

Zadatak 11 - No. 28 Brasanac Filip

Vežbe - Rast i proizvodnost šuma 2023

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Na bazi premera dela sastojine crnog bora u Lipovici, površine p= 0.1 ha i poznate starosti od 55 godina:

N	d[cm]	h [m]	ld [m]	r1 [m]	r2 [m]	r3 [m]	r4 [m]	B.P.	N	d[cm]	h [m]	ld [m]	r1 [m]	r2 [m]	r3 [m]	r4 [m]	B.P.
1	26.2							1	45	21							3
2	26.6							1	46	25.8			1.5	2	2.4	2	1
3	22.7			1.3	2.1	1.6	1.4	1	47	25.2	17.8	13.2	1.4	1.5	1.5	2.8	2
4	18.2							1	48	29.6	18.5	13.2	2.6	2.1	1.5	2.1	2
5	27.9			1.3	2.3	1.3	3.1	1	49	22.6	18.3	14.4					1
6	32.3	23.2		1.2	2.2	2	3	1	50	/							/
7	29	17.8						1	51	22.7							3
8	21.7							2	52	18.8							3
9	19.1							1	53	19.2							2
10	18.8							2	54	17.5							1
11	22.6							2	55	22.7							3
12	22.4							1	56	/							/
13	21.8							2	57	25.3							1
14	28							1	58	30.4	20.2	14.3	3.1	2	1.8	3.9	2
15	29.8	19	13.9	1.6	1.5	2.9	3.1	1	59	25.8			2.5	1.4	1.8	2.1	2
16	20.2							2	60	30.8	22.3	14.9	1.7	2.6	2.1	2.9	1
17	30.6	21.2		2.1	2.1	2.5	2.5	2	61	25.3	21	13.2	1.1	2.1	2.6	2.7	3
18	26.9	18.9	14.6	1.8	2	2.3	1.5	2	62	21.6			2.1	1.9	0.6	1.7	1
19	16.9	18.2	14.4					2	63	28.8	22.1	14.1	2.5	1.2	1.6	2.8	1
20	24.6			2.3	1.8	1.6	1.5	1	64	17.8							1
21	23							1	65	25.9	21.2	14.3					2
22	22							1	66	31.1	22.8	14.5	2.3	2.2	1.9	3.1	2
23	27.8			2	1.1	2.2	2	1	67	27.2	20	13.2	1.6	1.7	2.4	3.1	1
24	16.1							3	68	25.9	21	14.6					3
25	20.2							2	69	29.6	20.3	13.3					3
26	13							2	70	21.6	19.6	13.9					3
27	20.1							2	71	20.9	18.3	13.1					1
28	33.3	22.9		2.2	2.2	2.6	3.7	1	72	24.1	19.2	12.9	2	1.7	2.6	2	2
29	21.8							1	73	/							/
30	36.8	23.8						1	74	23.4	18	12					1
31	24.9	21.8	14.7					2	75	27.9	17.7						2
32	24.2	22.2	14.9					1	76	35.9	23.7						3
33	30.5	21.2	14.8					2	77	26.9							1
34	12	17.8	14.4					3	78	/							/
35	22.2							2	79	26.4							2
36	24.1							2	80	17.1							1
37	27.8							1	81	31.8	22.7		2.6	2.7	2.4	3.8	1
38	/							/	82	24							1
39	18.9	15.9	12.6					1	83	22.3							3
40	27.1			2.4	0.9	2.5	2.6	1	84	23							3
41	24.8			2.2	1.9	1.4	2.4	1	85	29.1	19.1		1.8	1.9	2.9	2.6	3
42	25.7			1.6	1.7	1.7	3.2	2	86	20.2	18.4	13.1					1
43	28.4	17.7		2.6	2.3	1.4	3	2	87	23.1			1.4	1.6	1.6	2.5	1
44	24.6			1.9	1.5	2.6	2.5	2	Suma	2003.9							

Odrediti i analizirati sledeće elemente rasta i sastojinske izgrađenosti i po potrebi ih grafički predstaviti:

1. Srednje prečnike i visine;

. Aritmetički srednji prečnik:

$$\bar{d} = \frac{1}{n} \sum_1^n d =$$

. Srednji prečnik po temeljnici:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50838.41}{n}} =$$

. Srednji prečnik dominantnih stabala po temeljnici:

$$D_g = \sqrt{\frac{\sum_1^n D_{20\%}^2}{n_{20\%}}} =$$

. Aritmetička srednja visina:

$$\bar{h} = \frac{1}{n} \sum_1^n h =$$

. Srednja visina dominantnih stabala:

$$H_g = \sqrt{\frac{\sum_1^n H_{20\%}^2}{n_{20\%}}} =$$

. Visinsku krivu i krivu visina početka krošnje:

redova 60x65 kolona

