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Research Areas

- *Suppressing kikuyu grass (Pennisetum clandestinum) competition against koa (Acacia koa)*
- *Promoting adaptive management with 'Tropic Sun' sunn hemp (Crotalaria juncea) in Hawaii for ecological strategies in weed control, nematode suppression and nutrient management*
- *Evaluation of native Hawaiian plants as new cover crop selections in local organic vegetable production*
- *Controlling Australian Tree Fern (Sphaeropteris cooperi) with directed ULV (ultra-low volume) herbicide applications in native watersheds on the island of Kauai*
- *Development of efficient vegetation management techniques for cultural resource utilization and endemic plant restoration within Kaloko-Honokohau National Historical Park.*

Selected Recent Publications

- **Leary, J.K., J. DeFrank, and B. Sipes. (2006)** Tropical eggplant (*Solanum melongena* L.) production with a buffelgrass (*Pennisetum ciliare* L.) living mulch system in Hawaii. *Biological Agriculture and Horticulture*. 24: 105-116.
- **Leary, J.K., P.W. Singleton, P. Scowcroft, and D. Borthakur. (2006)** Symbiotic diversity of the cosmopolitan genus *Acacia*. *Symbiosis*. 41: 107-117 (with cover photo).
- **Leary, J.K., N.V. Hue, P.W. Singleton, D. Borthakur. (2005)** Soil acidification, nutrient depletion, and symbiotic nitrogen fixation are the major features of gorse (*Ulex europaeus*) infestation on volcanic soils in Hawaii. *Biology and Fertility of Soils*. 42: 215-223.
- **Leary, J.K., P.W. Singleton, D. Borthakur. (2004)** Canopy nodulation of the endemic tree legume *Acacia koa* in the mesic forests of Hawaii. *Ecology* 85: 3151-3157.
- **Leary, J.K. and J. DeFrank. (2000)** Living mulches for organic farming systems. *HortTechnology* 10: 7-13.