

# Description of seed sources and collections for provenances of *Pinus oocarpa*

**Commonwealth Forestry Institute - Provenance and family variation of *Pinus oocarpa* grown in the Brazilian cerrado**

Table 1. Elevations, mean annual air temperatures, and provenance sites for the six tree species studied in the common-garden experiment.

	Gave valley			Osau valley		
	Elevation (m)	n	T <sub>a</sub> (°C)	Elevation (m)	n	T <sub>a</sub> (°C)
<i>Abies alba</i>	840	37	10.31	824	8	10.37
	1190	19	6.70	1186	11	7.44
	1604	29	6.56	1551	24	6.16
<i>Acer pseudoplatanus</i>	601	13	10.30	926	23	10.43
	885	11	9.86	824	27	10.37
	1250	14	8.12	1186	25	7.44
	1533	41	6.70	—	—	—
<i>Fagus sylvatica</i>	131	13	12.39	148	32	11.52
	488	15	11.37	422	5	12.27
	773	27	10.24	824	35	10.25
	1180	37	—	—	—	—
<i>Fraxinus excelsior</i>	1604	8	8.64	1551	26	6.05
	130	35	12.79	148	17	11.58
	481	23	10.72	450	35	11.43
	885	24	9.86	824	8	10.37
	1250	—	8.12	1186	11	7.44
<i>Hedera aquifolium</i>	1533	7	6.70	—	—	—
	131	6	13.04	148	6	11.58
	427	27	12.42	422	32	11.43
	815	27	9.73	824	30	10.37
	1190	29	6.70	1186	30	7.44
<i>Quercus petraea</i>	131	39	12.89	259	30	13.15
	387	24	12.45	—	—	—
	427	36	12.33	422	22	12.27
	627	39	11.83	—	—	—
	803	26	10.96	841	34	9.04
	1082	35	9.82	—	—	—
	1235	35	9.73	1194	27	9.04
	1349	37	8.55	—	—	—
	1630	21	7.68	—	—	—

Note: n, number of individuals used for phenological observations; T<sub>a</sub>, annual air temperature (2005-2006 for fir, sycamore, ash, holly, and 2005-2007 for beech and oak).

Description: -

Animals -- Habitations.

Animals -- Habitations -- Juvenile literature.

*Pinus oocarpa* -- Seed -- Handbooks, manuals, etc. Description of seed sources and collections for provenances of *Pinus oocarpa*

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Crabapples

Tropical forestry papers -- no.13 Description of seed sources and collections for provenances of *Pinus oocarpa*

Notes: Bibliography, p.129-131.

This edition was published in 1979



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Zanthoxylum flavum Vahl seeds in Puerto Rico are reduced to less than 5 percent viability by a seed weevil Francis, personal communication 1994; Marrero 1949. In some cases research can provide answers, but for a few species, and for a variety of reasons, consistent collection and processing of viable seeds may be impossible. The status of tree breeding in South Africa.

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Final Report USDA Forest Service unpublished manuscript.

**Pinus oocarpa**

The sight of cockatoos feeding on the seeds indicates that Agathis seeds are ripe Whitmore 1977. Website Publisher USDA Forest Service.

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### **Provenance and family**

It is faster in many cases than collecting from the ground and it keeps the seeds cleaner. Publisher MacMillan Press Year 1992 ISBN 0-333-47494-5 Description Excellent and very comprehensive, though it contains a number of silly mistakes.

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