Spolehlivost (Opakovatelnost)

Kolektiv autoru

Podstata PH

$$PH = r^2 . D$$

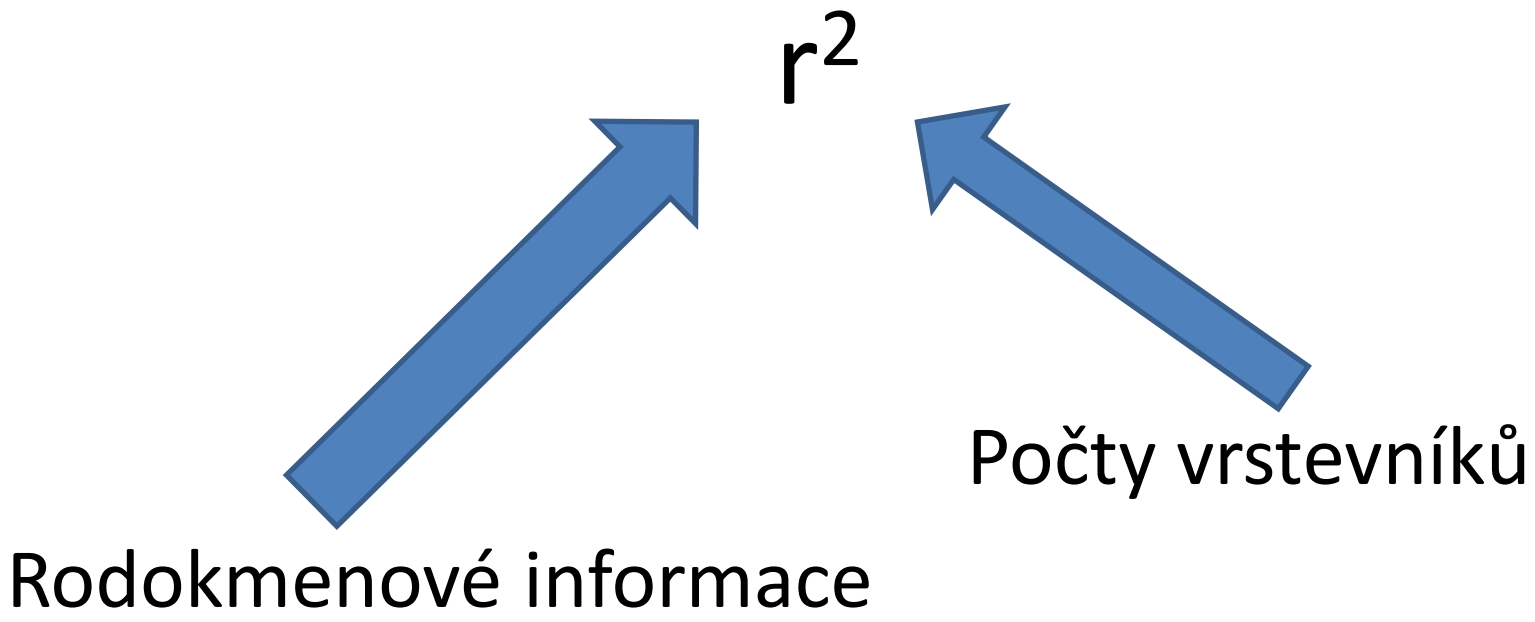
r^2 spolehlivost odhadu plemenné hodnoty

D odchylka užitkovosti od průměru skupiny ve srovnatelných podmínkách

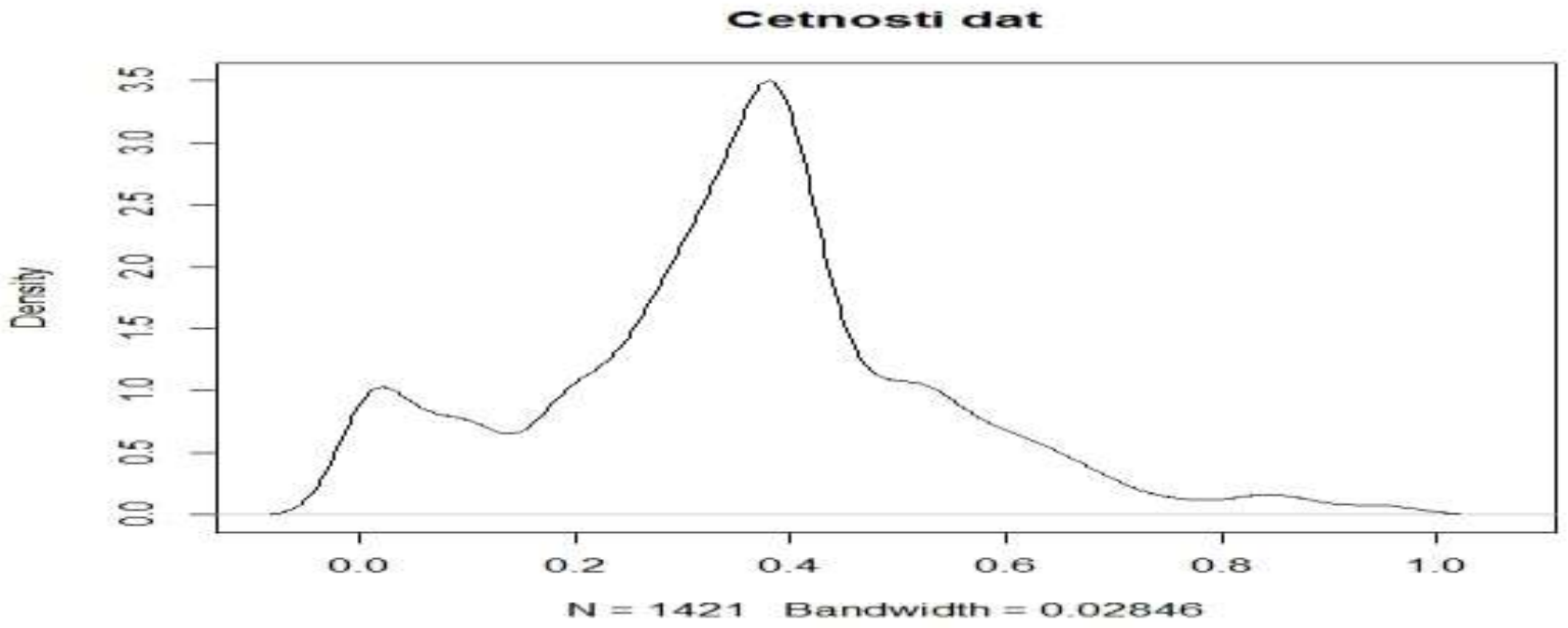
Z toho vyplývá

- Nízká hodnota koeficientu spolehlivosti => plemenná hodnota jedince blízko průměru

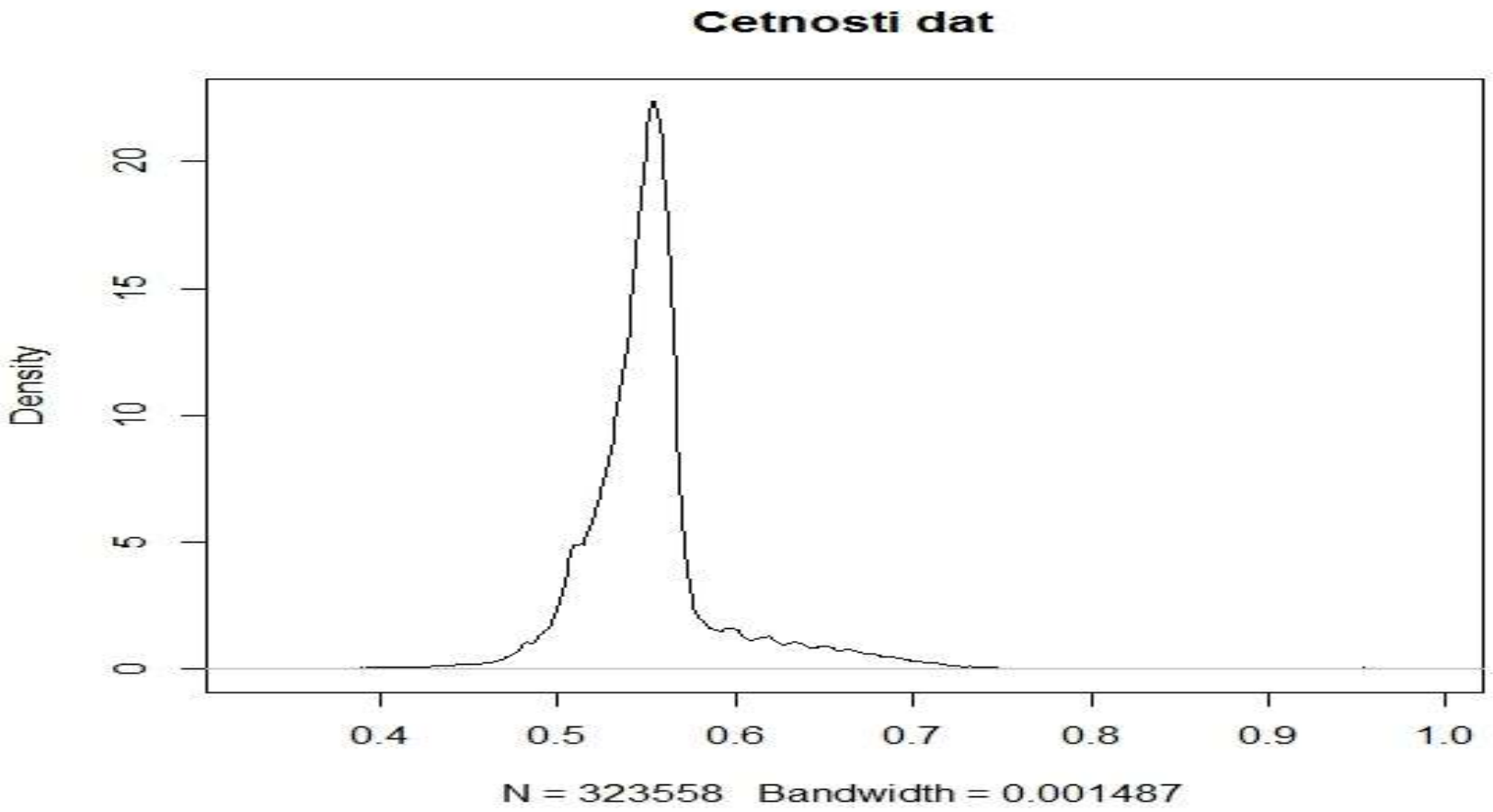
Co ovlivňuje koeficient spolehlivosti



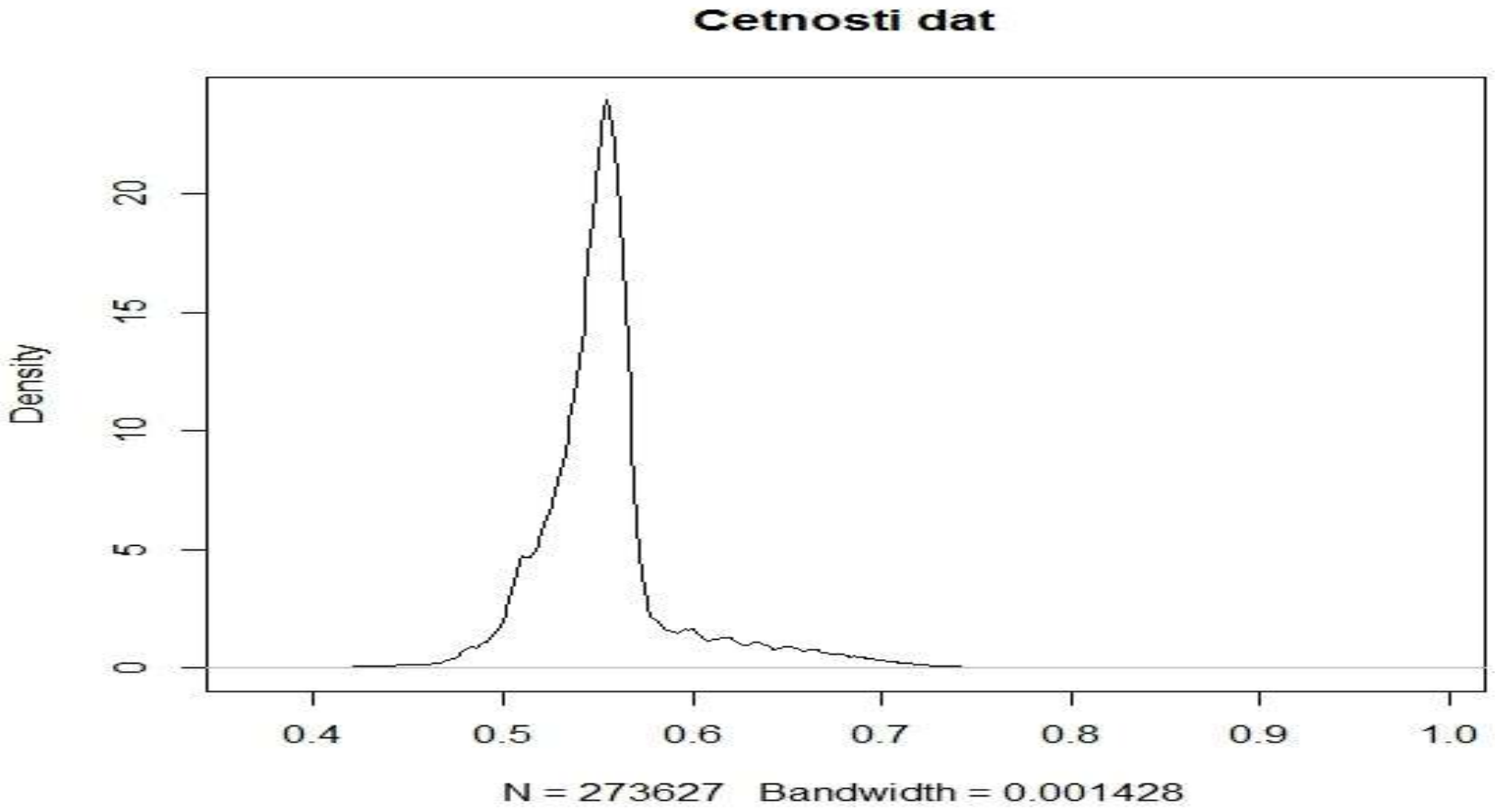
SRO = 1

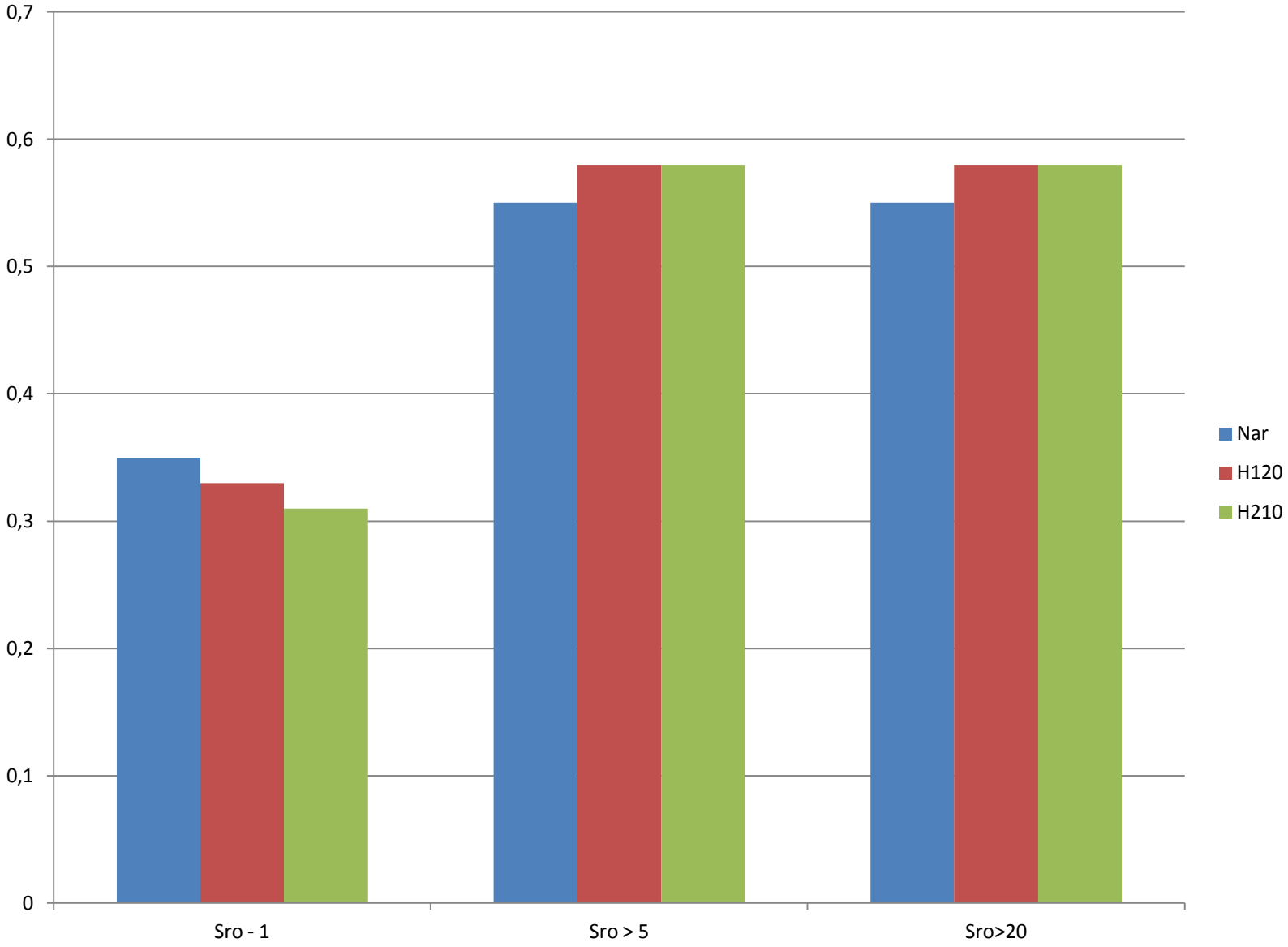

Cetnosti dat
Density
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0.0
0.2
0.4
0.6
0.8
1.0
N = 1421 Bandwidth = 0.02846

SRO > 5


Cetnosti dat
Density
0
5
10
15
20
0.4
0.5
0.6
0.7
0.8
0.9
1.0
N = 323558 Bandwidth = 0.001487

SRO > 20

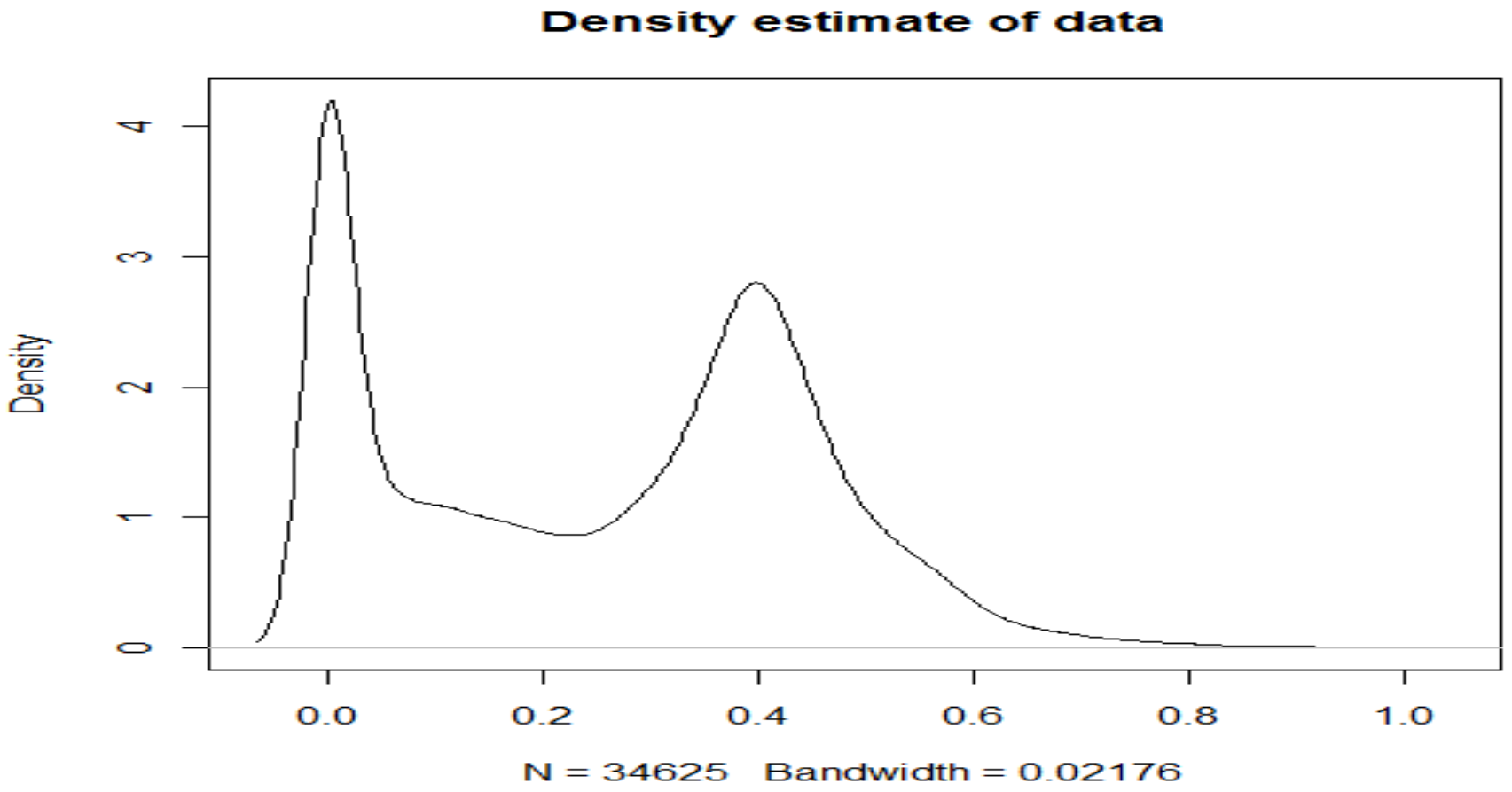

Cetnosti dat
Density
0
5
10
15
20
0.4
0.5
0.6
0.7
0.8
0.9
1.0
N = 273627 Bandwidth = 0.001428


0,7
0,6
0,5
0,4
0,3
0,2
0,1
0
Sro - 1
Sro > 5
Sro>20
Nar
H120
H210

Data odchovny plemenných býků

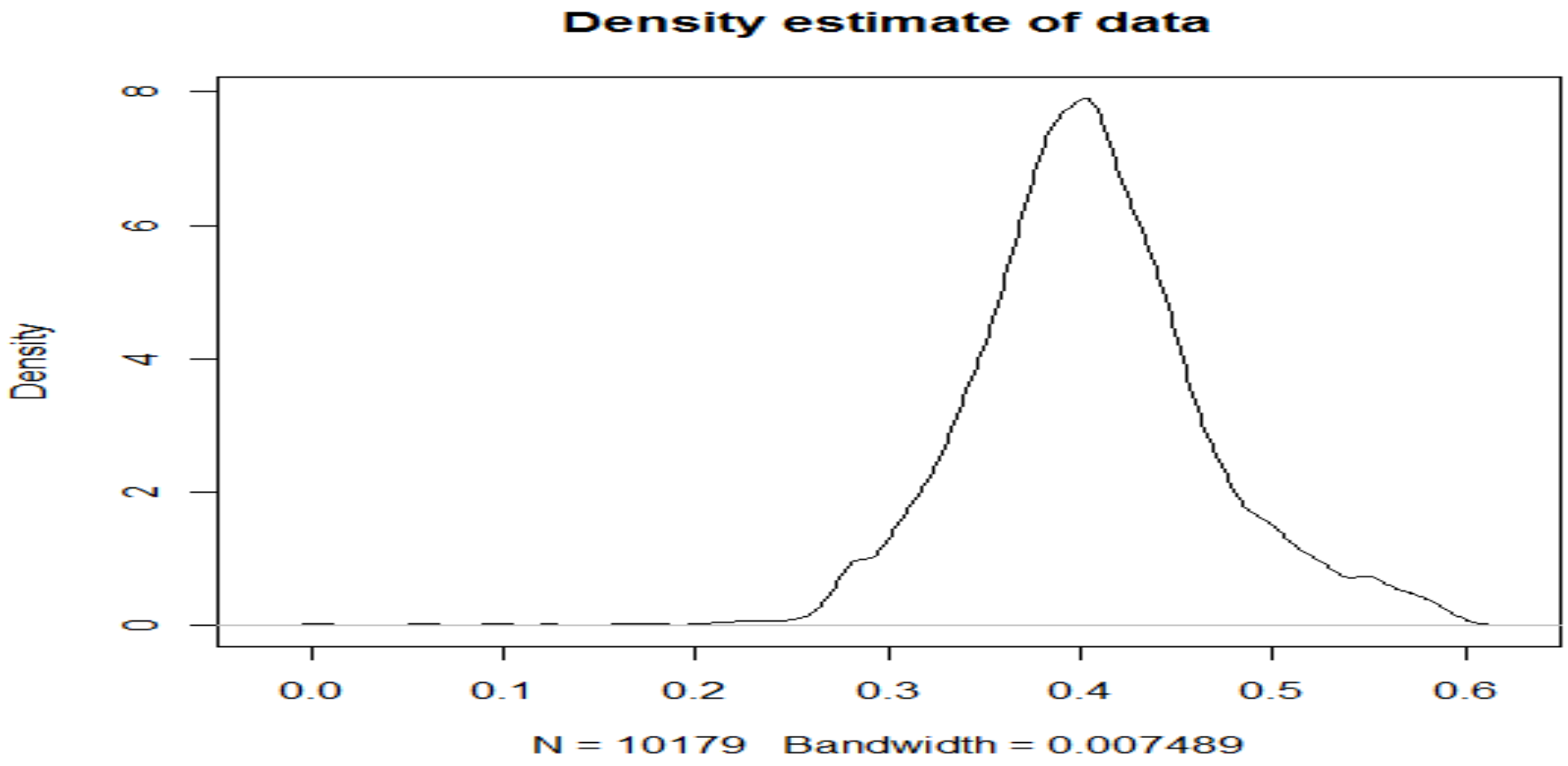
Celá databáze bez omezení

Variable	N	Mean	Std Dev	Minimum	Maximum
R	34625	0.2575565	0.1955929	0	0.9807000
fr_j	10951	1.0000000	0	1.0000000	1.0000000
fr_o	7298	3.5978350	8.3663599	1.0000000	199.0000000
fr_m	17152	1.5118354	1.2357189	1.0000000	27.000000



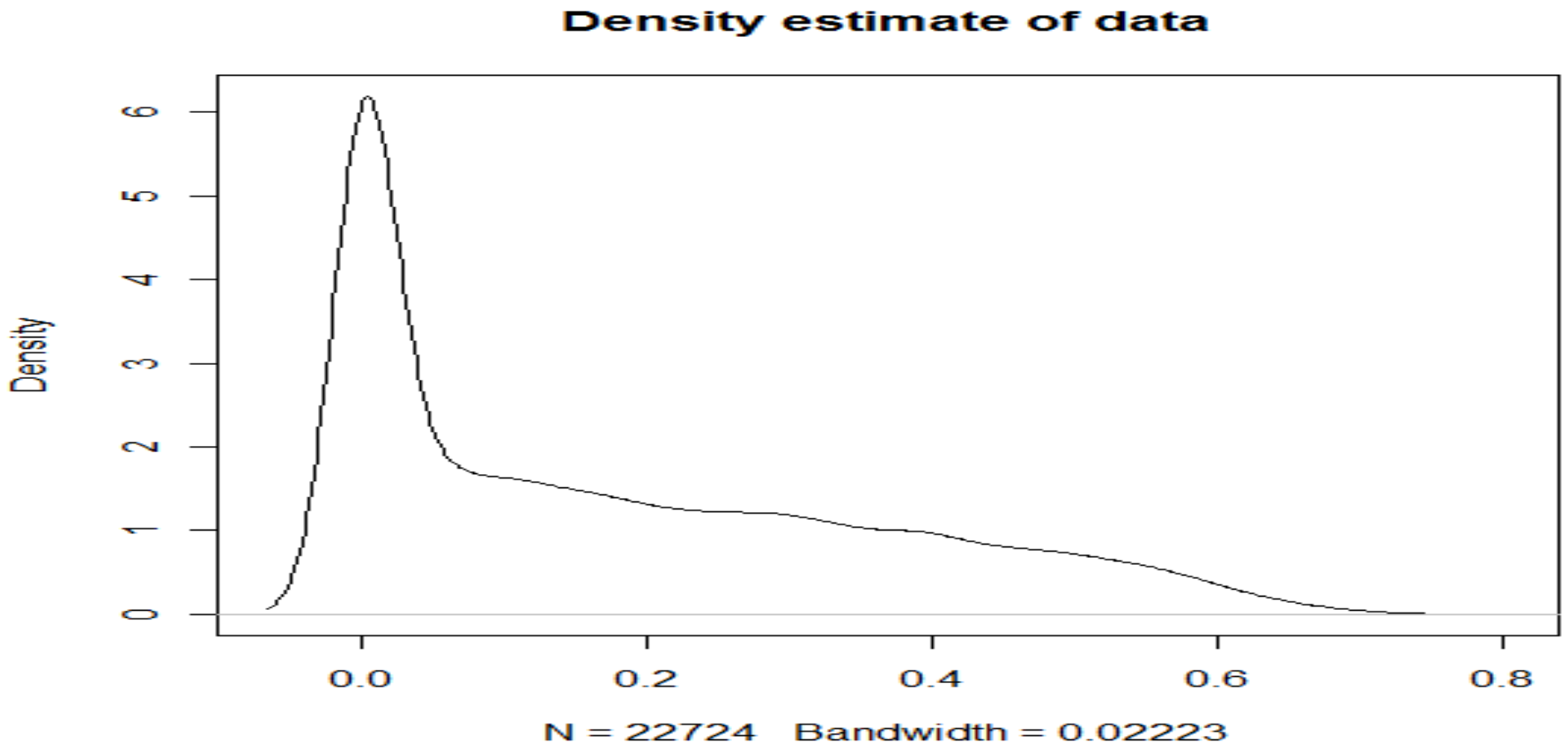
Jedinci s vlastní užitkovostí

Variable	N	Mean	Std Dev	Minimum	Maximum
R	10179	0.4048348	0.0608336	0	0.6016000
fr_j	10179	1.0000000	0	1.0000000	1.0000000
fr_sro	10179	71.1334119	43.7622249	1.0000000	159.0000000



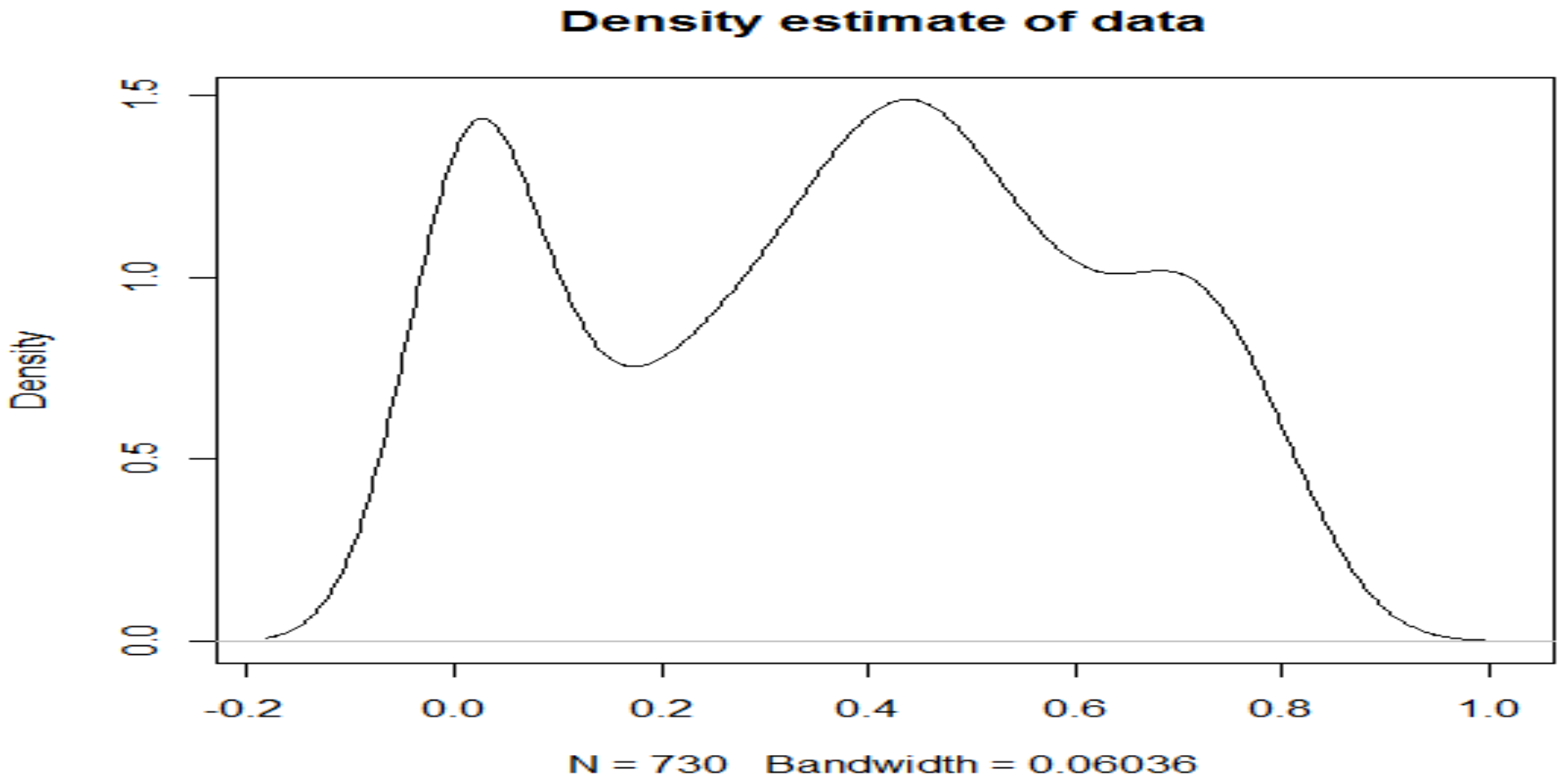
Jedinci bez užitkovosti s potomky do 5

Variable	N	Mean	Std Dev	Minimum	Maximum
r^2	22724	0.1766145	0.1836926	0	0.7387000
fr_o	5863	1.4862698	0.9245362	1.0000000	5.0000000
fr_m	16865	1.4067003	0.8535228	1.0000000	5.0000000



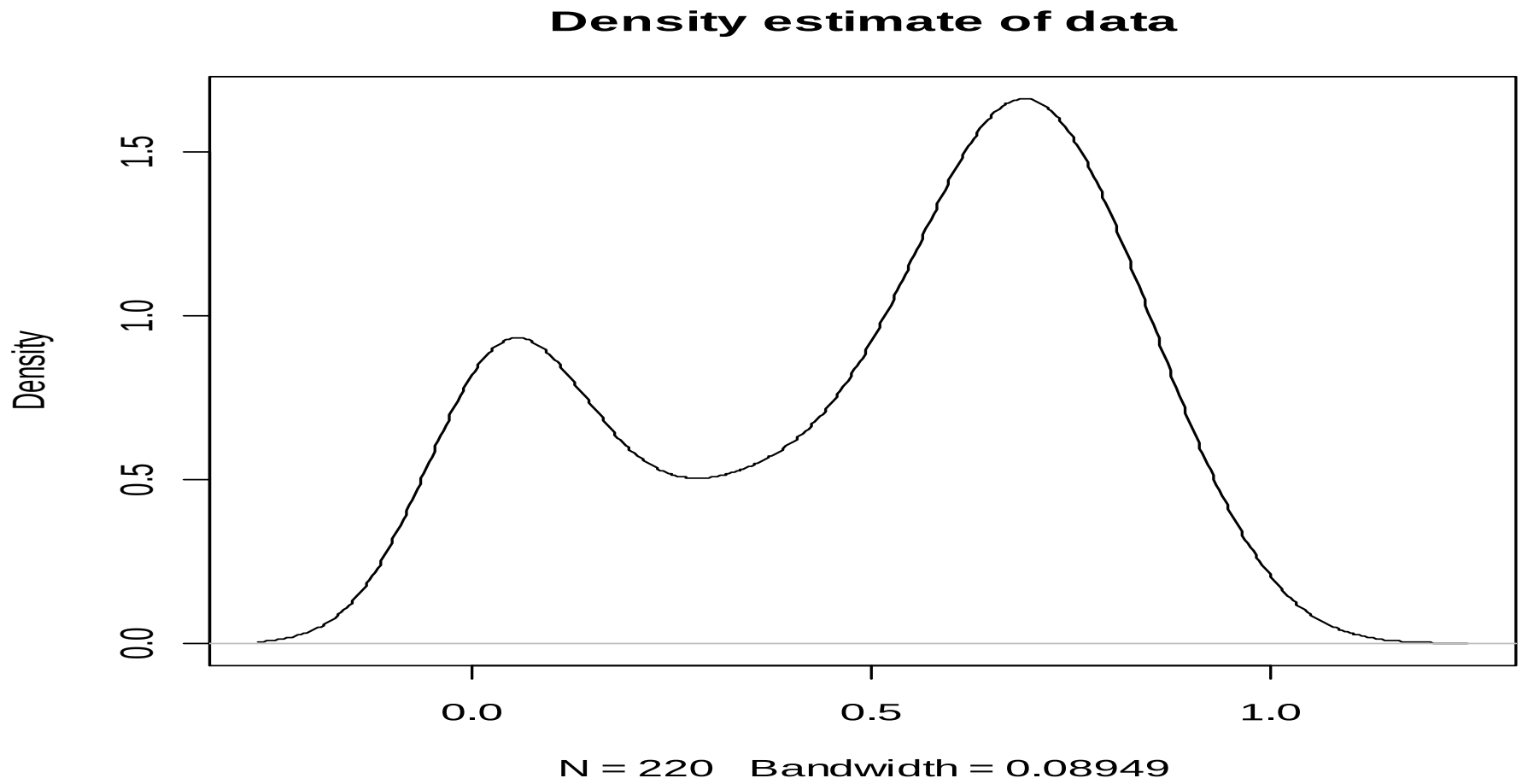
Jedinci bez užitkovosti s potomky 5 - 15

Variable	N	Mean	Std Dev	Minimum	Maximum
R	730	0.3698660	0.2507053	0	0.8338000
fr_o	452	8.9070796	2.6595839	6.0000000	15.0000000
fr_m	278	7.2482014	1.8044011	6.0000000	14.0000000



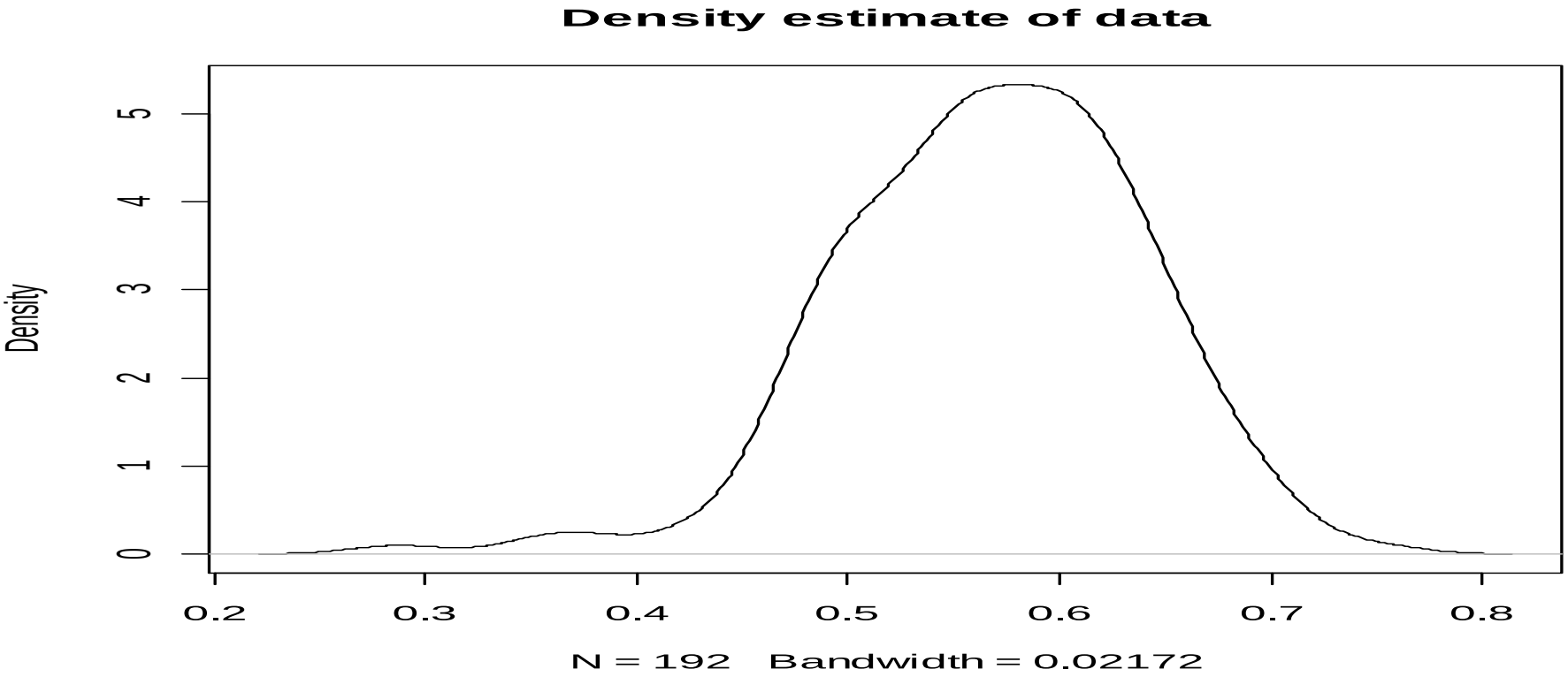
Jedinci bez užitkovosti s potomky víc jak 15

Variable	N	Mean	Std Dev	Minimum	Maximum
R	220	0.4947136	0.2924165	0	0.9807000
fr_o	211	36.4360190	27.5236596	16.0000000	199.0000000
fr_m	9	21.3333333	4.0620192	16.0000000	27.0000000



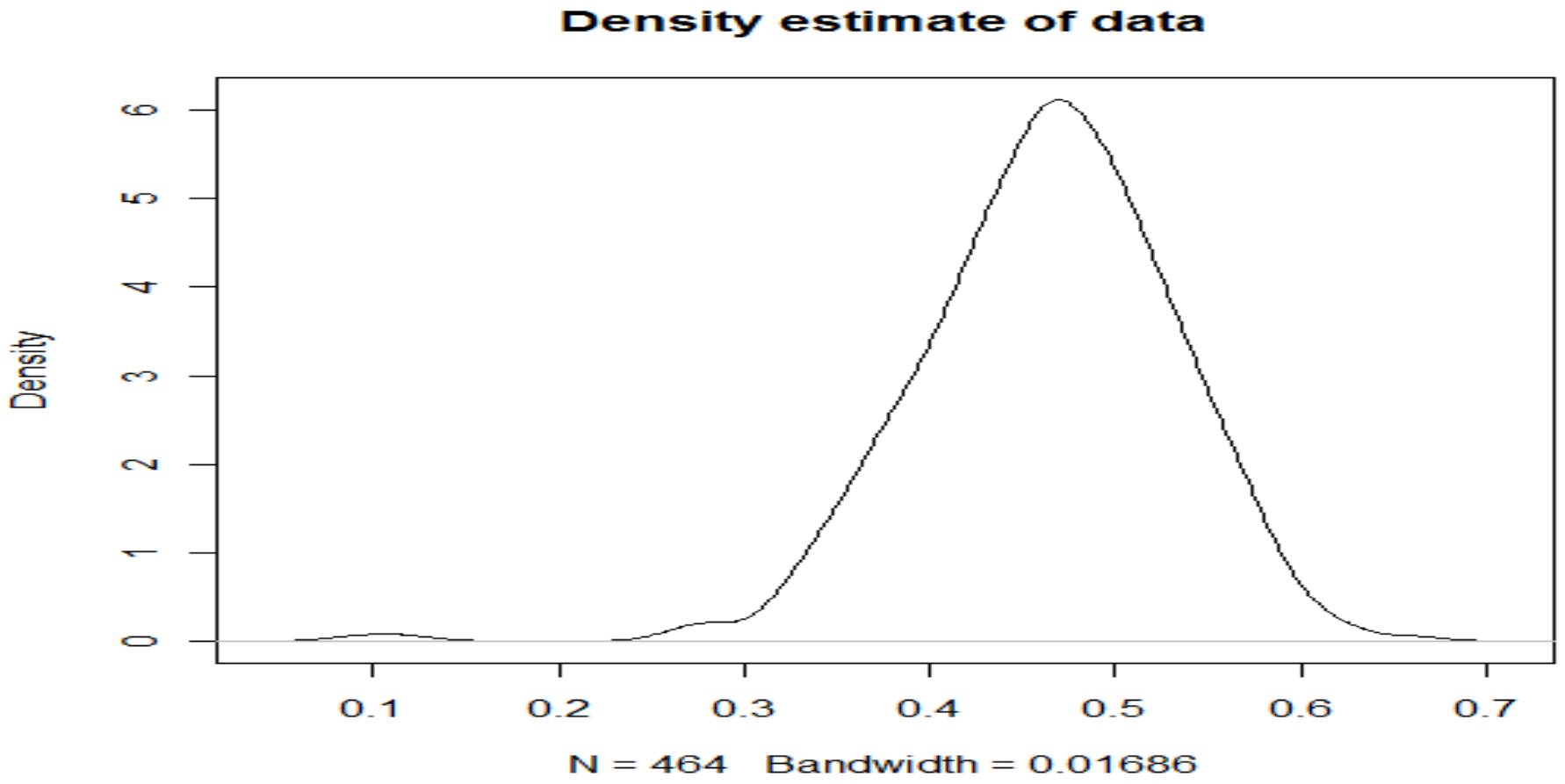
Jedinci s užitkovostí s potomky - vše

Variable	N	Mean	Std Dev	Minimum	Maximum
R	772	0.5244219	0.1104842	0.0934000	0.8861000
fr_j	772	1.0000000	0	1.0000000	1.0000000
fr_o	772	7.5505181	9.1817666	1.0000000	80.0000000
fr_sro	772	66.6917098	43.8112125	1.0000000	159.0000000



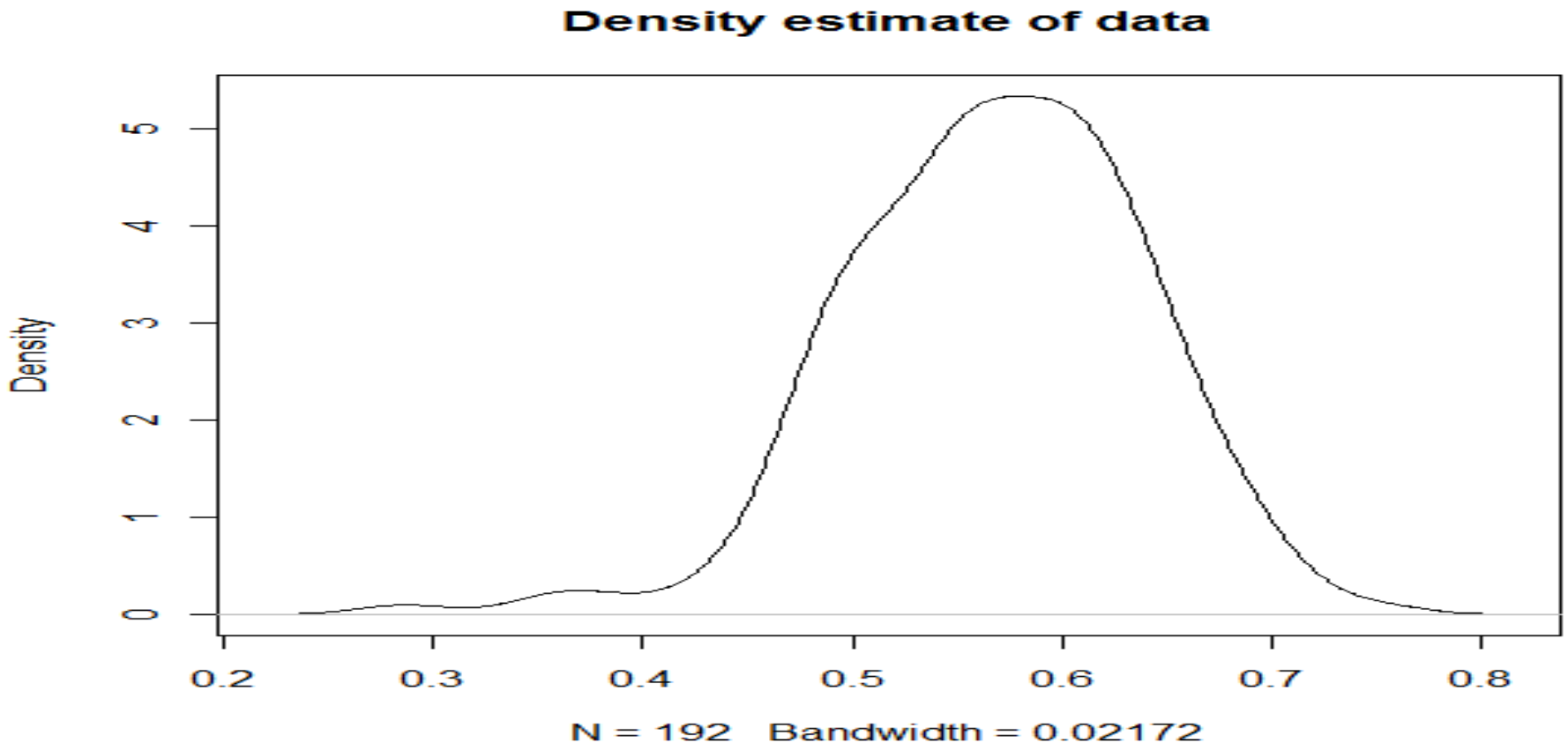
Jedinci s užitkovostí s potomky do 5

Variable	N	Mean	Std Dev	Minimum	Maximum
R	464	0.4630399	0.0688028	0.0934000	0.6597000
fr_o	464	2.3426724	1.3537526	1.0000000	5.0000000
fr_sro	464	67.3685345	44.0461662	1.0000000	159.0000000



Jedinci užitkovostí s potomky 5 - 15

Variable	N	Mean	Std Dev	Minimum	Maximum
R	192	0.5681068	0.0703394	0.2869000	0.7487000
fr_o	192	9.4218750	2.8031659	6.0000000	15.0000000
fr_sro	192	65.5312500	45.4593664	1.0000000	159.0000000



Jedinci s užitkovostí s potomky víc jak 15

Variable	N	Mean	Std Dev	Minimum	Maximum
r^2	116	0.6976440	0.0768586	0.3662000	0.8861000
fr_o	116	25.2844828	10.5959845	16.0000000	80.0000000
fr_m	0	.	.	.	.
fr_sro	116	65.9051724	40.2567798	2.0000000	159.0000000