

distribuição diamétrica

treelab - UFVJM | Prof. Eric Bastos Gorgens

v.0.2

expressa a distribuição dos indivíduos da floresta em classes de diâmetro regulares.

3

$$vol = \exp(-7,62812 + 2,18090 * \ln(dap))$$

2

$$AS = pi * \frac{dap^2}{40000}$$

1

$$CC = \text{inteiro}(\frac{DAP}{IC}) * IC + \frac{IC}{2}$$

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	parcela	arv	comum	cientifico	familia	dap	vertical	luminosidade	hcom	ht	cc	as	vol
2	T01	1	macucu	Licania guianensis	Chrysobalanaceae	10,3	S	2	4,59	7,83			
3	T01	2	casca seca	Licania canescens	Chrysobalanaceae	14,6	S	2	9,16	10,27			
4	T01	3	cajuacu	Anacardium spruceanum	Anacardiaceae	78,8	E	1	21,06	31,65			
5	T01	4	breu branco	Protium paniculatum	Burseraceae	14,7	S	2	7,35	11,54			
6	T01	5	breu branco	Protium paniculatum	Burseraceae	10,6	E	3	4,9	6,91			
7	T01	6	caramuxi	Pouteria hispida	Sapotaceae	27,1	C	2	13,53	19,83			
8	T01	7	casca seca	Licania canescens	Chrysobalanaceae	15,1	E	2	7,44	12,09			
9	T01	8	jatereu	Lecythis idatimon	Lecythidaceae	16,5	S	2	7,61	11,46			
10	T01	9	jatereu	Lecythis idatimon	Lecythidaceae	12	S	1	8,41	12,26			
11	T01	10	parajuba	Manilkara bidentata	Sapotaceae	38,4	C	2	31,19	32,29			
12	T01	11	guajara branco	Pouteria sp.	Sapotaceae	48,5	C	2	20,84	31,1			

	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205
T01	300	130	43	25	18	1	3	0	1	0	0	0	0	0	0	0
T02	360	200	56	29	24	2	4	3	0	0	0	0	0	0	0	0
T03	200	100	45	18	4	12	1	2	1	3	0	1	0	0	0	0
T04	370	130	66	26	14	7	3	1	0	0	0	0	0	0	0	1
T05	460	100	47	18	10	5	1	3	0	0	1	0	0	0	0	0
T06	360	110	76	21	16	8	2	1	0	1	0	0	0	0	0	0
T07	310	120	58	30	14	7	3	6	2	0	0	0	0	1	0	0
T08	300	130	54	15	22	7	2	3	2	0	0	0	0	1	0	0
T09	270	130	56	31	25	10	6	2	2	1	0	0	1	0	0	0
T10	310	130	14	30	8	2	3	1	0	0	1	0	0	0	0	0
T11	360	110	45	22	11	5	2	2	6	0	0	0	0	0	0	0
T12	290	130	15	18	15	4	3	2	1	1	0	0	0	0	0	0
T13	310	140	73	28	12	6	1	1	1	0	0	0	0	0	0	0
T14	380	170	15	22	14	4	4	4	0	0	0	0	0	0	0	0
T15	310	90	77	22	19	2	2	6	1	0	0	0	0	0	0	0
T16	380	140	37	25	12	5	5	0	2	0	0	0	0	0	0	0
T17	350	120	54	18	6	2	1	0	1	0	0	1	0	0	1	0
T18	400	120	52	22	13	3	5	3	0	0	0	0	0	0	0	0
T19	440	100	43	20	13	3	2	1	0	0	2	0	0	0	0	0
T20	280	130	26	18	5	3	2	4	0	0	1	1	0	0	0	0
T21	240	80	49	23	13	9	4	2	1	1	0	0	0	0	0	0
T22	420	150	38	18	8	2	2	2	0	0	0	1	0	0	0	0

6

Número de árvores por hectare por classe de diâmetro:

$$\overline{Nha} = \frac{\sum coluna}{N_{parc}}$$

5

Passar o número de árvore por classe e por parcela na base por hectare:

$$Nha = Narv * \frac{10000}{AreaParcela}$$

Contagem de cc	cc	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205	Total geral
parcela																		
T01	300	130	43	25	18	1	3	0	1	0	0	0	0	0	0	0	0	521
T02	360	200	56	29	24	2	4	3	0	0	0	0	0	0	0	0	0	678
T03	200	100	45	18	4	12	1	2	1	3	0	1	0	0	0	0	0	387
T04	370	130	66	26	14	7	3	1	0	0	0	0	0	0	0	0	0	618
T05	460	100	47	18	10	5	1	3	0	0	1	0	0	0	0	0	0	645
T06	360	110	76	21	16	8	2	1	0	1	0	0	0	0	0	0	0	595
T07	310	120	58	30	14	7	3	6	2	0	0	0	0	1	0	0	0	551
T08	300	130	54	15	22	7	2	3	2	0	0	0	0	0	1	0	0	536
T09	270	130	56	31	25	10	6	2	2	1	0	0	0	1	0	0	0	534
T10	310	130	14	30	8	2	3	1	0	0	0	0	0	0	0	0	0	499
T11	360	110	45	22	11	5	2	2	6	0	0	0	0	0	0	0	0	563
T12	290	130	15	18	15	4	3	2	1	1	0	0	0	0	0	0	0	479
T13	310	140	73	28	12	6	1	1	1	0	0	0	0	0	0	0	0	572
T14	380	170	15	22	14	4	4	4	0	0	0	0	0	0	0	0	0	613
T15	310	90	77	22	19	2	2	6	1	0	0	0	0	0	0	0	0	529
T16	380	140	37	25	12	5	5	0	2	0	0	0	0	0	0	0	0	606
T17	350	120	54	18	6	2	1	0	1	0	0	0	0	0	0	0	0	554
T18	400	120	52	22	13	3	5	3	0	0	0	0	0	0	0	0	0	618
T19	440	100	43	20	13	3	2	1	0	0	2	0	0	0	0	0	0	624
T20	280	130	26	18	5	3	2	4	0	0	1	1	0	0	0	0	0	470
T21	240	80	49	23	13	9	4	2	1	1	0	0	0	0	0	0	0	422
T22	420	150	38	18	8	2	2	2	0	0	0	1	0	0	0	0	0	641
Total geral	7400	2760	1039	499	296	109	61	49	21	7	4	4	2	2	1	1	0	12255

4

Tabela dinâmica

Áreas de Tabela Dinâmica

Arraste os campos entre as áreas abaixo

FILTROS

COLS

cc

LINHAS

parcela

VALORES

Contagem de cc

7

	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205
Narv med	336,36	125,45	47,23	22,68	13,45	4,95	2,77	2,23	0,95	0,32	0,18	0,18	0,09	0,09	0,05	0,05

distribuição área basal

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expressa a distribuição da área basal da floresta em classes de diâmetro regulares.

3

$$vol = \exp(-7,62812 + 2,18090 * \ln(dap))$$

2

$$AS = \pi * \frac{dap^2}{40000}$$

1

$$CC = \text{inteiro}\left(\frac{DAP}{IC}\right) * IC + \frac{IC}{2}$$

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	parcela	arv	comum	cientifico	familia	dap	vertical	luminosidade	hcom	ht	cc	as	vol
2	T01	1	macucu	Licania guianensis	Chrysobalanaceae	10,3	S	2	4,59	7,83			
3	T01	2	casca seca	Licania canescens	Chrysobalanaceae	14,6	S	2	9,16	10,27			
4	T01	3	cajuacu	Anacardium spruceanum	Anacardiaceae	78,8	E	1	21,06	31,65			
5	T01	4	breu branco	Protium paniculatum	Burseraceae	14,7	S	2	7,35	11,54			
6	T01	5	breu branco	Protium paniculatum	Burseraceae	10,6	E	3	4,9	6,91			
7	T01	6	caramuxi	Pouteria hispida	Sapotaceae	27,1	C	2	13,53	19,83			
8	T01	7	casca seca	Licania canescens	Chrysobalanaceae	15,1	E	2	7,44	12,09			
9	T01	8	jatereu	Lecythis idatimon	Lecythidaceae	16,5	S	2	7,61	11,46			
10	T01	9	jatereu	Lecythis idatimon	Lecythidaceae	12	S	1	8,41	12,26			
11	T01	10	parajuba	Manilkara bidentata	Sapotaceae	38,4	C	2	31,19	32,29			
12	T01	11	guajara branco	Pouteria sp.	Sapotaceae	48,5	C	2	20,84	31,1			

5

Transformar área seccional em área basal

$$AB = AS * \frac{10000}{AreaParcela}$$

Contagem de cc	cc	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205	Total geral
parcela		15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205	
T01		300	130	43	25	18	1	3	0	1	0	0	0	0	0	0	0	521
T02		360	200	56	29	24	2	4	3	0	0	0	0	0	0	0	0	678
T03		200	100	45	18	4	12	1	2	1	3	0	1	0	0	0	0	387
T04		370	130	66	26	14	7	3	1	0	0	0	0	0	0	0	1	618
T05		460	100	47	18	10	5	1	3	0	0	1	0	0	0	0	0	645
T06		360	110	76	21	16	8	2	1	0	1	0	0	0	0	0	0	595
T07		310	120	58	30	14	7	3	6	2	0	0	0	0	0	1	0	551
T08		300	130	54	15	22	7	2	3	2	0	0	0	0	1	0	0	536
T09		270	130	56	31	25	10	6	2	2	1	0	0	1	0	0	0	534
T10		310	130	14	30	8	2	3	1	0	0	1	0	0	0	0	0	499
T11		360	110	45	22	11	5	2	2	6	0	0	0	0	0	0	0	569
T12		290	130	15	18	15	4	3	2	1	0	0	0	0	0	0	0	479
T13		310	140	73	28	12	6	1	1	1	0	0	0	0	0	0	0	572
T14		380	170	15	22	14	4	4	4	0	0	0	0	0	0	0	0	613
T15		310	90	77	22	19	2	2	6	1	0	0	0	0	0	0	0	529
T16		380	140	37	25	12	5	5	0	2	0	0	0	0	0	0	0	606
T17		350	120	54	18	6	2	1	0	1	0	0	0	1	0	0	1	554
T18		400	120	52	22	13	3	5	3	0	0	0	0	0	0	0	0	618
T19		440	100	43	20	13	3	2	1	0	0	2	0	0	0	0	0	624
T20		280	130	26	18	5	3	2	4	0	0	0	1	1	0	0	0	470
T21		240	80	49	23	13	9	4	2	1	1	0	0	0	0	0	0	422
T22		420	150	38	18	8	2	2	2	0	0	0	1	0	0	0	0	641
Total geral		7400	2760	1039	499	296	109	61	49	21	7	4	4	2	2	1	1	12255

4

Tabela dinâmica

Arraste os campos entre as áreas abaixo

FILTROS

COLS

cc

LINHAS

parcela

VALORES

Soma de ab

7

	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205
AB	5,36	5,80	4,36	3,49	3,07	1,60	1,19	1,24	0,66	0,28	0,18	0,22	0,15	0,16	0,10	0,14

distribuição volumétrica

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expressa a distribuição do volume da floresta em classes de diâmetro regulares.

3

$$vol = \exp(-7,62812 + 2,18090 * \ln(dap))$$

2

$$AS = \pi * \frac{dap^2}{40000}$$

1

$$CC = \text{inteiro}\left(\frac{DAP}{IC}\right) * IC + \frac{IC}{2}$$

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	parcela	arv	comum	cientifico	familia	dap	vertical	luminosidade	hcom	ht	cc	as	vol
2	T01	1	macucu	Licania guianensis	Chrysobalanaceae	10,3	S	2	4,59	7,83			
3	T01	2	casca seca	Licania canescens	Chrysobalanaceae	14,6	S	2	9,16	10,27			
4	T01	3	cajuacu	Anacardium spruceanum	Anacardiaceae	78,8	E	1	21,06	31,65			
5	T01	4	breu branco	Protium paniculatum	Burseraceae	14,7	S	2	7,35	11,54			
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7	T01	6	caramuxi	Pouteria hispida	Sapotaceae	27,1	C	2	13,53	19,83			
8	T01	7	casca seca	Licania canescens	Chrysobalanaceae	15,1	E	2	7,44	12,09			
9	T01	8	jatereu	Lecythis idatimon	Lecythidaceae	16,5	S	2	7,61	11,46			
10	T01	9	jatereu	Lecythis idatimon	Lecythidaceae	12	S	1	8,41	12,26			
11	T01	10	parajuba	Manilkara bidentata	Sapotaceae	38,4	C	2	31,19	32,29			
12	T01	11	guajara branco	Pouteria sp.	Sapotaceae	48,5	C	2	20,84	31,1			

5

Transformar volume da parcela em volume por hectare

$$vol = vol_{parc} * \frac{10000}{AreaParcela}$$

Contagem de cc	cc	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205	Total geral
parcela		15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205	
T01		300	130	43	25	18	1	3	0	1	0	0	0	0	0	0	0	521
T02		360	200	56	29	24	2	4	3	0	0	0	0	0	0	0	0	678
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T05		460	100	47	18	10	5	1	3	0	0	1	0	0	0	0	0	645
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T08		300	130	54	15	22	7	2	3	2	0	0	0	0	1	0	0	536
T09		270	130	56	31	25	10	6	2	2	1	0	0	1	0	0	0	534
T10		310	130	14	30	8	2	3	1	0	0	1	0	0	0	0	0	499
T11		360	110	45	22	11	5	2	2	6	0	0	0	0	0	0	0	569
T12		290	130	15	18	15	4	3	2	1	0	0	0	0	0	0	0	479
T13		310	140	73	28	12	6	1	1	1	0	0	0	0	0	0	0	572
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T16		380	140	37	25	12	5	5	0	2	0	0	0	0	0	0	0	606
T17		350	120	54	18	6	2	1	0	1	0	0	0	1	0	0	1	554
T18		400	120	52	22	13	3	5	3	0	0	0	0	0	0	0	0	618
T19		440	100	43	20	13	3	2	1	0	0	2	0	0	0	0	0	624
T20		280	130	26	18	5	3	2	4	0	0	0	1	1	0	0	0	470
T21		240	80	49	23	13	9	4	2	1	1	0	0	0	0	0	0	422
T22		420	150	38	18	8	2	2	2	0	0	0	1	0	0	0	0	641
Total geral		7400	2760	1039	499	296	109	61	49	21	7	4	4	2	2	1	1	12255

4

Tabela dinâmica

Áreas de Tabela Dinâmica

Arraste os campos entre as áreas abaixo

FILTROS

COLS

cc

LINHAS

VALORES

parcela

Soma de vol

6

Área basal por classe de diâmetro:

$$\overline{Vol} = \frac{\sum coluna}{N_{parc}}$$

7

	15	25	35	45	55	65	75	85	95	105	115	125	145	155	165	205
Vol	54,1720	64,1794	51,2811	42,9793	39,1808	21,1070	16,0054	17,0725	9,3644	3,9785	2,6257	3,1887	2,2386	2,4943	1,4965	2,3070