

Zadatak 11 - No. 4 Matejevic Aleksa

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							1	45	21.3							3
2	26.5							1	46	26.1			1.1	2	2.7	2.5	1
3	23			1.5	2.6	1.8	1.3	1	47	25.5	17.9	12.9	1.4	1.7	1.5	2.8	2
4	17.9							1	48	29.5	18.7	13.3	2.9	2.6	1.4	2.1	2
5	27.7			1.8	2	1.1	2.9	1	49	22.7	18.1	14.4					1
6	32.3	23.2		1.4	2.5	2	3.3	1	50	/							/
7	28.8	18.2						1	51	22.9							3
8	21.7							2	52	18.8							3
9	19							1	53	19.4							2
10	18.7							2	54	17.8							1
11	22.6							2	55	22.6							3
12	22.5							1	56	/							/
13	21.7							2	57	25.4							1
14	27.9							1	58	30.5	20.4	14.5	2.9	1.9	1.5	3.5	2
15	30	19	13.9	1.8	1.2	2.7	3.4	1	59	25.7			2.6	1.4	1.7	2	2
16	20.4							2	60	30.9	22.1	14.3	1.8	2.4	2.1	2.7	1
17	30.5	21.3		2.3	2.2	2.6	2.3	2	61	25	21.5	13.1	1	1.7	2.4	2.4	3
18	27	18.7	14.6	1.6	2.3	2.2	1.5	2	62	21.3			2.7	1.6	0.8	1.9	1
19	17	18.5	14.6					2	63	28.8	22	13.7	2.3	1.3	1.6	3	1
20	24.4			2.1	1.8	1.7	1.8	1	64	17.7							1
21	22.6							1	65	26	21.5	14.3					2
22	22							1	66	30.8	22.5	14.7	2.3	2.4	1.9	2.8	2
23	27.9			2.2	1.3	2.8	1.9	1	67	26.9	20.2	13	1.5	1.7	2.3	2.9	1
24	15.9							3	68	25.6	20.9	14.3					3
25	20.3							2	69	29.6	20.4	12.8					3
26	13.2							2	70	21.6	19.6	14					3
27	19.8							2	71	20.5	18	12.9					1
28	33.3	23		2	2.3	2.6	3.5	1	72	24.1	19.2	13	1.9	2	2.8	1.8	2
29	21.9							1	73	/							/
30	36.8	24						1	74	23.7	18.1	12.2					1
31	24.7	21.4	14.1					2	75	28	17.6						2
32	24	22	15					1	76	35.9	23.3						3
33	30.5	21.4	15.1					2	77	26.5							1
34	12.2	17.5	14.2					3	78	/							/
35	22.5							2	79	25.9							2
36	23.9							2	80	17.1							1
37	27.8							1	81	32	22.5		3	2.8	2.1	3.6	1
38	/							/	82	23.8							1
39	19.2	16.2	12.6					1	83	22.4							3
40	27			2.5	0.8	2.2	2.7	1	84	23.2							3
41	25.1			2	1.7	1.4	2.3	1	85	29.4	19		2	2.1	3.2	2.9	3
42	25.8			1.7	1.8	2	3.6	2	86	19.7	18.7	12.9					1
43	28.2	17.5		2.8	2.1	1.4	2.9	2	87	23.5			1.8	1.3	1.9	2.1	1
44	24.6			1.6	1.6	2.3	2.7	2	Suma	2002.9							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50778.73}{n}} =$$

. 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

