

Zadatak 11 - No. 5 Belcevic Ruza

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	26.1							1	45	21							3
2	26.6							1	46	25.9			1.3	1.8	2.2	2.2	1
3	22.8			1.3	2.3	1.6	1.6	1	47	25.5	18.1	13.3	1.6	1.7	1.2	2.7	2
4	18.2							1	48	29.6	19	13.3	2.7	2.2	1.6	2.2	2
5	28			1.6	2.1	1.1	3.3	1	49	22.6	17.9	14.1					1
6	32.5	23.1		1.2	2.4	2	3.4	1	50	/							/
7	28.9	18.1						1	51	22.6							3
8	21.6							2	52	18.9							3
9	19.1							1	53	18.8							2
10	18.7							2	54	17.6							1
11	22.5							2	55	23							3
12	22.4							1	56	/							/
13	21.6							2	57	25.6							1
14	27.9							1	58	30.2	20.3	14.3	3	1.9	1.4	3.8	2
15	30.1	19.1	14	1.8	1.4	3.1	3.1	1	59	25.9			2.4	1.6	1.9	2.4	2
16	20.3							2	60	30.7	21.9	14.7	1.6	2.5	2.2	3	1
17	30.4	20.9		1.9	2.2	2.5	2.3	2	61	25.2	21.2	13	1.1	1.8	2	2.6	3
18	27.3	19	14.6	1.7	2.3	2.1	1.6	2	62	21.2			2.5	1.6	0.6	1.4	1
19	17.1	18.2	14.4					2	63	28.7	22.1	14.2	2.3	1.4	1.8	3	1
20	24.5			1.9	1.6	1.8	1.8	1	64	17.7							1
21	22.8							1	65	25.9	21.5	14.7					2
22	22.1							1	66	31	23	15	2.2	2.1	2	3	2
23	27.8			2.1	1.1	2	2.2	1	67	27.1	19.8	13	1.5	1.9	2	3.1	1
24	16.1							3	68	26	21	14.3					3
25	19.9							2	69	29.8	20.2	13.1					3
26	13.4							2	70	21.8	19.4	14					3
27	20							2	71	20.7	18.3	12.9					1
28	33.3	22.8		1.8	2	2.6	3.5	1	72	24.6	19	13	1.8	1.7	2.8	2	2
29	21.7							1	73	/							/
30	37.1	23.9						1	74	23.8	18	12.3					1
31	24.8	21.5	14.3					2	75	27.9	17.4						2
32	24.5	21.7	14.7					1	76	36	23.7						3
33	30.2	21.3	15					2	77	26.7							1
34	12.4	17.5	14.4					3	78	/							/
35	22.4							2	79	26.3							2
36	24.2							2	80	16.6							1
37	27.8							1	81	32	22.5		2.7	2.8	1.9	3.7	1
38	/							/	82	24							1
39	19	16.2	12.6					1	83	22.3							3
40	26.9			2.1	0.9	2.3	2.6	1	84	23							3
41	25.1			1.6	1.9	1.5	2.4	1	85	29	19.1		1.8	1.7	3.1	2.6	3
42	25.8			1.6	1.9	1.8	3.3	2	86	20.1	18.9	13.3					1
43	28.2	17.9		2.5	2.4	1.6	3	2	87	23.4			1.4	1.5	1.8	2.5	1
44	24.8			1.6	1.5	2.3	2.3	2	Suma	2005.6							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50923.8}{n}} =$$

. 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

