Merit Analysis for top 45 Global Minor Use Priorities Summer 2020

Use 1 form per crop/pest priority (To be conducted by a committee of global proponents for the priority)

Temperate							
Tomato, <i>Tuta absoluta</i> , 53							
(15 pts solution 1; 9 pts solution 2; 10 pts solution 3; 11 pts solution 4; 8 pts Solution 5)							
Criteria*	Criteria* Pointa Picado Polinal, Costa Nica, vpicado@sie.go.ci						
1 Is the crop-pest combination a situation with no available products? 2 points							
	Solution 1	Solution 2	Solution 3	Solution 4	Solution 5		
	High Priority	High Priority	High Priority	Low Priority	Low Priority		
2. Are there potential solutions?	Yes; P214 Lure (Mass Trapping) TETRADECATRIENYL ACETATE AND E3,Z8- TETRADECENYL ACETATE	Yes: Tutavir™ / (Baculovirus- Phthorimaea operculella granulovirus (PhopGV))	Yes: Spinetoram	Yes: MBI-306 SE1 (<i>Burkholderia rinojensis</i> strain A396)	Yes: Dipel/ Xentari (Bt)		
3. Company name	Chemtica	Andermatt Biocontrol	Corteva	Marrone Bio Innovations	Valent BioSciences		
4. Company contact name and e-mail	Francisco Gonzalez francisco_gonzalez@chemtic a.com	Felix Dubach Felix.dubach@andermattbiocontr ol.com	Carmen Tiu carmen.tiu@corteva. com	Maryna Serdani mserdani@marronebio. com	James Eldridge James.Eldridge@valentbioscience s.com		
5. Level of registrant support globally – list of countries registrant is willing to supply GLP test substance, standards and pursue a label (A)	Nigeria, Colombia, Honduras, Nicaragua, Guatemala, Ghana, Costa Rica, Morocco, Zimbabwe	Turkey, Morocco, Ghana	Bolivia, Peru, Malaysia, Thailand, Ghana, Uganda, Tanzania	Brazil, Argentina, Chile, Peru, Colombia, Ecuador, Uruguay, Paraguay, Bolivia, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, Panama, and Mexico, South Africa, Kenya, Morocco, Tunisia	Guatemala, Dominican Republic, Honduras, Costa Rica, Panama, Colombia, Ecuador Valent also considered Guatemala, El Salvador, Honduras or other CA countries, however to our knowledge the pest had not been reported. With a registration in Costa Rica They can use the same trial data for most other CA countries.		
6. List of countries having field and analytical ability and willing to	Nigeria, Colombia, Honduras, Nicaragua, Costa Rica, Guatemala, Ghana, Morocco, Zimbabwe	Turkey, Morocco, Ghana	Bolivia, Peru, Malaysia, Thailand, Ghana, Uganda, Tanzania	Brazil, Argentina, Mexico, South Africa, Costa Rica	1.Colombia 2.Costa Rica 3.Panama 4.Ecuador 5.All others if pest is present		

conduct trials					(in order of priority)
(B)					
7. Insert 1 point	9	3	7	5	4
for each match					
between					
countries that					
registrant					
supports, and					
countries willing					
(A + B)					
8 Is efficacy	1. Yes in some cases	1: Yes in some cases	1: Yes in some cases	1 Suppression	1. Yes in some case
already	,	,	approved efficacy on		,
established			tomato (1x20 + 4x70		
			g ai/ha, RTI = 4		
against the			days, PHI = 1 day).		
can it be					
bridged via					
rationale from					
other labeled					
uses? Insert					
1point					
9. Are there	Product is exempt from	Product is exempt from residues	Corteva has a rather	Product is exempt from	Product is exempt from residues
any residue	residues		robust residue data-	residues	
data already			tomatoes (including		
available for the			control of Tuta		
crop/pest			Absoluta) and MRLs		
combination			have already been		
and if so, from			established by		
where?			and 33 other		
			countries (0.05-		
			0.5ppm). Australia		
			(0.1), Brazil (0.01),		
			Canada (0.4), China		
			(0.06 Temporary), Codex (0.06)* Costa		
			Rica (0.06), EU (0.5.		
			0.06 future (Sante		
			Proposal 10706/2020		
			(Annex II))),		
			Hongkong (0.06),		
			Israel (0.01), Japan		
			(0.7), Korea (0.5),		

			Mexico (0.4), Morocco (0.5), New Zealand (0.06 (Codex)), Norway (0.5), Russia (0.06), Saudi Arabia (0.06), South Africa (0.02), Switzerland (0.5), Taiwan (0.2), Turkey (0.5), USA (0.40), Vietnam (0.06). *Note Codex MRL of 0.06 mg/kg was set based on 6 US trials on tomato (1x20 + 4x70 g ai/ha, RTI = 4 days, PHI = 1 day), Thus, no additional residue data should be needed.		
10. Are project champions identified?(Inse rt names) <i>Insert</i> <i>1point</i>	1; Francisco Gonzalez	1; Felix Dubach	U; No	1; Maryna Serdani (MBI)	1; Dan Zommick (VBS)
11. Will a uniform GAP (rate, application pattern, PHI, formulation, premix be able to be established across all countries? Yes = Insert 1point ; No = 0	1	1	1	1	1
12. Does the product replace old technology	1	1	0	1	0

with reduced					
risk					
noint per old					
point per old product					
replaced with					
reduced risk					
defined as a					
more favorable					
environmental					
or human					
health risk					
assessment)			-		
13. Does the	1	1, ; Yes. The product is species	0	1	1
potential		Tuta absoluta and Phthorimaea			
solution fit into		operculella. Other organisms are			
IPM systems,		not affected by the product.			
I.E. IOW FISK TO					
beneficials					
14 Dece the	1	1 : Yes The MoA of Tutavir is	0	1	0
reject	1	different from all products against	U	I	0
complement		Tuta absoluta which are currently			
current		available. (IRAC MoA Class 31:			
technologies to		action/)			
address		,			
pesticide					
resistance					
and/or control					
resistant					
pest/disease/w					
eed or provide					
an alternative					
mode of					
action? Insert					
1point	N1/A	N//A		N 1/A	N//A
15. Are there	N/A	N/A	1, I omato is one of	N/A	N/A
any crop			crops of Group 012		
grouping MRL			Fruiting vegetables,		
opportunities?			other than Cucurbits,		

(1 point per crop group)			from document CXG 84-2012 PRINCIPLES AND GUIDANCE ON THE SELECTION OF REPRESENTATIVE COMMODITIES FOR THE EXTRAPOLATION OF MAXIMUM RESIDUE LIMITS FOR PESTICIDES TO COMMODITY		
16. Comments (Please use this space to make a memo of any other information that might be points of consideration such as JMPR cycle, CODEX, EPA, EU registration/MR L status, ability of a product to control multiple pest priorities, can be used across multiple crops, one formulation or premix combination used in one part of the world, regulatory needs, etc.	The basis of this project is the scientifically proven technology of Tuta absoluta mass trapping which has been widely used in some countries. Published studies have shown that by combining mass trapping and biological control with parasitoids of T. absoluta, the management of the pest increase considerably and last longer when compared with conventional pesticide applications. Besides, use of pheromone traps have shown that captures can be used as well as indicators for decision- making and chemical management. However, even when the efficacy of this solution has been demonstrated, there is a need for local demonstrations of the efficacy test for pheromones such as United States or the European Union. However, for the countries proposed, a local efficacy test demonstration is necessary to register and commercialize this technology	EU registration is ongoing and emergency registrations have been granted (Germany in 2019, Greece and Cyprus in 2020). Product can be mixed in combination with existing IPM measures such as beneficial insects because it does not affect them. Product is also completely harmless to the user and the consumer, as the active ingredient is not capable of infecting non-target organisms and is not a toxic substance.	GROUPS Spinetoram has MRLs established in CODEX for Tomatoes (0.06 mg / kg), If GMUF wants to support registration in the 7 countries from LATAM, Asia and Africa(Bolivia, Peru, Malaysia, Thailand, Ghana, Uganda, Tanzania) that do not have registration on tomato, it should be an easier (and cheaper) achievement, because no residue data in needed (just leverage on the Codex monograph). GMUF could support local efficacy data generation Thus, no additional residue data should be needed.	It is suitable for foliar applications, at a rate of 1 to 5 fluid ounces per acre, both in the field and greenhouse. A non- ionic surfactant (NIS) should be added when applying this product. Applications can be spaced 3 to 10 days apart (average 7 days). The merit analysis team considered that it is too early to nominate this solution to work with the GMUS, MBI-306 is still under development and is not currently registered in any country. It is recommended to evaluate a nomination in the future.	Sprays are initiated at low to moderate risk levels. During this period preventive sprays can be made with Bacillus thuringiensis (IRAC Mode of Action Group 11), . DiPel® and XenTari® should be used when the adult moth population is low and egg laying has just started. Perform two to four sprays with 7 – 10 days spray interval. Alternate DiPel® (Btk) with XenTari® (Bta) when possible. Bt sprays are not harmful to beneficials. The use of DiPel®and XenTari® can be continued during this period. The merit analysis team considered it a low priority, because Bt is a solution already registered in different formulations in the proposed countries.

No specific points, but useful information					
TOTAL POINTS	15	9	10	11	8
GRAND TOTAL					53

*if not specified otherwise in the 'criteria' box, assign 1 point per solution in gray boxes only.