

COOPERATIVE EXTENSION SERVICE
Honolulu, Hawaii 96822
U.S.D.A. Cooperating



UNIVERSITY OF HAWAII
College of Tropical Agriculture
and Human Resources



Dear Friend:

We are pleased to send you the enclosed information as one of the many educational services of the Cooperative Extension Service, an educational agency of the University of Hawaii and the United States Department of Agriculture. Federal and state governments join in supporting and financing its work.

The Cooperative Extension Service provides the people of Hawaii with the very latest scientific information in tropical agricultural production and marketing, and the family living and consumer sciences. It provides educational and informational services in resource and community development, and other related areas. It sponsors University Extension Clubs, the 4-H clubs and other youth programs throughout the state.

Cooperative Extension Service representatives, known as County Extension Agents and Extension Home Economists, have offices in each of the 4 Counties of Hawaii. Locations of their offices are given on the reverse side of this enclosure. They will be happy to provide you with information and help in their fields of training.

Sincerely,

Stanley M. Ishizaki
Extension Specialist in Feed
and Forage Analysis

COOPERATIVE EXTENSION SERVICE COUNTY OFFICES IN HAWAII

HAWAII COUNTY
Hawaii County Office

Location
875 Komohana Street

Mailing Address
875 Komohana St.
Hilo, Hawaii 96720
P. O. Box 237
Kamuela, Hawaii 96743

Kamuela Office

Kamuela

Kona Office

Kainaliu

P. O. Box 208
Kealahou, Hawaii 96750

MAUI-MOLOKAI COUNTY
Maui-Molokai County Office

Location
310 Kaahumanu Ave. Bldg.214
Kahului

Mailing Address
310 Kaahumanu Ave., Bldg. 214
Kahului, Hawaii 96732

Molokai Office

State Office Building, Kaunakakai

P. O. Box 158
Kaunakakai, Hawaii 96748

KAUAI COUNTY
Kauai County Office

Location
State Office Building, Lihue

Mailing Address
P. O. Box 3150
Lihue, Hawaii 96766

OAHU COUNTY
Oahu County Office

Location
Wahiawa Civic Center
910 California Avenue
State Office Building, Kaneohe
45-260 Waikalua Road
1420 Lower Campus Road

Mailing Address
P. O. Box 610
Wahiawa, Hawaii 96786
P. O. Box 607
Kaneohe, Hawaii 96744
1420 Lower Campus Road
Honolulu, Hawaii 96822
P. O. Box 838
Waianae, Hawaii 96792

Kaneohe Office

South Oahu Office
(Honolulu)
Waianae Office

MANOA CAMPUS PUBLIC SERVICES:

Plant Disease Clinic

St. John Bldg. 305

3190 Maile Way
Honolulu, Hawaii 96822

Seed Distribution Center

St. John Bldg. 112

3190 Maile Way
Honolulu, Hawaii 96822

University of Hawaii Cooperative Extension Service
U. S. D. A. Cooperating
REQUEST FOR FEED & FORAGE ANALYSES

8/1/84

UH USE ONLY	UH Number	Date Received	Project Number
	F84-1031	8/14/84	

Requested By GEORGE BALAZS, NATIONAL MARINE FISHERIES SERVICE
(Name, Company, Organization)

Address P.O. Box 3830, Honolulu, HI 96812 Telephone 943-1221

Sample Description RED ALGA, P. capillacea, fresh cut, rinsed & frozen ^{3 packages - can be consolidated to 1 sample}
(If forage, describe whether lush, mature, age in weeks, etc.)

Sampling Site PUNALOU BAY, KAU, HAWAII Sampling Date JULY 84
(Pasture, feedroom, city, town, etc.)

Analyses Requested: Chemical¹ Mineral² Partial³ _____
(Specify)

Class of Livestock GREEN SEA TURTLE FORAGE
(Beef, Dairy, Heifers, Swine, Chickens, etc.)

Feeding Program NATURAL MARINE HABITAT - 1 meter depth
(Type and amount of concentrates, grain, etc.)

Fertilizer Program NONE - NATURAL
(Type and amount of fertilizer; frequency of application)

Additional Information/Comments CONSOLIDATE ALL 3 SAMPLES SO
sufficient material will be available for proper
duplicate/triplicate analyses, PLEASE SAVE AND
RETURN ANY remaining dry matter sample, as
pesticide analysis may be conducted elsewhere,

¹Chemical: Dry matter, ash, crude protein, crude fat, neutral detergent fiber, acid detergent fiber, lignin, cellulose.

²Mineral: Phosphorus, potassium, calcium, magnesium, sodium, manganese, iron, copper, zinc.

³Partial: Any part or parts of Chemical and/or Mineral analyses.



University of Hawaii at Manoa

Pesticide Hazard Assessment Project
Pacific Biomedical Research Center
PBRC Building • 1997 East-West Road • Honolulu, Hawaii 96822

September 17, 1984

Mr. George Balazs
National Marine Fisheries Service (NOAA)
Honolulu Laboratory
P. O. Box 3030
Honolulu, HI 96812

Dear George:

For your records, here are the results of our analyses of three of the turtle samples you provided, as well as a brief summary of the analytical methods.

<u>Sample No.</u>	<u>Location Obtained</u>	<u>Organochlorine Pesticide Content</u>
7648-50	Punaluu	None Detected
4966	Punaluu	None Detected
7511	Honolii	None Detected


The specimens were extracted with acetonitrile. Aqueous sodium sulfate was added and the aqueous acetonitrile was extracted with hexane. The extract was concentrated under a stream of nitrogen. The concentrate^{W/15} analyzed for organochlorine pesticides by gas chromatography using packed columns and electron capture detection.

The result was that no organochlorine pesticides were detected. Our method detection limit for heptachlor epoxide is approximately 1.5 ppb; it is similar for the other organochlorine pesticides.

Mr. George Balzs
September 17, 1984
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Yes, we would be interested in analyzing a few of the turtle eggs for these pesticides. Our full-time technician plans to return from vacation October 9. We'll squeeze them in between milk and quality assurance analyses.

Sincerely,


Anthony C. Bazan, Ph.D.
Chief Chemist

ACB/gk