2019-2020 RCC Work Plan: Pesticides

Canadian Department: Health Canada, Pest Management Regulatory Agency

United States Department/Agency: Environmental Protection Agency, Office of Pesticides Program

Regulatory Cooperation Statement:

Health Canada's Pest Management Regulatory Agency (PMRA) and the United States (U.S.) Environmental Protection Agency's (EPA) Office of Pesticide Programs (OPP) are working together to foster an atmosphere of ongoing cooperation, collaboration, and regular communication to better align regulatory approaches in the following areas:

- A. Alignment of Pesticide Residue Chemistry
- B. Joint Review (JR) Process Improvements (New Chemicals/Uses)
- C. Pesticide Re-evaluation and Post-Market Joint Reviews
- D. Pollinator Protection and Neonicotinoid Pesticides
- E. Pest Control Emerging Technologies
- F. New Approach Methodologies (NAMs)
- G. Emerging Pesticide Issues

Work Plan:

Initiative	Desired outcome(s)	Activities	Reporting
Workstream A:	Further development of joint standardized	A set of case studies will be documented by	
	requirements that assist in establishing and	Canada and the U.S. to determine reasons for	
Alignment of Pesticide Residue	aligning maximum residue limits.	non-harmonized Crop Group MRLs within North	
Chemistry [by harmonizing use of		America to eventually enable development of a	
the Organization for Economic		standardized and consistent method for	
Cooperation and Development		determining Crop Group MRLs.	
(OECD) Maximum Residue Limit			
(MRL) Calculator]			

Initiative	Desired outcome(s)	Activities	Reporting
		An MRL calculator project is ongoing between	
		Canada and the U.S. in order to align OECD MRL	
		calculator inputs, which would lead to	
		harmonized MRL values.	
		 Since the Exchangeability / 	
		Interchangeability of Field Trial data	
		between geographic regions has been	
		demonstrated, development and	
		implementation of policies surrounding	
		Exchangeability is anticipated to be explored	
		to further support alignment. In addition,	
		input policies related to field trials with side-	
		by-side designs, with non-independent	
		results, and/or conducted in support of	
		tolerance/MRL listings for crop groups is	
		anticipated to be developed.	
Workstream B:	Harmonization in the timing of key scientific	Scheduling of collaborative work would allow for	
	work for certain pesticides, where possible.	more efficient planning with respect to data	
Joint Review (JR) Process		requests, and efficiencies in review of studies and	
Improvements (New Chemicals/Uses)		relevant scientific literature.	
		Continuing to review JR procedures as well as	
		requirements, evaluation criteria, timing, etc.	
		Based on "lessons learned", pilots identified as	
		per previously identified efficiency improvement	
		measures.	
		Two pilot projects (initiated October-November	
		2017) are currently underway: broflanilide and	
		inpyrfluxam. As new active ingredients (Als) are	

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		submitted for JR, the teams should evaluate the	
		appropriateness of collaborating under the pilot	
		as opposed to a full formal JR.	
		Progress is being made on identified "efficiency	
		improvement measures" – outcome of pilots will	
		inform next steps.	
Workstream C:	Harmonization in the timing of key scientific	PMRA and EPA continue discussions with respect to	
	work for certain pesticides, where possible.	work sharing of re-evaluation/re-registration of	
Pesticide Re-evaluation and Post- Market Joint Reviews (JRs)		active ingredients.	
, ,		Ongoing discussions/ cooperation between	
		PMRA and EPA with respect to work-sharing of	
		re-evaluation/re-registration of active	
		ingredients to align the timing of key science	
		work for certain registered pesticides when	
		possible.	
		Scheduling of collaborative work under	
		consideration, in particular for the next round of	
		re-evaluation (post-2022), which would allow for	
		more efficient planning with respect to data	
		requests, and efficiencies in review of studies	
		and relevant scientific literature.	
Workstream D:	Ongoing cooperation, collaboration, and	PMRA and EPA/CalDPR will continue to	
	regular communication.	collaborate on the pollinator re-evaluation of the	
Pollinator Protection and		neonicotinoid pesticides where possible.	
Neonicotinoid Pesticides			
		Working together, every effort will be made to	
		provide timely information to each other ahead	

Initiative	Desired outcome(s)	Activities	Reporting
		of any major announcements, publication of risk	
		assessments, or regulatory decisions pertaining	
		to the neonicotinoid pesticides where possible.	
Workstream E:	Increased efficient planning and	Continue to evaluate novel technologies (e.g., RNAi-	
	international collaboration, with respect to	based pesticides, genetically-modified mosquitoes)	
Pest Control Emerging Technologies	regulatory approaches and data	and build upon the input from their respective	
(including RNA interference [RNAi],	requirements/requests.	Science Advisory Panel meetings, informing each	
genetically-modified mosquitoes,		other of developments. (Note: EPA is the lead on	
etc.)		genetically-modified mosquitoes).	
		RNAi-based pesticides: PMRA and EPA to	
		continue to work collaboratively through the	
		OECD Expert Group on RNAi Pesticides, with	
		initial efforts focusing on the environmental	
		impact of RNAi pesticides (e.g., development of a	
		working document "Effects on Non-target	
		Organisms from Exposure to RNAi-based	
		pesticides and Environmental Fate").	
Workstream F:	Further expansion of the use of alternative	NAMs/IATA: (skin sensitization, eye and skin	
No. 10 and 10 an	methods of testing for acute oral, dermal,	irritation):	
New Approach Methodologies	and inhalation toxicity, along with skin and	PMRA and EPA continue involvement with a	
(NAMs) (including Integrated	eye irritation and skin sensitization	multi-stakeholder initiative on the potential	
Approach to Testing and Assessment	(collectively referred to as the "six pack	utility of in-vitro alternative assays analysis	
(IATA))	studies")	for eye and skin irritation.	
		 PMRA and EPA are actively involved with 	
		OECD's proposal for developing a New	
		Performance Based Test Guideline (PBTG) for	
		defined approaches and test methods for	
		skin sensitization. The PMRA also provided	

Initiative	Desired outcome(s)	Activities	Reporting
		input on the EPA's Interim Science Policy: Use of Alternative Approaches for Skin Sensitization as a Replacement for Laboratory Animal Testing, which was published for public comment on April 4, 2018.	
		 EPA is in the process of finalizing and postin the Guidance for Waiving Acute Dermal Toxicity Tests for Pesticide Technical Chemicals and Supporting Retrospective Analysis. This guidance allows EPA to harmonize with PMRA which published guidance on dermal waivers for both formulations and technical chemicals in 2017. 	g
		 Other potential items for collaboration: Explore waiver criteria for cancer bioassays; PBPK modelling and other newer assessment techniques (e.g., Tox 21, integration of in vitro vs in vivo testing in risk assessments); capacity building towards application of new technologies. 	nt
		 Risk Communication: Canada and U.S. need to provide a strong foundation and understanding for the use of Tox 21 and use of in vitro assays to gain stakeholder support and public confidence. Explore possibility of 	e t

Initiative	Desired outcome(s)	Activities	Reporting
		using Tox 21 in the traditional risk assessment and integrate in vitro in hazard	
		process to show proof of concept.	
		EPA recently released final waiver guidance	
		for sub-acute avian dietary studies supported by a retrospective analysis that	
		shows the study provides little regulatory	
		value in the majority of pesticide cases. Consider additional areas of cooperation and	
		communication specific to ecological risk	
		assessment.	
Workstream G:	Ongoing cooperation, collaboration, and	Hemp: Hemp production in the U.S. is now a	
Emerging Pesticide Issues (including	regular communication.	legal crop and has been legal for a number of years in Canada (for fiber production). U.S. is	
hemp production, drone technology,		committed to providing updates on hemp	
etc.).		related issues.	
		• <u>Drones</u> - <u>unmanned aerial vehicles (UAVs)</u> :	
		Canada is currently a member of the OECD	
		Working Subgroup on drones/unmanned UAVs	
		and is also participating in a Canadian working	
		group on drones. Both working groups are	
		gathering appropriate information to inform the	
		regulatory requirements needed to approve this	
		application technology in Canada.	