Surveillance: How to allocate the resources available wisely?



CFIA's Plant Protection Program

To prevent the introduction and spread of plant pests of quarantine significance, to detect and control or eradicate designated plant pests in Canada.



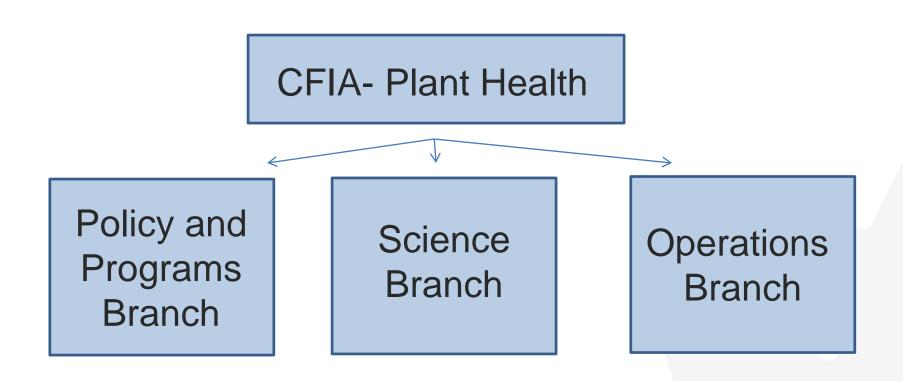
Plant Health Surveillance Unit

- Plans, coordinates and administers national survey program
- Designs new surveys and refines survey techniques and tools
- Provides training and technical support for operational staff
- Liaise with other departments, industry and external parties
- Maintains the national repository of survey data
- Develops national survey protocols, inspection guides, survey calendar and information sheets

Surveillance

Survey	January	February	March	April	May	June	July	August	September	October	November	December	
		Finalize Workplan	Order Supplies		Inspector Training		*Remember to enter all sites and activities into LSTS right away	*Remember to capture latitude and longitude in NAD83 and decimal degrees			Oct 15 LSTS Site Entry Deadline		
	Pink Gypsy Moth	&	&	•	>	*	15 km		Å ~	15 Sep	~	_	\(\big
	Gypsy Moth Lymantra dispar	*					15 Jun	***	** (15 Sep			
	Emerald Ash Borer Agrilus planipennis	gentrusti	gentrust	gendouseR	2000	2000	1 Jun		31 Aug	gan decode	gather.com	generale	garantin confi
ruesuy	Hemlock Woolly Adelgid	parameter Africa 2.3.4	A September 1	10 × X	30 M	Name and A	15 Jun Secretaria di Sporte	Sign Sign States Andrews Springs	Andreas Quiros	Ameliana y vorces	A commende	A Nov	Natura 23.4
וסב	Asian Longhomed Beetle					*	*	***	*	1 Sep	*		31 Dec
	Brown Spruce Longhorn Beetle))	3	9	15 May	* -	* -	21 Aug		9	3)

Survey Planning and Prioritization



Survey Prioritization Process

Step 1: Pre-screen

- Step 2: Survey description and justification
- Step 3: Survey rating
- Step 4: Survey ranking



Step 1: Pre-screen



Is an operational field survey the best and most efficient way to obtain the required information?

- If yes: continue to step 2
- If no, prioritization process stops and other activities are pursued

Step 2: Survey description and justification



Describe why the survey is being proposed for the annual work plan

 Provide sufficient information/justification for the reviewer to be able to make an informed assessment

Step 3: Survey rating



- Score each survey from 1 to 5 (lowest to highest) for
- 1. Relative IMPORTANCE of the survey information
 - 2. Relative URGENCY of having the survey information
- Factors to consider: new pest or already present in the country, contribution to progress of a file/issue, need for critical decision making, etc.

Step 4: Survey Ranking

PRIORITIES

1.

2.

3.

Example:				
Survey	Rating Score	Ranking		
Yellow Beetle	10	1		
Purple Virus	10	2		
Brown Nematode	9	3		
White Moth	9	4		
Blue Beetle	8	5		
Grey Disease	4	6		

Result: Prioritized Annual Survey Plan

2017-18 Plant Health S	Surveys*			0:		BC			AB			SK	
Version: 2016-09-30	MRRS Task Code	National - Total # Tasks	Timing	# Visits / Site	Hr/visit (direct)	# Sites	Total Tasks	Insp. Hrs	# Sites	Total Tasks	Insp. Hrs	≠ Sites	Total Tasks
Invasive Plants													
IAS Plants (seed/grain facilities)	31d01.25	210	Jun & Aug	2	2.0	10	20	40	10	20	40	10	20
Invasive Plants: Woolly Cup Grass	31d01.11	256	Aug-Sept	1	1.0	20	20	20	20	20	20	20	20
Invasive Plants-Kudzu delimitation survey	31d01.49	5	Mid-July - Sept	1	1.0	0	0	0	0	0	0	0	0
Forestry	100												s 8
Asian Longhorned Beetles (grids)	31d01.17	1599	Aug - Dec	1	1.5	452	452	678	80	80	120	10	10
Emerald Ash Borer	31d01.18	1482	Jun - Sep	3	1.5	30	90	135	44	132	198	10	30
Brown Spruce Longhorned Beetle	31d01.19	2352	May - Aug	8	1.5	0	0	0	0	0	0	0	0
IAS Forest Pests - trapping	31d01.16	876	Mar - Sep	12	3.0	17	204	612	3	36	108	0	0
IAS Forest Pests - rearing facility	31d01.22	50	Year round	1	8.0	10	10	80	0	0	0	0	0
Gypsy Moth	31d01.02	18458	Jun - Sep	2.3	0.5	5000	11500	5750	850	1955	978	500	1150
Pink Gypsy Moth	31d01.41	486	Jun - Sep	3	0.5	70	210	105	10	30	15	10	30
Hemlock Woolly Adelgid	31d01.40	145	Apr-May	1	3.0	0	0	0	0	0	0	0	0
Oak Wilt	31d01.44	40	Jun - Aug	1	1.5	0	0	0	0	0	0	0	0
Pine Shoot Beetle	31d01.45	60	Mar - May	6	0.5	0	0	0	0	0	0	0	0
Horticulture	1				3		1		8				× ×
P. ramorum (Nat'l. Survey)	31d01.06	59	Apr - Nov	1	6.0	20	20	120	0	0	0	0	0
Japanese Beetle	31d01.05	4760	Jun - Sep	7	0.8	600	4200	3150	0	0	0	0	0
Oriental Fruit Moth	31d01.04	500	Jun - Sep	4	0.8	125	500	375	0	0	0	0	0
Blueberry Maggot	31d01.07	410	Jun - Aug	5	2.0	25	125	250	0	0	0	0	0
Apple Maggot	31d01.08	4830	Jun-Sep	7	0.5	690	4830	2415	0	0	0	0	0
Tobacco Blue Mold	31d01.37	13	May - Oct	4.3	0.5	3	13	6	0	0	0	0	0
PPV (TB funded, see PPV Plan)	31g01.03	0	May - Sep	1	4.0	0	0	0	0	0	0	0	0
TOTALS		36590	(exclud	ing trav	erano	7072	22194	13736	1017	2273	1479	560	1260

Outreach: More Eyes Enhance Surveillance Capacity



Survey Reports, Protocols, Pest Info and more!

http://www.inspection.gc.ca/plantsurvey



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