PROGRAM OVERVIEW

The purpose of the Program is to protect the forest resources of Alberta by supporting the Department's efforts in controlling, suppressing and eradicating forest pests, and supporting pest management and monitoring activities.

The Program permits integration effort by the Government of Alberta to control, suppress and eradicate forest pests with those of Alberta's forest industry and municipalities. The goal of the Program is to keep Alberta's forests healthy and reduce the harm caused by a potentially devastating infestation.

Applicants will follow an application/approval process set out by FRIAA. All data collected under this Program will be accessible by the Department. Further details and program guidelines can be found at www.friaa.ab.ca.

Eligible Activities means activities that meet the purposes of the Program and are not the responsibility of a timber disposition holder and includes, but is not limited to:

(a) **Aggregation Pheromone Use**

Long distance dispersal monitoring for detection of forest pests in previously un-infested areas, including containment baiting to concentrate pests prior to control, and monitoring and containing pests in company log yards to prevent damage to pine trees in adjacent forests.

(b) **Detection and Monitoring Surveys**

1. Aerial, ground and remote sensing surveys to determine where pests are currently active and where control activities may be required. This can include systematic observation and data collection on pest populations, host health, and environmental conditions beyond provincial detection measures. Regular Field Assessments: Tracking pest incidence, severity, and spread across forested landscapes.

(c) **Single Tree Control for MPB**

Destroying beetle larvae in infested trees before they can finish their life cycle and spread to other trees.

(d) **Protection of High-Value Trees**

Providing localized protection to high-value trees, seed orchards and progeny test sites.

(e) **Regional Planning Initiatives and Evaluation**

Helping forest companies work together to determine what steps need to be taken in the future to mitigate the impact of pest epidemics.

1. Evaluation and Adaptation: Assessment of the effectiveness of detection and surveillance, management actions and adapting strategies based on monitoring results and emerging threats.
2. Data Integration: Combining field data with remote sensing, climate models, and historical records to identify trends and forecast outbreaks.

(f) Reporting and Communication: Sharing findings with government, stakeholders, land managers, and the public to support coordinated responses and informed decision-making.

(g) **Other activities**

Such other activities as may be agreed to in writing from time to time by the Department and FRIAA.

Activities that are **not Eligible Activities** include:

(a) facility construction, improvement or operations,

(b) product research and development,

(c) road construction, repair and maintenance,

(d) the purchase of any capital assets, or

(e) a project carried out prior to project approval unless, in FRIAA's sole opinion, it is justified for operational circumstances.

In all cases, the actual reimbursement for services will be according to the actual documented costs of providing those services. Reimbursement will be based on third party invoices, or where work is carried out in-house, applicable time sheets/cards indicating time spent on the project and wage rates charged to the project

The following table provides a cost guide for further detail on Eligible Activities, as defined in Section 2, and provides reference in regard to reasonable costs for these activities based on FRIAA's past experience and recent competitive

bids received by the Department. This information is intended to provide a framework for development and review of proposed projects and is not intended to identify fixed costs for activities. The table will not be updated annually and is intended to serve as a reference guide. Projects using these values should account for standard inflationary adjustments and represent fair market value.

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

SCOPE OF ELIGIBLE ACTIVITIES AND COST/FUNDING GUIDE

ACTIVITY/SUB-ACTIVITY	SUB-ACTIVITY DETAIL	METRICS UNIT	COST UNIT	COST GUIDE
1. AGGREGATION PHEROMONE USE				
(a) Long Distance Dispersal Monitoring				
Proposal for FRIAA	1 proposal/project	plan	man-day*	$500.00/plan
2-component tree bait	1 site of 3 baited trees/township	bait	bait	$6.06/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	hectare	man-day* (or sites)	$500.00/site
Single tree control MPB	mass attack trees (>40 hits/tree)	# trees	man-day* (or tree)	$115.00/tree
Final outcomes report to FRIAA	1 report to FRIAA, data to AF	project	man-day*	$500.00/report
(b) Containment Baiting				
Proposal for FRIAA	1 proposal/project	plan	man-day*	$500.00/plan
2-component tree bait	1 bait/season, stapled to tree 2 meters above ground	bait	bait	$6.06/bait
Bait set up	1 bait 50 x 50 m grid (about 4 baits/hectare)	hectare	man-day*	$40.00/ha
Bait removal	all of approx. 4 baits/hectare	hectare	man-day*	$25.00/ha
Final outcomes report to FRIAA	1/project	plan	man-day*	$500.00/man-day
(c) Log Yard Management				
Proposal to FRIAA	1 proposal/project	plan	man-day*	$500.00/plan
Lindgren 12/16 funnel trap	3 traps/stand	trap	trap	$75.00/trap
Trap 3-component lure	1 lure/season	lure	lure	$7.09/lure
Trap terpinoline lure	1 terpinoline lure change/season	lure	lure	$2.89/lure

Trap stand	3 traps 1 m apart 6' above the ground	stand	stand	$70.00/stand
Set up, monitor, remove **mill yard** traps	stands 50 m apart, 75 m from log deck, check up to 16 times/season	trap	man-day*	$41.00/trap/ season
Set up, monitor, remove **satellite yard** traps	stands 50 m apart, 75 m from log deck, check up to 16 times/season	trap	man-day*	$69.00/trap/ season
Ground survey of identified adjacent stands	walk through assessment up to 100 m from traps (once/season)	hectare	man-day*	market rate
Single tree control MPB	cut, buck, burn attacked trees (>40 hits/tree)	# trees	tree or (man-day*)	$115.00/tree
Final outcomes report to FRIAA	1/project	plan	man-day*	$500.00/man-day
2. DETECTION SURVEYS				
(a) Aerial Surveys				
Planning and data management	1/project	plan	man-day*	$800.00/man-day
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*	market rate
Supervision (of contract or staff surveyors)	about 20% manpower costs		man-day*	market rate
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)				
Proposal to FRIAA	1/project	plan	man-day*	$800.00/plan
Survey manpower	50 m circle plots (2 ha) @ initially one per location	hectare	man-day* (or plot)	$345.00/plot
Quality inspection (man-day)	minimum 15% of sites		man-day*	market rate
Supervision (of contract or staff surveyors)	about 20% manpower costs		man-day*	market rate
Aircraft rental	project		$/hour	market rate
Final outcomes report to FRIAA	1/project	plan	man-day*	$500.00/man-day
3. SINGLE TREE CONTROL MPB				
Proposal to FRIAA	1/project	plan	man-day*	$800.00/man-day
Ground treatments	cut, buck, burn, or chip	# trees	tree or (man-day)	$115.00/tree
Quality inspection	15% of surveyed sites	site	man-day*	market rate
Aerial Scanning	# & location of sites visited	hour	$/hour	market rate
Final outcomes report to FRIAA	1/project	plan	man-day*	$500.00/man-day

4. PROTECTION/PREVENTION – HIGH-VALUE TREES, GENETIC TRIALS, ORCHARDS, RESEARCH PLOTS				
Proposal to FRIAA	1/project	plan	man-day*	$500.00/man-day
Verbenone pouches	1 pouch per 15 x 15 m grid (70 pouches/ha)	pouch	pouch	$9.40/pouch
Pouch set up and removal **orchard**	attach north side tree 15 x 15 m grid	pouch	man-day*	$1.40/pouch
Pouch set up and removal **trial sites**	attach north side tree 15 x 15 m grid	pouch	man-day*	$3.50/pouch
2-component tree bait	1/season	bait	bait	$6.06/bait
Lindgren 12/16 funnel trap	1 - 4 traps/orchard, >50 m from orchard boundary	trap	trap	$75.00/trap
Trap 3-component lure	1/season	lure	lure	$7.09/lure
Trap terpinoline lure	1 change/season	lure	lure	$2.89/lure
Trap stand	3 traps 1 m apart 6' above ground	stand	stand	$70.00/stand
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	$/litre	$19.00/litre
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/man-day
Final outcomes report to FRIAA	1/project	plan	man-day*	$500.00/man-day
5. REGIONAL PLANNING INITIATIVES				
Activities as approved by FRIAA	project	plan	man-day*	$500.00/man-day

* 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.

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.