

Mexican programs relevant to the US

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MEDFLY PROGRAM/ Cooperative International Program

On May 25th, a trilateral Cooperative Agreement was signed among the Governments of the Republic of Guatemala, the United States of America, and Mexico for the prevention, detection, suppression and eradication of the Mediterranean Fruit Fly.

2014 Work Areas

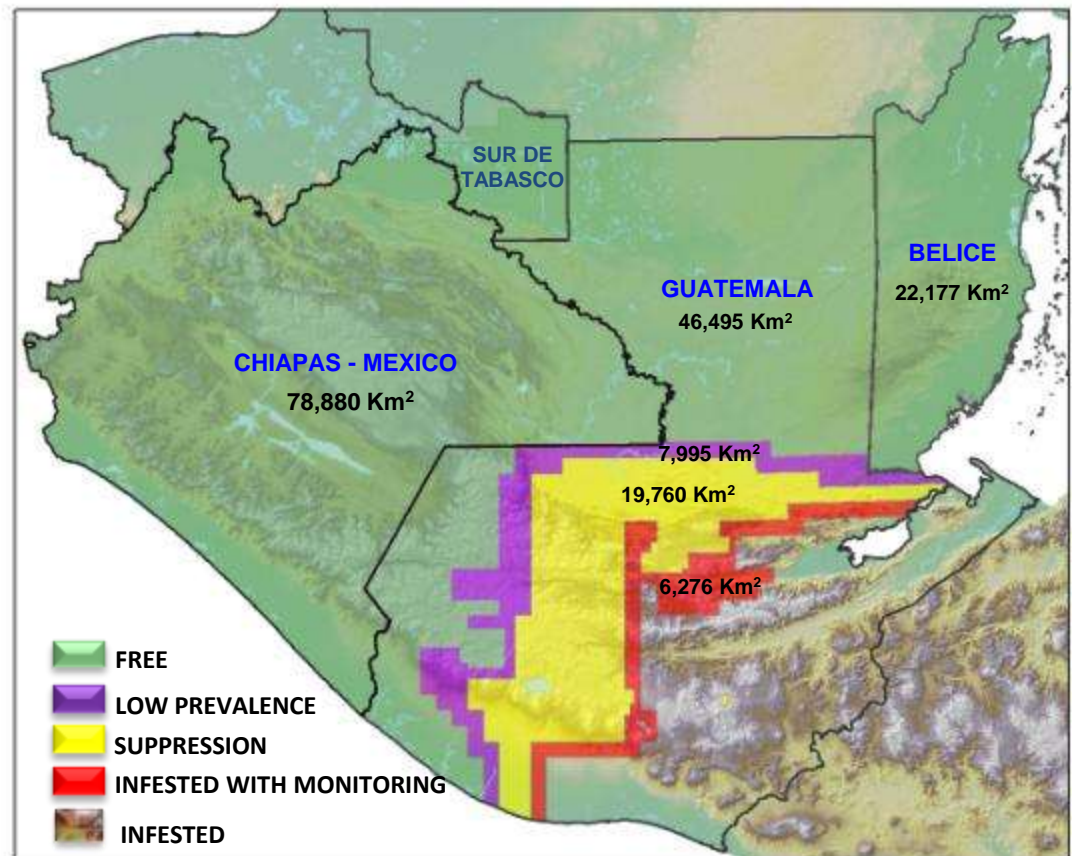
- Insect pest management in area wide, trapping, spinosad baits, quarantine checkpoints and sterile insect technique.

- TSL strain sterile production

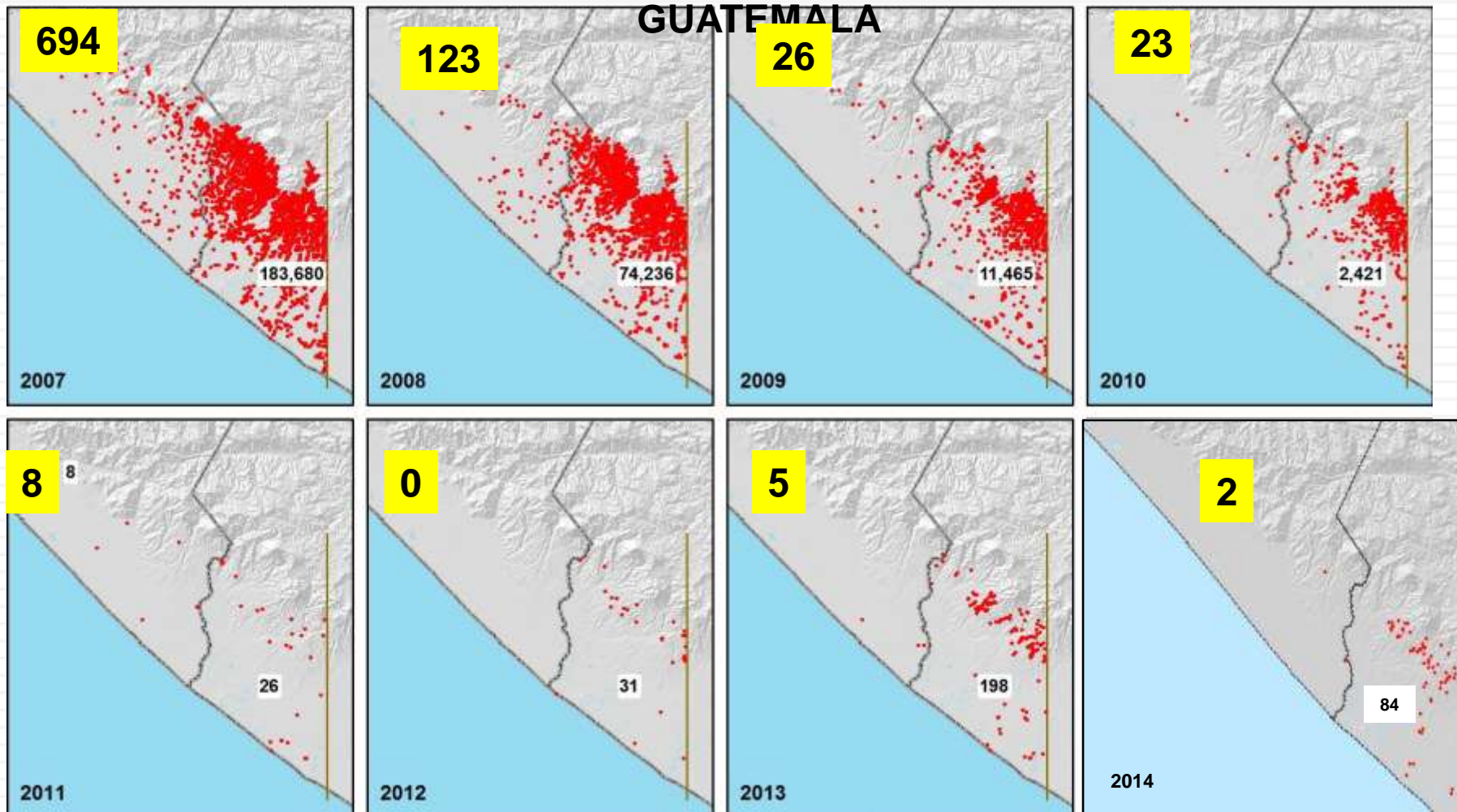
at: Place	Country	Weekly production
El Pino	Guatemala	800 millions
Metapa, Chiapas	Mexico	500 millions

- Aerial release / Chilled Adult

- All under Geographical Information System (GIS)



FERTILE ADULT CAPTURES IN SOCONUSCO, CHIAPAS, MEXICO AND SOUTHWEST GUATEMALA

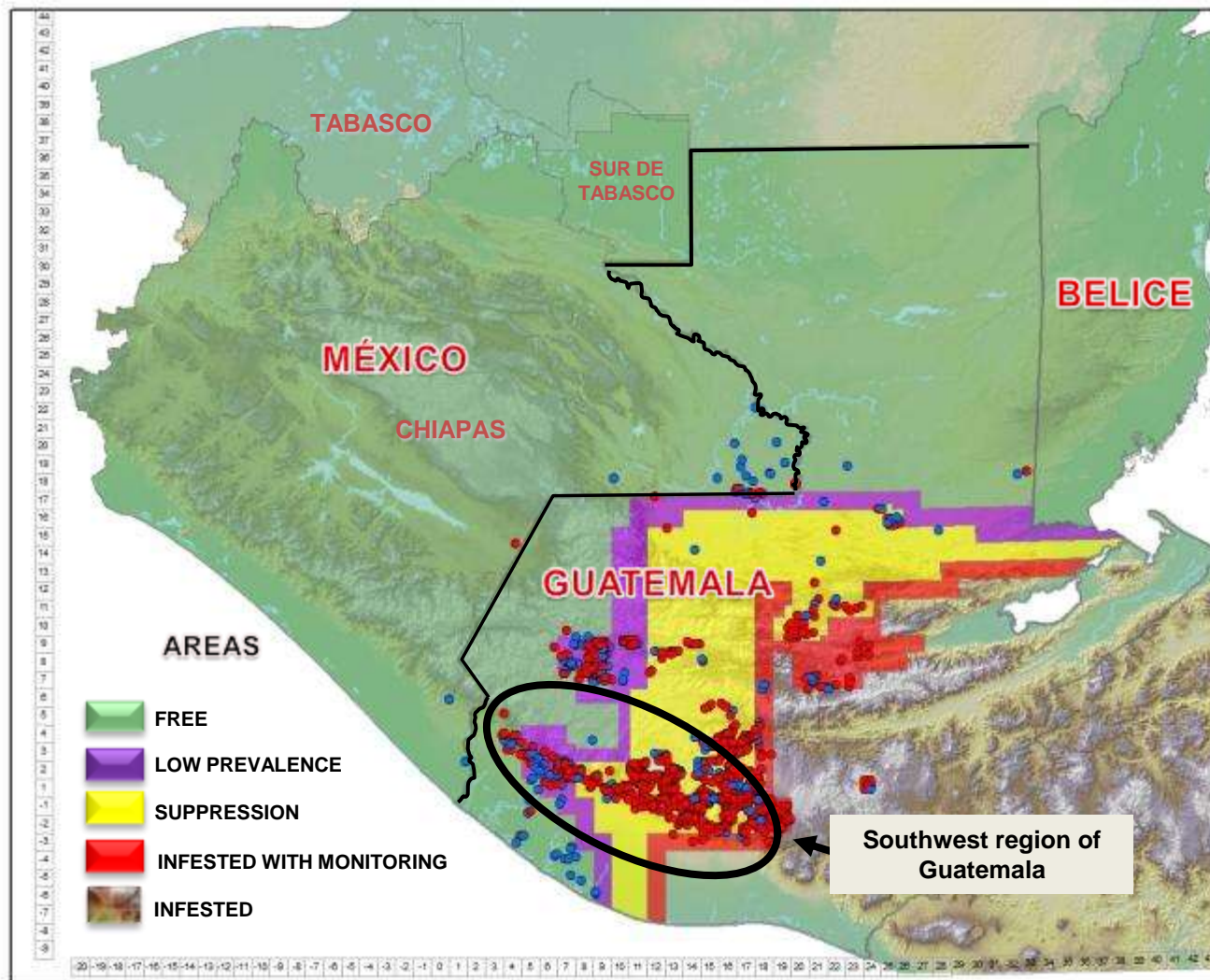


MEDFLY: Current situation



- **Currently in Chiapas, Mexico, there are 6 active outbreaks and 25 detections of the pest. The Medfly program indicator remains on yellow status. The surveillance system continues operating in order to timely detect any new incursion of the pest to its immediate eradication.**

MEDFLY: Active detection and outbreak up to Jul 19, 2014



Huanglongbing – HLB

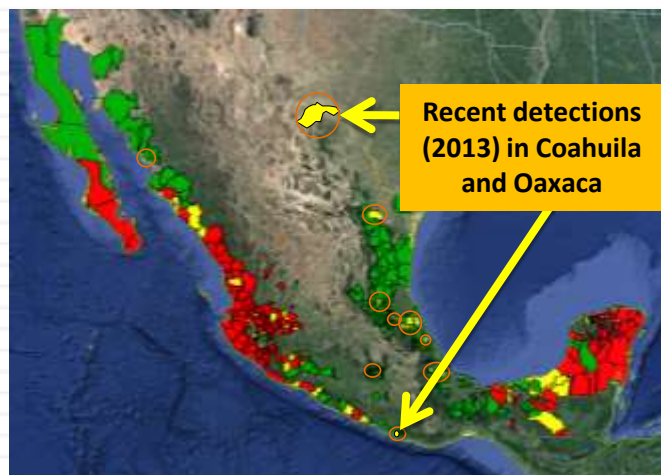
Phytosanitary actions during 2013

Mexico has 550,000 hectares of citrus

The HLB is present in 16 of the 24 states that produce citrus in the country, which represents 6% of citrus area in the country.

Regional control of ACP: Strategic action

- Chemical control on 101,757 hectares (area wide)
- Chemical control on 202,157 of citrus trees located in backyards.



- National Detection Program
- States without citrus
- Areas with detection of HLB
- Areas with detection of PAC infect



ASIAN CITRUS PSYLLID: Cooperative program

CHEMICAL REGIONAL CONTROL

Impact PAC populations by the application of its management in areas wide (ARCOs)
(ARCOs = CHMAs (Citrus Health Management Areas))

Contribute to confinement and reduced HLB advance

Promoting with producers establishing ARCOs

2013: 101,757 hectares (area wide)

Up to May 31, 2014

To maintain low populations of the insect vector and to promote the participation of producers of 24 States, it has been established 131 Regional Control Areas. Up to date, 15 States are under chemical control that represents 66,289 hectares. Plus treatment plants citrus in 444,144 of 109,492 backyards.



ASIAN CITRUS PSYLLID

Cooperative program 2013

	Detection Survey	Treatments	
		Citrus trees	Properties
Tijuana	388	40,163	18,202
Tecate	107	14,916	2,598
Rosarito	10	316	627
Ensenada	31	6,044	553
Mexicali	83	1,383	3,327
San Luis R.C.	0	0	0
Sonoyta	2	269	105
P. Peñasco	9	914	445
Caborca	3	0	0
Santa Ana	3	945	259
Magdalena	5	2,066	518
Imuris	1	0	0
Nogales	0	0	0
Total	642	67,016	26,634

Cooperative program 2014

	Detection Survey	Treatments	
		Citrus trees	Properties
Tijuana	259	22,272	10,028
Tecate	48	4,339	1,473
Rosarito	12	747	330
Ensenada	12	1,284	164
Mexicali	149	5,997	2,917
San Luis R.C.	9	1,915	748
Sonoyta	1	47	27
P. Peñasco	26	788	333
Caborca		0	0
Santa Ana	8	0	0
Magdalena	12	1,882	448
Imuris	1	55	22
Nogales	1	42	17
Total	538	39,368	16,507

B.C. 45 traps in commercial groves, 1,255 traps in residential sites, 10 traps in nurseries. **Total = 1,775**

Sonora. 11 traps in commercial groves, 409 traps in residential sites, 11 traps in nurseries. **Total = 431**

PINK HIBISCUS MEALYBUG

- Biological control of this pest has been successful; low level infestations (<5 PHM/outbreak), levels of parasitism close to 98%.
- Released of parasitoids of *Anagyrus kamali* (158,872,732.00) in 18 states with presence of Pink Hibiscus Mealybug, with emphasis in Baja California Sur, Nayarit, Jalisco, Tamaulipas and Veracruz.
- Release of the predator *Cryptolaemus montrouzieri* (Coccinellidae): 7,611,670.00 adults.



PINK HIBISCUS MEALYBUG

- Control measures applied to maintain low levels of Pink Hibiscus Mealybug infestations, avoid crop losses of mango, guava and citrus crops.





NAPPO

North American Plant Protection Organization
Organización Norteamericana de Protección a las Plantas
MEXICO - USA - CANADA



The 38th NAPPO Annual Meeting will take place from October 20-24, 2014 at the *Hotel Las Brisas Huatulco*, in Oaxaca, Mexico.

During the Annual Meeting there will be a symposium on the theme: ***“Electronic Phytosanitary Certification: from concepts to implementation”***, the agenda and presenters are currently being organized.



Thank you

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http: www.senasica.gob.mx