



XLVIII SIMPOSIO NACIONAL DE PARASITOLOGÍA AGRÍCOLA

“DR. MOISÉS TÉLIZ ORTIZ”

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SEDE UNIVERSIDAD AUTÓNOMA DE GUADALAJARA

GIMNASIO UNIVERSITARIO

GUADALAJARA, JAL.



Marcos Osorio
Portfolio Manager
Latam
Insecticides,
BioInsecticides and
Seed & Soil Health



Our Challenge

People

Worldwide, 500 million smallholder households live on less than \$2 per day.

World
bank

By the next century, 11bn people will need to eat 33bn meals per day.

WRI

Planet

Agricultural activity is the source of 30% of global Greenhouse Gases.

Farm Carbon
Toolkit

Agriculture accounts for 70% of water usage worldwide.

OECD

Patterns

Each year, 1.3 billion tons of food goes to waste globally.

FAO

Agricultural production is limited by the increasing scarcity and diminishing quality of land and water resources

FAO

Pests

Rice blast is responsible for ~30% of rice production losses globally — the equivalent of feeding 60 mn people.

FAO

A single swarm of locusts can eat the same as 35,000 people every day.

World
Bank

United by OpenAg purpose



OpenAg®

Reimagining sustainability with an open network
to create sustainable growth for all -
no limits, no borders.



nurture.farm
OpenAg®



UPL

UPL in numbers

#1

In Biosolutions

#5

In the industry¹

10k+

Employees
globally

13k+

Product
Registrations

138

Countries with
sales presence

\$6.2b → 19%

₹ 462b
FY22 Revenue

Growth vs PY

\$1.4b → 19%

₹ 102b
FY22 EBITDA


Growth vs PY


NPP


Natural Plant
Protection by UPL



How NPP creates value

Why  Farmers must grow more to meet rising demand in the face of challenges including climate change, pests and disease, degrading soil health, water scarcity, and economic insecurity

How  NPP's biosolutions are empowering growers with naturally-derived biosolutions that protect crops, increase yields, improve farmers' economic resilience, reduce residues, and protect the environment

What  NPP's biosolutions cover a range of applications, including increasing crop resilience to disease, pests, and environmental conditions, supporting crop nutrition, and improving soil health, while reducing residues and environmental impacts



9 Manufacturing Sites



7 Experimental Centres



6 Labs



NPP Categories

BioControl and Plant & Soil Health categories

Biocontrol

Focus on Biocontrol Solutions



Weed Management

Natural herbicides to protect your crop



Disease Management

Natural fungicides for healthier crops



Pest Management

Natural insecticides with low ecosystem impact



Soil biocontrol

Natural protection from diseases and pests

Plant & Soil Health

Focus on Plant & Soil Health Solutions



Nutrient availability

Naturally boosting how your crops use nutrients



Water Management

Natural products for more yield with less water



Soil Health

Naturally improving your soil for better crops



Seed & plant stimulation

Natural help through the plant life cycle for better yields



Abiotic Stress Management

Naturally maintaining crops in extreme conditions

LATAM Region



6 Subregions

26 Countries

7 Manufacturing Plants

1 Research Station

1 NPP Research

**Eager to collaborate with
stakeholders for
Sustainable Agriculture**

THANK YOU!



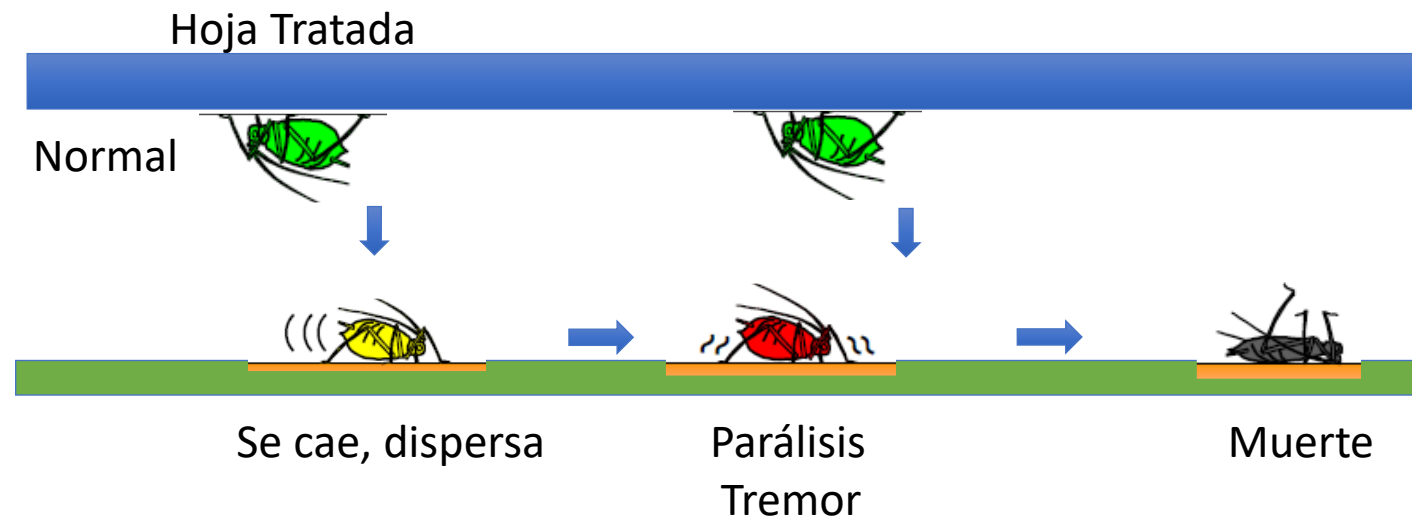
Pirifluquinazon

Nombre Común (ISO):	Pyrifluquinazon
Grupo Químico:	Piridine azomethina
IRAC	9B
Formulación:	20 % , equivalente a 216 g de i.a. / l (Suspensión Concentrada Acuosa)

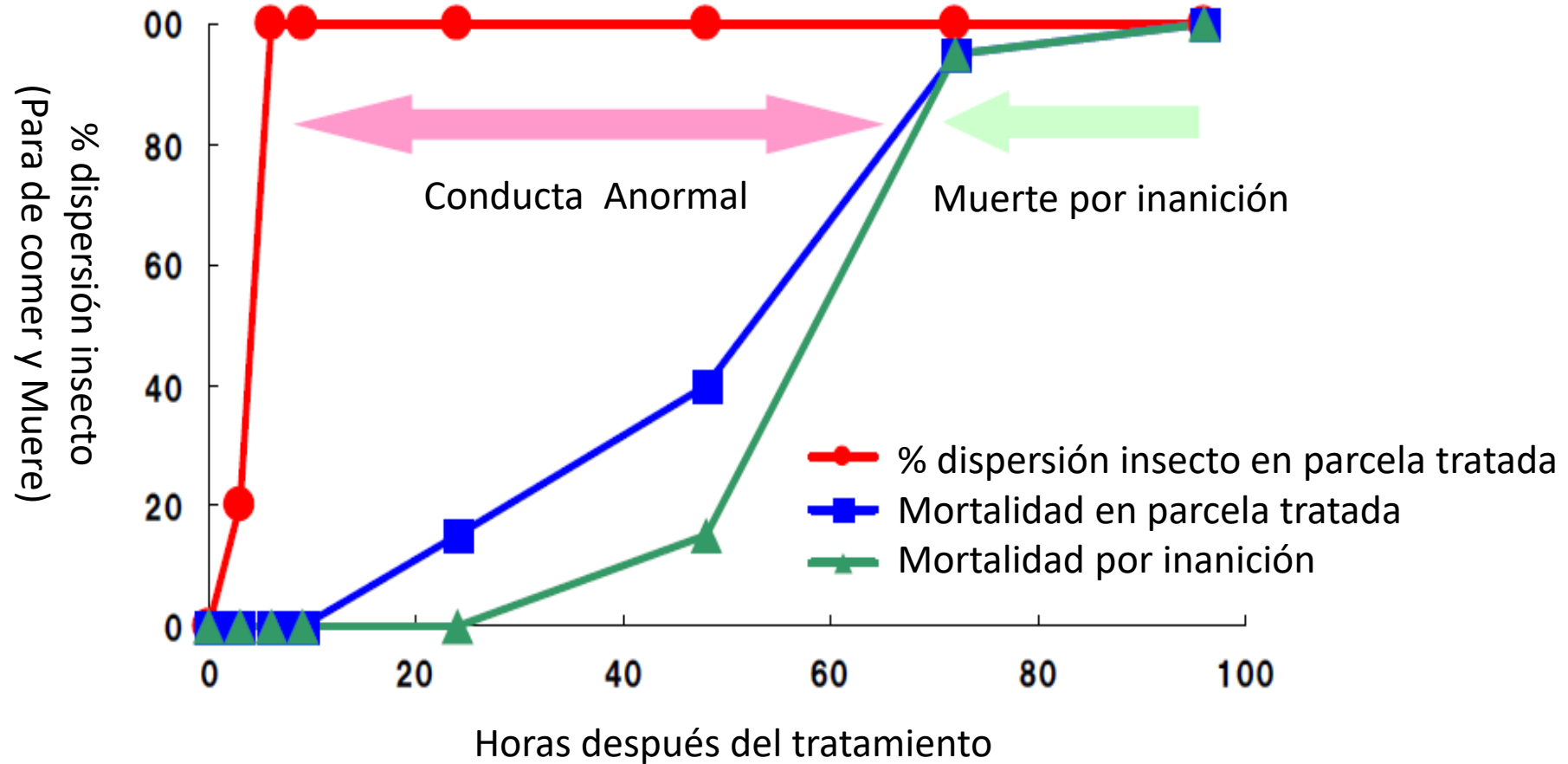
Moduladores del canal TRPV de los órganos cordotonales

IBR: Regulador del comportamiento de los Insectos
(Insect Behavior Regulator)

Se afecta la conducta, el pulgón deja de alimentarse y muere



Rapidez del Modo de Acción



Mecanismo de Acción



Para rápido de succionar evitando que se alimente.



Se dispersa, pierde coordinación



Sigue la muerte por parálisis
(muerte por inanición)



Síntomas de Insectos afectados

Myzus persicae



Pyrifluquinazon
50 mg a.i./l (2DDT)



Inanición (2DDT)



Sin tratar

Aphis gossypii



Pyrifluquinazon 50 mg i.a./l (2DDT)



Sin tratar

Espectro de Actividad

Insecto Plaga		Actividad
Aphididae	Aphis gossypii	●
	Aphis spiraeicola	●
	Myzus persicae	●
	Aulacorthum solani	●
	Macrosiphum euphorbiae	●
	Hyalopterus pruni	● ▲
	Phapalosiphum padi	●
	Schizaphis piricola	●
	Toxoptera citricida	●
	Myzus varians	●
	Rhopalosiphum rufiabdominate	●
	Brevicoryne brassicae	● ▲
	Brachycaudus helichrysi	●
	Sitobion ibarea	●
	Toxoptera citricida	●
Aleyrodidae	Trialeurodes vaporariorum	●
	Bemisia tabaci	●
	Empoasca onukii	▲
Flatidae	Geisha distinctissima	●
Pseudococcidae	Pseudococcus comstocki	●
	Planococcus kranthiae	●
	Planococcus citri	▲
	Crisicoccus serutatus	●
Margarodidae	Iserya purchasi	▲

Coccidae	Ceroplastes rubens	▲
	Ceroplastes japonicus	▲
Diaspididae	Aonidiella aurantii	● ▲
	Comstockaspis perniciososa	● ▲
	Pseudaulacaspis pentagona	●
	Pseudaulacaspis prunicola	▲
	Unaspis yanonensis	●
Pentatomidae	Halyomorpha halys	X
	Plautia crossota	X
Miridae	Trigonotylus caelestialium	▲
Tingidae	Stephanitis nashi	X
Thripidae	Scirtothrips dorsalis	▲
	Thrips tabaci	● ▲

	Excelente	●	
	Alto control	▲	

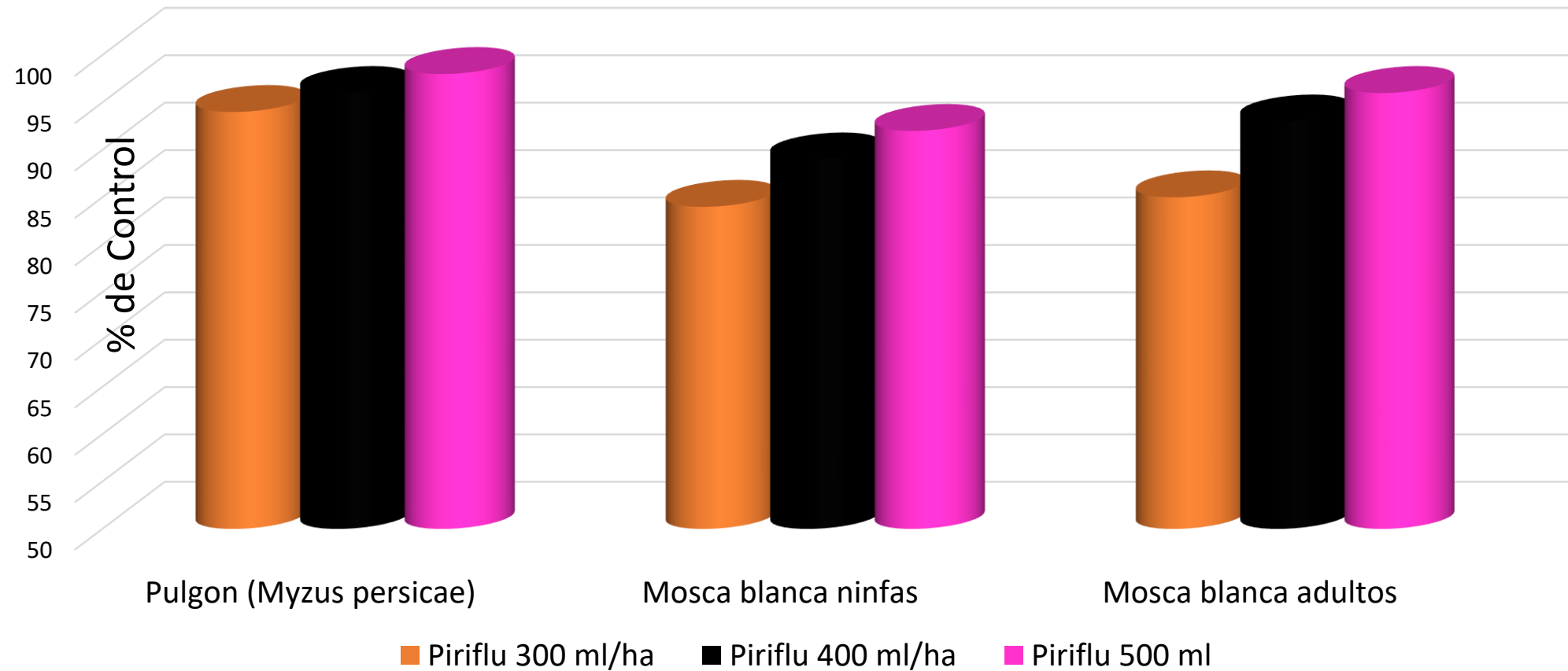
Selectividad a enemigos naturales y artrópodos benéficos

Especies Probadas		Edo Prueba	Metodo probado	Efecto			
				Pyrifluquinazon 50 mg i.a. / L	Pymetrozine 83 mg i.a. / L	Imidacloprid 50 mg i.a. / L	Cyhalotrina 25 mg i.a. / L
Catarinita	<i>Harmonia axyridis</i>	Adulto	Aspersión Insecto	●	●	X	X
Chinche predatora	<i>Orius sauteri</i>	Adulto	Aspersión Insecto	●	●	X	X
	<i>Orius strigicollis</i>	Ninfa	Aspersión Insecto	●	▲	X	--
Pulgon midge	<i>Aphidoletes aphidimyza</i>	Larva	Aspersión Insecto	●	●	X	--
Avispa pasasitica	<i>Encarsia formosa</i>	Pupa	Insecto sumergido	▲	●	▲	--
	<i>Amblyseius cucumeris</i>	Adulto	Aspersión Insecto	●	●	●	X
	<i>Amblyseius californicus</i>	Adulto	Aspersión Insecto	●	---	●	--
	<i>Phytoseius oersimilis</i>	Adulto	Aspersión Insecto	●	●	●	--
	<i>Pardosa pseudoannulata</i>	Adulto	Aspersión Insecto	●	●	●	X
Gusano Seda	<i>Bombyx mori</i>	Larva	Hoja sumergida	●	--	--	--
Bombus	<i>Bombus ignitus</i>	Adulto	Aspersión Insecto	●	●	X	X
Abeja	<i>Apis mellifera</i>	Adulto	Aspersión Insecto	▲	●	--	--
Seguro	●						
Medio (IBR)	▲						
No Seguro	X						

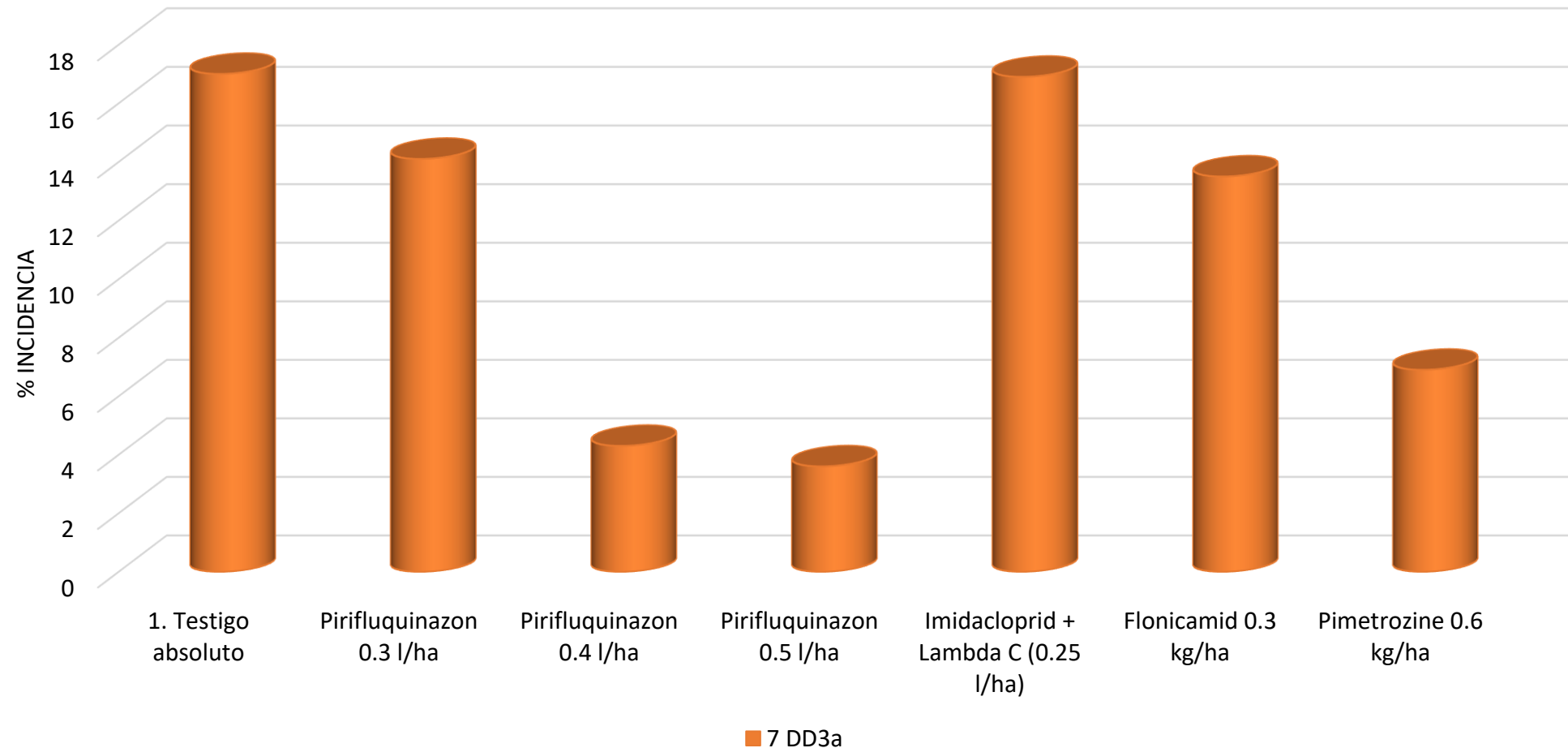
Perfil de Pyrifluquinazon como un nuevo insecticida (IBR)

- Nueva estructura química
- Amplio Espectro de actividad:
 - - Hemipteros y Tisanopteros
 - Mosca blanca incluyendo el Biotipo Q
- Con acción translaminar
- Carencia de Resistencia cruzada
- Bajo efecto a benéficos y abejas
- Compatible con programa IPM
- Excelente selectividad a cultivos
- Baja toxicidad

% de control de insectos plaga.



Incidencia de plantas afectadas por TYLCV con diferentes tratamientos



Posicionamiento técnico de pirifluquinazon

- Insecticida sistémico translaminar de aplicación foliar, para el control de insectos chupadores tanto ninfas como adultos.
- Reduce la transmisión de virosis por su acción anti alimentaria y efecto rápido de control, puede ser usado para rotar modos de acción comunes.

Debe aplicar bajo las siguientes consideraciones de dosis y plagas.

- Pulgones 250 ml/ha
- Mosca blanca de 400 a 500 ml/ha
- Paratrioza, Thrips (*T. Tabaci*, *Sitiothrips* y *Caliothrips*): 500 ml/ha
- Rotar con productos de diferente Modo de Acción

GRACIAS!

Miguel Raya