


Anadenanthera colubrina - 2000

Collecting partner	Edilberto Rojas Espinoza Centro de Semillas Forestales BASFOR Avenida Atahuallpa Final 5453, Cochabamba Bolivia					
Replicating partner	Jaime Magne Carrera Ingenieria Forestal Universidad Gabriel Rene Moreno Santa Cruz Bolivia					
Collection date	July 4 th 2000					
Seed source	Tin Tin, Mizque, Cochabamba					
Initial trials (BASFOR)						
Fruit weight \pm SD	7.92 \pm 2.29 g					
Fruit size (length/width) \pm SD	11.99 \pm 2.68 cm / 2.06 \pm 0.27 cm					
Seed weight \pm SD	0.32 \pm 0.08 g					
Seed diameter \pm SD	1.72 \pm 1.09 cm					
Mc before processing	41%					
Mc after processing	37%					
Initial germination	97%					
Initial trials (Universidad Gabriel)						
Arrival date	July 7 th 2000					
Initial mc	31%					
Initial germination	89%					
Desiccation trial (BASFOR)						
Mc after desiccation (%)	36.2	32.4	27.5	23.3	13.8	6.9
Germination (%)	97	94	97	97	95	98
Desiccation trial (Universidad Gabriel)						
Mc after desiccation (%)	31	26	22	17	7	
Germination (%)	89	76	80	74	65	
Storage trial (BASFOR)						
Mc before storage (%)	37 (fresh)	13.5	10.3	7.9	4.3	
Germination before storage (%)	97	97.3	97.3	97.7	98.7	
Mc after 3 months storage at 18°C (%)	40.3	16.3	14.2	9.2	8.1	
Germination (%)	0	3	5	84	94	
Mc after 3 months storage at 4 °C (%)	40.1	16.4	13.1	10.9	7.8	
Germination (%)	0	60	63	92	93	
Mc after 3 months storage at -20 °C (%)	40.0	16.0	13.7	10.1	8.0	
Germination (%)	0	92	92	93	90	
Comments and conclusions	<p>The seeds were fully desiccation tolerant and exhibited orthodox storage behaviour after three months of storage. The increase in mc during storage experienced at BASFOR is probably due to a sodium hypochloride treatment after desiccation, before storage. Lower germination percentages were obtained in the desiccation trial carried out at Universidad Gabriel, probably due to a three-week delay of the desiccation trial because silica gel was not available until then.</p>					
						

Anadenanthera colubrina - 2001

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Replicating partner	Jaime Magne Carrera Ingenieria Forestal Universidad Gabriel Rene Moreno Santa Cruz Bolivia					
Collection date	July 9 th 2001					
Seed source	Tin Tin, Mizque, Cochabamba					
Initial trials (BASFOR)						
Fruit weight \pm SD	7.23 \pm 2.3 gr.					
Fruit size (length/width) \pm SD	18 \pm 3.3 cm. / 2.1 \pm 0.2 cm.					
Seed weight \pm SD	0.27 \pm 0.7 gr.					
Seed diameter \pm SD	1.66 \pm 0.15 cm					
Mc before processing	41.3					
Mc after processing	38.2					
Initial germination	98%					
Desiccation trial (BASFOR)						
Mc after desiccation (%)	35.8	33.2	26.4	22.8	12.9	6.7
Germination (%)	97	96	97	97	98	98
Storage trial (BASFOR)						
Mc before storage (%)	38.2	12.8	10.2	7.1	4.3	
Germination before storage (%)	98	97	97	97	98	
Mc after 3 months storage at 18°C (%)	40.9	13.1	11.8	8.4	5.8	
Germination (%)	0	92	94	97	89	
Mc after 3 months storage at 4°C (%)	40.2	13.2	11.3	7.9	5.1	
Germination (%)	0	94	95	99	98	
Mc after 3 months storage at -20°C (%)	40.8	13.5	11.1	8.7	5.8	
Germination (%)	0	95	92	95	85	
Mc after 6 months storage at 18°C (%)	41.2	13.3	12.0	8.7	5.9	
Germination (%)	0	90	92	95	86	
Mc after 6 months storage at 4°C (%)	40.4	13.4	12.4	8.2	5.2	
Germination (%)	0	90	95	98	95	
Mc after 6 months storage at -20°C (%)	41.0	14.2	11.9	9.0	5.9	
Germination (%)	0	89	88	91	81	
Mc after 9 months storage at 18°C (%)	41.5	13.7	12.2	8.9	6.1	
Germination (%)	0	85	90	91	82	
Mc after 9 months storage at 4°C (%)	40.7	13.8	12.8	8.3	5.6	
Germination (%)	0	84	90	95	85	
Mc after 9 months storage at -20°C (%)	41.7	14.3	12.4	9.3	6.2	
Germination (%)	0	87	86	78	77	
Mc after 11 months storage at 18°C (%)	41.5	13.9	12.3	9.3	6.2	
Germination (%)	0	79	82	88	78	
Mc after 11 months storage at 4°C (%)	41.1	13.8	12.9	8.4	5.9	
Germination (%)	0	81	84	90	81	
Mc after 11 months storage at -20°C (%)	41.9	14.5	12.9	9.4	6.3	
Germination (%)	0	78	81	76	76	
Comments and conclusions	Seed of <i>Anadenanthera colubrina</i> shows orthodox storage behaviour. Seed that was desiccated down to 4.3% mc germinated 99%. After 11 months of storage the seed still retained high viability at all temperatures. These results support the observations made during the trials carried out the previous year.					