

Table S7.1. Estimation of replacement costs of acorn-dispersal services by pairs of Eurasian Jays in Stockholm National Urban Park from Hougner et al. (2006). Conversion rate for Swedish Krona (SEK) to US dollars = 0.141 dollar per kronor (11 April 2005 exchange rate).

Factors	Estimates
A. Number of saplings naturally occurring	
Percentage of oaks among all trees in the park	18%
Percent oaks planted by humans	15%
Minimum number mature oaks per ha	45
Total number naturally-regenerated mature oaks in the entire park (655 ha)	25,054
If oak sapling survival is 10%; 10 x the number must be planted	250,540
Average number of naturally occurring oak saplings per ha	1034.5
Total number of naturally occurring oak saplings in the entire park	677,598
Average total natural oak saplings of two estimates: $(250,540 + 677,598)/2$	464,069
Number of first-year oak seedlings per ha resulting from jay dispersal	54
Total first-year oak seedlings over the entire park	35,370
Number of years of planting first-year oak seedlings to achieve observed	$464,069/(655)(54)=13.1$
Number planted per year, given 14 years to attain 464,069 oak saplings	33,148
B. Jay replacement costs	

Number of commercial acorns sown each year, given a 60% germination rate	55,247
Cost per acorn commercially	SEK 0.50
Cost factor for lower density spacing than commercial sowing, 0.36 x 4.1 SEK	SEK 1.48
Total costs of sowing: 55,247 acorns x (0.5 + 1.48) x 14 years	SEK 1.53 million
Cost per pair of jays: ~SEK 1,500,000/42 pairs = ~SEK 35,000	~\$4,900
Labor cost per planted oak seedling plus cost of seedling	SEK 14.41
Cost of planting 33,148 seedlings per year over 14 years	~SEK 6.7 million
Cost of planting per pair of jays: ~6,700,000/42 pairs = ~SEK 160,000	~\$22,500