

Zadatak 11 - No. 14 Jankovic Marko

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	26			1.2	1.7	2.7	2.1	1
3	23			1.6	2.4	2	1.4	1	47	25.6	18.1	13.2	1.6	1.8	1.1	2.9	2
4	17.8							1	48	29.4	18.6	13.3	2.6	2.1	1.4	2.2	2
5	28			1.7	2.4	1.3	3	1	49	22.6	18.1	14.2					1
6	32.4	23.4		1.5	2.4	2	3.3	1	50	/							/
7	29	18.2						1	51	22.8							3
8	21.7							2	52	18.8							3
9	18.9							1	53	19							2
10	18.8							2	54	18							1
11	22.7							2	55	22.7							3
12	22.5							1	56	/							/
13	21.9							2	57	25.5							1
14	27.8							1	58	30.3	20.6	14.4	3	1.8	1.4	3.8	2
15	29.8	19	13.8	1.5	1.3	2.9	2.9	1	59	25.8			2.2	1.7	1.8	2.2	2
16	20.1							2	60	30.9	22.2	14.9	1.7	2.5	2.1	2.7	1
17	30.5	21.2		1.8	1.6	2.5	2.7	2	61	24.8	21.1	13.1	1.4	2	2.1	2.5	3
18	27	18.9	14.4	1.8	2.3	1.8	1.8	2	62	21.4			2.1	1.7	0.7	1.7	1
19	16.8	18.3	14.6					2	63	28.9	22.2	14.2	2.4	1.3	1.7	3.1	1
20	24.6			2	1.7	1.8	1.6	1	64	18							1
21	23							1	65	26	21.3	14.4					2
22	22.2							1	66	30.7	22.6	14.8	2.3	2.2	1.8	3.2	2
23	27.7			2.2	1.3	2.4	2.2	1	67	27	20	13.1	1.7	1.9	2.1	3.1	1
24	15.8							3	68	25.7	21	14.5					3
25	20							2	69	29.7	20.2	13.2					3
26	13.1							2	70	21.8	19.6	14					3
27	19.8							2	71	20.7	18.1	13.2					1
28	33.2	22.8		1.8	1.9	3	3.6	1	72	24.2	19.2	13.2	2.3	1.7	2.8	1.7	2
29	21.8							1	73	/							/
30	36.8	23.8						1	74	23.6	18.1	12.2					1
31	24.8	21.9	14.2					2	75	27.7	17.7						2
32	24.2	21.9	14.9					1	76	36	23.8						3
33	30.3	21	15.1					2	77	26.6							1
34	12.2	17.6	14.5					3	78	/							/
35	22.4							2	79	26.2							2
36	24							2	80	16.9							1
37	27.9							1	81	31.6	22.7		2.9	2.6	1.7	3.8	1
38	/							/	82	23.9							1
39	19.2	16.4	12.6					1	83	22.6							3
40	27.1			2.8	1	2.3	2.5	1	84	22.8							3
41	24.9			2.1	2	1.2	2.5	1	85	29.2	18.9		1.8	2.1	3.1	2.7	3
42	25.9			1.6	1.7	1.7	3.3	2	86	20.3	18.9	13.1					1
43	28.7	18		2.7	2.3	1.2	3	2	87	23.2			1.5	1.5	1.8	2.1	1
44	24.8			1.7	1.6	2.7	2.7	2	Suma	2003.7							

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:

$$d_g = \sqrt{\frac{\sum_1^n d^2}{n}} = \sqrt{\frac{\sum_1^n 50818.81}{n}} =$$

. 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

