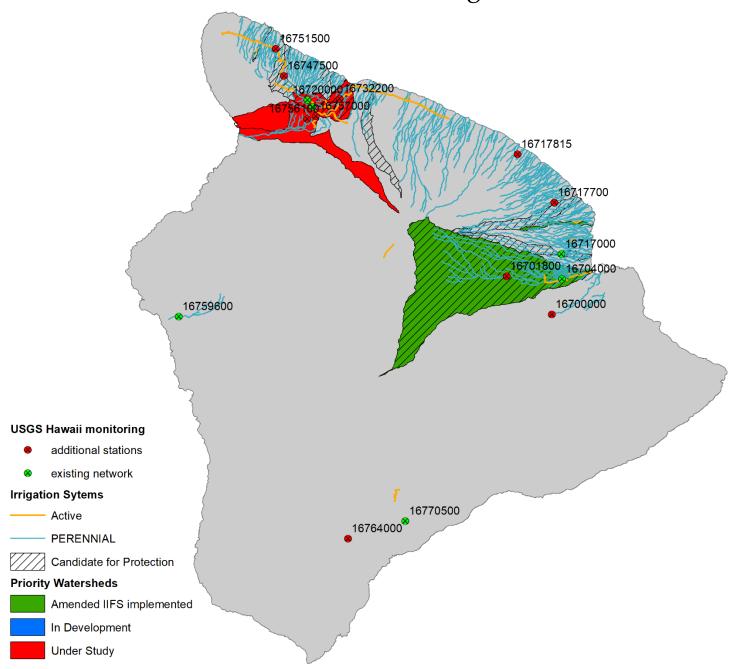
Surface Water Monitoring needs Assessment: Moloka'i







Surface Water Monitoring needs Assessment: Hawai'i





Existing Low-Flow Monitoring Stations USGS 16717700 Hakalau at 1300 ft



Current Low-Flow Stations to be Continued

| | Station number | Island | Station name | CWRM FFY2022 cost | Notes |
|---|-------------------|---------|---|----------------------|---|
| | 16409000 | Molokai | Waihanau Stream nr Kalaupapa | \$18,700 | Potential climate change monitoring station; historically a DHHL water resource |
| 1 | 16417800 | Molokai | LB Honoulimaloo Str US diversion | \$18,700 | Potential climate change monitoring station; |
| | 16522950 | Maui | Piinaau Str 470ft US Koolau Ditch | \$18,700 | Index station for East Maui IIFS; Potential climate change monitoring station |
| | 16717815 | Hawaii | Manowaiopae Stream near Spencer Road | \$18,700 | Potential climate change monitoring station; USDA Forest Service co-funding station |
| | 16757000 | Hawaii | Waikoloa Stream nr Kamuela | \$18,700 | Index station for potential IIFS; County drinking water supply; climate change monitoring station |
| | 16751500 | Hawaii | Awini Puali Gulch US Kohala Ditch | \$18,700 | Potential climate change monitoring station |
| | 16717700 | Hawaii | Hakalau Stream nr alt 1300 ft | \$34,200 | Potential climate change monitoring station; additional costs related to permitting and installation of upgraded station; \$8,200 to be paid by DOT |
| | 16717815 | Hawaii | Manowaiopae Stream near Spencer Road | \$18,700 | Potential climate change monitoring station; additional costs related to permitting and installation of upgraded station; \$7,000 to be paid by the USDA Forest Service |
| | | | Total cost | \$146,400 | |

