

Zadatak 11 - No. 16 Kosanin Aleksa

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	26.3							1	45	20.9							3
2	26.5							1	46	26			1.3	1.8	2.6	2.1	1
3	22.6			1.7	2.1	1.9	1.5	1	47	25.4	17.9	12.9	1.7	1.5	1.2	2.7	2
4	18							1	48	29.4	18.6	13.4	2.5	2.3	1.5	2	2
5	27.8			1.7	2.3	1.1	3	1	49	22.4	18.3	14.4					1
6	32.3	23		1.5	2.4	2.1	3.3	1	50	/							/
7	28.7	18.1						1	51	22.8							3
8	21.4							2	52	18.7							3
9	18.7							1	53	19.3							2
10	18.7							2	54	17.6							1
11	22.6							2	55	22.7							3
12	22.4							1	56	/							/
13	21.9							2	57	25.6							1
14	28							1	58	30.5	20.4	14.3	2.9	2	1.4	3.8	2
15	29.9	19.3	13.9	1.6	1.4	2.8	3.4	1	59	25.9			2.7	1.4	1.9	2.2	2
16	20.1							2	60	30.5	22.3	14.5	2	2.5	2	2.9	1
17	30.6	20.9		2	1.8	2.6	2.4	2	61	25.1	21.5	12.9	1.1	1.5	2.6	2.7	3
18	26.9	18.8	14.5	1.5	2.4	1.8	1.7	2	62	21.6			2.4	1.7	0.8	1.8	1
19	16.9	18.2	14.6					2	63	29	22	14	2.2	1.3	2	2.9	1
20	24.6			2.1	1.5	2	1.6	1	64	17.9							1
21	22.7							1	65	26.2	21.5	14.4					2
22	22.1							1	66	30.8	22.6	14.5	2	2.2	2.3	3	2
23	27.6			2	1.2	2.3	2.2	1	67	27	19.9	13.2	1.7	1.5	2.2	3	1
24	15.9							3	68	25.8	21.2	14.4					3
25	20.1							2	69	29.8	20.1	13.4					3
26	13.4							2	70	21.7	19.4	13.8					3
27	20							2	71	20.5	17.9	13					1
28	33.3	23.1		1.9	2.2	2.7	3.5	1	72	24.4	19.5	13.2	2	1.9	2.7	1.8	2
29	22							1	73	/							/
30	36.8	23.6						1	74	23.7	18.1	12					1
31	24.9	21.4	14.4					2	75	27.8	17.8						2
32	24.2	22.1	14.8					1	76	36	23.6						3
33	30.6	21.2	15					2	77	26.6							1
34	12	17.8	14.2					3	78	/							/
35	22.2							2	79	26.3							2
36	24.3							2	80	16.7							1
37	27.7							1	81	31.9	22.8		3.1	2.8	2	3.5	1
38	/							/	82	24.1							1
39	19.3	16.2	12.7					1	83	22.4							3
40	27.3			2.6	1	2.4	2.7	1	84	23.3							3
41	24.8			1.7	1.8	1.5	2.4	1	85	28.7	19		2.1	2	2.9	2.8	3
42	25.5			1.7	1.7	1.9	3.3	2	86	20	18.6	13.1					1
43	28.3	17.8		2.6	2.4	1.5	3	2	87	23.2			1.6	1.5	1.6	2.4	1
44	24.9			1.7	1.4	2.6	2.7	2	Suma	2003							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50794.06}{n}} =$$

. 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

