



GREEN SEATTLE
PARTNERSHIP

Green Seattle Partnership Fieldwork and Progress Snapshot

Urban Forestry Commission
October 9, 2013

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Overview



- Introduction
 - What data is being collected by the GSP
 - How the information presented here fits into data collection and analysis efforts
- Field Work Analysis
 - Participation
 - Efficiency
 - Phase work
- Progress Snapshot
 - Forest restoration progress (Inventory & Tree-planting)
- Take-Aways & Next Steps

Our Data Collection Efforts

Work Logs & Volunteer Logs

- Entered by volunteers, contractors, and staff (CEDAR)
- Give us an idea of program **activities**

Inventory & Mapping by Phase

- Collected by professional partners
- Provide an idea of ecological **outputs & initial outcomes**
- General info on many areas

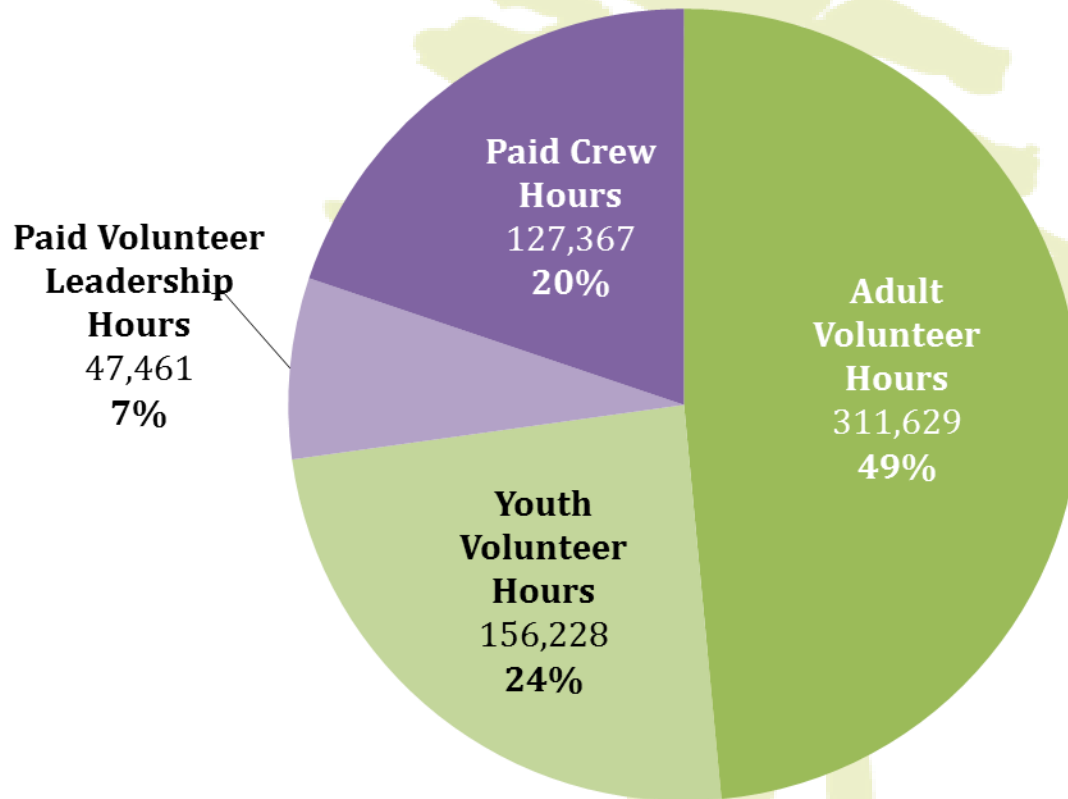
Forest Monitoring

- Collected by Forest Monitoring Team
- Permanent plot samples – shows in **depth ecological outcomes**
- Precise information on a few areas

Field Work Participation

Field Work Hour Totals

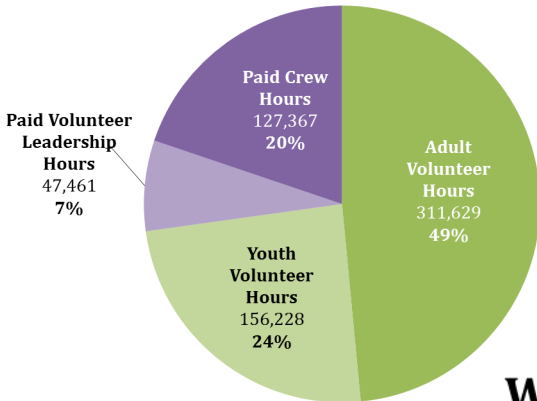
Work log hours recorded January 2007 - May 2013



Field Work Participation

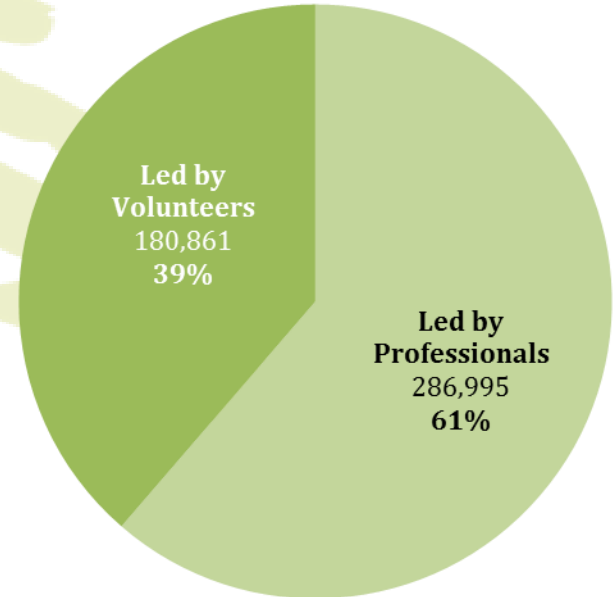
Field Work Hour Totals

Work log hours recorded January 2007 - May 2013



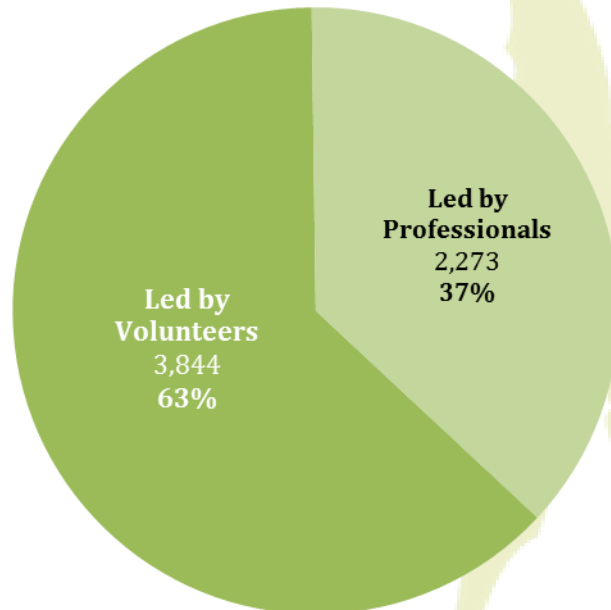
Volunteer Participation by HOURS

Reported volunteer hours per work party type
January 2007 - May 2013



Work Parties by NUMBER

Number of reported work parties per type
January 2007 - May 2013

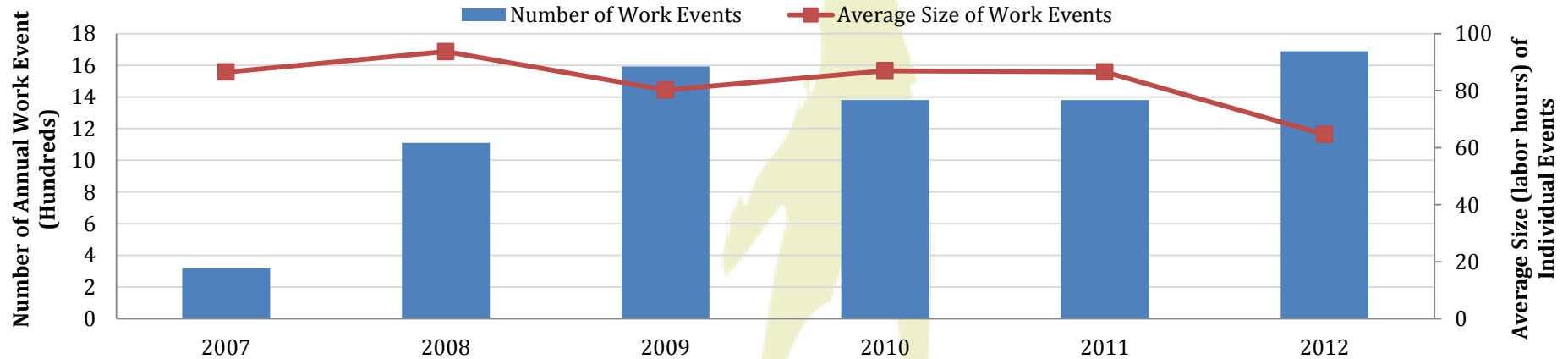


Participation Over Time

Reported Labor Hour Contribution of Work Events 2007 - 2012

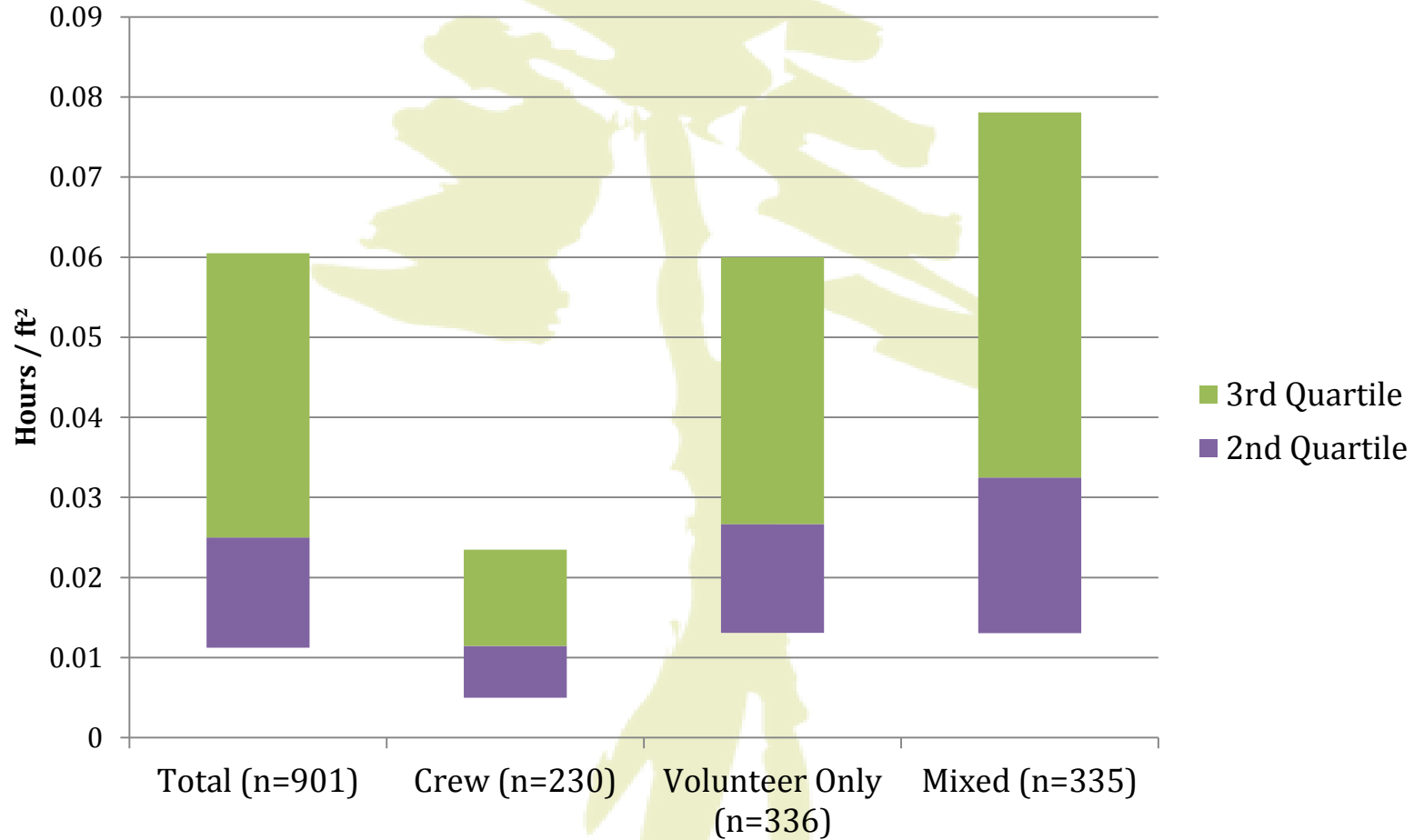


Number and Size of Reported Work Events 2007 - 2012



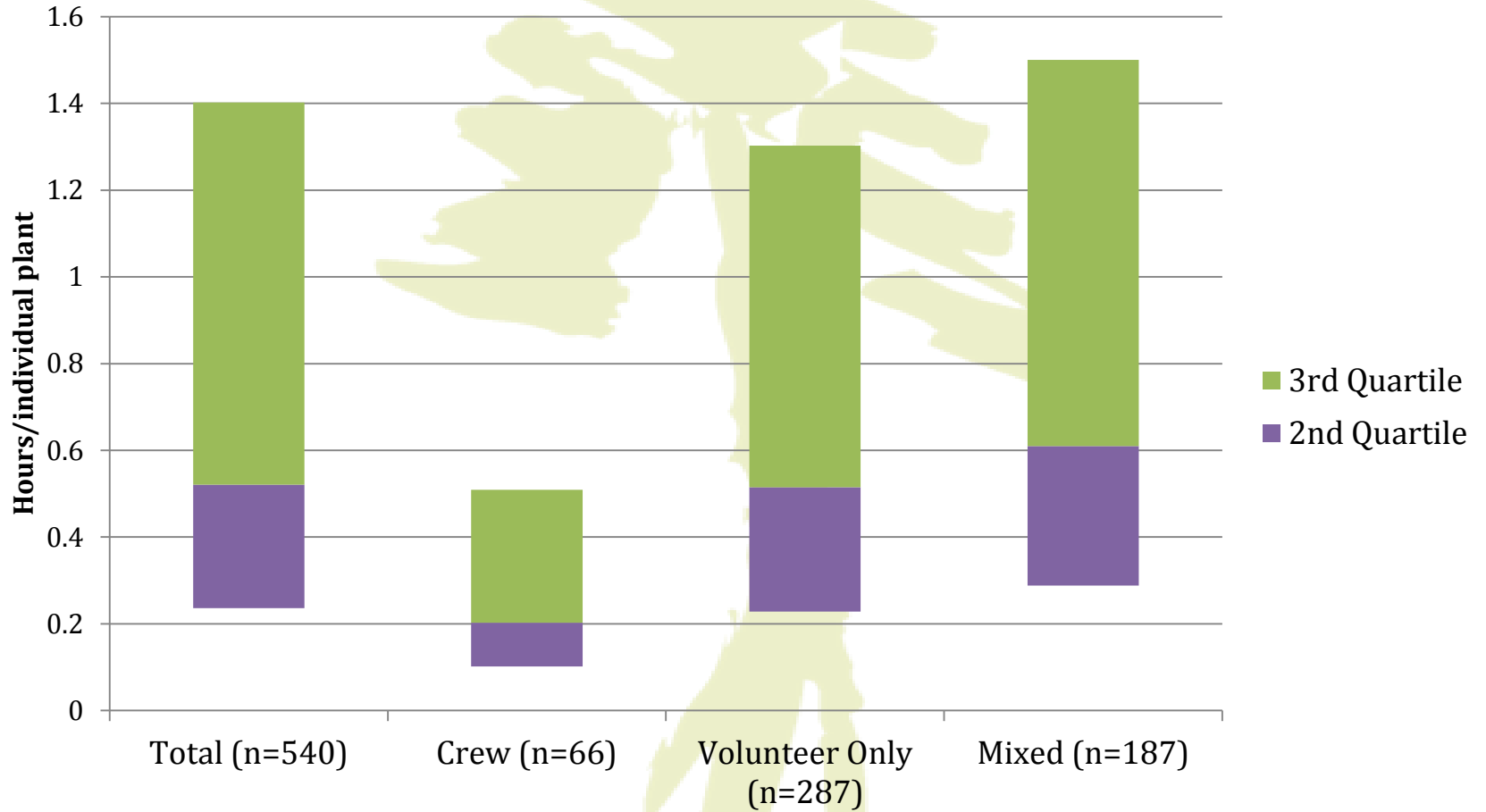
Efficiency

Time Spent on Initial Invasive Removal



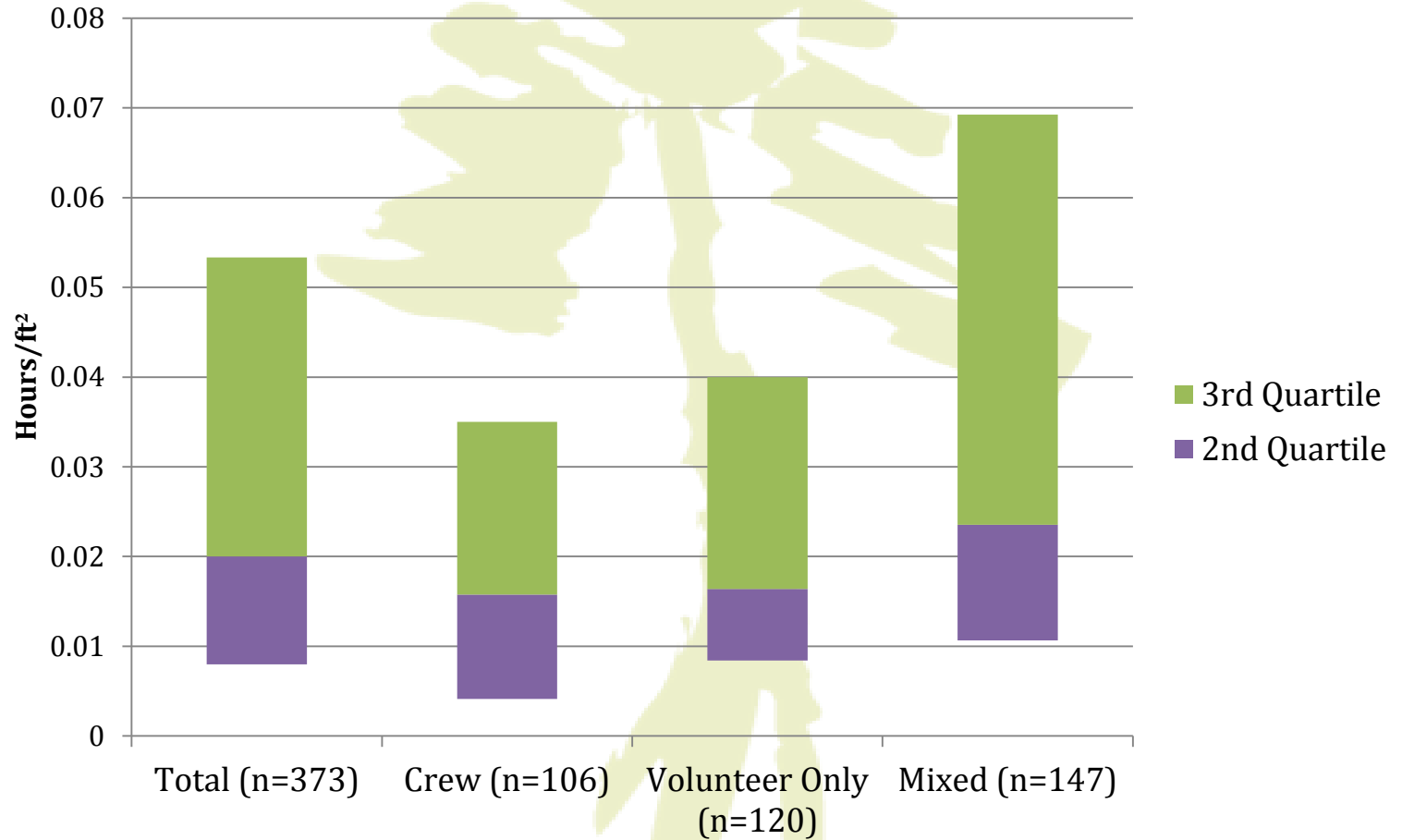
Efficiency

Time Spent on Potted Plant Planting



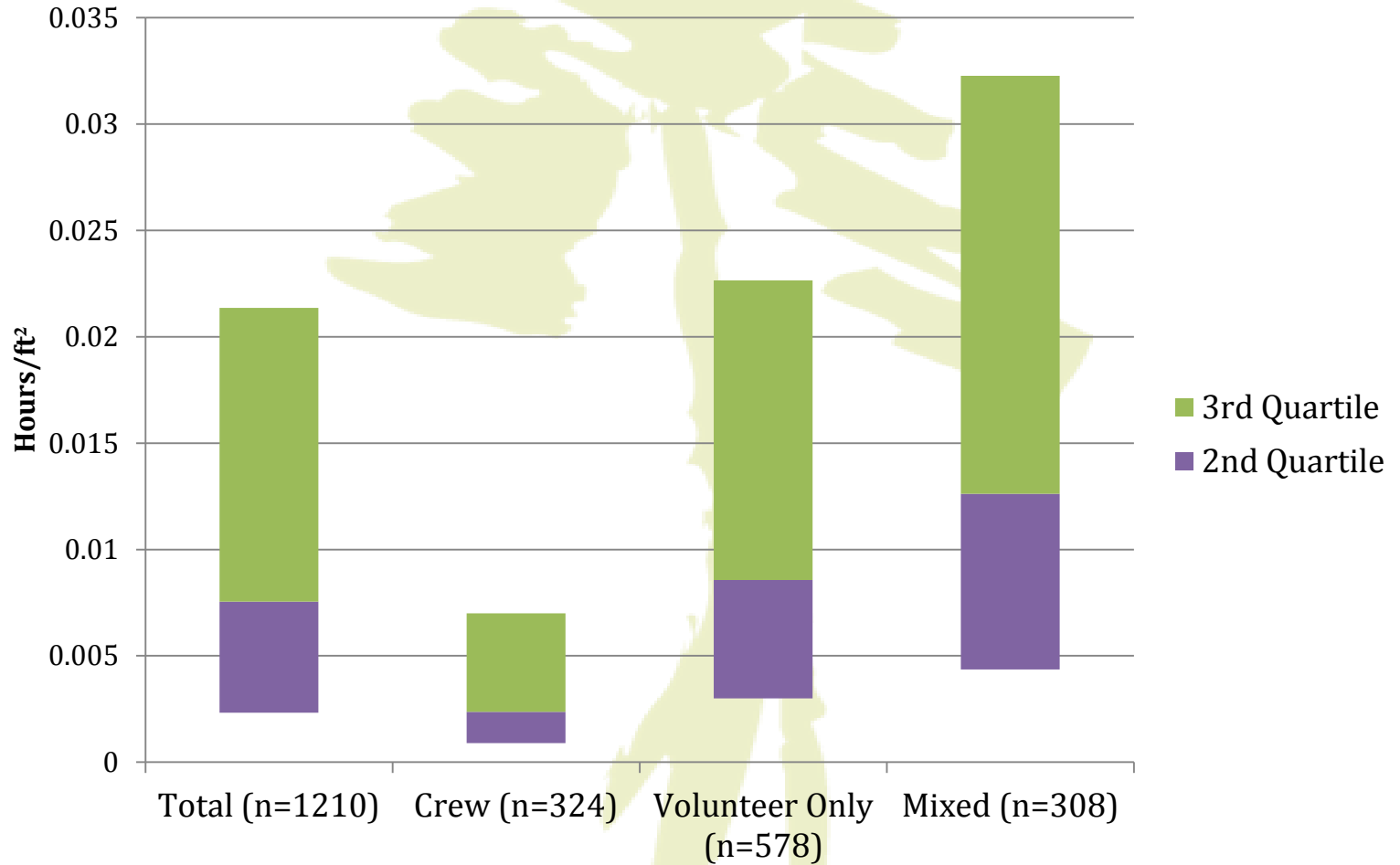
Efficiency

Time Spent on Mulching



Efficiency

Time Spent on Weeding



Phase Work

Phase I



Primary removal of invasive species, either manually or with herbicide

Phase 2



Planting native species

Phase 3



Plant establishment – mulching, watering, and weeding

Phase 4

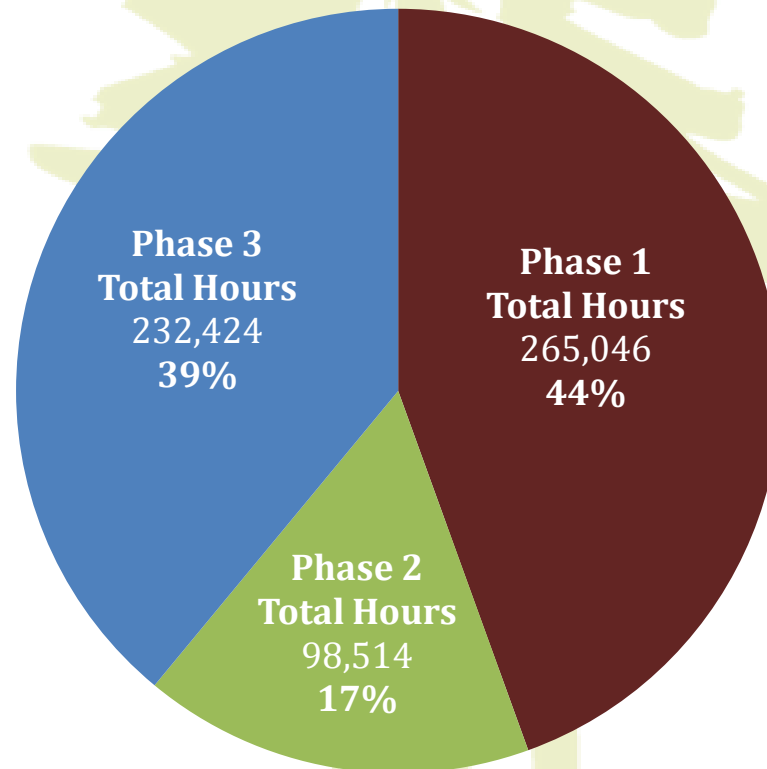


Monitoring and maintenance

Phase Work

Distribution of Reported Field Labor Hours Across Phases

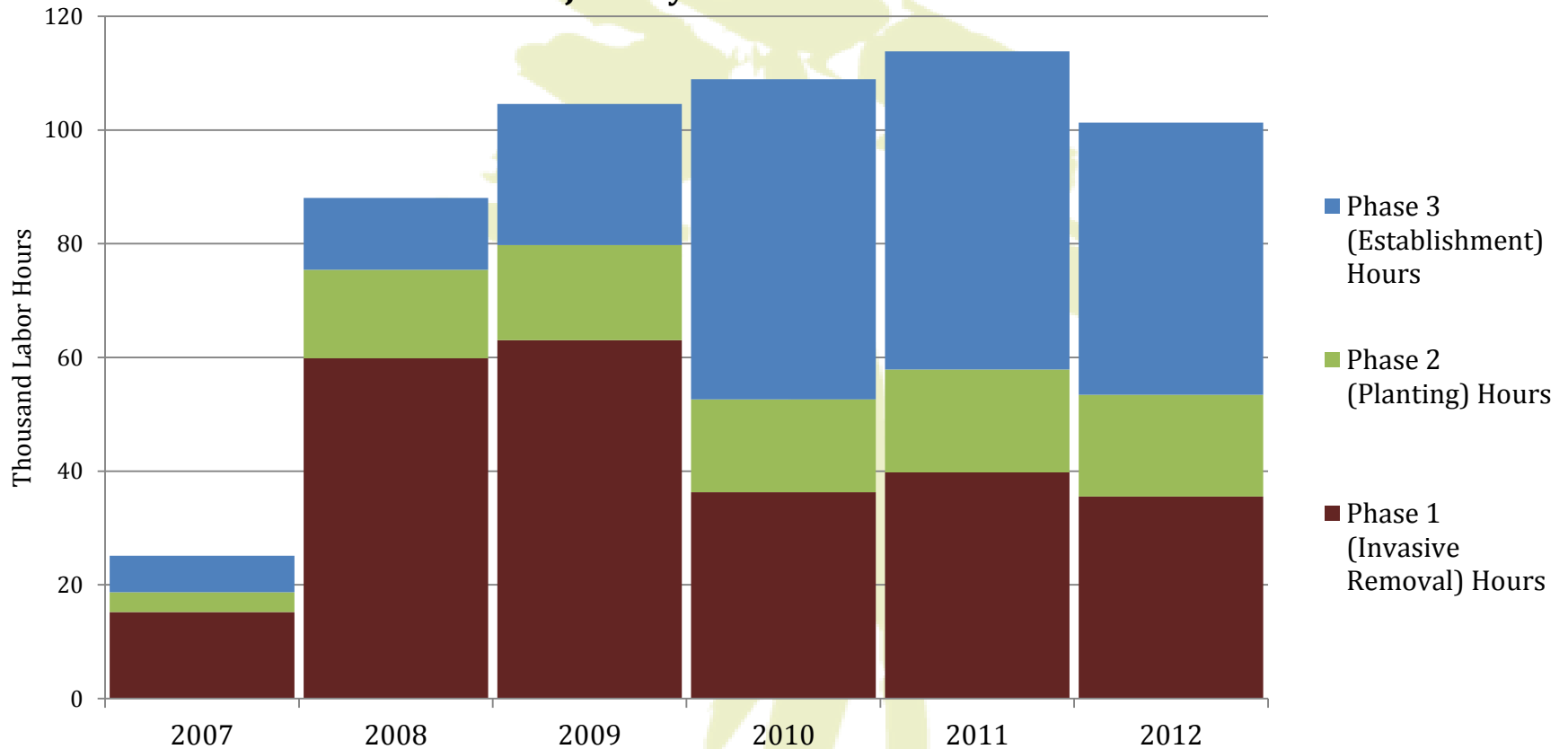
January 2007- August 2013



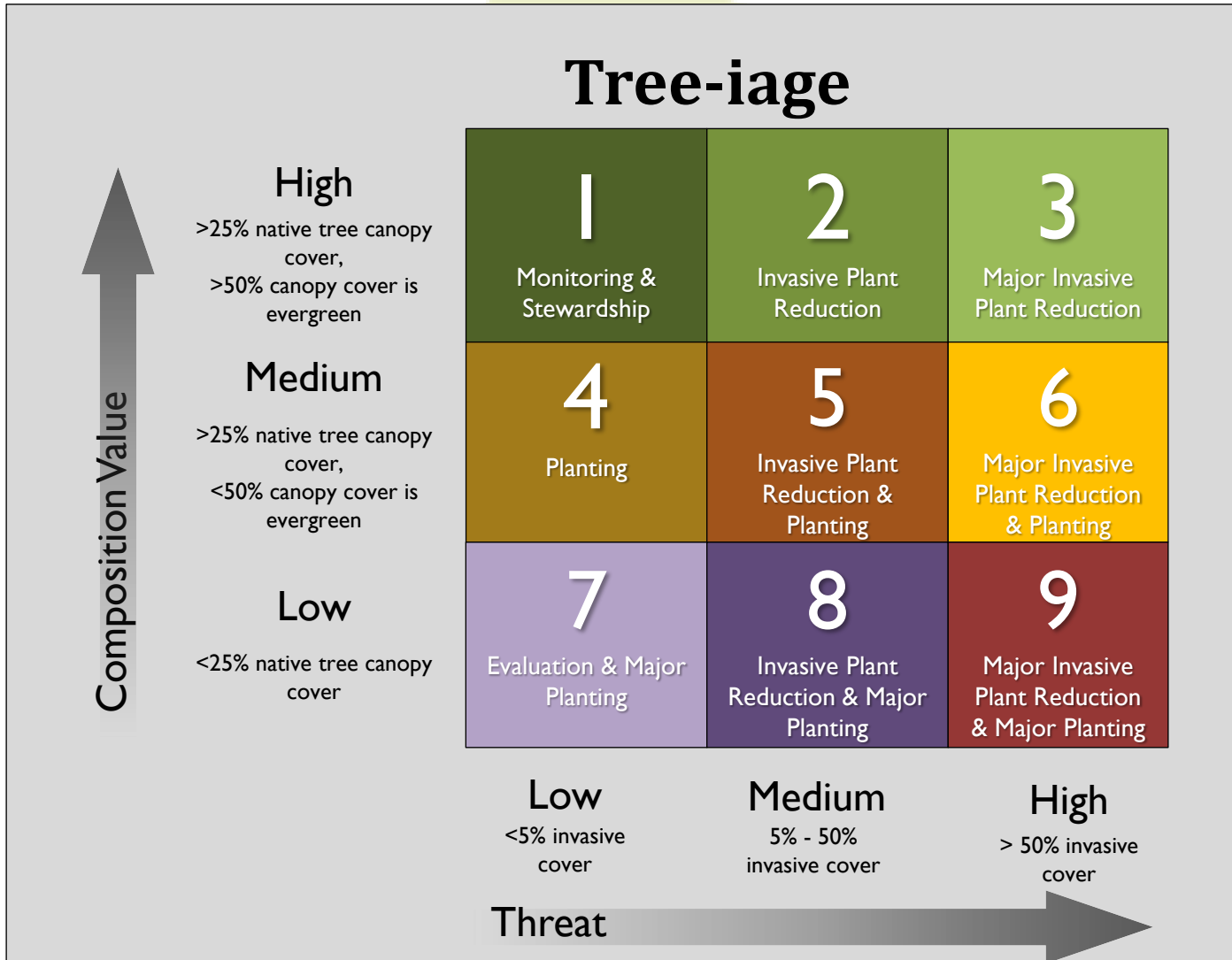
Phase Work Over Time

Reported Field Labor Hours Per Year by Phase

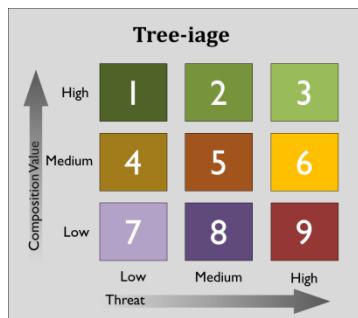
January 2007 - December 2012*



GSP Progress



GSP Progress



Tree-age of GSP Managed Acres		Baseline Tree-age Value (1999-2000)								Un-Measured	Total	
		1	2	3	4	5	6	7	8			9
Most Recently Measured Tree-age 3.0 Value (2009 - 2013)	1		113.9	11.8		47.5	12.3	4.6	4.5	13.4	1.2	209.2
	2	5.9	89.8	18.7	6.6	38.5	58.5	2.3	31.1	31.2	4.5	286.9
	3		2.3	8.5		2.2	11.0		35.6	5.4	5.1	70.2
	4		12.4	2.2		15.9	21.0		31.5	20.9	3.6	107.6
	5	0.7	28.6	13.1		36.7	55.9		30.5	55.7	12.6	233.7
	6	7.1	4.6	8.0	11.8	20.7	34.0		16.7	37.5	21.0	161.3
	7		4.0	12.5		4.4	11.9		0.2	4.1	3.9	41.0
	8		0.7	5.0			12.1		0.8	13.0	12.6	44.3
	9			0.5		6.1	4.6			1.8	4.9	17.9
Un-Measured		25.3	117.2	42.0	41.3	235.1	346.8	20.2	234.6	408.2	109.0	1579.6
Total		38.8	373.4	122.4	59.7	407.0	568.2	27.0	385.5	591.2	178.5	2751.7

Improved
752.1 acres

No Change
171.5 acres

Declined
179.1 acres

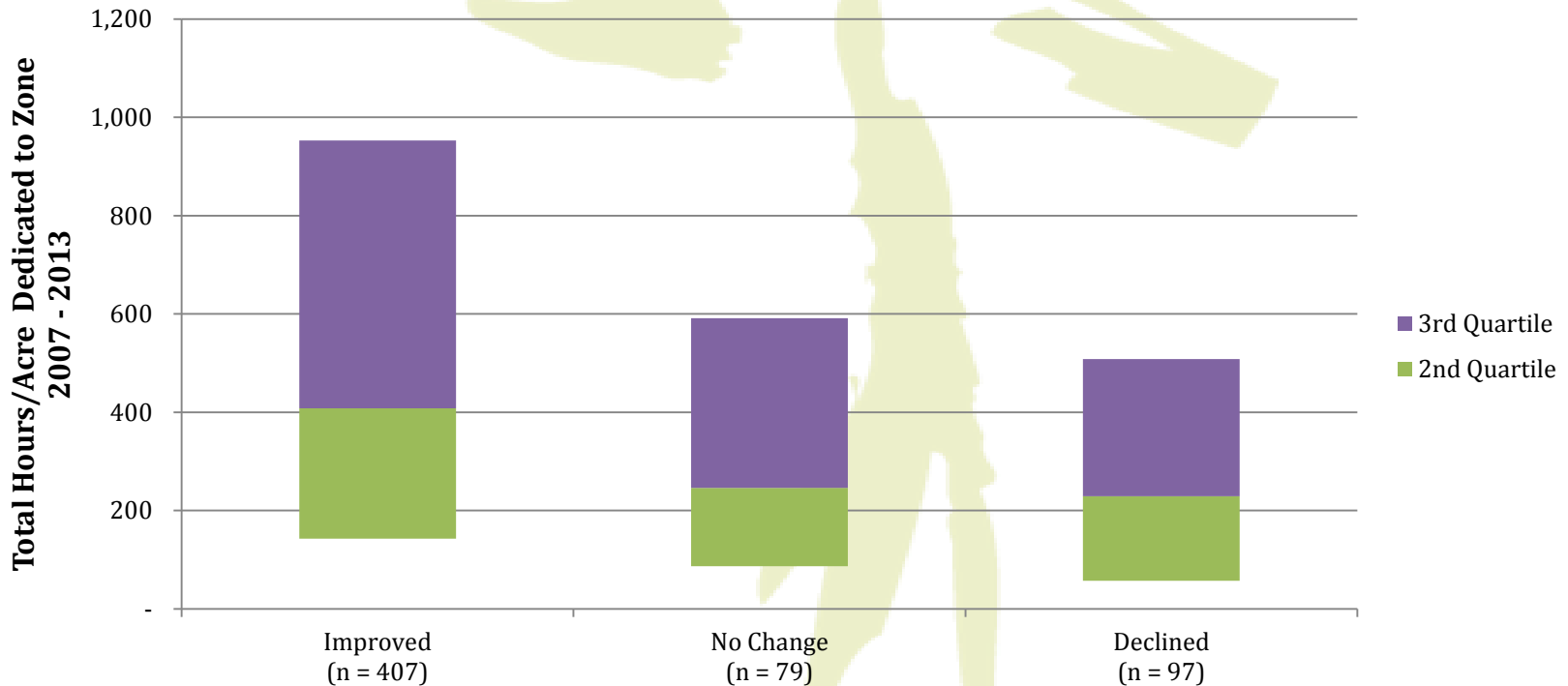
GSP Progress

Improved
752.1 acres

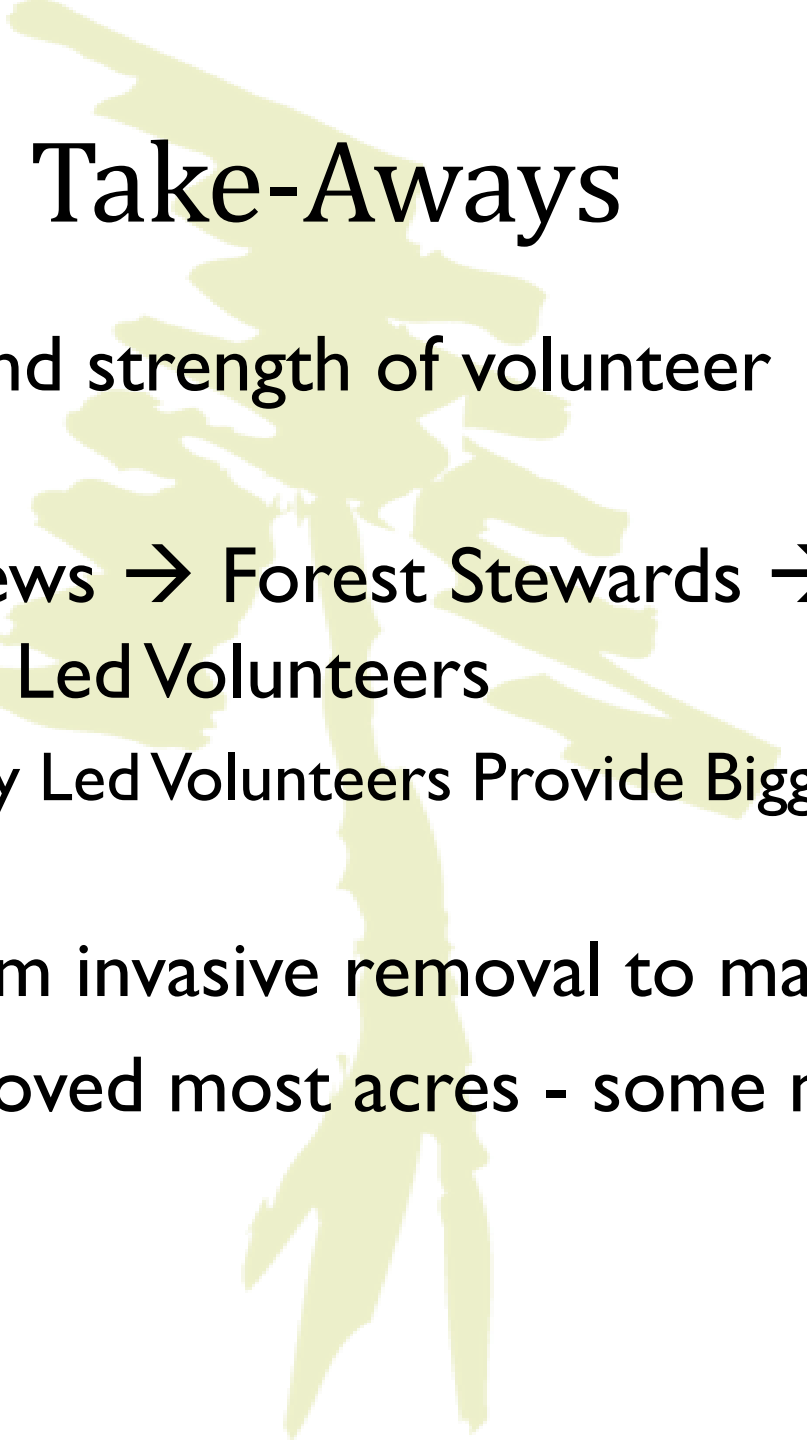
No Change
171.5 acres

Declined
179.1 acres

Amount of Work Expended by Improvement Level



Take-Aways



- Importance and strength of volunteer participation
- Efficiency: Crews → Forest Stewards → Professionally Led Volunteers
 - Professionally Led Volunteers Provide Biggest Numbers
- Transition from invasive removal to maintenance
- GSP has improved most acres - some need revisit

Next Steps

- Monetize hours & add plants, supplies and overhead → total resources toward sites
- Evaluate progress across more dimensions
 - inventory and monitoring data
- Examine conditions leading to variation in effort (site - slope, interior to edge ratio, soil; labor – contractors, size of groups)
 - create predictive model for future work

Questions?

