

MEDITERRANEAN FRUIT FLY ERADICATION PROGRAMME IN THE DOMINICAN REPUBLIC

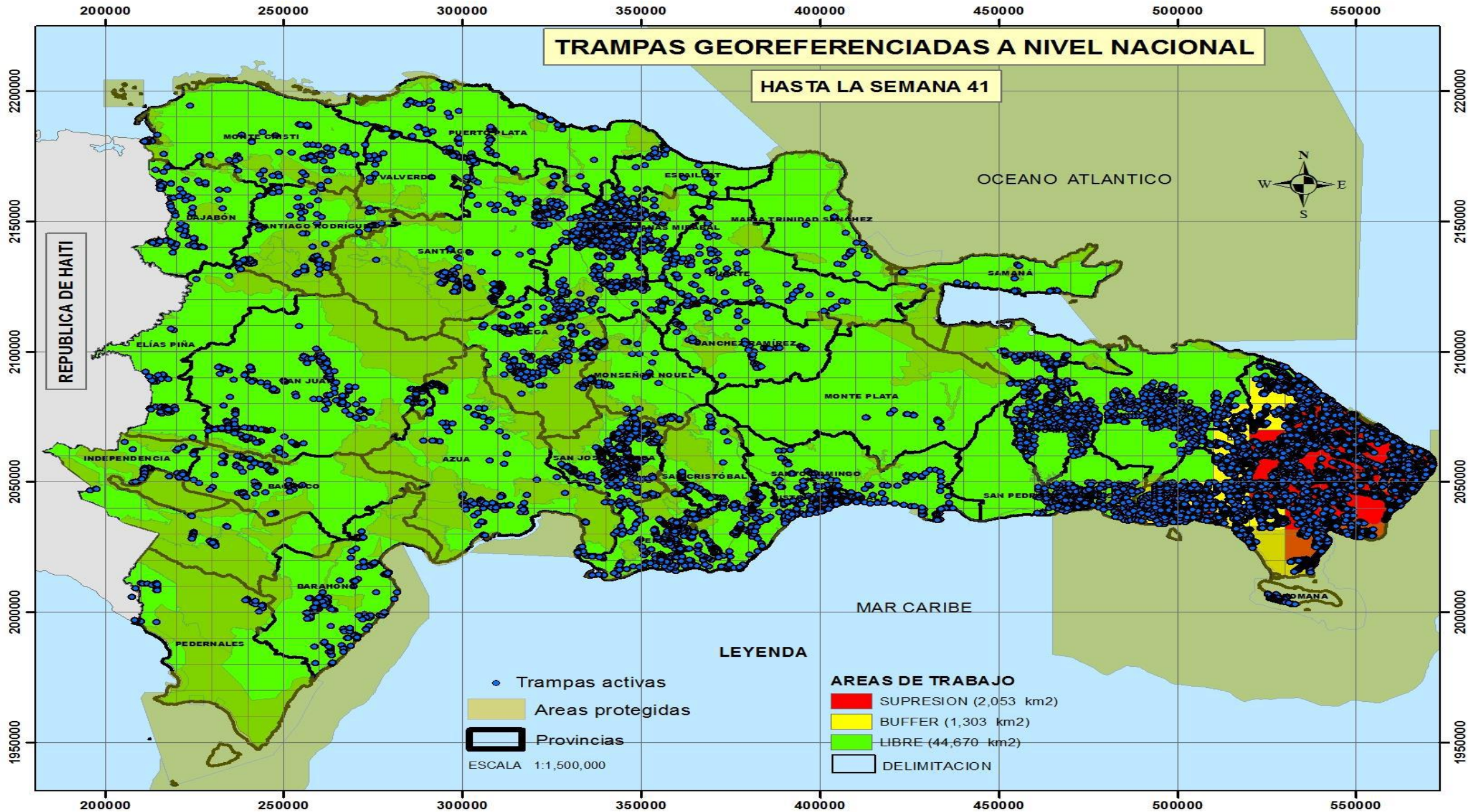
SETTING UP A SUCCESFUL ERADICATION PROGRAM AND THE IMPORTANCE OF
SURVEILLANCE



OUTBREAK FACTS

- The Presence of Med-Fly was reported on March 18 2015
- A solid surveillance network against non-native fruit fly pest was lacking
- The pest had already spread to 2053 Km² in the eastern part of the Dominican Republic
- An immediate ban to most exports of fruit and vegetables was imposed by trading partners, causing a loss of US \$40 million in 9 Months.
- 30,000 Jobs were at risk
- As an emergency response the Government established the MOSCAMED-RD Program.

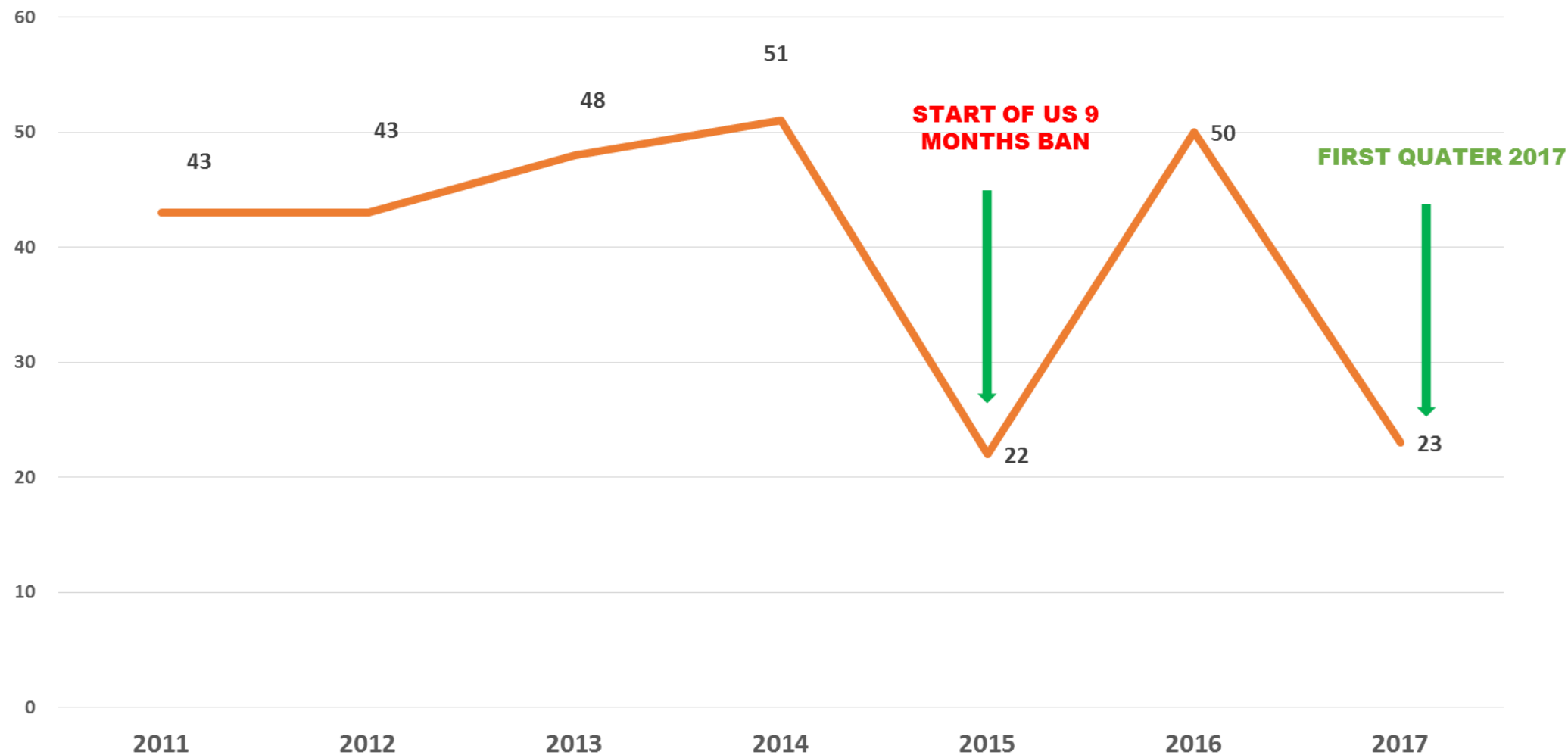




EXPORTS OF DOMINICAN PRODUCTS TO THE USA

VALUES IN U\$ MILLIONS

USA BAN AFFECTED PRODUCTS ONLY



CHARACTERISTICS OF THE OUTBREAK

- The Outbreak was located on the Number 1 Tourist Destination of the Caribbean “Punta Cana”
- Agricultural Production is Non-Existent
- The production sites of goods affected by the Ban were 200+ Kilometers away of the Outbreak

WHY THE BAN WAS ISSUED?

MY FAVORITE'S TEACHER QUOTE

*“IN GOD I TRUST
ALL OTHERS MUST BRING DATA”*

THE INITIAL CHALLENGES

- ▶ SOCIAL EFFECTS OF THE BAN
- ▶ MEDIA PRESSURE
- ▶ STAKEHOLDERS WANT ANSWERS
- ▶ RESOURCES ARE NEEDED
- ▶ EVERYBODY WANTS TO HELP
- ▶ WHY ERADICATION?

I'M GOING



CRAZY

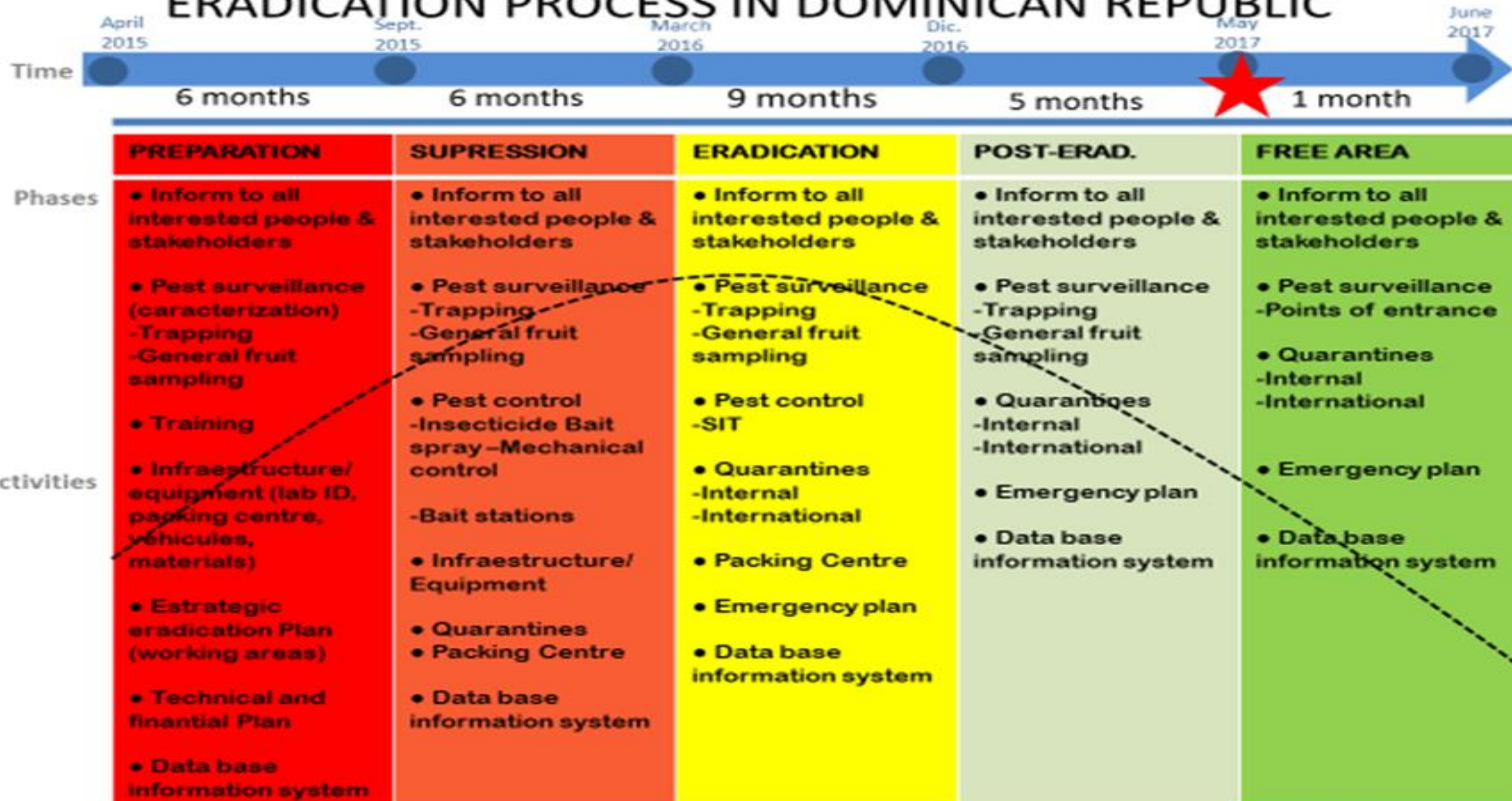
GETTING STARTED

- ▶ USDA/APHIS COOPERATION
- ▶ IAEA/FAO TECHNICAL ADVISORY COMMITTEE (TAC)
 - ▶ SEPTEMBER MEETING-2015
 - ▶ JANUARY MEETING-2016
 - ▶ OCTOBER MEETING-2016
- ▶ OTHER ORGANIZATIONS COOPERATION
- ▶ (MOSCAMED PROGRAM MAGA-SAGARPA-USDA, OIRSA, IICA)

ESTRUCTURA OPERATIVA PROGRAMA

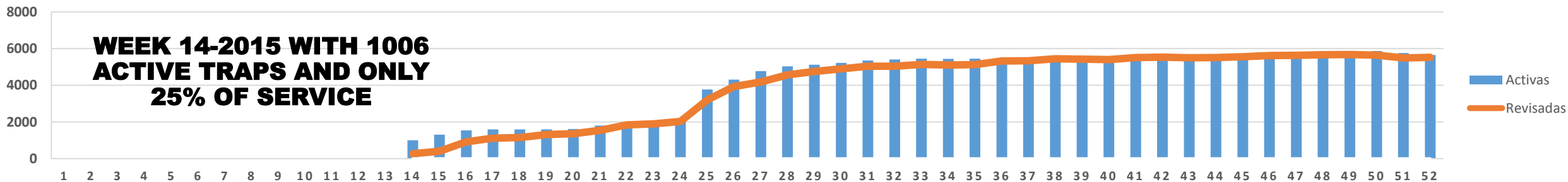
		MINISTERIO AGRICULTURA		TRAMPEROS Y OTROS TECNICOS		RECOLECCION DE FRUTOS		APLICACIÓN INSECT.		MILITARES		TOTAL	
No.	EQUIPO	No. PERSONAS	JORNAL	No. PERSONAS	JORNAL	No. PERSONAS	JORNAL	No. PERSONAS	JORNAL	No. PERSONAS	JORNAL	No. PERSONAS	JORNAL
1	Trampeo y Deteccion	29	131	38	182	0	0	0	0	1	5	68	318
2	Aplicación y Control	2	10	0	0	0	0	24	115	0	0	26	125
3	Control Mecanico / Recoleccion de Frutos	6	1	0	0	36	180	0	0	0	0	42	181
4	Puestos Cuarentenarios	6	23	13	57	0	0	0	0	17	89	36	169
5	Laboratirio y Muestreo de Frutos	5	25	4	21	0	0	0	0	0	0	9	46
6	Administracion, Control de Calidad y Comunicación	11	57	1	5	0	0	0	0	0	0	12	62
7	Geomatica	3	16	2	11	0	0	0	0	0	0	5	27
8	Control Autocida / TIE	10	42	0	0	0	0	17	87	0	0	27	129
	Totales	72	305	58	276	36	180	41	202	18	94	225	1057

ERADICATION PROCESS IN DOMINICAN REPUBLIC

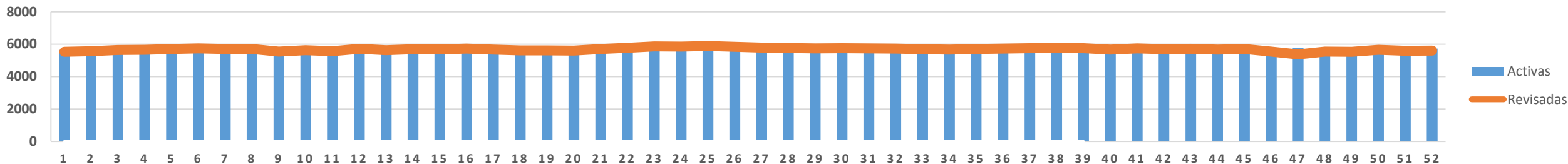


ACTIVE AND SERVICED TRAPS PER WEEK 2015 (LA)

**WEEK 14-2015 WITH 1006
ACTIVE TRAPS AND ONLY
25% OF SERVICE**

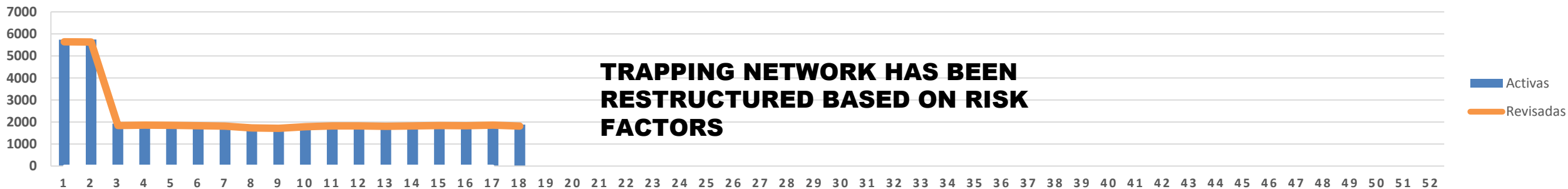


ACTIVE AND SERVICED TRAPS PER WEEK 2016 (LA)

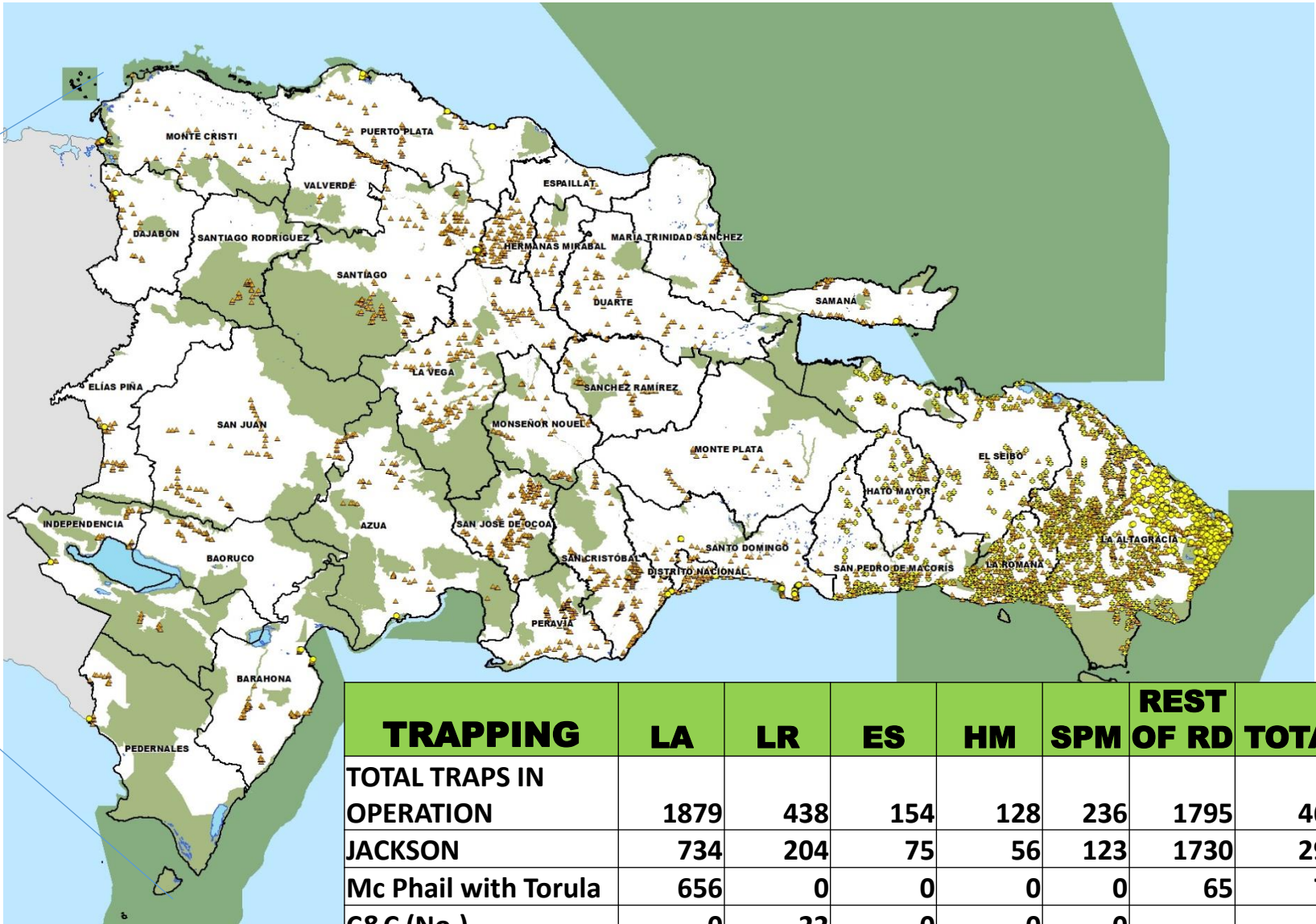


ACTIVE AND SERVICED TRAPS PER WEEK 2017 (LA)

**TRAPPING NETWORK HAS BEEN
RESTRUCTURED BASED ON RISK
FACTORS**

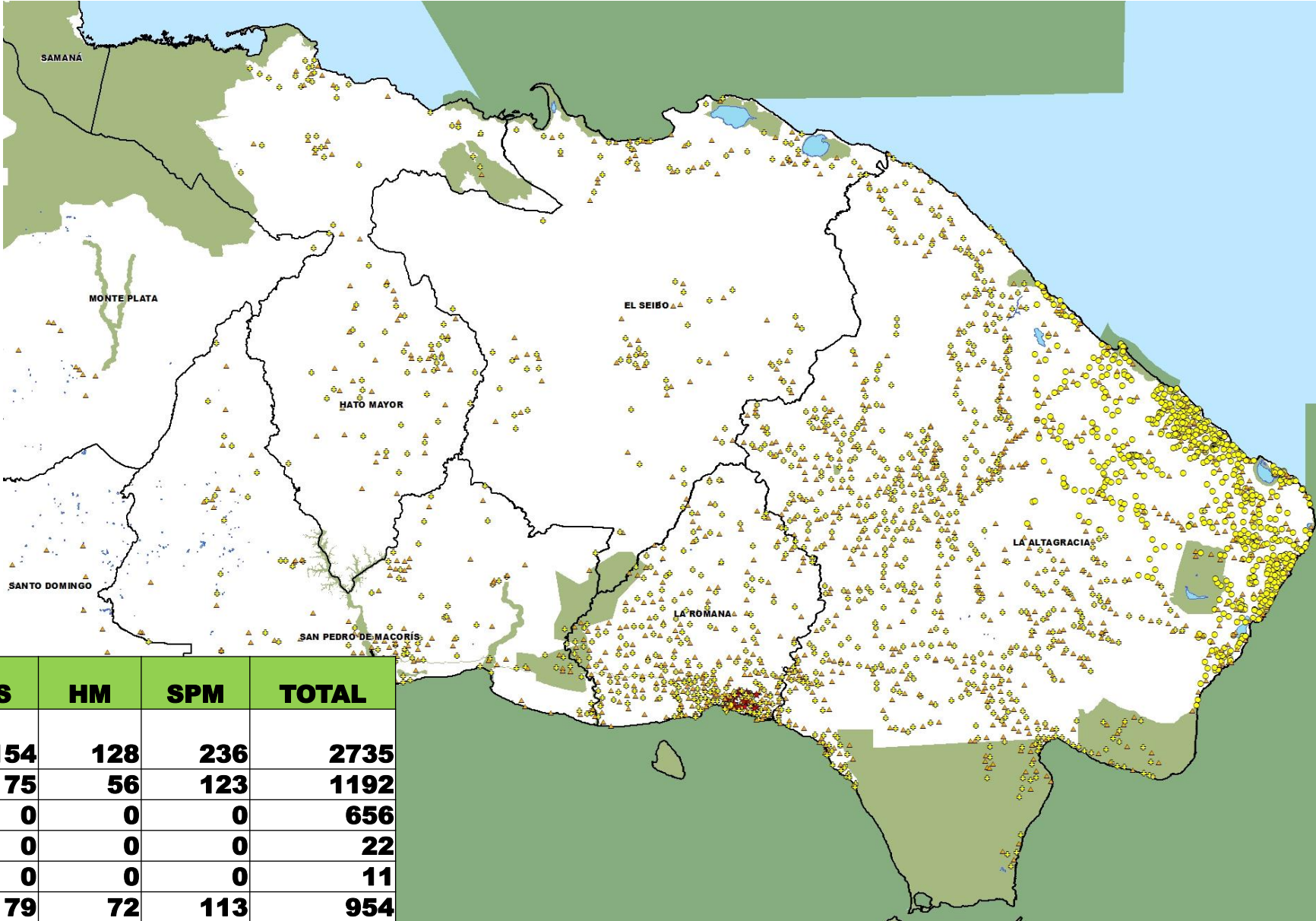


ACTIVE TRAPPING NETWORK AT NATIONAL LEVEL



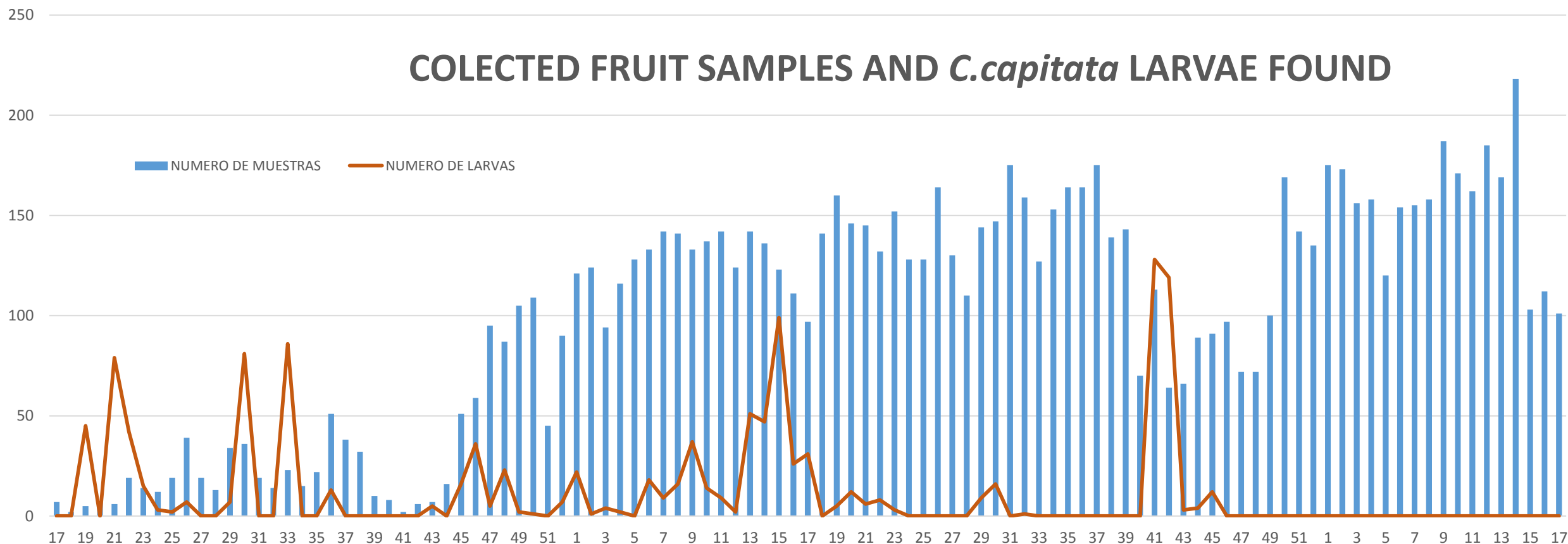
TRAPPING	LA	LR	ES	HM	SPM	REST OF RD	TOTAL
TOTAL TRAPS IN OPERATION	1879	438	154	128	236	1795	4630
JACKSON	734	204	75	56	123	1730	2922
Mc Phail with Torula	656	0	0	0	0	65	721
C&C (No.)	0	22	0	0	0		22
Yellow Panel	0	11	0	0	0		11
Multilure Ceratrap	489	201	79	72	113		954

ACTIVE TRAPPING NETWORK IN THE EASTERN REGION



TRAPPING	LA	LR	ES	HM	SPM	TOTAL
TOTAL TRAPS IN OPERATION	1879	438	154	128	236	2735
JACKSON	734	204	75	56	123	1192
Mc Phail with Torula	656	0	0	0	0	656
C&C (No.)	0	22	0	0	0	22
Yellow Panel	0	11	0	0	0	11
Multilure Ceratrap	489	201	79	72	113	954

COLECTED FRUIT SAMPLES AND *C.capitata* LARVAE FOUND

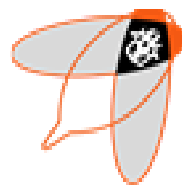


2015: W19=45, W21=79, W22=42, W30=81, W33=86, W46=36, W48=23 larvae.

2016: W1=22, W9=37, W15=99, W17=31, W41=128, W42=119 larvae.

Highest infestation: W21 2015; 7.4 Larvae per sample

FROM W46, 2016 TO W19 2017=0 LARVAE ARE FOUND (26 CONSECUTIVE WEEKS WITHOUT LARVAE DETECTIONS)



MOSCAMED-RD

PROGRAMA PARA EL CONTROL Y ERRADICACIÓN MOSCA DEL MEDITERRANEO

AREA-WIDE INTEGRATED PEST MANAGEMENT



AERIAL BAIT SPRAY
7,692 HECTARES
11,647 LITERS OF
GF120



GROUND BAIT SPRAY
23,704 HECTARES
49,177 LITERS OF
GF120



BAIT STATIONS
28,176 WITH CERATRAP
21,133 WITH GF120
1,513 COMERCIAL
50,822 TOTAL

MECHANICAL CONTROL

COLLECTION OF FRUITS AND DESTRUCTION OR PRUNNING OF HOST TREES:

Terminalia catappa , Fam Comtretaceae (ALMOND), ***Sideroxylon foetidissimum***, Fam. Sapotaceae (YELLOW CAYA) y ***Simarouba berteroana*** , Fam.Simaroubaceae (BLACK CAYA).



FRUIT
COLLECTION

MECHANICAL CONTROL

1195 TONS OF FRUIT

6,721 PRUNNED TREES MAINLY
CAYA AND ALMOND



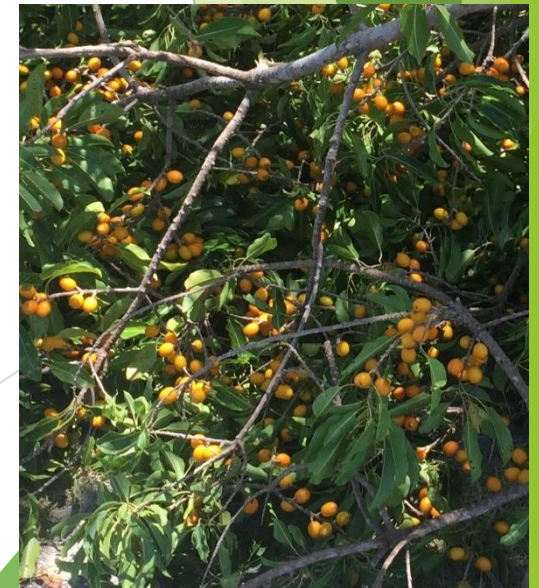
Terminalia catappa (ALMOND)



PRUNNING OF CAYA

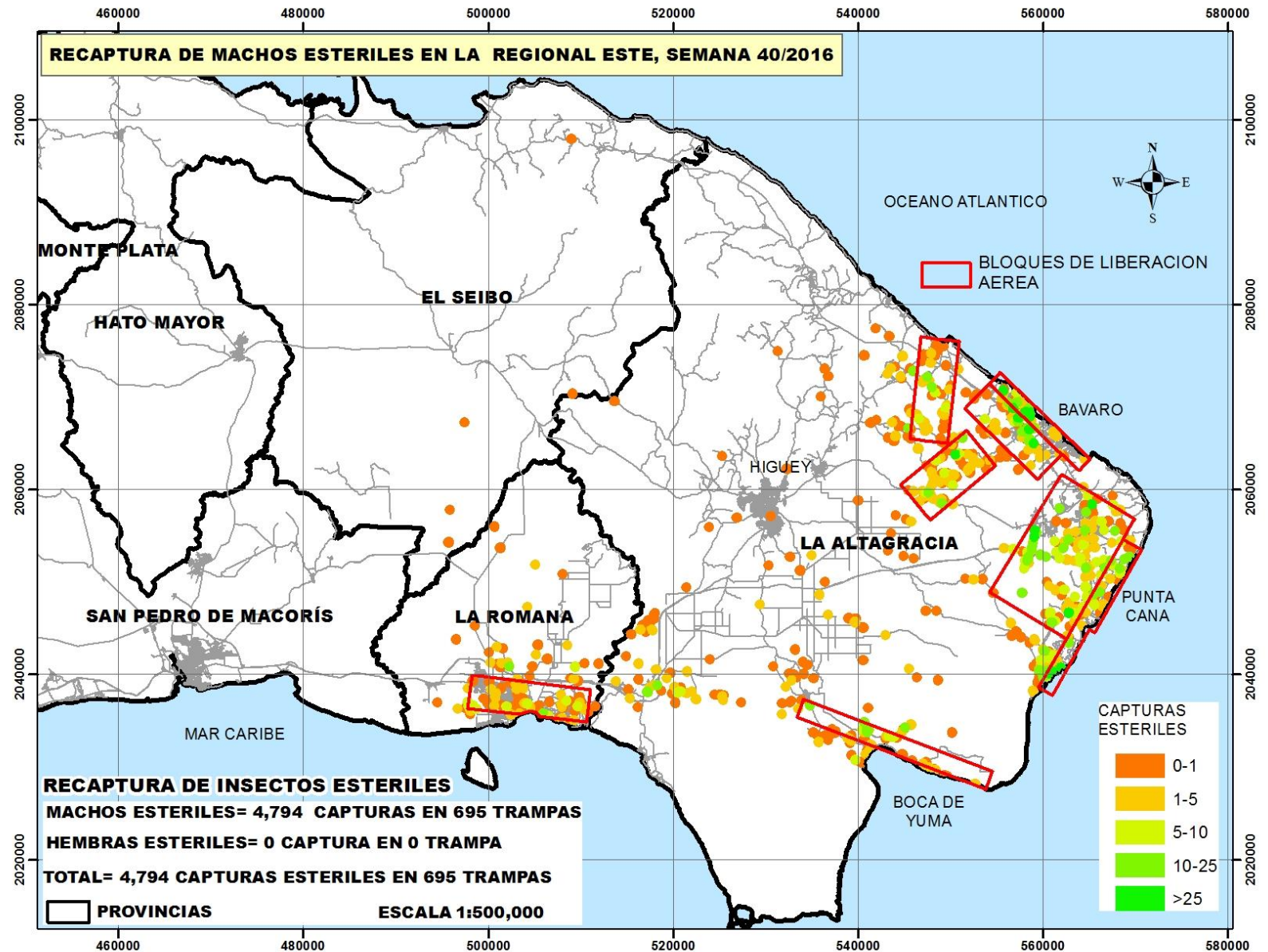


BLACK CAYA



YELLOW CAYA

**AERIAL RELEASE OF
72 MILLION FLIES PER
WEEK IN 8 BLOCKS
AND 10 MILLION
GROUND RELEASE
WITH A TOTAL OF
42,000 HAS.**



RESULTS

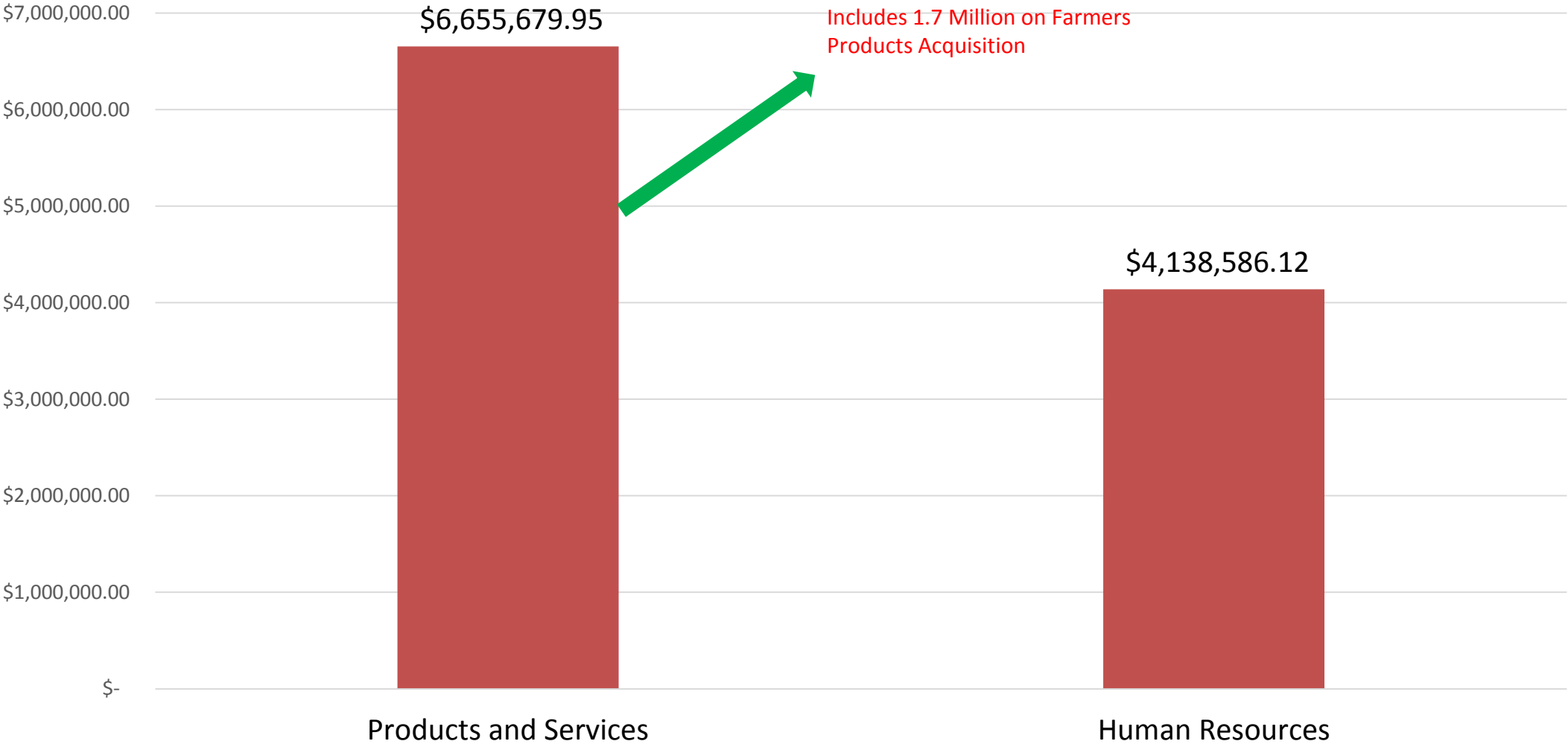
- With these actions, after only 10 months the export ban to horticultural products was lifted in early 2016.
- Last Fertile Adult was detected on January 2017
- More than 3 Generations have passed since then with no adults or larvae found
- Control technology and a reliable trapping network is in place for early detection and eradication of potential outbreaks.
- As part of the management of pest free areas, the trapping network has been restructured based on risk factors, placing traps in ports of entry, host areas, touristic sites, markets and sites where pest presence was recurrent.

• CONCLUSIONS

- Eradication of the medfly from Dominican Republic is achieved in April and will be declared eradicated by July 2017.
- In addition, the country has developed the capacity for early detection and emergency response and for area wide application of the SIT.
- This valuable experience could be shared with Haiti and throughout the Caribbean Region to strengthen the surveillance systems and to prevent similar situations which can result in serious economic and social losses.
- The IAEA and FAO and USDA joined hands to assist the country in the eradication campaign with assistance from regional organizations such as IICA and OIRSA. The Guatemala-México-USA Moscardine Programme played a major role in assisting through technology transfer.

TOTAL INVESTMENT OF THE DOMINICAN GOVT BY CONCEPT

VALUES IN U\$ DOLLARS





THANKS

