



WELCOME TO BELIZE!

Belize

© 2011 Europa Technologies
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
US Dept of State Geographer
© 2011 Cnes/Spot Image

©2010 Google

17°21'46.76" N 87°51'09.72" W elev -2 ft

Eye alt 275.68 mi



Belize Odyssey Resort

Cay Chapel

Long Cay

Hicks Cays

Turneffe Islands

Belize

Best Western Belize Biltmore Plaza

Bachelor Inn Hotel Belize

Belize Odyssey Resort

Belize City

Drowned Cays

Water Cay

The Great Blue Hole

Southern Long Cay

Dangriga

Columbus Cay

© 2011 Europa Technologies
Image © 2011 DigitalGlobe
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2011 Google

©2010 Google

17°18'19.64" N 87°47'00.66" W elev -152 ft

Eye alt 78.96 mi





BELIZE

Malaria Situation in Belize: advances in the prevention and control

San Pedro Ambergris Caye, Belize
May 11th to 12th 2011

J. A. Marenco MD, MHP
Director Environmental Health Unit,
Ministry of Health, Belize



Content

- Background
- Demographic Information
- Ministry of Health
 - Vector Control
- Statistics
- Strategies

Background

- 1954 Malaria Eradication Program
- 1976 14 Days Radical Treatment for Malaria
- 1981 Belize's Independence Day
- 1980's Primary Health Care
 - Community Health Workers
 - Voluntary Collaborators
- 90's Environmental Health
 - Vector Control Program
 - Public Health Inspectorate
- 2001 Health Sector Reform – Regionalization
- 2004 BHIS

Demographics

Population Change



Table 1: Population Change – 2000 to 2010

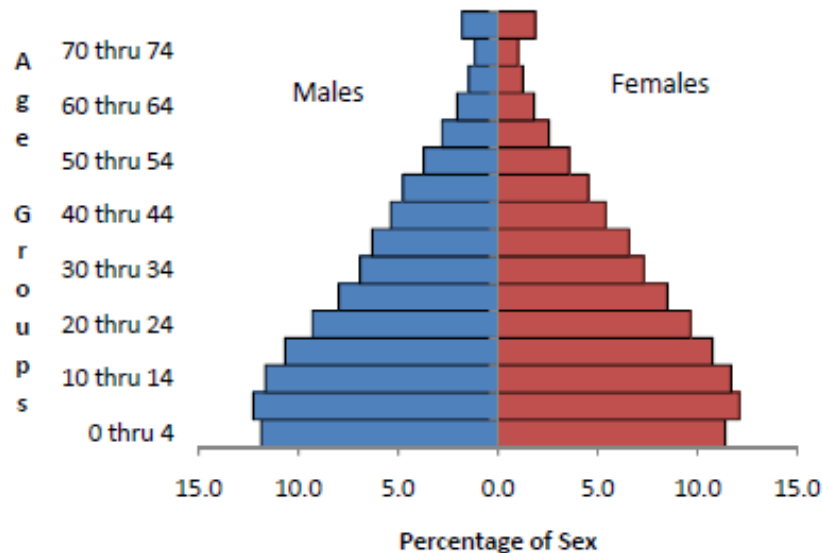
	2010	2000	Absolute Change	Percent Change
Country	312,698	240,204	72,494	30.2
Urban	138,796	112,663	26,633	23.7
Rural	171,827	125,663	46,163	36.7
Homeless	118	141	(23)	(16.31)
Inst'l Pop	1,957	2,237	(280)	(12.52)
AAGR 2000 to 2010		2.65%		
AAGR 1991 to 2000		2.64%		

Demographics

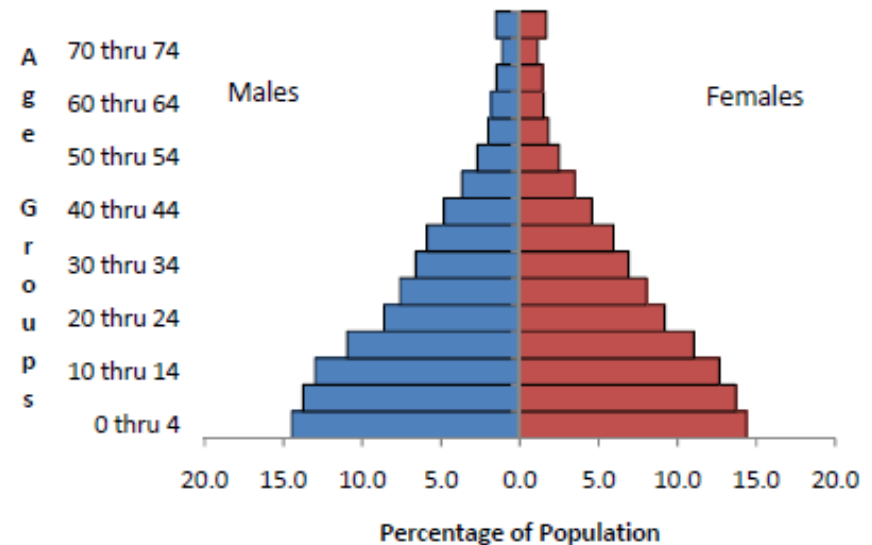
Urban/Rural Distribution					
	2010				2000
	Total	Urban	Rural	Percentage Urban	Percentage Urban
Country	312,698	138,796	171,827	44	47
Belize	89,247	65,042	24,205	73	78
Cayo	72,899	36,152	36,747	50	50
Orange Walk	45,419	13,400	32,019	30	34
Stann Creek	32,166	9,096	23,070	28	35
Corozal	40,354	20,254	20,100	25	24
Toledo	30,538	15,384	15,154	17	18

Belize Age and Sex Structure, Census 2010 and 2000

Belize Census 2010 Population Pyramid



Belize Census 2000 - Population Pyramid



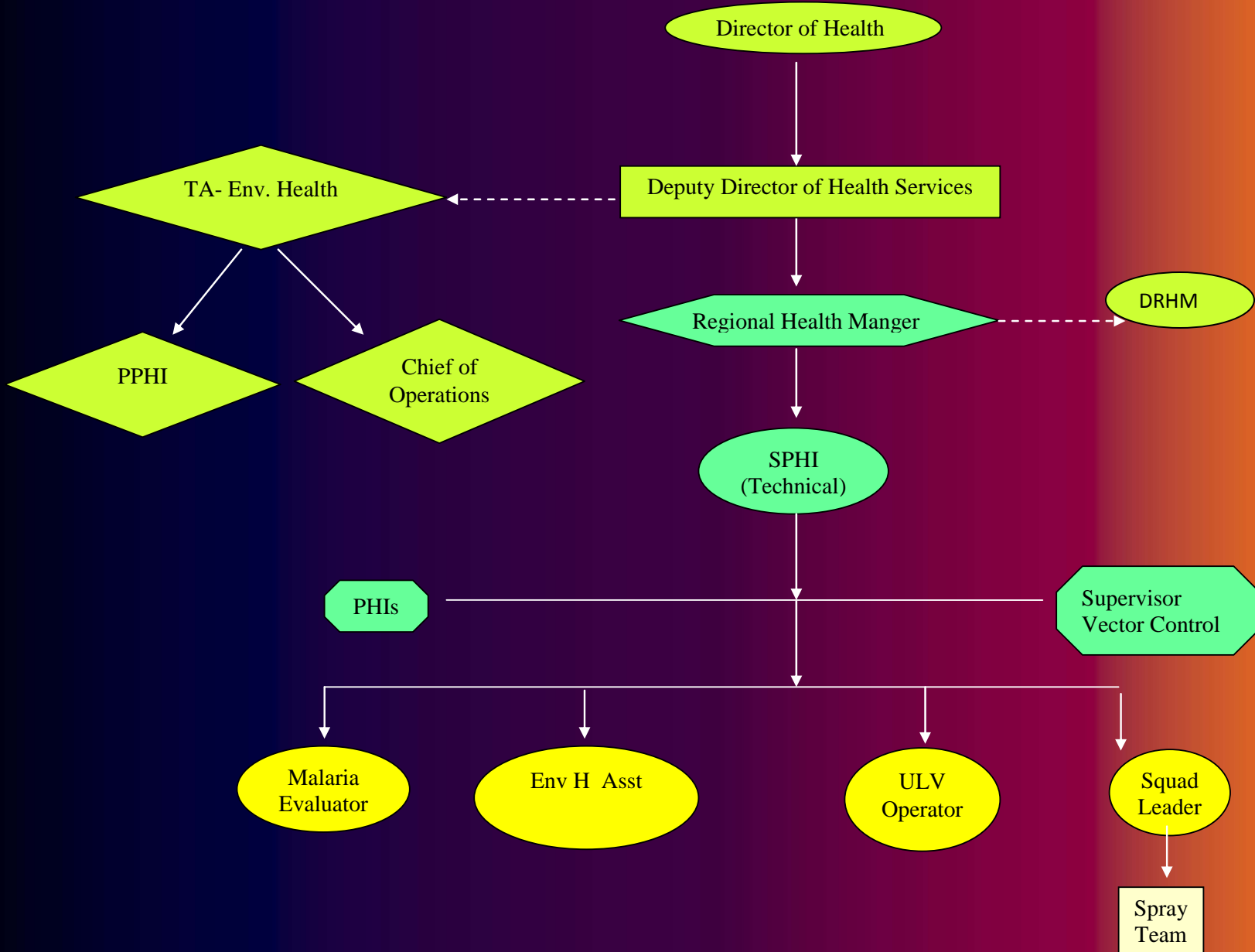
Ministry of Health Vector Control

HEALTH REGIONS 4
DISTRICTS 6

ENVIRONMENTAL HEALTH UNITS IN
EACH DISTRICT



Environmental Health Program Ministry Of Health



Staff Complement

- One Chief of Operations
- Dengue Technical Officer
- Four Senior Public Health Inspectors
- Five District Supervisors
- Five Microscopists
- Ten Evaluators
- 36 Spray men (seasonal workers)
- 6 Squad Leaders (seasonal workers)
- Two ULV Driver Operators
- Seventeen Environmental Assistants
- Three Supernumerary
- Two Perifocal Sprayman
- **Voluntary Collaborators / CNAs**

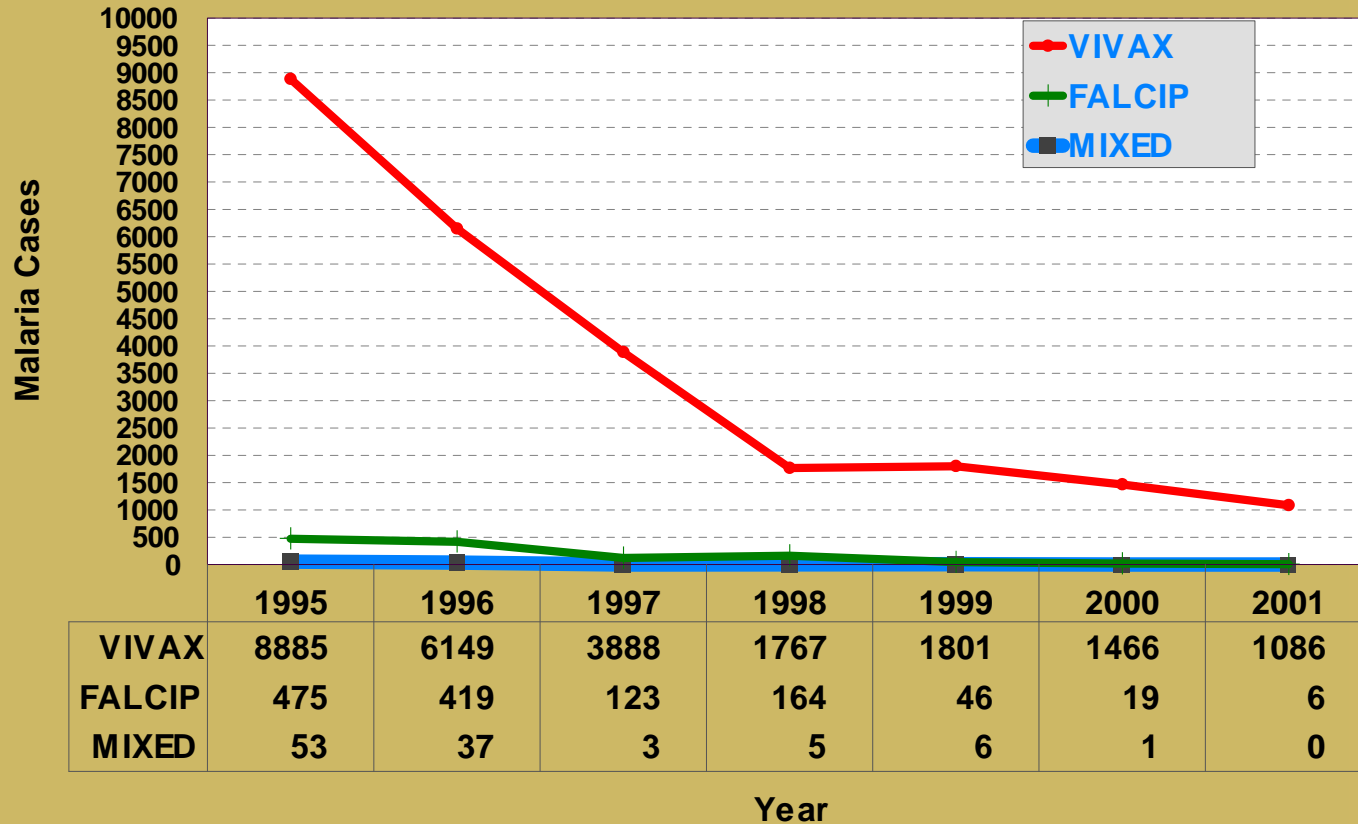
MALARIA STATISTICS

Total Malaria Cases
Belize: 1990-2008



MALARIA CASES BY SPECIES

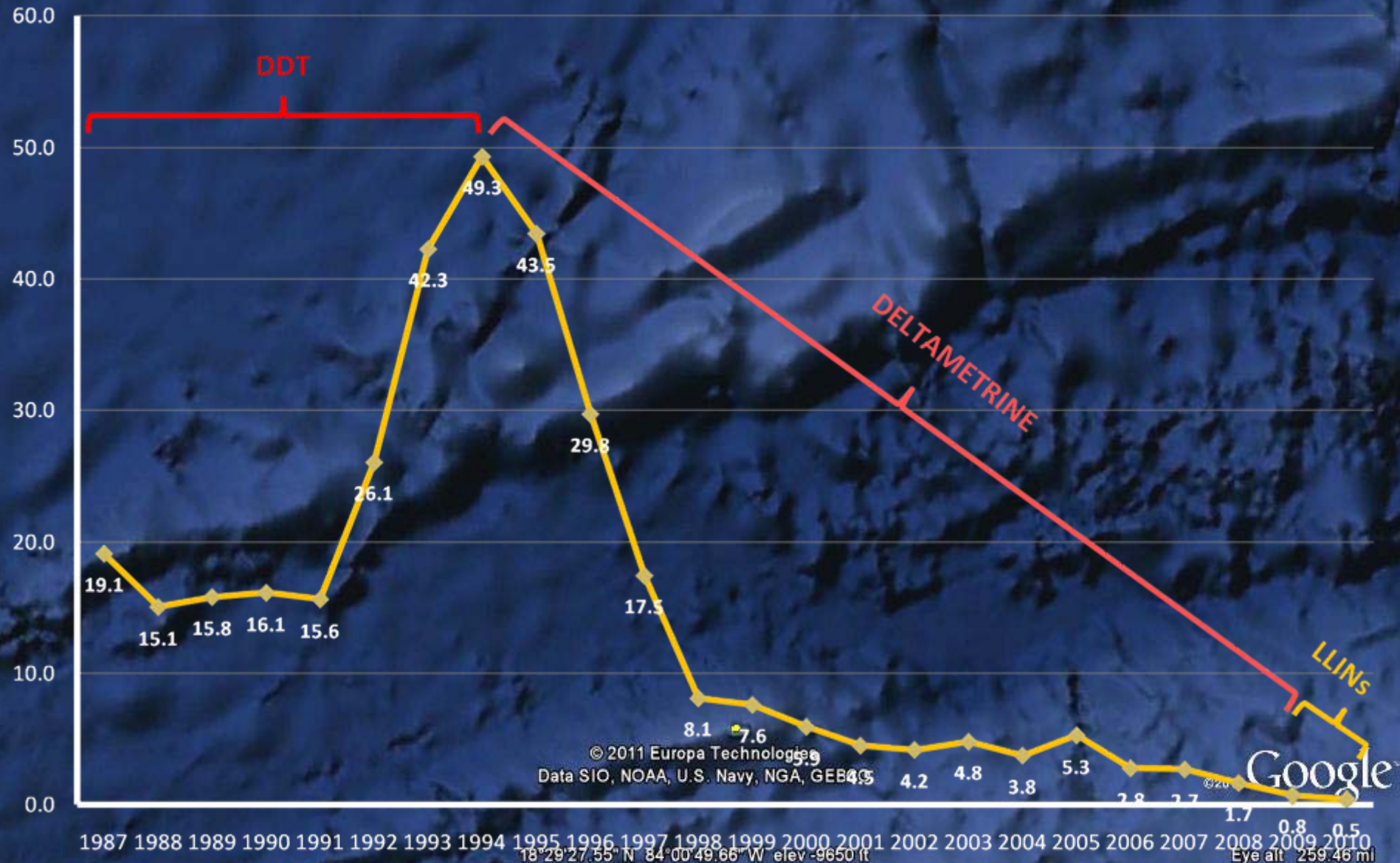
BELIZE, 1995 - 2001



SOURCE: Vector Control/National Health Information & Surveillance Unit

Belize's API and Vector Control Strategy

1987 to 2010



Strategies

- Epidemiological Surveillance
 - ✓ BHIS REPORTS
- Vector Control
 - ✓ IRS (Focalized Approach)
 - ✓ Larviciding
- Early Case Management
 - ✓ Semi-supervised treatment
- Environmental Health
 - ✓ DDT-GEF Model projects
- Health Education

THANK YOU