

F.M.R.P.

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Blood-sucking insect's bite is the kiss of death!



DRACULA BUG INVADES U.S.

After killing 40 million people, deadly fly crosses our border

World's deadliest insect invades America



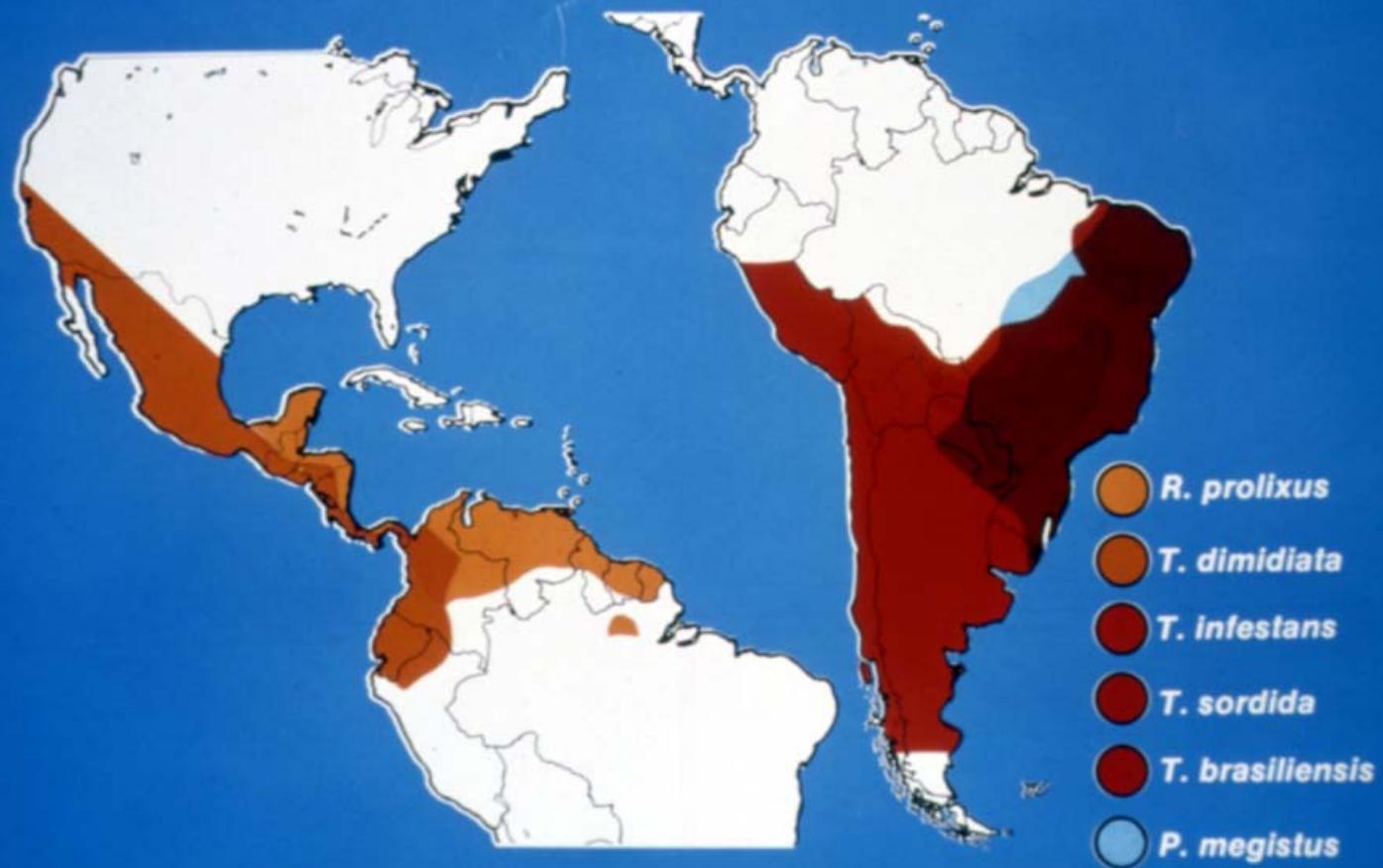
Deadly blood sucking creatures that left as many as 40 million people dying in Latin America have invaded the United States — and experts say there is no cure for the dreaded disease passed by the treacherous killer insect.

The next insect is known as the Dracula bug or Kissing bug, because it normally strikes its sweeping victim at the time of drawing blood. It plunges a sword-like

Curse of the DRACULA BUG

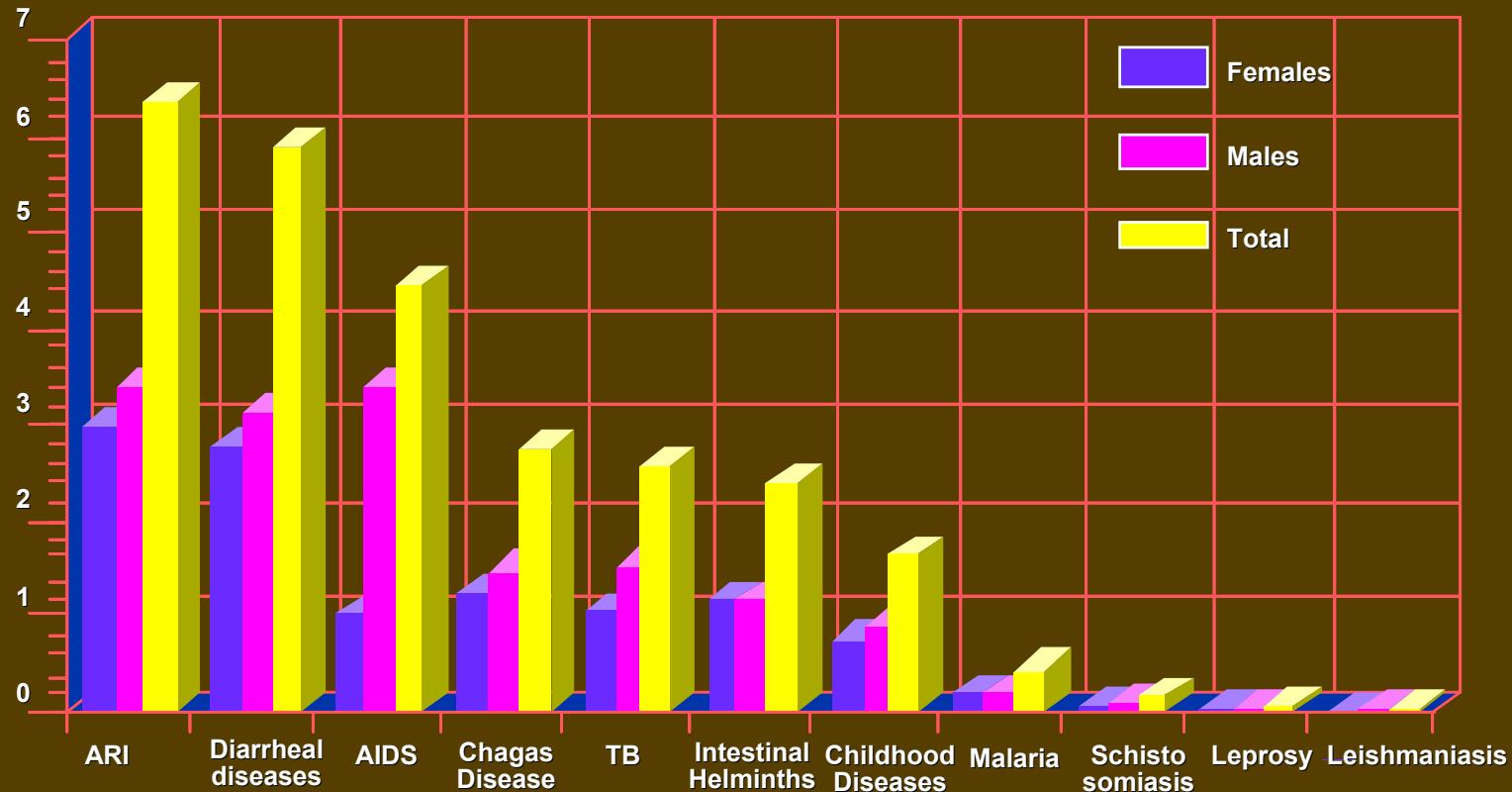
Слайд 3

DISTRIBUTION OF MAJOR VECTORS



THE BURDEN OF DISEASE IN LATIN AMERICA AND THE CARIBBEAN COMMUNICABLE DISEASES

Dalys lost in millions

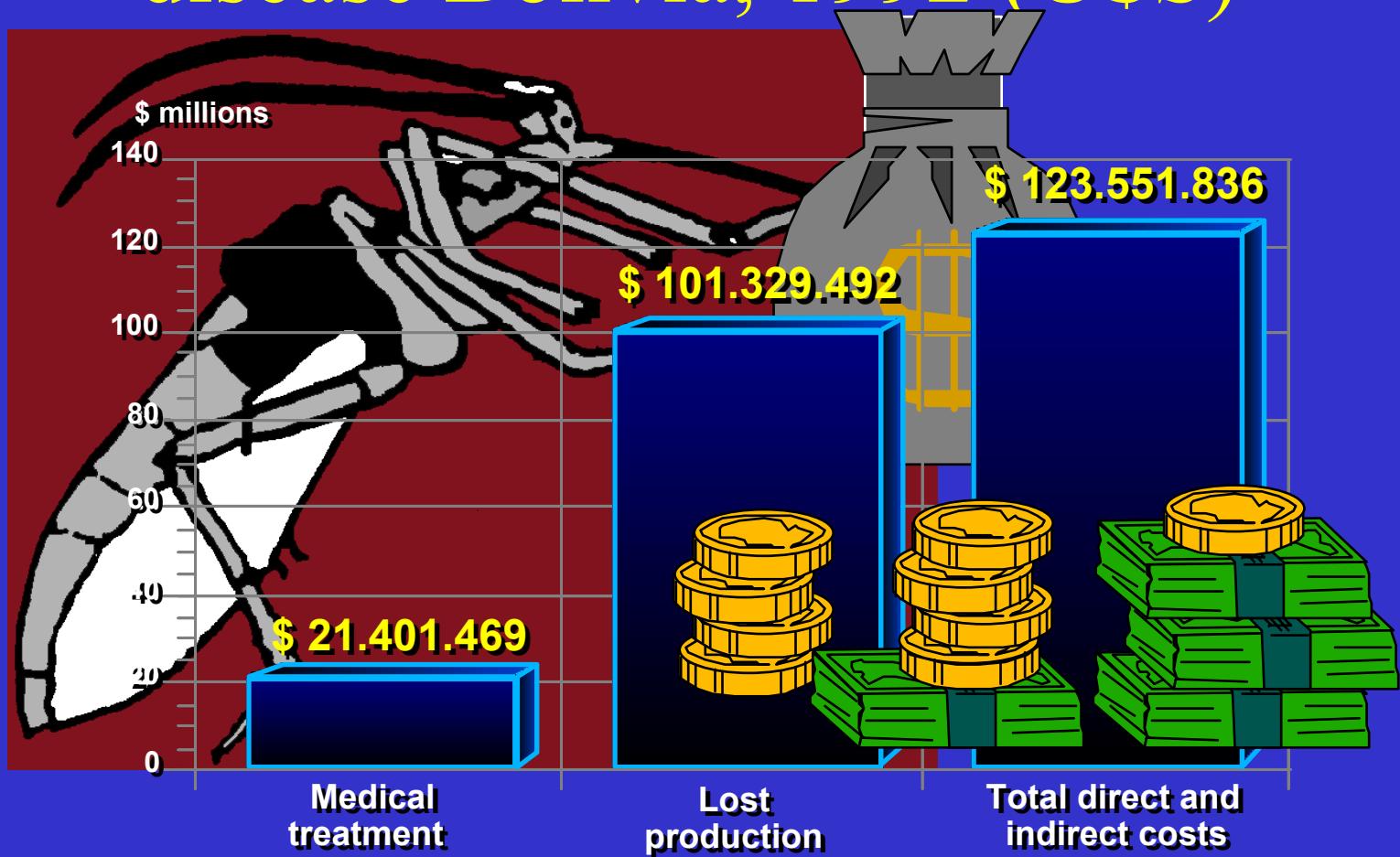


CHAGAS IN BOLIVIA



Population: 7.6 million
No. infected: 1.3 to 1.8 million
No. congenital: 1,900 annually
Incidence: 86,000/year

Economic impact of chagas disease Bolivia, 1992 (U\$S)



*From Chagas in Bolivia. Ministry of Human Development/USAID, 1994. 1\$USA = 4Bs.

CHAGAS DISEASE IN LATIN AMERICA

CHILE Treatment/hospitalization	US\$ 37 million* (1992)
BRAZIL Pacemakers/surgery for megaviscera Absenteeism of workers Annual cost of treatment per patient	US\$ 250 million (1987) US\$ 625 million (1987) US\$ 1,000
ARGENTINA Annual cost of treatment per patient requiring hospitalization	US\$ 2,734

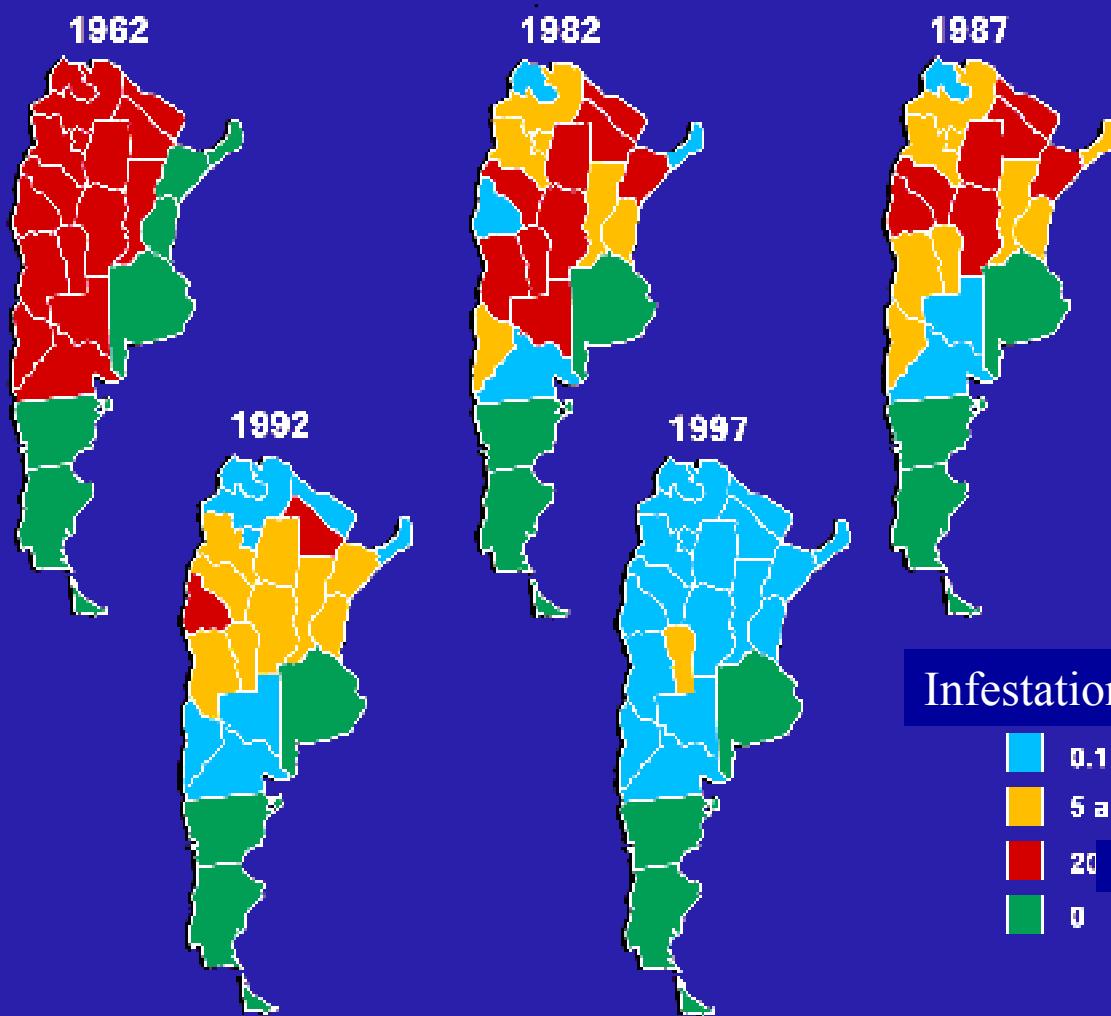
Private sector payment schedule*

Elimination of *T.infestans*

Spraying with insecticides

Housing improvements

Health education

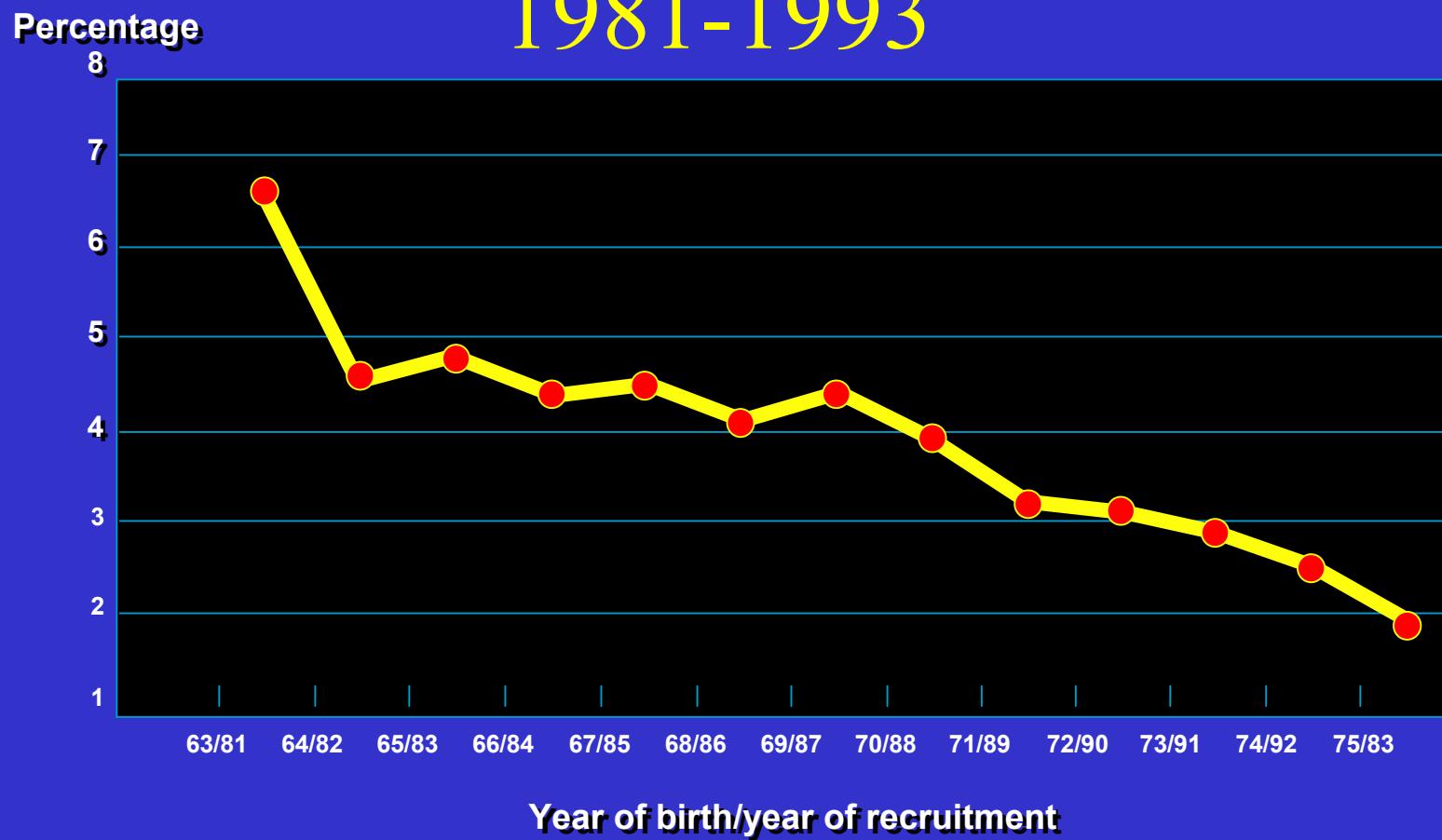


PAHO 99

Source

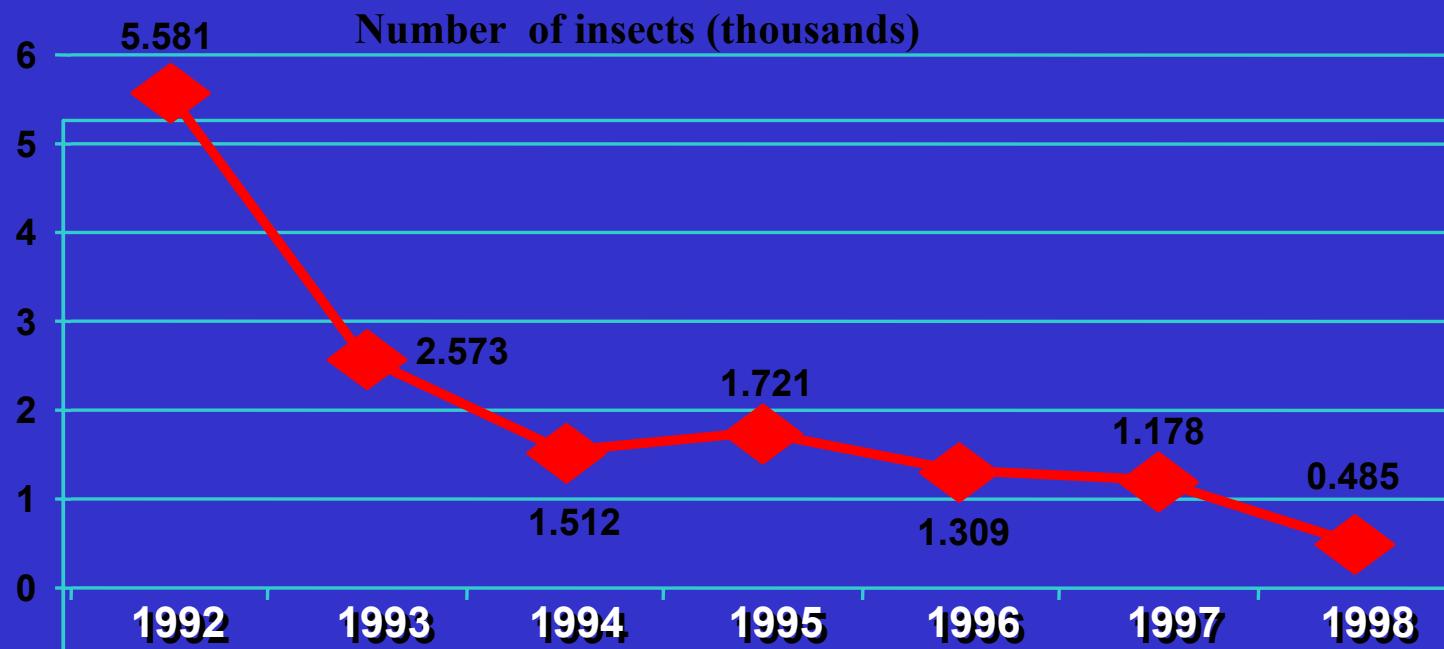
Servicio Nacional de Chagas, Centro Nacional de Endemopatologías/ANLIS "Carlos G. Malbrán", Argentina

Prevalence of *T. cruzi* infection in military recruits,* Argentina 1981-1993



Source: PAHO/HPC/HCT/94

Elimination of *Triatoma Infestans*. Brazil 1992 - 1998



Brazil, Chagas Control Program: 1975-1995

Total costs 1975-1995: US \$516,682,000 *

77.5% of funds spent on vector control

1975 -1980 3,573,000 infected individuals

(3.1% of the population)

1995 1,961,000 infected individuals
(1.3% of the population)

1975-1995 387,000 deaths from Chagas

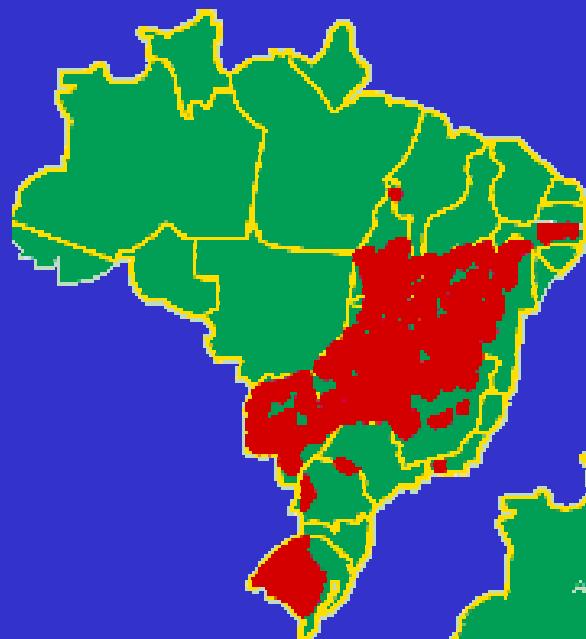
1995 17,000 deaths from Chagas

*Ministry of Health. Adjusted in 1995 US\$.

Brazil, Chagas Control Program: 1975-1995

- **Vector control prevented:**
- *277,000 new infections, and 85,000 deaths*
- *Originated US\$847,000,000 in savings; 64% in health care expenditures; and 36% in social security expenditures (disability insurance and retirement).*

1975-1981



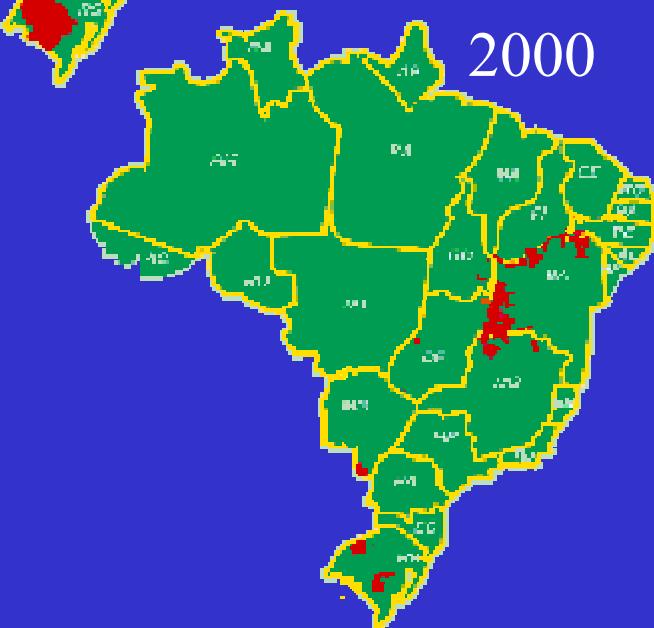
1989



1994



2000



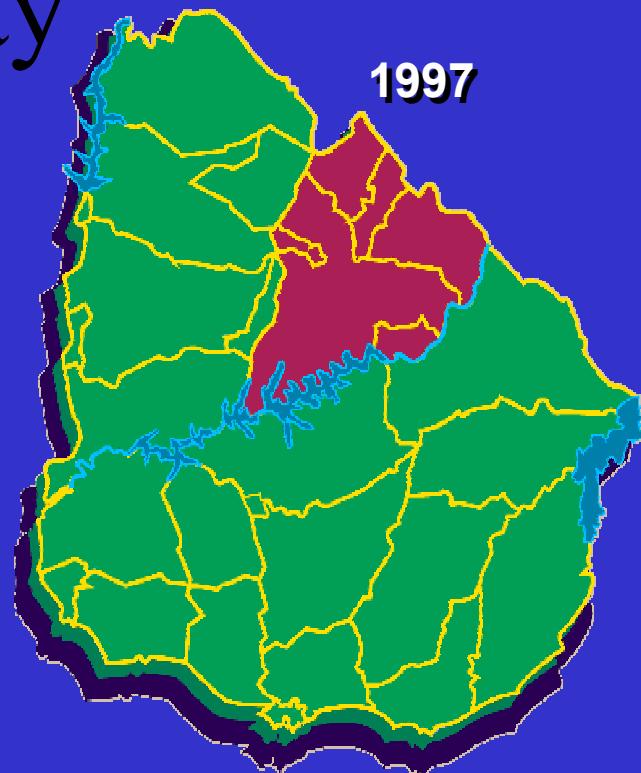
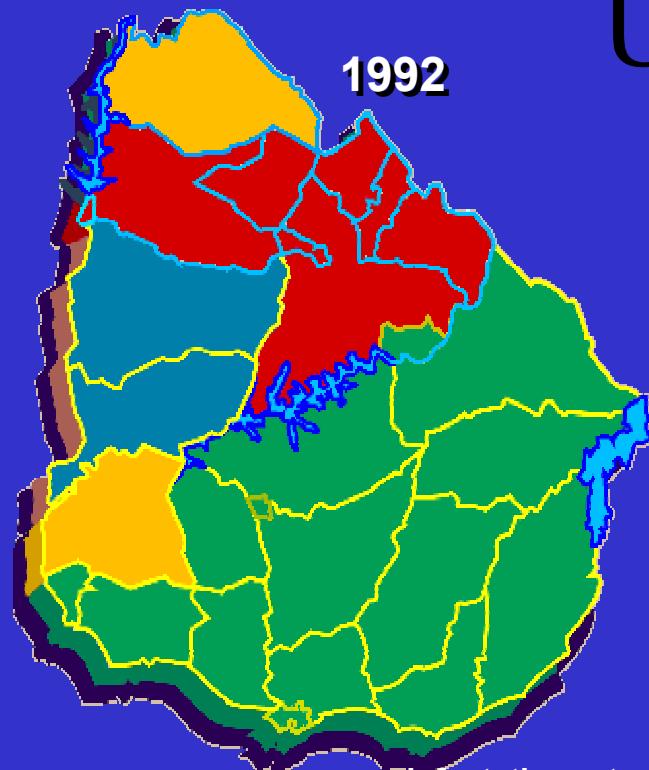
T. INFESTANTS IN CHILE: HOUSE INFESTATION RATES, 1982-1997

Region	1982	1993	% Reduction	1997	% Reduction
I	12.5	2.6	79.2	1.4	88.8
II	18.6	0.7	96.3	0.5	96.2
III	45.7	4.1	91.0	0.8	98.2
IV	51.2	8.0	84.4	0.7	98.6
V	49.9	2.4	95.2	0.8	98.4
VI	18.0	2.0	89.0	1.9	89.5
VII	34.6	1.6	95.4	0.7	98.0
TOTAL	28.8	3.0	89.5	1.0	96.5

CHILE: *TRYPANASOMA CRUZI* INFECTION IN CHILDREN 1982-1997

Region	% Positive	Serology	%Reduction
	1982 - 1990	1994 - 1997	
I	5.5	0.1	98.2
II	6.6	0.3	95.5
III	9.8	1.0	90.0
IV	7.2	2.0	72.2
V	5.2	1.9	63.5
Metropolitana	1.4	0.6	57.1
VI	1.4	0.4	71.4
TOTAL	5.4	1.1	79.6

Uruguay



Southern Cone Initiative

1991-1999

Program investments, in US\$: 1991-1999

Countries	1991-1995	1996-1999	TOTAL
ARG	68,900*	47,664*	116,564*
BOL	800,000	36,009*	36,809*
BRA ^x	66,974*	68,956*	135,930*
CHI ^x	1,5*	2,630*	4,130*
PAR ^x	3,287*	5,671*	8,958*
URU ^x	468,000	214,000	682,000
Total	141,929*	161,144*	303,073,000

^x Funds for vector control only; * Millions.