

Please return to BRADNER - COGNITIVE  
2476631

# SHORTHAND BOOK

IDEAL FOR NOTES AND DICTATION

27



A  
ab-rupt  
ab-sorb-ent  
ab-sorp-tion  
abun-dance  
ac-cede  
ac-cel-er-ate  
ac-ces-si-ble

LIST OF  
501  
COMMONLY MISPELLED  
WORDS

B  
bache-lor  
bal-lic-tics  
ba-nana  
bank-ruptcy  
ban-quet  
bar-be-rous  
basi-cally

80 SHEETS      6-IN. x 9-IN.

No. 63-5 GREGG RULING-WHITE      No. 63-6 GREGG RULING-GREEN

BRADNER CENTRAL CO. CHICAGO, ILL. 60606

TRADE MARK REG. U.S. PAT. OFFICE

↓ STAND-PAT EDGE ↓

SAVING THE Terrible Turtles <sup>man-made help?</sup>

## 1. Ecological Problems -

A. Feedlot agriculture - Disease

↳ excrement of moused turtles.

B. Exploiting a different food chain thus eliminating main ecological value of Chelonia

C. Diverging high protein feedstuffs from potentially more efficient and economical use by humans.

D. Harvest Thalassia thus higher trophic level since human energy is involved.

## 2. Reproductive Problems -

A. Maturity over life cycle essential -

First screening process - Burdach

Process reversed in present mariculture -

- No certainty of success.

B. Removal of eggs from natural beaches

1. Reduction of recruitment

2. Release older animals - can they survive if released at nesting beach at the wrong time?

Critical periods of development?

Imprinting

3. Infantile frenzy -

being at the right place at the right time.

4. Henth, can they <sup>if necessary</sup> release as

" soon as possible. -

" all available information indicated that release of spearing turtles at a nesting beach cannot be considered an acceptable substitute for eggs taken from that beach."

5. Many of egg beaches are sanctuaries or have laws or regulations on taking eggs by natives. How to justify foreign removal?

Providing reproduction problems are solved

Breeding - maintain breed stock -

same breed every 2 years; 75% hatching

from 500 egg 1 season; 107 10♀;

would need 293 adult for 50,000 hatchlings at 100Kg = 29,300 kg

to maintain - feed? space? effort?  
odd to cost of already high price?

### 3. Economic Problems

#### A. Interaction of economics and conservation

Cost of feed + other eggs or maintain breeding stock = ~~leaving~~ high price.

B. Broader markets for turtle products - but not bring price down <sup>thus</sup> more fish on wild stocks until a very low level is reached.

If profitable to mariculturist, then also profitable to fishermen.

### 4. Misc. A. Eggs transported

from different parts of the world. Natural disaster release large numbers from different gene pool <sup>thus</sup> distort or change natural zoogeographic patterns of interest to biologists.

B. Stimulate desire of other persons in other countries, states to initiate large scale farms pointing to successes of Mariculture - some problems, others areas - egg drain, etc.

## Conclusion - Summary

1. Parasitizing natural populations
2. Undermine local conservation prog.
3. Difficulty in devel. & maintain hatcheries
4. Inability to benefit from the animals favorable trophic position.
5. Reviving the demand for turtle products, thus increasing economic pressures on remaining wild stocks.

## Can - Realistic prospectus showing:

1. Projected evolution of complete self-sufficiency with respect to egg needs within a short time.
2. Predictable production schedule that will saturate markets for turtle products and depress prices to the point that both poaching and legal turtling are made unprofitable.

wheat germ <sup>meal</sup> not wheat millie  
skin milk  
corn oil - Soy?  
DH methionine (in Vitamin Milk)  
↑  
with fish  
abernathy (send reprint)

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INTRODUCTION

Supply - demand  
Import - release how many to saturate market and decrease price  
- ornamentals - exotic  
behavior studies from Ernstok  
(Neon goby)

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doyle and taylor oil globe report  
femur stained egg  
deep glass aquaria sides not good  
One meter deep - better  
Two meter best (or deeper)

EVAN EVANS

- Jim Wheeler -

RFB - USBSFW

KUSAI

Bob IRVING

## References

- ~~Wiens, H.J. Atoll Environment and Ecology  
Yale. N.H., Conn. 1962.~~
- \* Hesse, E.H. Imprinting in animals. Sci.  
American March 1958.
- \* Wilson, E.O. Pheromones. Sci. American  
May 1963.
- ~~Can, A. The Navigation of the Green Turtle  
May 1965.~~
- \* Emlen, J.T. and R.L. Fenney. The Navigation  
of Penguins. Oct. 1966.
- \* Hasler, A.D. and J.A. Larson. The  
Homing Salmon. Aug. 1955
- \* Flyger, V. and M.R. Townsend. The  
Migration of Polar Bears. Feb. 1968.
- Botelho, S.Y. Tears and the  
Lacrimal Gland. Sci. American.  
Oct. 1964.
- \* Kylstra, J.A. Experiments in water-  
breathing. Sci. American Aug 1968.
- Schmidt-Nielsen, K. Salt Glands.  
Sci. American Jan 1959.



- Herpetofauna - sent 5/16

519. 61 N27 INDEX 1947-69 page 101

★ Wayne F. Fraai - King's College,  
Briarcliff Manor, N.Y. Brooklyn  
taxonomic study of the giant leather  
in Surinam as part of larger research on  
all the genera of sea turtles.

↑ National Geographic Grant awarded

Carr, A. Alligators: Dragons  
in Distress pp 133-148 Jan 1967

Caymans. In the Wilds of a City  
Pachor. Paul A. Zahl NOV 1954/645

printed

~~CAYMAN Islands W.I. Capturing Giant  
Turtles in the Caribbean D.D. Burman  
Aug 1943 177-190~~

Jan 1922 p 27-62

Sept 1906 524-531 Japan Turtle farms etc

June 1907 413-419 Farms about turtles

July 1911 601-633 Reptiles of all  
Leathery turtle <sup>old name</sup> Turtles

good outside

Sphargis coriacea  
Gavial - India along Ganges and Brahmaputra  
Gavialis gangeticus - 30 ft

article  
F. W. W. F.

Restaurants Contacted by Pryor by

Mr. A. W. McKelvey  
Business Consultant

P.O. Box 733 Lahaina Maui 96761

NOV 30, 1973

Mr. Walter McAnally  
Kuilima Resort Hotel and Country Club  
Kahuku, HI 96731.

"It is anticipated that about 5%  
of our diners will be ordering turtle  
steak"

Mr. Gerald Frank

(NO DATE)

Purchasing Director  
Kahala Hilton Hotel "if the  
quality is excellent it is anticipated  
that we could order as many as ... 125 lbs  
of turtle per week"

Mr. Bernd Smaisser

(NO DATE)

General Manager  
"I will discuss  
our serving turtle steaks and  
octopus with my chef"

Le Chateau - 131 Kaimulani Avenue  
HONO 96815

Dec 14

Mr. Al Dumphy  
Food and Beverage Director  
Island Holidays, Ltd.

Main office 2222 Kalakawa Ave  
Suite 616 - correspondence to P.O. Box 2519  
Honolulu 96815

"If quality is better ... and price is ... of your great service we foresee where our monthly order could include ..... 300 lbs fresh turtle steaks"

Dec 13

Mr. Michel F. Martin  
President  
Chez Michel

2128-B Kalakawa Avenue

Hono 96815 "The turtle steak may be of interest to me, but at this time I cannot estimate the quantities I would need"

Dec 26

Carlisle's Waikiki 2100 Kalakawa  
David J. Hill  
96815  
Vice President

Carlisle's Charcoal Broiler Restaurants  
Hawaii - Seattle - Hono - S.F.

Reference to file

(Dec 18)

Richard O. Buck  
Executive Vice President  
Spencecliff Corporation  
1826 Kalakana Avenue 96815  
"If the quality and the price... is  
acceptable to us, we approximate that  
our monthly order will be as follows"  
"Green" turtle meat - 731 pounds/month

(Dec 21)

Lin Comito  
Lin Comito and Associates  
Comito's East 445 Nohonani Street  
The Golden Guinea NO. 2 Merchant St.  
Comito's West NO 16 Merchant St  
The Meat Merchant NO 34 Merchant St.  
"we now have 14 restaurants and  
7 more will be opening in the  
immediate future" "If the turtle  
steaks are acceptable, I believe  
that approx. 10% of our diners  
will order them"

copy from Janette

\* Hawaiian Names for Vascular Plants  
J. R. Porter

Olona Bark - Touchardia  
latifolia

Notes from Honolulu bookstore:

Imate

(\*) Hawaiian Antiquities

by David Malo - Translated from the  
Hawaiian by Dr. Nathaniel B. Emerson 1898  
Bernice P. Bishop Museum Special Publication 2  
Second Edition - Page 29 Chapter 11 "Lati under  
the Kapu System" Among the articles of food  
that were set apart for exclusive use  
of man, of which it was forbidden the women  
to eat, were... the sea turtle e-a  
(the sea turtle that furnished the  
tortoise shell)... Chapter 15 Page 47

The Fishes "The following animals have  
a great resemblance to each other:

the sea turtle or honu, from  
whose shell is made an instrument  
useful in scraping olona bark, also  
in making kōcōhōs in modern times;  
the e-d a species of sea turtle whose  
shell was used in making fish hook. The  
honu is excellent eating, but the flesh  
of the e-a is poisonous.

Explorers of the Pacific by Peter H.  
Buck. B.P. Bishop Museum Special

pub 43 - 1953.

Cook's <sup>hegde's section</sup> Third Voyage 1776-1780  
page 31 - "Cook sailed north from  
Bora Bora on December 7, 1777. On Dec 24  
he sighted an uninhabited atoll  
where he obtained a supply of turtles  
and remained to observe an eclipse  
of the Sun on December 30. As Christmas  
Day was spent there, he named  
the Island Christmas Island."


(Janette)

<sup>Furtles section</sup>  
William Beebe 1928

Beneath Tropic Seas - Putnam's Sons N.Y.

- Atlas of the Hawaiian Islands -  
Waiho'honu stream, Kawai, 3511

Waiaka'ilio Bay  
near Kai'opae Point; near land  
section of Keawewai; ~3-3½ mile N of  
Kawaihae.

~~Polynesia Culture History - ~~  
~~Bishop Museum Spec. Pub 56~~  
~~Section of Furtles.~~

1973 <sup>Public Law 93-202</sup> Endangered Species Act

A species may be endangered or threatened because of any of the following factors:

- 1.) present or threatened destruction, modification, or curtailment of its habitat or range
- 2.) overutilization for commercial, sports, scientific or educational purposes
- 3.) disease or predation
- 4.) the inadequacy of existing regulatory mechanisms
- 5.) other natural or manmade factors affecting its continued existence

What's Endangered? by William G. Conway Animal Kingdom Oct 1970

Five Guidelines for designating a species endangered by commerce

- 1.) Animals which are threatened by commerce and actually imported or likely to be imported.
- 2.) Species subject to regular importation but not being taken on a sustained yield basis. Burden of proof should lie with the importer.
- 3.) Where endangered populations or subspecies of an animal may not be



readily distinguished from more abundant populations, the full species must be protected.

4. (\*) species listed should be those whose ranges or populations are shrinking or already small.

5. (\*) animals should be protected with the objective of maintaining wildlife populations large and widespread enough to fulfill their ecological roles and to withstand natural disasters such as drought and disease, and predictable man-made catastrophes such as oil slicks.

If an animal's status is truly questionable, it should be given protection until the matter is investigated.

\* Not one company has yet conducted scientific research upon any of the wild creatures whose lives sustain part of their business. Not one has made any attempt to operate on a sustained-yield basis \*

which might be expected to conserve  
the living resources it is exploiting.  
Companies have no real knowledge  
of the natural history or the  
population dynamics of the species  
with which they deal. Some cannot  
even identify skins and hides properly,  
although they can grade their  
quality within a hair.

Yet the animal industry is challenging  
the protection of species and claiming,  
among other things, that too little  
is known about these wild animals  
for them to be designated endangered  
by zoologists. There is a need  
for more information on the  
populations and the future of species  
that are being exploited commercially.  
Why not let the industry contribute  
toward the financing of such research.

Reference - Eggleston, G.T. <sup>Jawette</sup>  
Tahiti, Voyage through Paradise P 53 N.Y.  
Lewis, CB Bull. Inst. Jamaica  
2:56-65 1940

Oryx 11(5):24 May 1971  
Turtle laws and Turtle sales

Bishop  
Museum

Wayne Cagne 941-4974

Conservation Council Steve Montgomery 581-3653

Researcher - Legislative Assistant

Browns Committee on Ecology, Environment and Forest

EER <sup>Willie</sup> Mason Altem 548-7553 Room 205

Ken Brown 548-7887 229

Ronald Ching 548-7506 215

John Hutton 548-3867 218

Perry Merikatani 548-4104 219

Fred Rolfin 548-4107 220

John Ushijima 548-7855 231

Senator Mills - Room 223

Leyton Taylor

John Mackle 948-8350

~~MEMBER~~; Bardach; Ross; Cherry

Chau; Small; <sup>reg</sup> check heavy list;

Helfricht; Palmer; KRIDLER; TAKATA

Rick - GREG; Brick; ~~John G.~~

~~Peré Sylvia - 579 9616~~

~~Significant~~

Hawaiian Collection - Petroglyphs

~~Petroglyphs of Kau - DU 622 A4 F02~~  
(In - all about Hawaii) p49-58 Baker  
also 1931 ed. p62-67 also 1920 ed p49-52

~~1st Cook discovery in Petroglyphs.~~

(In - Paradise of the Pacific, v. 68 no. 11  
p26-29 Nov. 1956) DU 620 P21

~~Hawaiian petroglyph sources, 1825-1917.~~  
Charlot  
Havn GN 799 P4C69

~~Closed Shelves - Halls~~  
~~Hawaiian Petroglyphs GN 799 P4C66~~

~~Kilalowe was here. (Cox)~~  
~~of the Pacific v68 no. 3 p9-11~~  
~~March 1956 DU 620 P21~~

~~Oahu's fascinating petroglyphs~~  
~~(in Paradise of the Pacific v. 67 no. 5~~  
~~p9-11, 26 May 1955) EMORY~~

\* Thompson E.F. 1947

The Fisheries of the Cayman Islands  
Development and Welfare Bulletin No 22  
Bridgetown, Barbados

xerox all references

Logre, 1952 (page 232 in Turtles of the  
U.S. by Carl Ernst Q L 666  
C 5 E 76

Late arrivals to FFS may not get mated, <sup>? algae</sup> on shell-

(Range for parameter is nice)

Incubation period at FFS? Temp?

Fred Yap Film — duplicate —

Infra Red film —

~~The pictured ledge of Hawaii~~  
(In-all about Hawaii) v24 1898  
p 119-125 DU 622 A4 Faelsy

~~Interesting Hawaiian drawings:~~  
more pictured rocks. (In-all about  
Hawaii. v26 1900 p 126-128  
DU 622 A4 1900 p 126-128

~~History of the Hawaiian or Sandwich~~  
islands. Boston, 1843. p 83-84.  
DU 625 J38 JARVES  
also page 75, also 1847 ed p. 45  
same call no.

~~Stone age art in Hawaii (IN-~~  
Paradise of the Pacific v. 64 no 11  
p. 30-31 Nov. 1952 Johnson

~~Rock carvings of Hawaii: some~~  
possible traces of prehistoric Hawaiians  
(In-all about Hawaii v 30 1904 p 179-194  
DU 622 A4 Judd

also  
GN 799 P4J83 16p. - similar article  
Annual 1904

~~Info ref~~  
~~Petroglyphs of Hawaii~~  
~~GN799 P4 M29 48p.~~

~~Notes on Petroglyphs in Hawaii~~  
(In <sup>Hawaii</sup> Historical Review. 1962-68 v.2  
no. 10 leaves 419-426. DU620  
H31 Matsukawa

~~Probable early Indian Visitors~~  
(In all about Hawaii v41 (1915)  
p 160 DU622 A4

~~Notes on Hawaiian petroglyphs.~~  
(Occasional papers of the Bernice P. Bishop  
Museum. Directors report for 1909.  
A.M 101 B 448 v.4 no.4  
p 33-71. Stokes

~~The Picture rocks of Naalehu~~  
(In all about Hawaii v32 1906  
p164-169. DU622 A4 1906  
Westervelt

COMMERCIAL - KEY WORD

Sections for Turtle Catch Statistics Report

capital invest. small

Introduction - Commercial reporting required - voluntary  
Sport-home no. - 90 of total lbs

Methods of capture - legal & illegal

Marketing - prices paid - Coop - Maui Molokai  
tail? shell? shipments  
Calyce? shell  
Doris? shell  
etc.

Reg. and statute concerning turtle

Describe mesh size  
nets used - price

abundance

Total lbs for state - yearly

Total lbs each Island yearly

Areas each Island yearly

Catch by months

photo-chart of archipelago

French Frigate - Leewards - old Elepaio narrative - AMERSON

Kinds of Turtles (3) e'a <sup>Hande probably in Green</sup> <sub>HOW</sub>

List leatherback captures - old newspaper articles -

Boat that sank w/ turtles -

Mean wts of turtles where no. as well as lbs given. Total represent? %

SEX not reported - or shell length - wt estimate?

Report # <sup>received</sup> probably much less than actual.

all values at or converted to total live wt.

90 Flesh (lean steak) from average turtle.

Enter restaurants - approx no. -

Description of areas - algae present -

feed on? Spermatophytes? where?

photo for cover -

Photo of butchering turtle

Oriental - reverence - Ura Shimofuro  
Chinese soup - flippers -

Fish Markets - James - TAMASHIROS

Auctions - Sui Sam Hilo ??

No. of Reports  
Fishermen -  
Kawaii statistics -  
Income over  
past 10 years  
weight  
Range of  
Turtles taken

photo  
graph  
charts

Get rest of 1973 -

yearly vs Fiscal

Retrospect on Cover?

talk about 1903 data?

Home  
conservation  
committee



~~Yerkes~~  
Anaehoomalu:  
Pacific Anthropological ~~Review~~  
GN4 P32 no. 15 ~~Review~~

HONU - green turtle  
e'a - hawksbill  
Turtle  
sea turtle  
HUA (egg)

LUAHIWA, LANAI  
KAU, HAWAII  
Anaehoomalu - Hawaii  
Get a Bishop Museum Library?

Turtles  
check again  
Hawaiian Legends of old Honolulu -  
William D. Westervelt, Tuttle Co.

Turtle  
Hawaiian ~~Yerkes~~  
Legends of Ghosts and Ghost  
Gods - W. D. Westervelt, Tuttle Co.

Turtle  
check again  
Bookstore  
The Legends and Myths of Hawaii  
by King Kalakaua

Turtle  
Hawaii & The Polynesian Family System in Kauai  
Hawaii by Handy and Peckui ~~Yerkes~~

Turtle sections

The Great Barrier Reef and adjacent  
Islands by K. Gillett

~~Lots of Turtle Sections~~ \*  
~~Hawaiian Mythology~~ \*  
by Martha Beckwith 1970

needs to be selections from Fornade's  
checked Hawaiian Antiquities and Folklore

HONAPU Bay - Hawaii

Polihale > Kawai

Miloliu <sup>can't find</sup>

\* Legends of the South Seas by Antony Alpers  
page 76 (source HBS) check

\* Polynesian Culture History page 556-57

Bishop Press 50 edited by Hightland

\* Men from Under the Sky -

The arrival of Westerners in Fiji  
(notes (chief) on Cook's Turtle Island, Vatoa)

My, Kenny <sup>leatherback</sup> - aka boat captain <sup>By Flag Line</sup> 2/27/74  
Bill Thomas - 1530 <sup>Senata Blom EER</sup>  
HENRY SAKUDA

LARRY Smith Rescue 2 HFD. ex-20116 -  
power-head w/boat call about methods -

BORTEL - PUNAHOU, Hawaii Testing

F. Burk - Hawaiian - Enforcement Dept.

\* McCool - float of turtles off Lanikai - CALL

\* Volcano House - chart house

~~Mike Dillon - Hawk shells? etc.~~

Julie's photo printed - check Bishop Museum

\* Call Stasach or Cox - CALL

\* Enay - Bryan Turtle Petroglyphs - CALL

COAS Gravesman ON-TARVIS - CALL

Mark Christopher - International market place  
small stuffed Hawk \$65.50

Ryu - Stuffed cats, rodents(?) lizard, skin  
2190 Kalakawa

→ Nature - Temperature Reg. IN Loggerhead  
Go to BSW - seat shoot - Friday

MAT DILLON  
\* The Convention on INTERNATIONAL TRADE IN  
ENDANGERED SPECIES OF WILD FLORA AND FAUNA  
signed WASH. D.C. MARCH 1973 by 80 countries

Pritchard - L. T. O. W.

The external scutes of both the carapace and plastron are the laminae, of which the meeting edges are the seams. The central front lamina on the midline of the carapace is called the nuchal (or precentral); it is always small and sometimes absent. Behind the nuchal there is a series of 5 (or occasionally more) large laminae known as the centrals (or vertebrals). On either side of the centrals there are 4 (or more) laminae, of large size, called the laterals (or costals). Around the borders of the carapace there are about 22 laminae known as marginals. The 2 rear-most central marginals, which are often fused into one, are the supracaudals (or postcentrals).

On the plastron there are 6 pairs of laminae; from front to rear, they are called: gulars, humerals, pectorals, abdominals, femorals and anals. ~~Some~~ (as in ~~chelonians~~) Some turtles (e.g. sea turtles) have a row of laminae on the plastron between the marginals.

and the pectorals and abdominals;  
these are called inframarginals

425  
green

Tropical Sea  
Enterprise

"New Item"

Fresh Frozen mariculture farmed  
Prime turtle steak  
from the Cayman islands  
100% top quality lean meat  
no bone or surplus fat  
8 oz 3.39

Anthony <sup>chef 2 week</sup> <sub>meat buyer</sub>

BW Board

1428

Silvia

9684

Woody Reed -  
General ~~Food~~ Manager #618

Holiday mart 9461696

on

California  
Illinois → laws

US Interior - Endangered species act -  
Carri Chenfeld  
virgin markets  
gogre ctol

Aoley <sup>intentionally</sup> <sub>owned</sub>  
shown brochures

Hilde - 2115 Rock Hill  
96822

Mr. Henri C. Seibert

Dept of Zoo Ohio Univ

Athens, Ohio 45701 Membership in

Soc. for the study of Amphibians and Reptiles -  
Meat & Poultry - Mr. Stong 1311 Kapiolani Rm 607

Dr. B.W. Baird S.D.O.A. 941-3071

Dr. Robert C. Howle Food and Drug 955-0379

1833 Kalalana Room 825

1967 wholesome meat act

Entered 11/26/67

5/11/74

Liberty House - Wallets - Whipsnake

Curses - Handbags: alligator,  
crocodile, cobra, lizard  
some of brand: LESCO LONA

The Pocketbook MAN -

Wallets - Elephant, cobra,  
alligator, python  
Handbags - cobra - snakes -  
alligator  
brands - Bond Street

8/74 Princess Gardenier

Standard shoes

#135. Alligator men's shoes - from Italy  
Longs? Turtle skin watch Bands? 9/2/74

4-15-74

<u>NO.</u>	<u>species</u>	<u>Sex</u>	<u>Tail</u>	<u>SCL</u>	<u>SCW</u>
28	G	M			
31	G	<del>M</del> F	long	$31\frac{1}{2}$	$24\frac{3}{8}$
34	G	F		$30\frac{3}{8}$	$24\frac{3}{8}$
3	G	M	Big	$28\frac{3}{4}$	24
None	G	M	long	$34\frac{1}{4}$	25
29	G	F	~5"	$27\frac{1}{8}$	23
8	G	?		$28\frac{3}{4}$	$23\frac{3}{4}$
None	G	?		$23\frac{3}{8}$	$19\frac{1}{4}$
3	H	Head Turn F		$17\frac{1}{2}$	$14\frac{5}{8}$
None	H	F	deform	$26\frac{1}{8}$	$18\frac{1}{2}$
None	H	?		$29\frac{1}{4}$	24
None	L	F		$18\frac{3}{8}$	$14\frac{1}{8}$
2	L	deform		$33\frac{3}{4}$	$27\frac{1}{8}$
				$32\frac{1}{2}$	no