

Appendix S7. Seed scale metrics across sites

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Table S2. Summary statistics from the subset of 43 *Pinus contorta* cones that were dismantled to count their scales. Average values and standard errors are shown. Approximate values from the native range, summarized across subspecies, are provided for ease of comparing between ranges. Mean individual filled seed mass (MISM) was calculated by dividing total filled seed mass by the number of filled seeds. Mean individual seed scale mass (MIScM) was calculated by dividing total seed scale mass by the number of seed scales (excluding basal scales).

Site	Number of Cones	Cone Length (mm)	Cone Circumference (mm) \bar{x} (\pm SE)	Number of Scales \bar{x} (\pm SE)	Filled Seed \bar{x} (\pm SE)	MISM (mg) \bar{x} (\pm SE)	MIScM (mg) \bar{x} (\pm SE)
Waihōpai Valley (Marlborough)	24	50.5 (\pm 1.1)	81.6 (\pm 2.)	74.7 (\pm 5.5)	77.6 (\pm 3.6)	4.237 (\pm 0.180)	74.6 (\pm 3.2)
Mid Dome (Southland)	19	47.1 (\pm 1.3)	69.0 (\pm 1.3)	48.0 (\pm 5.0)	88.2 (\pm 4.1)	3.904 (\pm 0.228)	63.3 (\pm 2.8)
New Zealand Average	43 (Total)	49.0 (\pm 1.2)	76.0 (\pm 2.8)	62.9 (\pm 6.2)	82.3 (\pm 4.1)	4.248 (\pm 0.213)	69.7 (\pm 3.6)
Approximate Native Range Values	-	21–55	60–110	≤ 100	10–25	2.0–8.2	Unknown