

Restoration Thinning Effectiveness Monitoring

Comparisons of pre-treatment (2003), one-year post treatment and three-years post treatment

General observations:

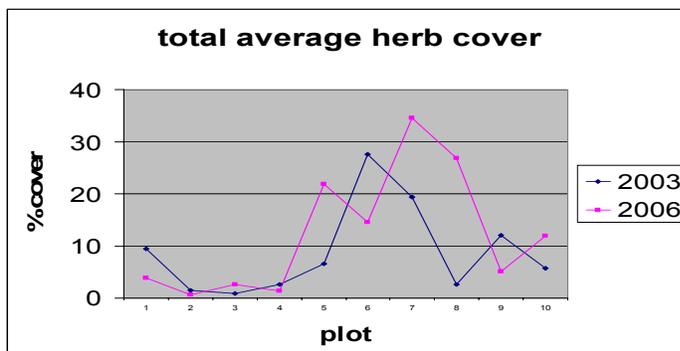
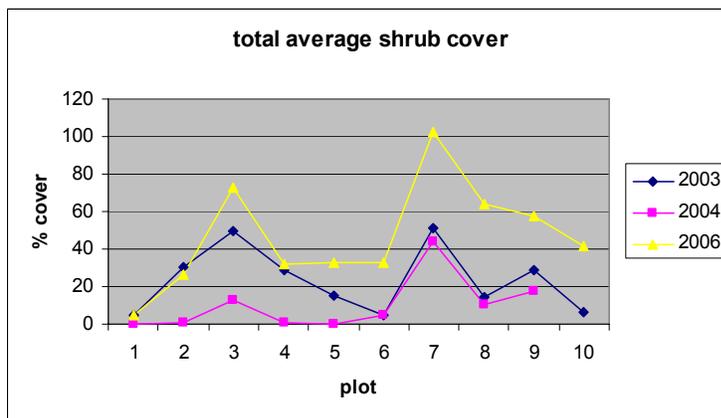
No new herbs or shrubs after treatment. No evident loss of species after 3 years. Fern composition may be changing – *Blechnum spicant* and *Athyrium felix-femina* were found pre-treatment but not after. *Pteridium aquilinum* was only found after thinning. However, they were all found at low frequency and cover, so this question warrants further sampling. [BLSP recorded once, ATFI recorded twice, PTAQ recorded twice]

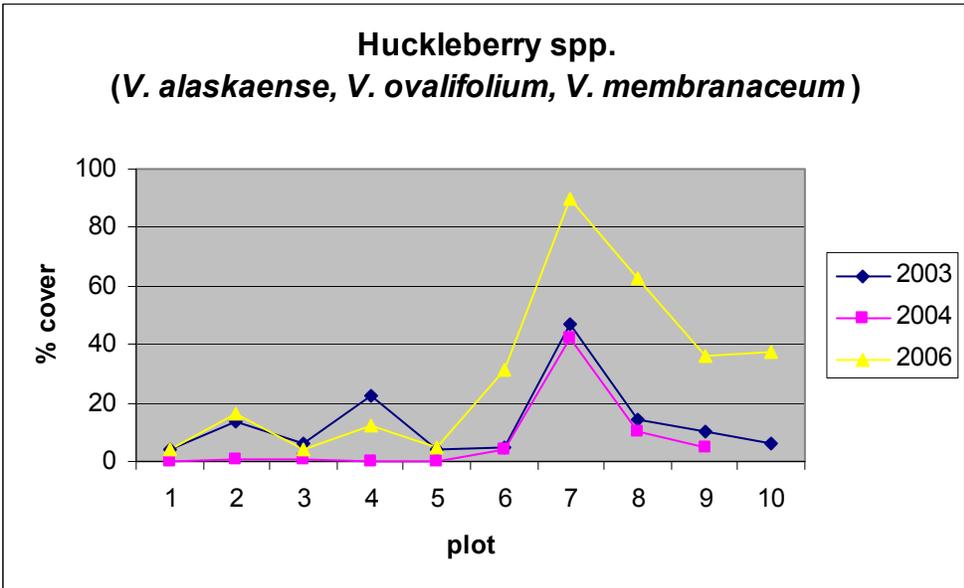
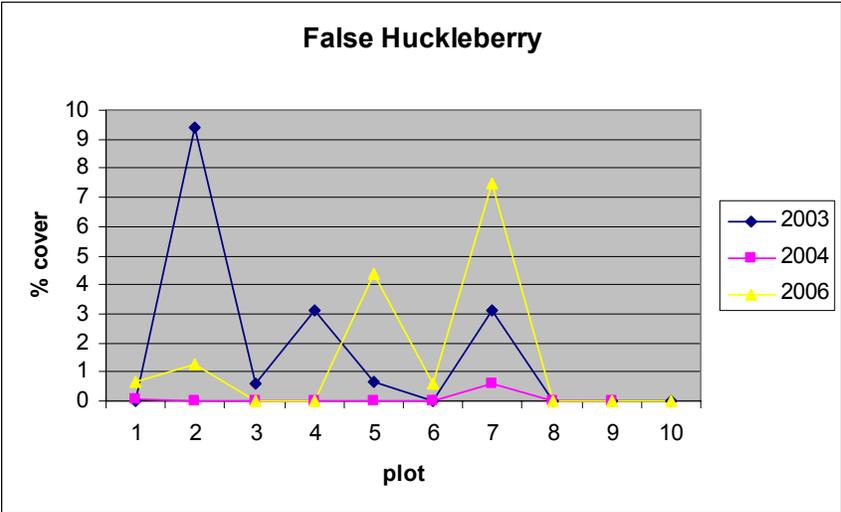
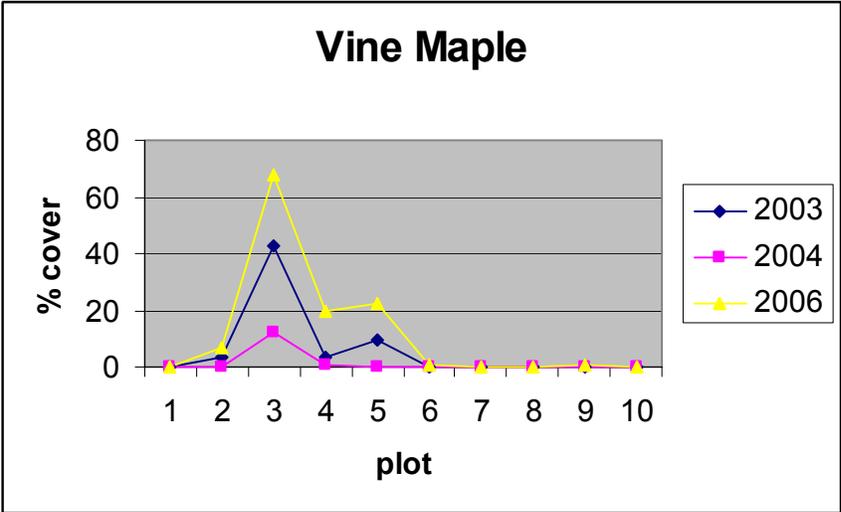
Herbs were not sampled in 2004.

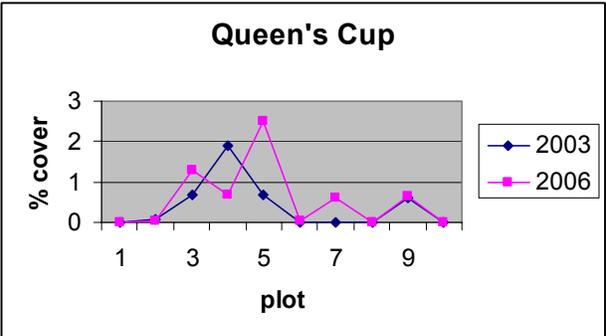
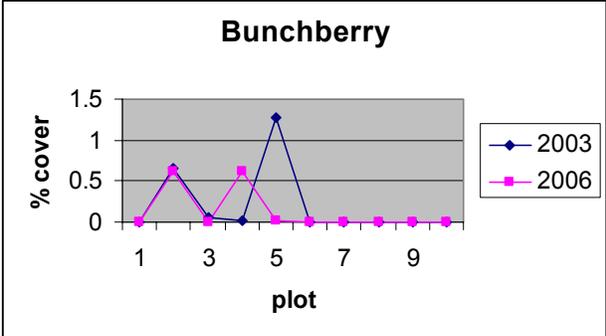
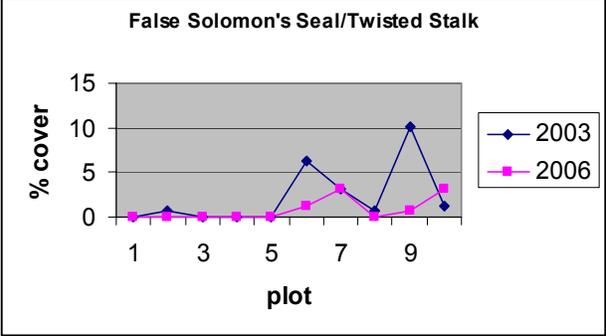
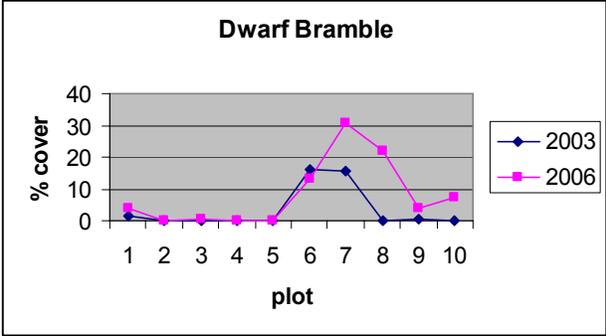
In general, shrub cover was lower the first year after thinning but had increased to pre-treatment levels or higher by 3 years after thinning.

Shrubs seemed to more consistently have increased from pre-treatment to 3-years after. Herbs were more variable – demonstrating no change, increase after treatment and decrease after treatment depending on the plot.

Beargrass was only found on plot 2110093142. It was found with virtually the same cover values both before and after thinning.







	pre (2003)	post (2004)	post (2006)	pre (2003)	post (2004)	post (2006)
	<i>Vaccinium</i> spp. (<i>alaskense</i> , <i>membranaceum</i> , <i>ovalifolium</i>)			<i>Vaccinium parvifolium</i>		
2110054215	0.03%	ns	ns	3.75%	ns	ns
2110054244	-	ns	ns	1.25%	ns	ns
2110093017	-	ns	0.63%	0.03%	ns	-
2110093030	0.65%	ns	ns	0.63%	ns	ns
2110093034	4.38%	0.08%	4.38%	-	0.03%	-
2110093048	13.75%	0.65%	16.25%	0.63%	0.00%	0.63%
2110093062	0.03%	ns	ns	-	ns	ns
2110093080	6.30%	0.65%	4.38%	-	-	-
2110093111	22.50%	0.10%	12.50%	-	-	0.03%
2110093142	4.40%	0.08%	5.00%	-	0.03%	1.25%
2110143059	ns	0.63%	ns	ns	0.00%	ns
2110143060	ns	0.03%	ns	ns	0.03%	ns
2110143127	ns	0.03%	ns	ns	0.00%	ns
2110143128	ns	0.65%	ns	ns	0.00%	ns
2110143158	ns	0.65%	ns	ns	0.00%	ns
2110234040	ns	0.68%	ns	ns	0.00%	ns
2110234053	ns	3.20%	ns	ns	1.25%	ns
2110234070	ns	3.80%	ns	ns	0.65%	ns
2110234072	ns	-	ns	ns	-	ns
2110243043	ns	7.50%	ns	ns	0.63%	ns
2111074253	5.00%	4.40%	31.25%	-	-	-
2111074255	46.88%	42.50%	90.00%	-	-	-
2111172005	14.38%	10.03%	62.50%	-	-	-
2111172007	10.00%	5.03%	36.25%	-	-	-
2111172029	6.25%	1.25%	37.50%	-	-	-

ns = not sampled

- = no *Vaccinium* found