



Taxonomic and ecological aspects of *Myrceugenia mesomischa* (Myrtaceae), an endemic tree from southern Brazil

Aspectos taxonômicos e ecológicos de Myrceugenia mesomischa (Myrtaceae), uma árvore endêmica da Região Sul do Brasil

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Appendix 1 – Phytosociological parameters of the tree component with DBH between 5 to 10 cm obtained in the phytosociological survey of an *Araucaria* forest fragment, São Francisco de Paula, RS, Brazil. Species sorted in decreasing values of Importance Value Index (IVI). Ni = number of individuals; Np = number of plots occurring the species; AH = average height (m); ADBH = average diameter at breast height (cm); AF = absolute frequency (%); RF = relative frequency (%); AD = absolute density (%); RD = relative density (%); TBA = total basal area (m²); ADo = absolute dominance (%); RDo = relative dominance (%).

n°	Species	Ni	Np	AH	ADBH	AF	RF	AD	RD	TBA	ADo	RDo	IVI
1	<i>Myrceugenia mesomischa</i>	39	15	8.2	7.2	75.0	16.3	195.0	28.3	0.2177	1.0884	27.0883	23.88
2	<i>Myrcia lajeana</i>	14	10	11.8	8.5	50.0	10.9	70.0	10.1	0.0930	0.4651	11.5760	10.86
3	<i>Siphoneugenia reitzii</i>	12	10	10.2	7.2	50.0	10.9	60.0	8.7	0.0535	0.2676	6.6599	8.74
4	<i>Myrceugenia miersiana</i>	10	5	10	8.0	25.0	5.4	50.0	7.2	0.0914	0.4569	11.3719	8.02
5	<i>Sebastiania brasiliensis</i>	12	6	8	6.9	30.0	6.5	60.0	8.7	0.0569	0.2846	7.0819	7.43
6	<i>Calypttranthes concinna</i>	7	5	8.4	7.2	25.0	5.4	35.0	5.1	0.0384	0.1922	4.7824	5.10
7	<i>Araucaria angustifolia</i>	6	5	10.3	7.9	25.0	5.4	30.0	4.3	0.0323	0.1617	4.0254	4.60
8	<i>Sebastiania commersoniana</i>	5	4	13.6	9.3	20.0	4.3	25.0	3.6	0.0341	0.1705	4.2424	4.07
9	<i>Xylosma pseudosalzmannii</i>	5	4	10.8	8.0	20.0	4.3	25.0	3.6	0.0256	0.1278	3.1803	3.72
10	<i>Myrcianthes gigantea</i>	4	4	10.5	6.8	20.0	4.3	20.0	2.9	0.0167	0.0836	2.0816	3.11
11	<i>Myrcia guianensis</i>	3	3	11	8.1	15.0	3.3	15.0	2.2	0.0259	0.1293	3.2180	2.88
12	<i>Myrceugenia glaucescens</i>	3	3	11.3	8.0	15.0	3.3	15.0	2.2	0.0227	0.1134	2.8227	2.75
13	<i>Eugenia involucrata</i>	2	2	11.5	7.8	10.0	2.2	10.0	1.4	0.0099	0.0494	1.2295	1.62
14	<i>Strychnos brasiliensis</i>	1	1	20	9.9	5.0	1.1	5.0	0.7	0.0139	0.0695	1.7289	1.18
15	<i>Roupala brasiliensis</i>	1	1	11	9.6	5.0	1.1	5.0	0.7	0.0125	0.0627	1.5614	1.12
16	<i>Campomanesia xanthocarpa</i>	1	1	10	9.2	5.0	1.1	5.0	0.7	0.0067	0.0335	0.8332	0.88

n°	Species	Ni	Np	AH	ADBH	AF	RF	AD	RD	TBA	ADo	RDo	IVI
17	<i>Zanthoxylum rhoifolium</i>	1	1	11	9.2	5.0	1.1	5.0	0.7	0.0067	0.0335	0.8332	0.88
18	<i>Ilex microdonta</i>	1	1	8	7.3	5.0	1.1	5.0	0.7	0.0063	0.0313	0.7777	0.86
19	<i>Sloanea monosperma</i>	1	1	9	8.3	5.0	1.1	5.0	0.7	0.0054	0.0269	0.6698	0.83
20	<i>Allophylus edulis</i>	1	1	18	7.6	5.0	1.1	5.0	0.7	0.0046	0.0229	0.5707	0.79
21	<i>Myrsine lorentziana</i>	1	1	11	7.6	5.0	1.1	5.0	0.7	0.0046	0.0229	0.5707	0.79
22	<i>Sapium glandulosum</i>	1	1	8	7.6	5.0	1.1	5.0	0.7	0.0046	0.0229	0.5707	0.79
23	<i>Dalbergia frutescens</i>	1	1	20	6.7	5.0	1.1	5.0	0.7	0.0035	0.0176	0.4369	0.75
24	<i>Stillingia oppositifolia</i>	1	1	6	6.7	5.0	1.1	5.0	0.7	0.0035	0.0176	0.4369	0.75
25	<i>Matayba elaeagnoides</i>	1	1	21	6.4	5.0	1.1	5.0	0.7	0.0032	0.0159	0.3963	0.74
26	<i>Casearia decandra</i>	1	1	6	6.1	5.0	1.1	5.0	0.7	0.0029	0.0144	0.3577	0.72
27	<i>Annona rugulosa</i>	1	1	8	5.7	5.0	1.1	5.0	0.7	0.0026	0.0129	0.3210	0.71
28	<i>Ilex dumosa</i>	1	1	12	5.7	5.0	1.1	5.0	0.7	0.0026	0.0129	0.3210	0.71
29	<i>Scutia buxifolia</i>	1	1	8	5.1	5.0	1.1	5.0	0.7	0.0020	0.0102	0.2536	0.69
		138	-	-	-	460.0	100.0	690.0	100.0	0.8036	4.0	100.0	100.0

Appendix 2 – Phytosociological parameters of the tree component with DBH > 10 cm obtained in the phytosociological survey of an *Araucaria* forest fragment. São Francisco de Paula, RS, Brazil. Species sorted in decreasing values of Importance Value Index (IVI). Ni = number of individuals; Np = number of plots occurring the species; AH = average height (m); ADBH = average diameter at breast height (cm); AF = absolute frequency (%); RF = relative frequency (%); AD = absolute density (%); RD = relative density (%); TBA = total basal area (m²); ADo = absolute dominance (%); RDo = relative dominance (%).

n°	Species	Ni	Np	AH	ADBH	AF	RF	AD	RD	TBA	ADo	RDo	IVI
1	<i>Araucaria angustifolia</i>	37	15	19.4	28.1	75.0	12.0	185.0	18.4	2.9371	14.6856	24.5427	18.32
2	<i>Sebastiania commersoniana</i>	27	10	15.5	18.7	50.0	8.0	135.0	13.4	0.9056	4.5281	7.5675	9.67
3	<i>Myrceugenia mesomischa</i>	20	9	10	15.2	45.0	7.2	100.0	10.0	0.5281	2.6407	4.4131	7.19
4	<i>Ocotea pulchella</i>	9	7	20	28.4	35.0	5.6	45.0	4.5	0.7929	3.9645	6.6254	5.57
5	<i>Myrceugenia glaucescens</i>	13	6	12.9	21.1	30.0	4.8	65.0	6.5	0.5594	2.7972	4.6747	5.31
6	<i>Lamanonia ternata</i>	7	5	16.8	37.9	25.0	4.0	35.0	3.5	0.9305	4.6524	7.7751	5.09
7	<i>Sapium glandulosum</i>	8	5	19.5	23.6	25.0	4.0	40.0	4.0	0.4839	2.4197	4.0439	4.01
8	<i>Weinmannia paulliniifolia</i>	4	4	17.5	38.5	20.0	3.2	20.0	2.0	0.6830	3.4149	5.7070	3.63
9	<i>Myrcia lajeana</i>	9	5	15.3	16.6	25.0	4.0	45.0	4.5	0.2677	1.3385	2.2370	3.57
10	<i>Myrceugenia miersiana</i>	8	7	10.6	13.5	35.0	5.6	40.0	4.0	0.1300	0.6500	1.0863	3.56
11	<i>Cryptocarya aschersoniana</i>	2	2	22	68.9	10.0	1.6	10.0	1.0	0.7808	3.9040	6.5244	3.04
12	<i>Siphoneugena reitzii</i>	6	5	12.5	15.4	25.0	4.0	30.0	3.0	0.1411	0.7055	1.1790	2.72
13	<i>Allophylus edulis</i>	5	5	13.6	15.2	25.0	4.0	25.0	2.5	0.0977	0.4887	0.8166	2.43
14	<i>Ilex brevicauspis</i>	3	3	19.3	31.4	15.0	2.4	15.0	1.5	0.2766	1.3831	2.3115	2.07
15	<i>Cinnamomum glaziovii</i>	1	1	21	85.0	5.0	0.8	5.0	0.5	0.5676	2.8379	4.7428	2.01
16	<i>Myrcianthes gigantea</i>	4	3	17.5	21.4	15.0	2.4	20.0	2.0	0.1665	0.8326	1.3914	1.93
17	<i>Dasyphyllum spinescens</i>	4	3	14.5	19.2	15.0	2.4	20.0	2.0	0.1501	0.7503	1.2539	1.88
18	<i>Laplacea acutifolia</i>	2	2	18	40.9	10.0	1.6	10.0	1.0	0.3430	1.7152	2.8664	1.82
19	<i>Myrcia guianensis</i>	3	3	13.3	21.1	15.0	2.4	15.0	1.5	0.1589	0.7947	1.3281	1.74
20	<i>Dicksonia sellowiana</i>	4	2	5	24.8	10.0	1.6	20.0	2.0	0.1933	0.9663	1.6149	1.73
21	<i>Prunus myrtifolia</i>	3	3	12	18.0	15.0	2.4	15.0	1.5	0.0874	0.4371	0.7305	1.54
22	<i>Sebastiania brasiliensis</i>	3	3	10.6	13.2	15.0	2.4	15.0	1.5	0.0471	0.2356	0.3937	1.43
23	<i>Xylosma pseudosalzmannii</i>	2	2	17.5	26.9	10.0	1.6	10.0	1.0	0.1276	0.6378	1.0659	1.22
24	<i>Calypttranthes concinna</i>	3	2	11	14.1	10.0	1.6	15.0	1.5	0.0621	0.3105	0.5190	1.20
25	<i>Eugenia involucrata</i>	2	2	17	25.5	10.0	1.6	10.0	1.0	0.1182	0.5911	0.9878	1.19
26	<i>Zanthoxylum rhoifolium</i>	2	2	12	15.1	10.0	1.6	10.0	1.0	0.0361	0.1806	0.3018	0.97

n°	Species	Ni	Np	AH	ADBH	AF	RF	AD	RD	TBA	ADo	RDdo	IVI
27	<i>Sloanea monosperma</i>	2	2	14	13.4	10.0	1.6	10.0	1.0	0.0297	0.1484	0.2480	0.95
28	<i>Symplocos tetrandra</i>	2	1	19.5	22.8	5.0	0.8	10.0	1.0	0.0962	0.4811	0.8040	0.87
29	<i>Myrsine lorentziana</i>	1	1	17	30.3	5.0	0.8	5.0	0.5	0.0719	0.3593	0.6004	0.63
30	<i>Scutia buxifolia</i>	1	1	19	28.0	5.0	0.8	5.0	0.5	0.0617	0.3083	0.5152	0.60
31	<i>Citronella gongonha</i>	1	1	20	25.2	5.0	0.8	5.0	0.5	0.0497	0.2484	0.4152	0.57
32	<i>Blepharocalyx salicifolius</i>	1	1	17	24.2	5.0	0.8	5.0	0.5	0.0460	0.2299	0.3843	0.56
33	<i>Symplocos uniflora</i>	1	1	9	19.7	5.0	0.8	5.0	0.5	0.0306	0.1530	0.2557	0.52
34	<i>Casearia decandra</i>	1	1	7	10.8	5.0	0.8	5.0	0.5	0.0092	0.0460	0.0769	0.46
		201	-	-	-	625.0	100.0	1005.0	100.0	11.9674	59.8	100.0	100.0