

**APPENDIX "A" Amended August 20, 2015**  
**SCOPE OF ELIGIBLE ACTIVITIES AND COSTS/FUNDING GUIDE**

Activity / sub-activity	Sub activity detail	Metrics Unit	Cost Unit	Cost Guide
<b>1. AGGREGATION PHEROMONE USE</b>				
<b>Long Distance Dispersal Monitoring</b>				
Proposal for FRIAA	<b>1 proposal</b> / project	plan	man day*	\$500.00/ plan
2-component tree bait	1 site of 3 baited trees / township	bait	bait	\$ 4.47/bait
Bait set up	approx. 7 sites/day	site	man day*	\$120.00/site
Bait removal	approx. 7 sites/day	site	man day*	\$100.00/site
Ground survey (modified concentric )	up to 75 m around bait station with attacked trees	ha	man day* (or sites)	\$400.00/site
Single tree control	mass attack trees (>40 hits/tree)	#trees	man day* (or tree)	\$130/tree
Final Outcomes Report to FRIAA	1 report to FRIAA, data to ESRD	project	man day*	<u>\$500.00/report</u>
<b>Containment Baiting</b>				
Proposal for FRIAA	1/project	plan	man day*	<u>\$500.00/plan</u>
2-component tree bait	1 bait/season, stapled to tree 2 meters above ground	bait	bait	
Bait set up	1 bait 50 x 50 M grid ( about 4 baits /hectare 1	hectare	man day*	\$40/ha
Bait removal	<u>all of approx. 4 baits/ hectare</u>	hectare	man day*	\$25/ha
<u>Final Outcomes Report to FRIAA</u>	1/project	<u>plan</u>	man day*	\$500.00
<b>Log Yard Management</b>				
Proposal to FRIAA	1/project	plan	man day*	\$500.00
Lindgren 12-16 funnel trap	3 traps / stand	trap	trap	\$65.90
<u>Trap 3-component lure</u>	1 lure / season	lure	lure	\$6.75
<u>Trap terpinoline lure</u>	1 terpinoline lure change/season	lure	lure	\$3.85
<u>Trap stand</u>	3 traps 1M apart 6' above the ground	stand	stand	\$ 70.00
Set up, monitor remove <b>mill yard</b> traps	stands 50M apart, 75M from log deck, <u>check up to 16 times/season</u>	trap	man day*	\$41.00/trap (entire season)
Set up, monitor remove <b>satellite yard</b> traps	stands 50M apart, 75M from log deck, check up to 16 times/season	trap	man day*	\$69.00/trap (entire season)
Ground survey of identified adjacent stands	walk through assessment up to 100M from traps (once per season)	ha	man day*	lacks**
Single tree control	cut, buck, burn attacked trees (>40 hits/tree)	#trees	tree or (man day*)	\$130/tree
Final Outcome Report to FRIAA	1/project	plan	man day*	\$500.00
<b>2. DETECTION SURVEYS</b>				
<b>Aerial Surveys</b>				
Planning and data management	1/project	plan	man day*	\$800.00
Aerial Photography for area	submit for review in project proposal	photo	photo	market rate
Aircraft rental	submit for review in project proposal	hour	hour	market rate
Survey manpower (2 person)	navigator, tally person	linear km (or ha)	man day*	lacks**
Supervision (of contract or staff surveyors)	about 20% manpower costs		man day*	

Final Outcomes Report to FRIAA	total # and location attacked trees	project	man day*	\$800.00/report
<b>Ground Surveys (concentric, r:value, green:red ratio)</b>				
Proposal to FRIAA	1/project	plan	man day*	\$800.00/plan
Survey manpower	50m radius plot/ initially one per location	hectare	man day* (or plot)	\$275/plot
Quality inspection /man day)	minimum 15% of sites @,		man day*	market
Supervision (of contract or staff	about 20% manpower costs		man day*	market
Aircraft rental	project		\$/hour	market
Final Outcomes Report to FRIAA	1/project	plan	man day*	\$500.00
<b>3. SINGLE TREE CONTROL</b>				
Proposal to FRIAA	1/project	plan	man day*	\$ 800.00
Ground Treatments	cut, buck, burn; chip	#/trees	tree or (man day)	\$130.00/tree
Quality inspection	15% of surveyed sites	site	man day*	market
Aerial Scanning	# & location of sites visited	hour	\$/hour	market
Final Outcomes Report to FRIAA	1/project	plan	man day*	\$ 500.00
<b>4. PROTECTION . GENETIC TRIALS, ORCHARDS, RESEARCH PLOTS</b>				
Proposal to FRIAA	1/project	plan	man day*	\$500.00
Verbenone pouches	1 pouch per 15 x 15M grid (70	pouch	pouch	9.40
Pouch set up and removal orchard	attach north side tree 15 x 15M grid	pouch	man day*	\$1.40/pouch
Pouch set up and removal trial sites	attach north side tree 15 x 15M grid	pouch	man day*	\$3.50/pouch
2-component tree bait	1/season	bait	bait	\$ 4.47
Lindgren 12/16 funnel trap	1 - 4 traps/orchard, >50M from orchard boundary	trap	trap	65.90
Trap 3 component lure	1 / season	lure	lure	6.75
Trap terpinoline lure	1change/season	lure	lure	3.85
Trap stand	3 traps 1M apart 6' above ground	stand	stand	\$50.00
Set up, monitor, removal of traps	monitor up to 16 times/season	trap	man day*	\$41.00/trap
Insecticide (Sevin)	2% solution applied to each tree	Litres	\$/Litres	\$19.00
Insecticide application	apply to lower 2.5 M of each tree	# trees	tree or man day*	\$6.00/tree
Monitoring/replacement of PSPs/ISPs			man day*	\$500.00
Final Outcome Report to FRIAA	1/project	plan	man day*	\$500.00
<b>5. REGIONAL PLANNING INITIATIVES</b>				
Activities as approved by FRIAA	Project	plan	man day*	\$500.00

This Appendix has two primary functions; 1) to provide further detail on eligible activities as defined in Section 1.01 (1) of the Program Description, and 2) provide guidance in regards to reasonable costs for these activities as referenced in Section 4.02 (f) of the Program Description

#### 1. Eligible Activities

With the exception of removal of cone collection, the broadest grouping of eligible activities (e.g. detection surveys or protection of orchards or trials) has not changed since the inception of the program; however, as guidelines for implementing these activities have evolved, there may have been some changes to detailed sub-activities listed in earlier versions of this Appendix. One example of this is removal of mid-season monitoring from long distance dispersal monitoring. The addition of sub-activity detail to this Appendix is intended to provide additional guidance in regards to frequency or quantity of the common activities associated with each major task.

**Note:** Cone collection is no longer an eligible activity for this program.

## 2. Cost Guide

An earlier version of this Appendix listed "cost caps" for each activity; these were subsequently replaced with "cost guidelines" intended to provide a framework for development and review of proposed projects. Projects proponents are reminded that neither of these were intended to identify fixed costs for specific activities or sub-activities. In all cases, the actual reimbursement for services will be according to the actual documented costs of providing those services.

In some cases, there may have been a disconnect between the units in the stated "cost guides" compared to those that needed to be tracked to demonstrate actual cost. Take single tree control as an example. If the project proponent has sub-contracted the control activities and the basis for payment is the number of trees controlled, then the third party invoice documenting actual costs is based on the same unit as was provided in the cost guide for this activity. However, if single tree control was completed with internal staff (say as a follow up to a log yard monitoring program), the documentation of actual costs may be based on some other units (e.g. man days).

The addition of "cost unit" column of this Appendix is intended to serve as a reminder that cost guides based on other units are for guidance only and do not constitute fixed costs for purposes of billing. Retention of "metric units" and "cost guides" are provided to demonstrate linkages between units actually tracked and productivity of those units in relation to historical cost guides and/or costs of final reports.

All costs are listed as a guide for budget development and are reflective of FRIAA's past experience and recent competitive bids received by the Department. Actual payment amount for these activities will be based on third party invoices by the Approved Contractor provided to FRIAA. Where work is carried out in-house, applicable time sheets/cards indicating time spent on the project and wage rates charged to the project are required in lieu of an invoice. In any cases where anticipated costs exceed the cost guidelines (on a metric units basis), the rationale for these higher costs must be provided in the project proposal and must be pre-approved by FRIAA.

\* Cost per man-day are "loaded" costs including vehicle and field equipment. All costs at market value as determined by level of staff experience required and distance to staging point with rationale provided in the proposal. Historic prices have ranged significantly depending on activity and circumstances (e.g. quality control of remote single tree treatments may be at \$850/ day; bait checks at mill site \$340/ day).

Note: market value of man-day costs in isolation of expected productivity for those man-days does not provide much guidance on expected costs; comparison to "cost guide" is intended to provide linkages to historic program costs.

\*\*lacks — means insufficient number or value of recent projects to provide much correlation between cost units (e.g. man-day rate) and final metrics for activity