

Zadatak 11 - No. 1 Petrovic David

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	26.1							1	45	20.9							3
2	26.8							1	46	26			1.1	1.6	2.4	2.1	1
3	22.8			1.5	2.2	1.9	1.6	1	47	25.7	18	13	1.6	1.9	1.5	2.7	2
4	17.8							1	48	29.6	18.6	13.3	2.8	2.2	1.6	1.9	2
5	27.9			1.9	2.1	1.2	3	1	49	22.7	18	14					1
6	32.6	23.4		1.3	2.3	2.1	3.3	1	50	/							/
7	29.2	18.2						1	51	22.6							3
8	21.8							2	52	18.8							3
9	19							1	53	18.9							2
10	18.6							2	54	17.6							1
11	22.5							2	55	22.9							3
12	22.2							1	56	/							/
13	21.6							2	57	25.5							1
14	27.8							1	58	30.3	20.3	14.4	2.8	1.6	1.6	3.7	2
15	30.1	18.9	14.2	1.8	1.3	2.8	3.3	1	59	26			2.4	1.8	1.7	2.2	2
16	20							2	60	30.9	22.4	14.3	1.7	2.5	2.1	3	1
17	30.6	21.2		1.9	2.2	2.6	2.5	2	61	25.2	21	13.1	1.2	1.8	2.2	2.4	3
18	26.9	19	14.5	1.8	2.3	1.9	1.2	2	62	21.6			2.3	1.5	0.8	1.4	1
19	17	18	14					2	63	28.7	22.1	14.1	2.6	1.7	1.8	3	1
20	24.5			2	1.8	1.8	1.7	1	64	17.9							1
21	23.1							1	65	26	21.5	14					2
22	22.1							1	66	30.9	22.9	15.1	2.2	2.4	1.9	3	2
23	27.6			2.2	1.2	2.5	2.1	1	67	26.9	20.2	13.1	1.8	1.9	2.2	3.1	1
24	15.8							3	68	25.9	21.2	14.7					3
25	20.2							2	69	29.3	20.1	12.9					3
26	13.4							2	70	21.7	19.8	13.8					3
27	20.2							2	71	20.9	18.2	12.9					1
28	33	22.9		1.8	2.2	2.5	3.3	1	72	24.1	19.5	12.9	2	1.6	2.7	1.9	2
29	21.6							1	73	/							/
30	37	23.7						1	74	23.8	18.2	12.1					1
31	24.8	21.8	14.6					2	75	28.1	17.5						2
32	24	22	15					1	76	35.9	23.7						3
33	30.4	21	15					2	77	26.6							1
34	12.4	17.6	14.1					3	78	/							/
35	22.4							2	79	26.2							2
36	24.1							2	80	16.8							1
37	27.9							1	81	31.9	22.5		2.7	3	1.9	3.7	1
38	/							/	82	24							1
39	19.3	16.3	12.4					1	83	22.4							3
40	27			2.5	0.9	2.2	2.7	1	84	22.9							3
41	24.9			1.8	1.5	1.5	2.5	1	85	29.1	19.1		1.8	2.2	3	2.8	3
42	26			1.6	1.5	1.8	3.5	2	86	19.9	18.8	13.1					1
43	28.4	17.7		2.6	2.2	1.1	3.1	2	87	23.2			1.5	1.4	1.9	2.3	1
44	24.7			1.7	1.8	2.3	2.3	2	Suma	2004.4							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50862.92}{n}} =$$

. 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

