

Zadatak 11 - No. 19 Pavlovic Lazar

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	26.1			1.1	1.9	2.6	2.4	1
3	22.7			1.6	2.4	1.6	1.7	1	47	25.4	18.1	12.9	1.3	1.7	1.1	2.7	2
4	18							1	48	29.5	18.5	13.4	2.6	2.4	1.5	2.2	2
5	27.5			1.8	2.4	1.2	3.1	1	49	22.6	18.4	14.2					1
6	32.2	23.3		1.3	2.2	2	3.1	1	50	/							/
7	29	18.1						1	51	22.7							3
8	21.7							2	52	19							3
9	19							1	53	19.2							2
10	18.7							2	54	17.8							1
11	22.4							2	55	22.7							3
12	22.5							1	56	/							/
13	22							2	57	25.1							1
14	27.8							1	58	30.2	20.6	14.7	2.8	1.6	1.4	4	2
15	29.7	19	13.9	1.8	1.6	2.8	3.5	1	59	25.9			2.3	1.6	2	2.2	2
16	20.1							2	60	30.7	22	14.5	1.8	2.9	2.2	3	1
17	30.5	21		1.9	2.1	2.4	2.6	2	61	25.1	20.9	13.3	1.1	1.9	2.5	2.5	3
18	27.3	19.3	14.5	1.6	2.1	1.8	1.6	2	62	21.4			2.5	1.7	0.9	1.9	1
19	16.7	18.3	14.4					2	63	28.9	22	13.7	2.4	1.4	1.9	2.6	1
20	24.4			2.1	2	1.5	1.7	1	64	18							1
21	23							1	65	26.2	21.5	14.6					2
22	21.9							1	66	30.9	22.6	14.9	2.2	1.9	1.9	3.2	2
23	27.3			2.1	1.1	2.5	2.2	1	67	27	20	13.1	1.7	2	2.2	3	1
24	16.1							3	68	25.8	20.8	14.2					3
25	20.1							2	69	29.8	20	13.1					3
26	13.3							2	70	21.6	19.5	13.7					3
27	19.9							2	71	20.5	18.1	13.1					1
28	33	23.1		1.9	2.2	2.8	3.5	1	72	24.2	19.2	13.2	2.2	1.8	2.7	2.2	2
29	21.6							1	73	/							/
30	37	23.7						1	74	23.7	18.1	12.4					1
31	24.8	21.7	14.4					2	75	28	17.8						2
32	24.4	21.8	15.1					1	76	35.8	23.7						3
33	30.5	21.4	14.9					2	77	26.6							1
34	12.1	17.4	14.5					3	78	/							/
35	22.4							2	79	26.2							2
36	24.3							2	80	16.4							1
37	27.7							1	81	31.8	22.5		3.1	2.6	2.1	3.9	1
38	/							/	82	24.2							1
39	18.7	16.3	12.8					1	83	22.8							3
40	27.2			2.4	1.1	2.3	2.6	1	84	23.1							3
41	25			1.9	1.9	1.1	2.6	1	85	29.2	18.9		1.7	1.9	2.9	2.8	3
42	25.8			1.8	1.8	1.8	3.4	2	86	19.8	18.4	12.9					1
43	28.4	18		2.7	2.2	1.4	3.2	2	87	23.3			1.1	1.4	1.7	2.3	1
44	24.8			1.9	1.5	2.4	2.8	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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50751.52}{n}} =$$

. 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

