

Zadatak 11 - No. 30 Milicevic Nikola

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	26.2							1	45	21							3
2	26.5							1	46	26.1			1.4	1.7	2.4	2.4	1
3	22.6			1.5	2.3	1.9	1.3	1	47	25.1	18	13.2	1.6	1.5	1.4	2.7	2
4	17.9							1	48	29.6	18.5	13.3	2.8	2.2	1.8	2.2	2
5	27.8			1.7	2.1	1.3	3	1	49	22.4	18.3	14.3					1
6	32.2	23.3		1.6	2.3	1.9	3.2	1	50	/							/
7	28.9	18.1						1	51	22.5							3
8	21.4							2	52	18.8							3
9	18.9							1	53	19.1							2
10	18.6							2	54	17.7							1
11	22.7							2	55	22.7							3
12	22.6							1	56	/							/
13	21.8							2	57	25.3							1
14	28							1	58	30.5	20.4	14.1	3.2	1.7	1.3	3.8	2
15	30.2	19.1	14.2	1.7	1.4	3	3	1	59	26			2.2	1.9	1.4	2	2
16	20.4							2	60	31	22.3	15	1.7	2.5	2.1	2.5	1
17	30.4	21.2		1.8	1.9	2.5	2.4	2	61	25.3	21.4	13.1	1.3	2	2.2	2.6	3
18	27.3	19.1	14.6	1.9	2.2	2.1	1.7	2	62	21.6			2.3	1.7	0.9	1.8	1
19	16.8	18.6	14.6					2	63	29	22.1	14.1	2.4	1.4	1.8	2.9	1
20	24.5			1.9	1.8	1.8	1.6	1	64	18							1
21	22.9							1	65	26.1	21.5	14.6					2
22	21.9							1	66	31	22.8	14.6	2.1	2	1.8	3.1	2
23	27.9			2	1.1	2.3	2	1	67	26.8	20	13	1.8	1.8	2.3	3.2	1
24	16.1							3	68	25.7	21.5	14.6					3
25	20.2							2	69	29.4	19.9	13					3
26	13.4							2	70	21.6	19.9	13.9					3
27	19.9							2	71	20.8	18.4	12.9					1
28	33	23.2		2	2.1	2.7	3.4	1	72	24.2	19.3	13.4	1.9	2	2.5	1.8	2
29	21.4							1	73	/							/
30	37	23.7						1	74	23.7	18.1	12.2					1
31	25	21.5	14.1					2	75	27.9	17.5						2
32	24.1	22	14.9					1	76	35.9	23.5						3
33	30.5	21.5	15					2	77	26.7							1
34	12.2	17.8	14.4					3	78	/							/
35	22							2	79	26.2							2
36	24.4							2	80	16.9							1
37	27.6							1	81	31.8	22.8		3.1	2.6	2.3	3.9	1
38	/							/	82	23.9							1
39	19.5	16.3	12.6					1	83	22.5							3
40	26.9			2.4	1	2.5	2.9	1	84	22.7							3
41	24.6			2	1.8	1.6	2.4	1	85	29.1	18.9		2.3	2	3	2.7	3
42	25.7			1.5	1.8	1.8	3.4	2	86	19.9	18.6	13.3					1
43	28.4	17.6		2.5	2.5	1.5	3.3	2	87	22.9			1.5	1.3	1.6	2.4	1
44	24.6			1.7	1.4	2.2	2.5	2	Suma	2002.3							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50757.19}{n}} =$$

. 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

