



USDA-CSREES 2006 National Water Quality Conference

[Land Application of Livestock Manure in Hawaii and the American Pacific](#)

Management of livestock manures and effluent is a serious concern for livestock producers in Hawaii and the American Pacific. This project has been conducted from 2001 – 2005 to study land application of livestock waste (effluent and manure) and promote development of comprehensive nutrient management plans (CNMPs) in the islands. Nutrient contents of manures, compost and effluents, P availability from manures, P runoff studies, and nutrient uptake by tropical grasses irrigated by effluent, have been previously reported.

A series of 8 livestock producer workshop were held from 2002 – 2004 on the Islands of Oahu, Maui and Hawaii to extend project results. These were attended by over 100 participants representing all livestock industries. A final statewide presentation by the project on the soil and crop benefits of manures and effluents was held at the 2004 Hawaii Agriculture Conference in October 2004 with over 70 farm and community leaders attending.

A series of four workshops on Animal Waste Management were held in Guam and CNMI (Saipan, Tinian and Rota) in summer 2004, with over 115 attending. An invited working session was held at the EPA Pacific Islands Environment Conference in June 2005 on Guam, attended by 40 Pacific Island participants. Composting and dry litter systems are being implemented in Guam, CNMI, Palau and Pohnpei. The American Samoa EPA invited project personnel to consult in November 2005 to promote piggery waste management systems to reduce a serious outbreak of Leptospirosis.

Livestock operations in Hawaii were surveyed in 2001, which showed limited land application of manures and only 3 farms with CNMPs. A follow up producer survey was conducted in Hawaii in 2005. Highlights of this survey included: 12 producers had approved CNMPs; common management practices were composting, manure sales, effluent irrigation and reduced water use; about 40 percent of previously interviewed producers had closed.

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