

Zadatak 11 - No. 22 Stanojevic Aleksandar

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	26.2							1	45	20.8							3
2	26.5							1	46	26.2			1.1	2	2.5	2.1	1
3	22.9			1.2	2.4	1.9	1.4	1	47	25.3	17.9	13.1	1.3	1.3	1.5	2.9	2
4	18.2							1	48	29.6	18.6	13.1	2.6	2.1	1.9	2.3	2
5	27.7			1.7	1.8	1.2	2.9	1	49	22.7	18.1	14					1
6	32.4	23.3		1.3	2.5	2	3.3	1	50	/							/
7	29	18.3						1	51	22.8							3
8	21.6							2	52	18.7							3
9	19.1							1	53	18.8							2
10	19							2	54	17.7							1
11	22.6							2	55	22.8							3
12	22.4							1	56	/							/
13	21.7							2	57	25.2							1
14	27.7							1	58	30.2	20.7	14.5	2.6	1.8	1.6	3.8	2
15	29.9	18.9	13.9	1.6	1.7	2.7	3.1	1	59	26			2.4	1.7	1.9	2.1	2
16	20.1							2	60	30.6	22.2	14.4	1.9	2.4	2.2	2.9	1
17	30.6	21.3		2.1	2.1	2.5	2.3	2	61	25.2	21.4	13	1.2	1.9	2.5	2.4	3
18	26.9	18.9	14.9	1.7	2.3	2	1.6	2	62	21.3			2.5	1.6	0.8	1.9	1
19	17.2	18	14.2					2	63	29	22.3	14	2.4	1.3	1.8	2.7	1
20	24.3			1.9	1.7	1.8	1.7	1	64	17.9							1
21	22.9							1	65	26	21.4	14.3					2
22	22.1							1	66	30.7	23	14.9	2.2	2.3	2.1	3	2
23	27.6			1.8	1.2	2.1	2.1	1	67	26.9	20.2	13.1	1.6	1.4	2.4	3.3	1
24	15.8							3	68	25.9	21.1	14.5					3
25	19.9							2	69	29.4	20.5	13.2					3
26	13.2							2	70	21.7	19.6	14					3
27	20							2	71	20.5	18.1	12.8					1
28	33.2	22.9		2.2	1.9	2.7	3.6	1	72	24.2	19.2	12.9	1.6	1.5	2.8	2.2	2
29	21.9							1	73	/							/
30	37	23.9						1	74	23.6	18.2	12.1					1
31	24.8	21.5	14.3					2	75	28.1	17.4						2
32	24.2	21.7	14.9					1	76	35.6	23.5						3
33	30.1	21.1	15.2					2	77	26.6							1
34	12.3	17.7	14.6					3	78	/							/
35	22.4							2	79	26.4							2
36	24.1							2	80	16.7							1
37	28.1							1	81	31.8	22.4		2.9	2.8	2	3.5	1
38	/							/	82	23.8							1
39	19.1	16.2	12.7					1	83	22.4							3
40	26.6			2.6	0.8	2.3	2.8	1	84	22.9							3
41	24.7			1.7	1.7	1.4	2.6	1	85	28.9	18.9		1.7	2.1	3	2.5	3
42	25.7			1.7	1.8	2	3.5	2	86	19.7	18.8	13					1
43	28.3	18.2		2.6	2.5	1.4	2.9	2	87	23.4			1.5	1.3	1.5	2.4	1
44	24.5			1.8	1.6	2.6	2.5	2	Suma	2000.5							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50651.75}{n}} =$$

. 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

