

**Zadatak 11 - No. 10 Belcevic Nikola**

Vežbe - Rast i proizvodnost šuma 2023

markokazimirovic.shinyapps.io/Zadatak11/



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	25.9							1	45	21							3
2	26.6							1	46	26.1			1.4	2	2.4	2.3	1
3	22.8			1.7	2.4	1.7	1.4	1	47	25.4	17.9	12.9	1.3	1.6	1.3	2.5	2
4	17.8							1	48	29.7	18.8	13.2	2.7	2.3	1.7	2.1	2
5	27.5			1.6	2.4	1	3	1	49	22.8	18.4	14.1					1
6	32.4	23.6		1.5	2.3	2.2	3.4	1	50	/							/
7	29	18.1						1	51	22.8							3
8	21.4							2	52	18.9							3
9	19							1	53	19							2
10	18.9							2	54	17.6							1
11	22.6							2	55	22.7							3
12	22.5							1	56	/							/
13	21.8							2	57	25.6							1
14	27.9							1	58	30.2	20.2	14.1	2.9	1.6	1.2	3.9	2
15	30.2	18.9	14.3	1.5	1.4	2.8	3.1	1	59	26			2.5	1.5	2.1	2.2	2
16	20							2	60	30.4	22	14.6	1.6	2.5	2.4	3	1
17	30.4	21.1		2.1	1.8	2.4	2.5	2	61	24.9	21.1	12.9	1.3	1.9	2.4	2.5	3
18	27	19.2	14.5	1.6	2.6	1.8	1.9	2	62	21.3			2.4	1.6	0.8	1.8	1
19	17.2	17.8	14.5					2	63	28.6	22.2	14.2	2.4	1.3	1.7	2.9	1
20	24.7			2.1	1.7	1.7	1.8	1	64	18							1
21	22.8							1	65	26	21.4	14.2					2
22	22							1	66	30.9	22.9	15	2.4	2.4	2.1	3	2
23	27.7			2.2	1.3	2.4	2.2	1	67	27	19.9	13	1.5	1.7	2.2	3.1	1
24	16							3	68	26	21.2	14.3					3
25	20.3							2	69	29.4	20.1	13.4					3
26	13.1							2	70	21.8	19.5	14					3
27	20							2	71	20.6	18.1	12.8					1
28	33.1	22.9		2.1	2	2.6	3.4	1	72	24.3	19.4	13	2.1	1.7	2.8	1.8	2
29	21.8							1	73	/							/
30	36.9	23.6						1	74	23.6	18.2	12.3					1
31	24.8	21.7	14.6					2	75	28.3	17.7						2
32	24.2	22	15.1					1	76	35.7	23.4						3
33	30.3	21.6	15.1					2	77	26.7							1
34	12.3	17.5	14.6					3	78	/							/
35	22.2							2	79	26.4							2
36	24							2	80	16.6							1
37	27.7							1	81	31.9	22.3		2.8	2.8	2	4	1
38	/							/	82	23.9							1
39	19.4	16.2	12.5					1	83	22.2							3
40	27			2.5	0.8	2.7	2.9	1	84	22.9							3
41	25			2	1.9	1.5	2.3	1	85	29	18.9		2.1	1.9	3	2.5	3
42	25.9			1.6	1.6	2	3.3	2	86	19.6	18.7	13.3					1
43	28.4	17.9		2.5	2.4	1.4	3.3	2	87	23.3			1.4	1.5	1.7	2.6	1
44	24.6			1.5	1.7	2.4	2.7	2	Suma	2002.2							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50740.14}{n}} =$$

. 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

