

**Elizabeth Lumawig
Heitzmann**

TFSP - Philippines



Neonicotinoids: Actions in Philippines and Asia; Regulatory responses across the world

**Pretoria, South Africa
November 15-16, 2018**

**4 Principal Neonicotinoid
Pesticides (active ingredients)
Currently Imported in the
Philippines**

Clothianidin
Dinotefuran
Imidacloprid
Thiametoxam

<u>ACTIVE INGREDIENT</u>	<u>PRODUCT NAME</u>	<u>NAME OF COMPANY</u>	<u>USE/S</u>	<u>CROP/S</u>	<u>PEST/S</u>	<u>RATES</u>
CLOTHIANIDIN	DANTOP	Jardine Distribution Inc.	I	Mango Eggplant Rice	Hopper, tipborer, floral thrips, cecid fly/capsid bug Eggplant hopper, aphids Green leafhopper, brown & white backed planthopper, leaffolder, stemborer, black bug & rice bug	12.5-15.62 g/100L 90-95 g/ha 60-70 g/ha
	DANTOTSU 16 WSG	Sumitomo Chemical Philippines, Inc.	I	Mango Eggplant Rice	Hopper, tipborer, floral thrips, cecid fly/capsid bug Eggplant hopper, aphids Green leafhopper, brown & white backed planthopper, leaffolder, stemborer, black bug & rice bug	12.5-15.62 g/100L 90-95 g/ha 60-70 g/ha

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DINOTEFURAN	OSHIN 20 SG	Sumitomo Corp. of the Philippines	I	Mango	Mango leafhopper	1.0-2.0g/16 L water
				Watermelon	Whiteflies, aphids	2.5-5.0g/ 16 L water
	STARKLE 20 SG	Biostadt Philippines, Inc.		Tomato	Whiteflies, hoppers, cutworms	2.5-5.0g/ 16 L water
				Eggplant	Hopper, Whiteflies, fruit borer	2.5-5.0g/ 16 L water
				Rice	Green leafhopper, brown planthopper, rice bug	2.5-5.0g/ 16 L water
Coconut (Emergency Use Permit)	Scale insects	5g/ tree (trunk injection)				

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IMIDACLOPRID	ADMIRE SL 200	Bayer Cropscience, Inc.	I	Mango	Leafhopper	200-250G/1000L water
	CONFIDOR 100 SL	Bayer Cropscience, Inc.	I	Banana Pineapple Okra Mango	Flower thrips Mealybug Leafhopper Hoppers	0.5 mL prod/L water 28L/ha 25mL/ha 200-250 mL/1000L water
	GAUCHO 350 FS	Bayer Cropscience, Inc.	I	Banana Watermelon Citrus Cabbage	Flower thrips Thrips, aphids Rindborer, mealybug, scale insects Diamondback moth, flea beetle	1.0 mL prod/L water 1500-200 mL/ha 0.375-0.875 L/ha 250-300 mL/ha
	GAUCHO 70 WS	Bayer Cropscience, Inc.	I	Sugarcane Asparagus Corn Corn	Termites Asparagus thrips Seedling maggot, ants, field crickets & mole crickets Seedling maggot	0.2-0.3L/ha 150 mL/ha 75-100 mL product/18 to 20 kg seeds 35-45g product/20kg seeds
IMIDACLOPRID+ BETA-CYFLUTHRIN	SOLOMON 300 OD	Bayer Cropscience, Inc.	I	Mango	Mango leafhopper	20-40mL/100L water
IMIDACLOPRID+ CYFLUTHRIN	PROVADO SUPRA EC 050	Bayer Cropscience, Inc.	I	Mango	Hooper, tipborer, thrips	750-1000mL/ha
				Rice Stringbeans Watermelon Tobacco	Hopper, leafhopper Aphids, cutworm, beanfly, leafhopper, flea beetle, pod borer, spotted lady beetle Aphids, squash beetle Budworm	500-750 mL/ha 500-1000 mL/ha 500-750 mL/ha 500-750 mL/ha

<u>ACTIVE INGREDIENT</u>	<u>PRODUCT NAME</u>	<u>NAME OF COMPANY</u>	<u>USE/S</u>	<u>CROP/S</u>	<u>PEST/S</u>	<u>RATES</u>
THIAMETHOXAM	ACTARA 25 WG	Syngenta Philippines, Inc.	I	Rice	Green leafhopper, brown planthopper, white backed planthopper & rice Bug Black Bug Aphids, leafhoppers	30-40g/ha
	CRUISER 350 FS	Syngenta Philippines, Inc.	I	Stringbean Eggplant Mango Pineapple Corn	Aphids, leafhoppers Leafhoppers Mealybug Seedling maggot	40-60 g/100L water 10-30g/hill 10-30g/hill 105.6-123.2 g/ha 100-200 g/ha 200-600 mL prod/100 kg seeds
				Rice	Green leafhopper, brown planthopper, white backed planthopper	25-44mL prod/40kg seeds
THIAMETHOXAM+ CHLORANTRANILIPROLE	VIRTAKO 40 WG	Syngenta Philippines, Inc.	I	Rice	Green leafhopper, rice stemborer	75-100 g/ha
	VOLIAM FLEXI 300 SC	Syngenta Philippines, Inc.	I	Eggplant	Fruitborer, cutworm, shootborer, leafhopper, whiteflies, Aphids, flea beetle & 28-spotted beetle	100-200mL/ha
				Cabbage Stringbeans	Diamondback moth, cutworm, aphids Podborer, cutworm, Leafhopper, aphids & white flies	75-125 mL/ha 100-200mL/ha
THIAMETHOXAM+ LAMBDA-CYHALOTHRIN	ALIKA 247 ZC	Syngenta Philippines, Inc.	I	Potato	Whiteflies, aphids, thrips	100-200mL/ha
				Stringbeans	Green leafhopper, aphids, mites	100-200mL/ha
				Eggplant	Whiteflies, green leafhopper, aphids	100-200mL/ha
				Bittergourd	Leafhopper, thrips, aphids	100-200mL/ha
				Mango	Leafhopper, tipborer	6.0-12.0 mL/100L water
				Corn	Asian corn borer, earworm, cutworm, leafhopper & aphids	250-400mL/ha
Banana	Flower thrips	1.0-3.0mL/Liter				

	Month	Technical Products		Formulated Products	
		Volume (in Kg/L)	Value (in USD)	Volume (in Kg/L)	Value (in USD)
Insecticide	January	26,000.00	537,916.00	1,042,922.91	9,158,375.63
	February	147,000.00	470,200.00	1,036,505.00	7,806,770.37
	March	54,010.25	273,600.00	752,835.73	5,413,318.78
	April	137,025.00	1,194,642.50	1,597,685.12	9,724,727.12
	May	92,550.00	733,625.00	1,830,532.57	16,328,393.25
	June	83,000.00	378,900.00	1,161,127.80	6,633,047.48
	Total:	539,585.25	3,588,883.50	7,421,609.13	55,064,632.63

Source: Department of Agriculture

FERTILIZER AND PESTICIDE AUTHORITY

Quezon City, Philippines

Changes on the regulations of neonicotinoids in the world

1991 First registrations in France (imidacloprid)

...and growing market

1995 First issues on honeybees (sunflower)

1997 First studies (Ministry of agriculture)

1999

Imidacloprid banned on sunflower

Replaced by fipronil

2004

Imidacloprid banned on corn

2004

Fipronil banned for all crops

2008

Italy: ban of 3 neonicotinoids for
seed-dressing, except for sugar-beets

2010

Restrictions of thiaméthoxam on corn

2013

European restrictions on 3 néonicotinoids
(only on flowering crops; lot of exceptions across Europe)

2016

French law on biodiversity (votation)

2018

Application of the law on biodiversity:
Total ban of 5 néonicotinoids

Extension of the law to other neonicotinoid like molecules
(ex: sulfoxaflor and flupyradifurone)



**Declaration by Carmencita O. Reyes, Governor of
the Province of Marinduque, Republic of the
Philippines**

In Marinduque culturing butterflies and honeybees are major sources of livelihood. The Philippines is the butterfly centre of the world and Marinduque is the butterfly capital of the Philippines. For this vital information from WIA, in order to protect the green industry of our beloved province of Marinduque I, as governor, will ban totally the use of systemic pesticides and fipronil.”

Declaration made public on video at press conferences held at DENR, Quezon City, on 24th June, Brussels 24th June, Ottawa 25th June, Tokyo on 26th June 2014 on the occasion of the launch of the “Worldwide Integrated Assessment of the Impact of systemic Pesticides on Biodiversity and Ecosystems (WIA).

(www.tfsp.info and youtube –systemic pesticides)



OFFICE OF THE SANGGUNIANG PANLALAWIGAN

EXCERPT FROM THE MINUTES
81ST REGULAR SESSION, 14TH SANGGUNIANG PANLALAWIGAN
SP SESSION HALL, AUGUST 17, 2018

Present:

Hon. Romulo A. Bacorro, Jr.	Vice-Governor & Presiding Officer
Hon. Mark Anthony E. Seño	SP Member
Hon. Amelia L. Aguirre	SP Member
Hon. Reynaldo P. Salvacion	SP Member
Hon. Juan R. Fernandez, Jr.	SP Member
Hon. Harold Y. Red	SP Member
Hon. Gilbert L. Daquioag	SP Member
Hon. Primo C. Pamintuan (PCL)	SP Member
Hon. James Marty L. Lim (Liga)	SP Member
Hon. Lauren R. Rosales (SK)	SP Member

Absent:

Hon. Theresa P. Caballes	SP Member
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Resolution No. 606 Series 2018

**RESOLUTION
ENACTING PROVINCIAL ORDINANCE NO. 136
SERIES OF 2018**

WHEREAS, the devastating effects of systemic pesticides in the environment and biodiversity have been becoming a worldwide concern; hence, the French Government had banned the purchase and sale of Neonicotinoid and Fipronil, two of the most dangerous pesticides, which will eventually be followed by other European Countries;

WHEREAS, as a result of said banning in the French market, manufacturers of these harmful pesticides are looking for other markets, such as Asia, which includes the Philippines;

WHEREAS, fortunately, these hazardous pesticides have not yet entered the Province of Marinduque and we should not let this happened because Marinduque is a very small island that is rich with biodiversity and natural resources, that if this happened, the Butterfly and Honey Bee Industry, among others, will be greatly affected which is primary the source of livelihood to many Marinduqueños;

WHEREAS, the Samahan ng Butterfly Breeders ng Marinduque is appealing to the Provincial Government of Marinduque, through the Vice-Governor and the Sangguniang Panlalawigan, for the passage of a local legislation banning the entry and sale of the said extremely harmful systemic pesticides in the province for the protection of the environment and lives of the people;

WHEREAS, during a Press Conference in DENR Quezon City held on June 24, 2014, Marinduque Governor Carmencita O. Reyes pronounced that: "On Marinduque culturing butterflies and honeybees are major sources of livelihood. The Philippines is the butterfly centre of the world and Marinduque is the butterfly capital of the Philippines. For this vital information from WIA, in order to protect the green industry of

our beloved province of Marinduque I, as Governor, will ban totally the use of systemic pesticides and fipronil."

WHEREAS, Section 468(1)(vi) of Republic Act 7160 of the Local Government Code of 1991 empowers the Sangguniang Panlalawigan to enact ordinances that will protect the environment and impose appropriate penalties for acts which endanger the environment, such as smuggling of natural resources products and of endangered species of flora and fauna, slash and burn farming, and such other activities which result in pollution, acceleration of eutrophication of rivers and lakes, or of ecological imbalance;

NOW THEREFORE, be it ordained by the Sangguniang Panlalawigan of Marinduque in session assembled:

**PROVINCIAL ORDINANCE NO. 136
SERIES OF 2018**

**AN ORDINANCE
BANNING THE IMPORTATION, PURCHASE, SALE, AND
USE OF NEONICOTINOID SYSTEMIC PESTICIDES AND
FIPRONIL IN THE ENTIRE PROVINCE OF MARINDUQUE**

Sponsored by: Hon. Romulo A. Bacorro, Jr.
Committee on Agriculture & Aquatic Resources

Section 1. BANNING. - Importation, purchase, sale and use of Neonicotinoid Systemic Pesticides and Fipronil is hereby BANNED in the entire Province of Marinduque. For this purpose, all commercial establishments, sales agents, individuals, including government-operated establishments, are strictly prohibited from selling these systemic pesticides.

Section 2. EFFECTIVITY. - This Ordinance shall take effect immediately upon approval.

ADOPTED, this 17th day of August 2018 at Boac, Marinduque, on motion of Honorable Reynaldo P. Salvacion, duly seconded.

CERTIFIED CORRECT:

NIMFA M. CABRERA
SP Secretary

ATTESTED:

ROMULO A. BACORRO, JR., MD, MHA
Vice-Governor &
Presiding Officer

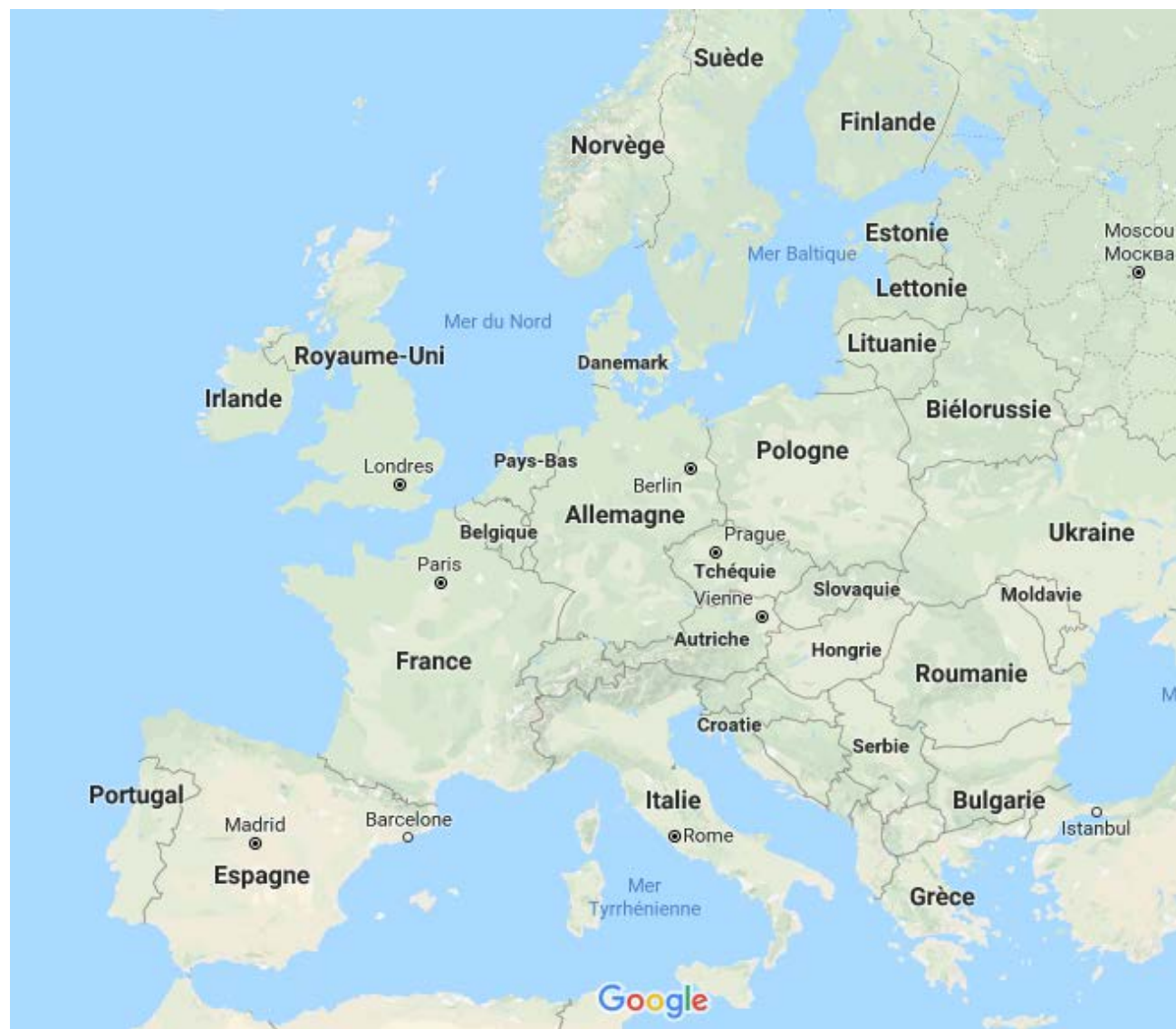
APPROVED:

CARMENCITA O. REYES
Governor

2019

Total ban of 3 néonicotinoids in Europe + Switzerland

Except in greenhouses



Canada : ban in Montréal (2014)
Toronto (2015)
Vancouver (2016)

ONTARIO: Réduction of 80 % of imidacloprid for corn (2015-2017)



2018 : ongoing ban for 3 néonicotinoids in the next 3 to 5 years (2018-2023)

USA: Local ban (Maryland, 2016)

+ Moratorium on new neonicotinoid molecules
& full re-assessment of registrations from 2018

But the situation might change with the Trump administration...

Thank you for your attention, Salamat po!