

# Zadatak 11 - No. 21 Ralevic Ivan

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	26.5							1	46	26.2			1.2	2	2.4	2.1	1
3	22.8			1.7	2.4	1.5	1.7	1	47	25.2	18.1	12.9	1.5	1.5	1.3	2.6	2
4	17.9							1	48	29.2	18.6	13.6	3	2.4	1.9	1.9	2
5	27.5			1.6	2.1	1.5	3.2	1	49	22.6	18.2	14.2					1
6	32.3	23.2		1.4	2.4	2	3.2	1	50	/							/
7	29.2	18						1	51	22.6							3
8	21.6							2	52	18.9							3
9	18.9							1	53	19.2							2
10	18.9							2	54	17.9							1
11	22.5							2	55	22.6							3
12	22.4							1	56	/							/
13	21.8							2	57	25.1							1
14	27.8							1	58	30.6	20.3	14.4	2.8	1.5	1.3	4	2
15	29.8	19.1	14	1.7	1.3	2.8	3.4	1	59	26			2.4	1.7	1.9	2.1	2
16	20							2	60	30.9	22.3	14.7	1.8	2.5	2.2	2.9	1
17	30.4	20.7		1.8	1.9	2.2	2.4	2	61	24.7	21.1	13.2	1.2	1.8	2.5	2.5	3
18	27.3	18.8	14.9	1.7	2.4	2.1	1.7	2	62	21.4			2.4	1.7	1	1.8	1
19	16.9	18.2	14.2					2	63	28.8	21.9	13.9	2.1	1.5	1.7	3	1
20	24.7			2.2	1.6	1.8	1.5	1	64	17.9							1
21	22.8							1	65	26.2	21.1	14.2					2
22	22.1							1	66	30.7	23	15	2.3	2.2	1.8	3	2
23	27.9			2	1.2	2.2	2.1	1	67	27	19.8	13.1	1.4	1.5	2.4	3.2	1
24	16							3	68	26	21.2	14.2					3
25	19.9							2	69	29.6	19.9	13.3					3
26	13.2							2	70	21.6	19.6	14.1					3
27	20.2							2	71	20.5	18.5	12.8					1
28	33.1	23.1		2	2.1	2.7	3.2	1	72	24.4	19.4	13.1	2	1.7	2.6	1.7	2
29	21.8							1	73	/							/
30	36.9	23.6						1	74	23.5	18.2	12.1					1
31	24.9	21.6	14.4					2	75	28.4	17.7						2
32	24.3	22.1	15.1					1	76	35.9	23.6						3
33	30.4	21.4	14.9					2	77	26.8							1
34	12.1	17.8	14.4					3	78	/							/
35	22.6							2	79	26.3							2
36	24.5							2	80	16.8							1
37	27.9							1	81	31.8	22.6		2.9	2.9	2.1	4	1
38	/							/	82	23.8							1
39	19.2	16.1	12.6					1	83	22.5							3
40	27.3			2.5	0.7	2	2.9	1	84	23.2							3
41	24.6			2.2	1.9	1.1	2.6	1	85	29.1	19.1		1.6	2.1	3	2.7	3
42	25.9			1.7	2	1.6	3.3	2	86	19.8	18.4	13.4					1
43	28.5	17.8		2.7	2.5	1.5	3.2	2	87	23.2			1.8	1.6	1.6	2.3	1
44	25.2			1.8	1.7	2.5	2.6	2	Suma	2004.6							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50872.52}{n}} =$$

. 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

