



# 1. RESTORATION SUMMARY

*April – May 2013*

## **Ka palupalu o Kanaloa (*Kanaloa kahoowawensis*) Update**

— Ale`ale was accessed on April 10, 2013. Due to high winds only Ken Wood accessed the site via Pacific Helicopters. Ken observed *K. kahoowawensis* to be drought stressed as there was no evidence of the usual “flush” and green leaves for the time of year. Quick action by Ken Wood, Restoration staff, Tom Hauptman and Zapata staff allowed an emergency watering of 37 gallons to be conducted.



**Drought stressed *Kanaloa kahoowawensis***



**Drought stricken community on `Ale`ale**



**Early flush of dried leaves**



**May 30<sup>th</sup> watering**

§ `Ale`ale was again accessed on May 30, 2013, to conduct another watering with 49 gallons. Ken observed there was no obvious response to the previous watering besides some new growth of *Ipomoea sp.* around the plant. There will be another watering and assessment scheduled for August-September. Micro propagation attempts will be continued at Lyon Arboretum. A new type of tissue culture propagation technique will be conducted by Nellie Sugii of Lyon Arboretum which involves the leaf cuttings. Also seeds of nearest *K. kahoowawensis* affinities will be grown by the propagation facilities for grafting attempts. The plant at Maui Nui Botanical Gardens will be repotted in an 8x8 redwood box as there is some evidence of root binding. The plant at Ho`olawa farms was successfully treated from a powdery mildew attack and is in good health.



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