

Project Objective

To assist in the development of the fruit and horticultural production industry using the Sterile Insect Technique (SIT) as a component of integrated management of fruit flies in the Latin American region.

Logical Framework Matrix (LFM) for RLA2014009

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	Design Element	Indicator	Means of Verification	Assumptions
Outcome	<ul style="list-style-type: none"> Fruit fly presence prevented, reduced or eliminated through strengthened monitoring and control. 	<ul style="list-style-type: none"> Population level of fruit flies in flies/trap/day –FTD- reduced in 20% of the current levels in each participant country by December 2021. . 	<ul style="list-style-type: none"> Annual fruit fly program reports from the Ministries and Secretariats of agriculture. 	<ul style="list-style-type: none"> The Ministries or Agricultural Secretariats of the participating countries support the monitoring and control of fruit flies to favor the development of the fruit and horticultural industry in the region.
Output	<ul style="list-style-type: none"> 1 Project Management Team Operational 	<ul style="list-style-type: none"> Semiannual visits to project 	<ul style="list-style-type: none"> semiannual reports 	<ul style="list-style-type: none"> Team project work successfully operating
	<ul style="list-style-type: none"> 2 Harmonization protocols for trapping and control systems available. 	<ul style="list-style-type: none"> Two Protocols developed and available by December 2016. 	<ul style="list-style-type: none"> Document/Protocol 	<ul style="list-style-type: none"> Harmonized protocols will be adopted and applied by the official fruit fly programs.
	<ul style="list-style-type: none"> 3 Expanded and strengthened fruit fly surveillance, including fruit fly species not present. 	<ul style="list-style-type: none"> Trapping network expanded in at least 5% by December 2017 in the countries involved (this indicator is consistent with the - PER- Regional Strategic Plan for Latin America). 	<ul style="list-style-type: none"> Reports from the official fruit fly programs 	<ul style="list-style-type: none"> The Ministries or agricultural secretariats as well as the producers of the participating Countries will support the trapping network increase.
	<ul style="list-style-type: none"> 4 Producers and fruit fly programmes with capability to apply integrated fruit fly management including SIT, in fruit and horticultural areas of interest to the country. 	<ul style="list-style-type: none"> 50% of the participating countries apply fruit fly integrated pest management including SIT by December 2018. 	<ul style="list-style-type: none"> Reports from the fruit fly programs that belong to the Ministries and Agriculture Secretariats. 	<ul style="list-style-type: none"> The Ministries or agricultural secretariats as well as the producers will implement the fruit fly integrated pest management to favor the establishment of free and low prevalence areas.
	<ul style="list-style-type: none"> 5 Monitored areas with official declaration according to their phytosanitary status. 	<ul style="list-style-type: none"> Preparation of 5 free or low-prevalence area declaration protocols and 5 official agreements by the 3rd. quarter of 2019. 	<ul style="list-style-type: none"> Documents / Declaration protocols. Agreements published at Official Newspapers or its equivalents. 	<ul style="list-style-type: none"> The Ministries or agricultural secretariats will support the preparation and publication of protocols and official agreements if the areas maintain their phytosanitary status.
Activity	<ul style="list-style-type: none"> 1 .1 Confirming/Setting-up project team (CP, CP team in MS, PMO/TO) 			<ul style="list-style-type: none"> The IAEA will support the project.
	<ul style="list-style-type: none"> 1 .2 Conducting project review meetings 			<ul style="list-style-type: none"> The IAEA will support the project.

<ul style="list-style-type: none"> ▪ 1 .3 Updating project work plan 			<ul style="list-style-type: none"> ▪ work plan successfully
<ul style="list-style-type: none"> ▪ 1 .4 Preparing and submitting PPARs (every six months) 			<ul style="list-style-type: none"> ▪ Reports successfully completed
<ul style="list-style-type: none"> ▪ 1 .5 IAEA Field Monitoring 			<ul style="list-style-type: none"> ▪ Monitoring conducted successfully
<ul style="list-style-type: none"> ▪ 2 .1 Regional harmonization of fruit fly trapping systems including those not present. 	<ul style="list-style-type: none"> ▪ One Regional Meeting / Workshop –RWS-, one participant/country during July/16, total number of countries 16. One International expert Mission-1XE to harmonize trapping systems, July, 2016. 	<ul style="list-style-type: none"> ▪ Reports 	<ul style="list-style-type: none"> ▪ Harmonization completed successfully
<ul style="list-style-type: none"> ▪ 2 .2 Regional harmonization of fruit fly control methods including SIT. 	<ul style="list-style-type: none"> ▪ One RWS, one participant/country, total 16. May/2017. One International expert Mission-1XE to harmonize control methods, May 2017 	<ul style="list-style-type: none"> ▪ Repots 	<ul style="list-style-type: none"> ▪ Harmonization completed successfully
<ul style="list-style-type: none"> ▪ 3 .1 Personnel trained and qualified in the international course on integrated management of fruit flies organized in Tapachula, Mexico. 	<ul style="list-style-type: none"> ▪ One regional training Course RTC, one participant/country, total 16. June 2016 	<ul style="list-style-type: none"> ▪ Reporte 	<ul style="list-style-type: none"> ▪ Personal successfully trained
<ul style="list-style-type: none"> ▪ 3 .2 Participation in the Meeting organized by the working group on fruit flies of the western hemisphere, Buenos Aires, Argentina. 	<ul style="list-style-type: none"> ▪ One participant/Country and the DTM, July 2016, total 17. 	<ul style="list-style-type: none"> ▪ Reports 	<ul style="list-style-type: none"> ▪ Meeting successfully completed
<ul style="list-style-type: none"> ▪ 3 .3 Participation in the international symposium on fruit flies, organized in Tapachula, Mexico. 	<ul style="list-style-type: none"> ▪ One participant/Country and the DTM, July 2018, Total 17. 	<ul style="list-style-type: none"> ▪ Reports 	<ul style="list-style-type: none"> ▪ Participation made
<ul style="list-style-type: none"> ▪ 3 .4 Conduct training in Geographic Information Systems (GIS) as applied to Integrated fruit fly pest management 	<ul style="list-style-type: none"> ▪ One GIS training course, one participant/Country, total 16 and the DTM. August 2016. One International expert Mission-1XE to GIS. August, 2016. 	<ul style="list-style-type: none"> ▪ Reports 	<ul style="list-style-type: none"> ▪ Training course made with 100% participation
<ul style="list-style-type: none"> ▪ 3 .5 Availability of equipment, infrastructure and personnel working on Fruit Fly Programs in each country. 	<ul style="list-style-type: none"> ▪ Participant Countries counterparts from January through December 2016, 2017, 2018, 2019. 	<ul style="list-style-type: none"> ▪ semiannual reports 	<ul style="list-style-type: none"> ▪ Staff working in the fruit flies program
<ul style="list-style-type: none"> ▪ 3 .6 Provide fruit fly trapping materials to the fruit fly Programs in each country. 	<ul style="list-style-type: none"> ▪ Traps, attractants and other trapping materials, February, 2017. 	<ul style="list-style-type: none"> ▪ Report materials received 	<ul style="list-style-type: none"> ▪ Materials received in all participating countries
<ul style="list-style-type: none"> ▪ 3 .7 Trapping network operation increased, using GIS systems. 	<ul style="list-style-type: none"> ▪ Counterparts of the participant countries from January 2018 to December, 2019. 	<ul style="list-style-type: none"> ▪ semiannual reports 	<ul style="list-style-type: none"> ▪ Programs operating and using GIS
		<ul style="list-style-type: none"> ▪ Reports 	

	<ul style="list-style-type: none"> ▪ 3 .8 Public campaigns at different media sources and various public and private levels to socialize project progress. 	<ul style="list-style-type: none"> ▪ Counterparts of all the participant countries, during all working years. 		<ul style="list-style-type: none"> ▪ Public campaigns operating successfully
	<ul style="list-style-type: none"> ▪ 4 .1 Integrated Pest management control of fruit flies, counterpart report of the numbers of treated hectares 	<ul style="list-style-type: none"> ▪ Counterparts of all the participant countries, during January, 2018 to December 2019. 	<ul style="list-style-type: none"> ▪ semiannual reports 	<ul style="list-style-type: none"> ▪ Integrated pest management operating successfully
	<ul style="list-style-type: none"> ▪ 4 .2 Sterile insect production to complete the fruit fly integrated pest management strategy. 	<ul style="list-style-type: none"> ▪ Participant Countries and IAEA. 50 million pupae/week during 2018 and 2019. 	<ul style="list-style-type: none"> ▪ Reports produced and released pupa 	<ul style="list-style-type: none"> ▪ Sterile insect release completed successfully
	<ul style="list-style-type: none"> ▪ 5 .1 Protocols to determine the phytosanitary status of the target areas. 	<ul style="list-style-type: none"> ▪ .Five expert missions from August 2018. 	<ul style="list-style-type: none"> ▪ Reports 	<ul style="list-style-type: none"> ▪ The IAEA will support the implementation of protocol
	<ul style="list-style-type: none"> ▪ 5 .2 Official declaration of phytosanitary status of the target areas. . 	<ul style="list-style-type: none"> ▪ Counterparts, participant Countries, 5 official declarations by May, 2019. 	<ul style="list-style-type: none"> ▪ Official declarations 	<ul style="list-style-type: none"> ▪ The countries support the official declarations
Input	<ul style="list-style-type: none"> ▪ 2 .1 .1 Regional First Coordinators Meeting/Workshop one participant/country during July/16, plus TO, PMO and one International expert to harmonize data base systems to be used. 			<ul style="list-style-type: none"> ▪ All countries will support regional meetings
	<ul style="list-style-type: none"> ▪ 2 .2 .1 Regional meeting on harmonisation of fruit fly control methods, one participant/country, plus one expert/facilitator. May/2017. 			<ul style="list-style-type: none"> ▪ All countries will support regional meetings
	<ul style="list-style-type: none"> ▪ 3 .1 .1 One regional training Course RTC, one participant/country, total 16. August 2016 in Tapachula, Mexico 			<ul style="list-style-type: none"> ▪ The IAEA and countries will support training courses
	<ul style="list-style-type: none"> ▪ 3 .1 .2 Footnote a/ component to the One regional training Course RTC, one participant/country, total 16, August 2016 in Tapachula, Mexico 			
	<ul style="list-style-type: none"> ▪ 3 .3 .1 One participant/Country and the DTM, July 2018, Total 17. 			<ul style="list-style-type: none"> ▪ The IAEA and countries will support training courses and regional meeting
	<ul style="list-style-type: none"> ▪ 3 .4 .1 Trapping/GIS meeting, one participant/Country, total 16 and the DTM plus an expert. August 2016. 			<ul style="list-style-type: none"> ▪ The IAEA and countries will support training courses

<ul style="list-style-type: none"> ▪ 3.5.1 Participant Countries counterparts from January through December 2016, 			<ul style="list-style-type: none"> ▪ Participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.5.2 Participant Countries counterparts from January through December 2017 			<ul style="list-style-type: none"> ▪ Participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.5.3 Participant Countries counterparts from January through December 2018 			<ul style="list-style-type: none"> ▪ Participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.5.4 Participant Countries counterparts from January through December 2019 			<ul style="list-style-type: none"> ▪ Participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.6.1 Traps, attractants and other trapping materials, February, 2017. 			<ul style="list-style-type: none"> ▪ The IAEA will support the purchase of materials
<ul style="list-style-type: none"> ▪ 3.7.1 Counterparts of the participant countries from January-December 2018 to December 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.7.2 Counterparts of the participant countries from January to December 2019 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.8.1 Counterparts of all the participant countries, during all working years. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.8.2 Counterparts of all the participant countries, during all working years. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.8.3 Counterparts of all the participant countries, during all working years. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 3.8.4 Counterparts of all the participant countries, during all working years. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 4.1.1 Counterparts of all the participant countries, during January to December, 2018. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 4.1.2 Counterparts of all the participant countries, during January to December, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 4.2.1 Participant Countries and IAEA. 50 million pupae/week during 2018. 			<ul style="list-style-type: none"> ▪ The participating countries and IAEA will support the project
<ul style="list-style-type: none"> ▪ 4.2.2 Participant Countries and IAEA. 50 million pupae/week during 2019. 			<ul style="list-style-type: none"> ▪ The participating countries and IAEA will support the project

<ul style="list-style-type: none"> ▪ 5 .1 .1 - One expert missions from August 2018. 			<ul style="list-style-type: none"> ▪ The IAEA will support expert mission.
<ul style="list-style-type: none"> ▪ 5 .1 .2 - One expert missions from August 2018. 			<ul style="list-style-type: none"> ▪ The IAEA will support expert mission
<ul style="list-style-type: none"> ▪ 5 .1 .3 - One expert missions from August 2018. 			<ul style="list-style-type: none"> ▪ The IAEA will support expert mission
<ul style="list-style-type: none"> ▪ 5 .1 .4 - One expert missions from August 2018. 			<ul style="list-style-type: none"> ▪ The IAEA will support expert mission
<ul style="list-style-type: none"> ▪ 5 .1 .5 - One expert missions from August 2018. 			<ul style="list-style-type: none"> ▪ The IAEA will support expert mission
<ul style="list-style-type: none"> ▪ 5 .2 .1 Counterparts, participant Countries, official declarations by May, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 5 .2 .2 Counterparts, participant Countries, official declarations by May, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 5 .2 .3 Counterparts, participant Countries, official declarations by May, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 5 .2 .4 Counterparts, participant Countries, official declarations by May, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project
<ul style="list-style-type: none"> ▪ 5 .2 .5 Counterparts, participant Countries, official declarations by May, 2019. 			<ul style="list-style-type: none"> ▪ The participating countries will support the project

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