

Prostorska in krajinska arheologija-Vaje

Opisna statistika





2



**Table
(Tabela)**

**Fields, Attributes, Columns
(Polja, Atributi, Stolpci)**



Števílo	Opeka	Keramika	Kamni	Teža
53	34	13	5	2347

**Record,
Row
(Zapis)**

A black arrow pointing from the text 'Record, Row (Zapis)' up to the data row of the table.

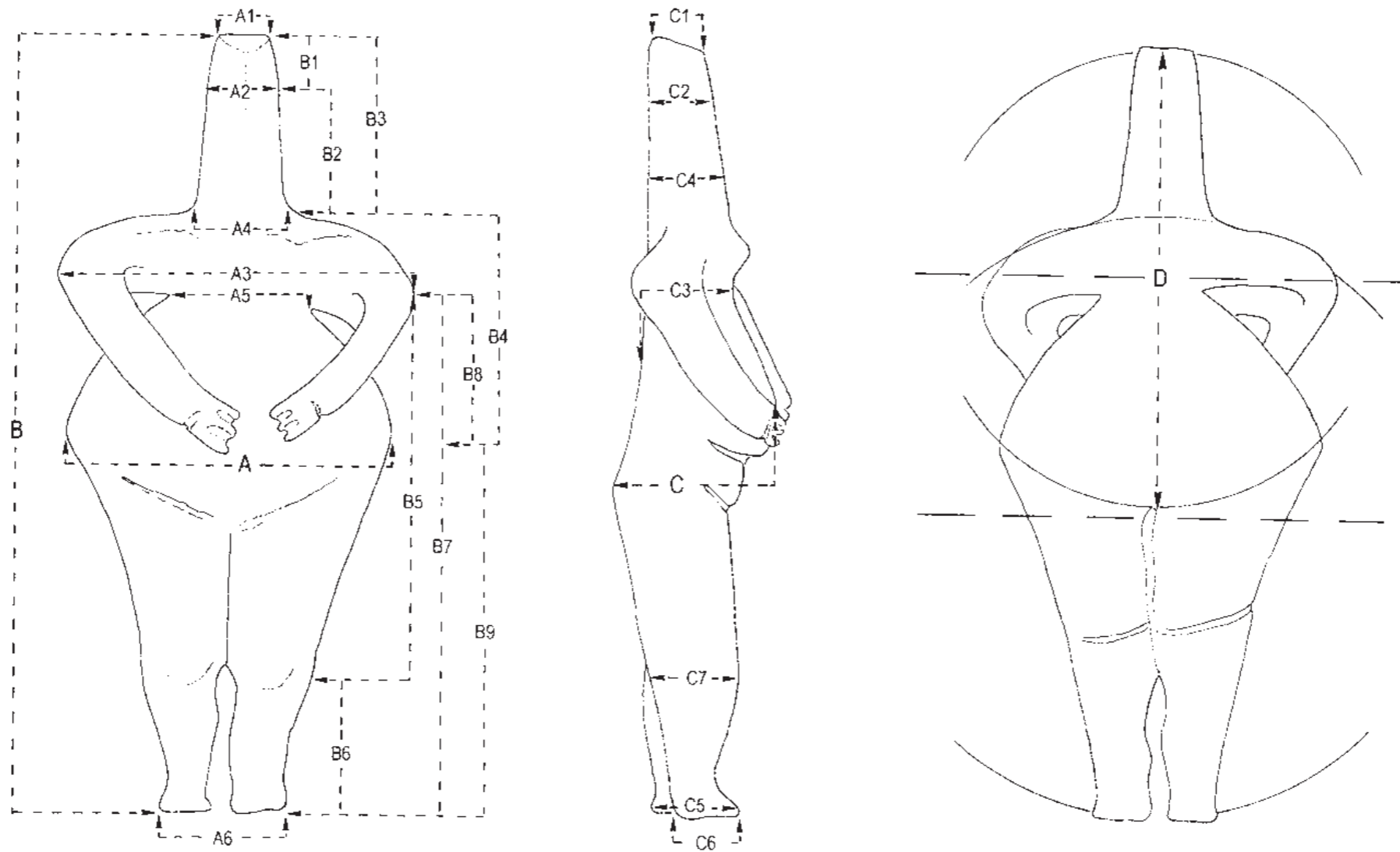
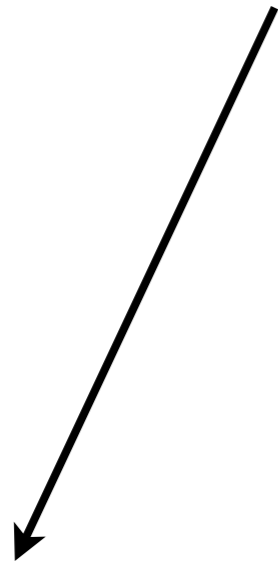


Figure 1.2 Method proposed by Ivan Vajsov for analysing Hamangia figurines (after Vajsov 1992b)

Kakšne vrednosti?

Numerične : Kategorične

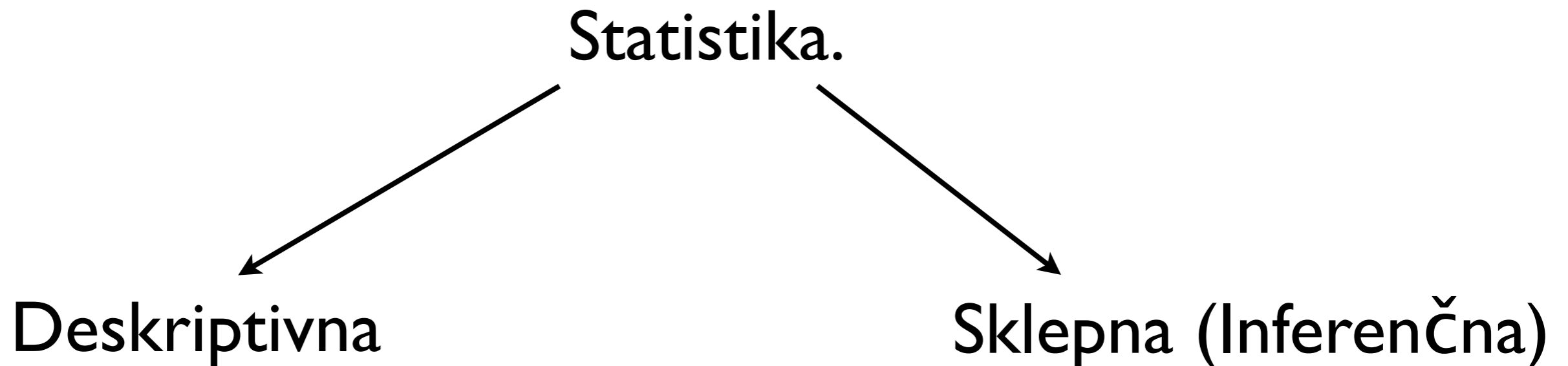
1, 2.5 12 : da/ne, rdeča/bela/rumena



Diskretne : Kontinuirane

1,2,3,4,5 : 2.56, 3.87,1298

Kaj naredimo s številkami?



Deskriptivna statistika

x: 26 30 54 25 70 52 51 26 67 18 21 29 17 12 18 35 30 36 36
21 24 18 10 43 28 15 26 27 14 29 19 29 31 41 20 44 42 26
19 16 39 28 21 39 29 20 21 24 17 13 15 15 16 28



Spremenljivka

“Povprečje”

Mediana

Modus

Aritmetična sredina

Mediana

$\{1, 2, 5, 7, 4, 3, 2\}$ $\{1, 2, 2, 3, 4, 5, 7\} \rightarrow 3$

$\{1, 2, 5, 7, 4, 3, 2, 1\} \rightarrow \{1, 1, 2, 2, 3, 4, 5, 7\} \rightarrow 2.5$

Kvartili

Q_1 spodnjih 25% podatkov, 25. percentil

Q_2 spodnjih 50% podatkov, 50. percentil, mediana

Q_3 spodnjih 75% podatkov, 75. percentil

{6, 47, 49, 15, 42, 41, 7, 39, 43, 40, 36}

{6, 7, 15, 36, 39, 40, 41, 42, 43, 47, 49}

$$Q_1 = 15$$

$$Q_2 = 40$$

$$Q_3 = 43$$

Modus

$\{1, 2, 5, 7, 4, 3, 2\}$ $\{1, 2, 2, 3, 4, 5, 7\} \rightarrow 2$

$\{1, 2, 5, 7, 4, 3, 2, 1\} \rightarrow \{1, 1, 2, 2, 3, 4, 5, 7\} \rightarrow 1, 2$

bimodalna

Aritmetična sredina (\bar{x})

$$\bar{x} = \frac{1}{n} \sum x_i$$

$$\{1, 2, 5, 7, 4, 3, 2, 1\} \longrightarrow 3.125$$

Mediana

\bar{x}

{1,2,5,7,4,3,2,1,1}

3

3.125

{1,2,5,7,4,3,2,1,100}

3

13.888888

Variabilnost

Obseg

Varianca

Standardna deviacija

Relativna varianca

Obseg

$\{1, 2, 5, 7, 4, 3, 2, 1, 1\} \rightarrow \{1, 1, 1, 2, 2, 3, 4, 5, 7\} \rightarrow 1, 7$

Medkvartilni obseg (IQR)

$$Q_1 = 1$$

$$Q_3 = 4.5$$

$$\text{IQR} = Q_3 - Q_1 = 3.5$$

Varianca s^2

$$s^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2$$

$\{1, 2, 5, 7, 4, 3, 2, 1, 1\}$ \longrightarrow 4.41

Standarda deviacija

s, σ


$$s = \sqrt{s^2}$$

$\{1, 2, 5, 7, 4, 3, 2, 1, 1\} \longrightarrow 2.101$

Histogram

26 30 54 25 70 52 51 26 67 18 21 29 17 12
18 35 30 36 36 21 24 18 10 43 28 15 26 27 14
29 19 29 31 41 20 44 42 26 19 16 39 28 21 39
29 20 21 24 17 13 15 15 16 28

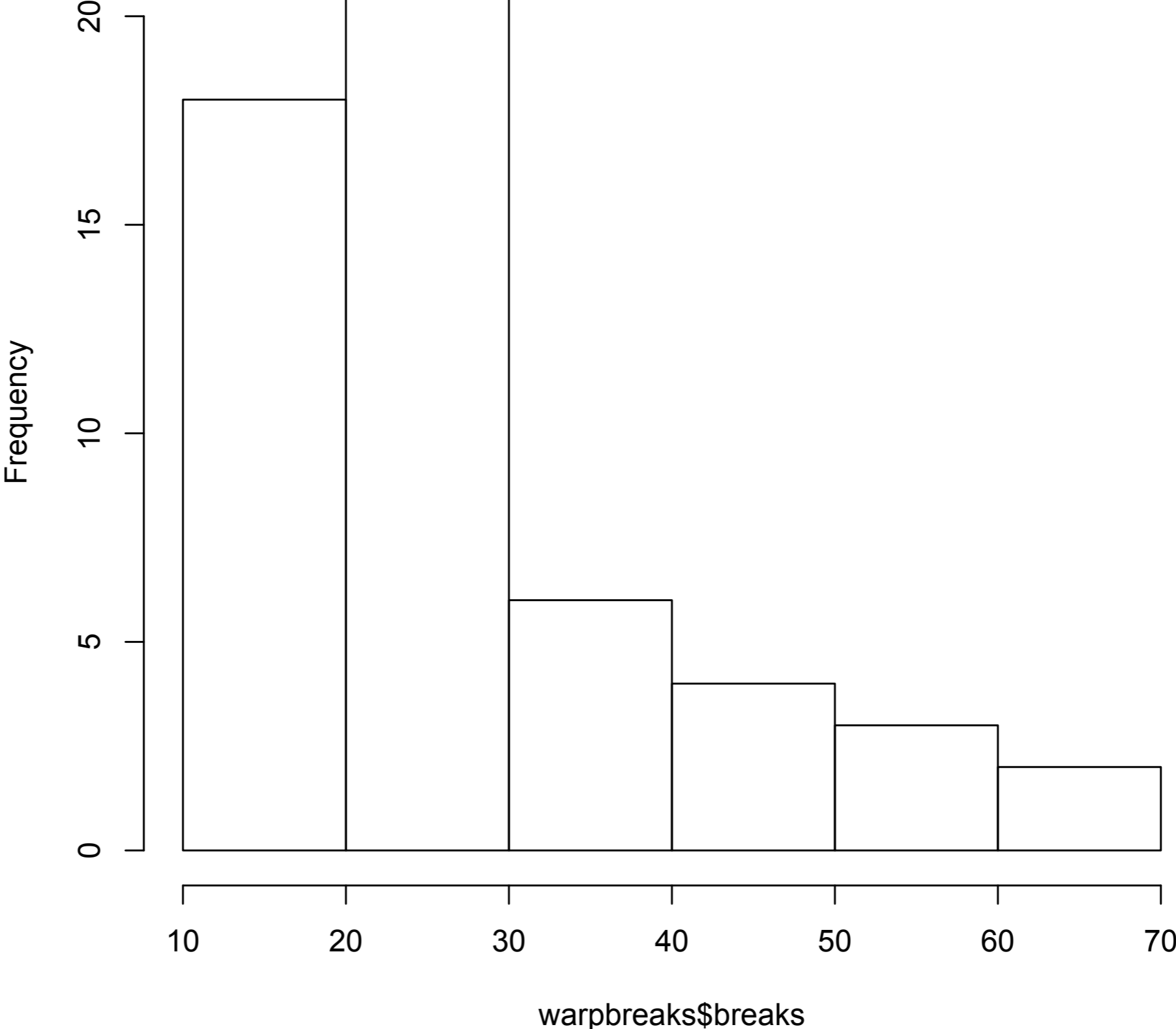
“Predal” (Bin) Frekvenca



10-20: 13
20-30: 19
30-40: 6
40-50: 4
50-60: 3
60-70: 2

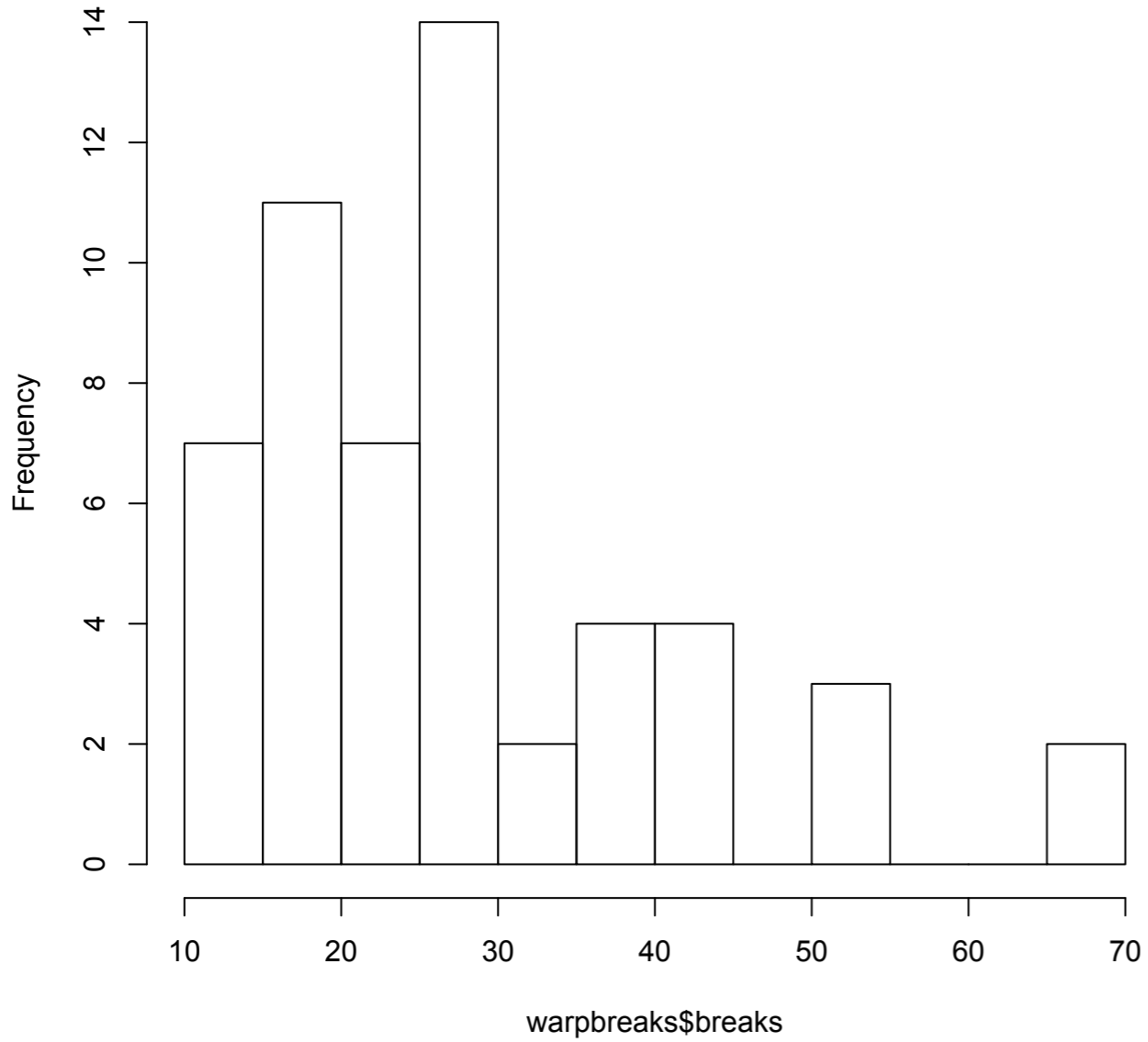
Histogram of warpbreaks\$breaks

Histogram

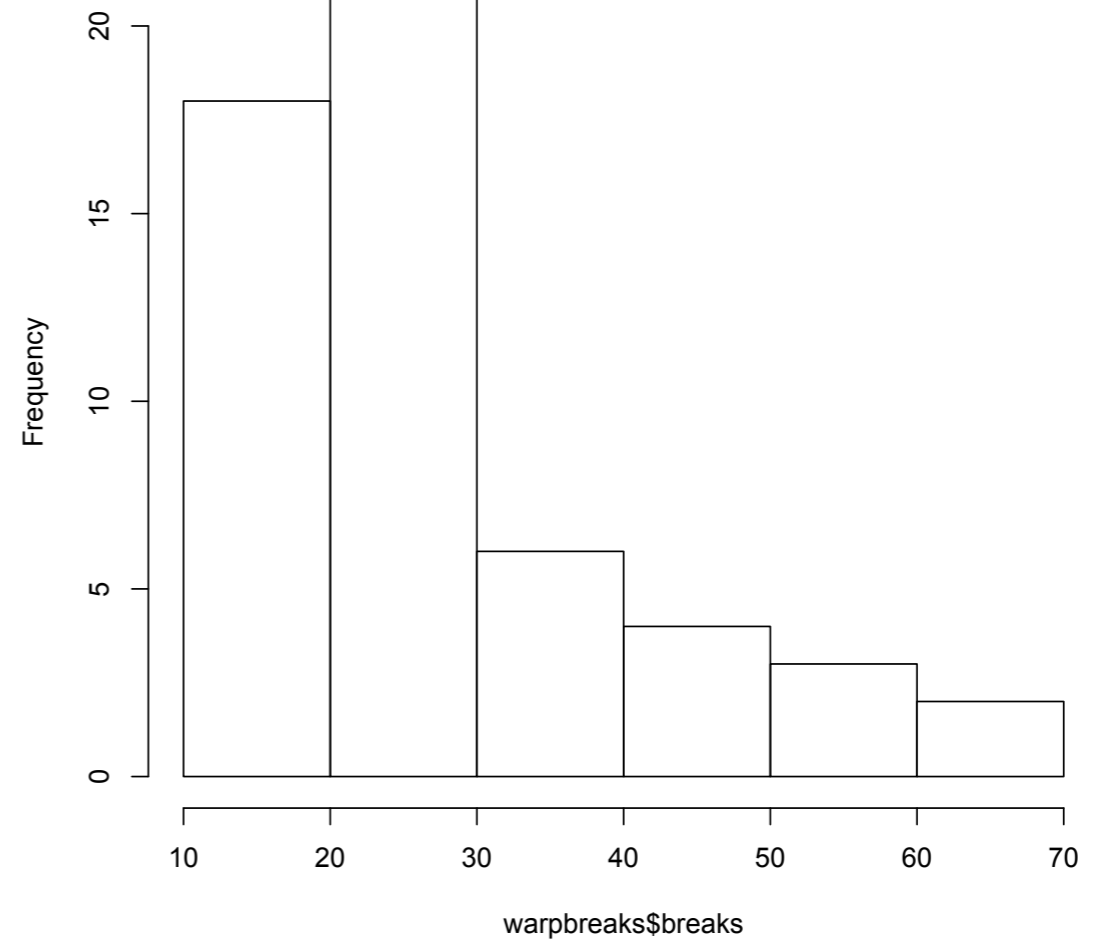


Histogram

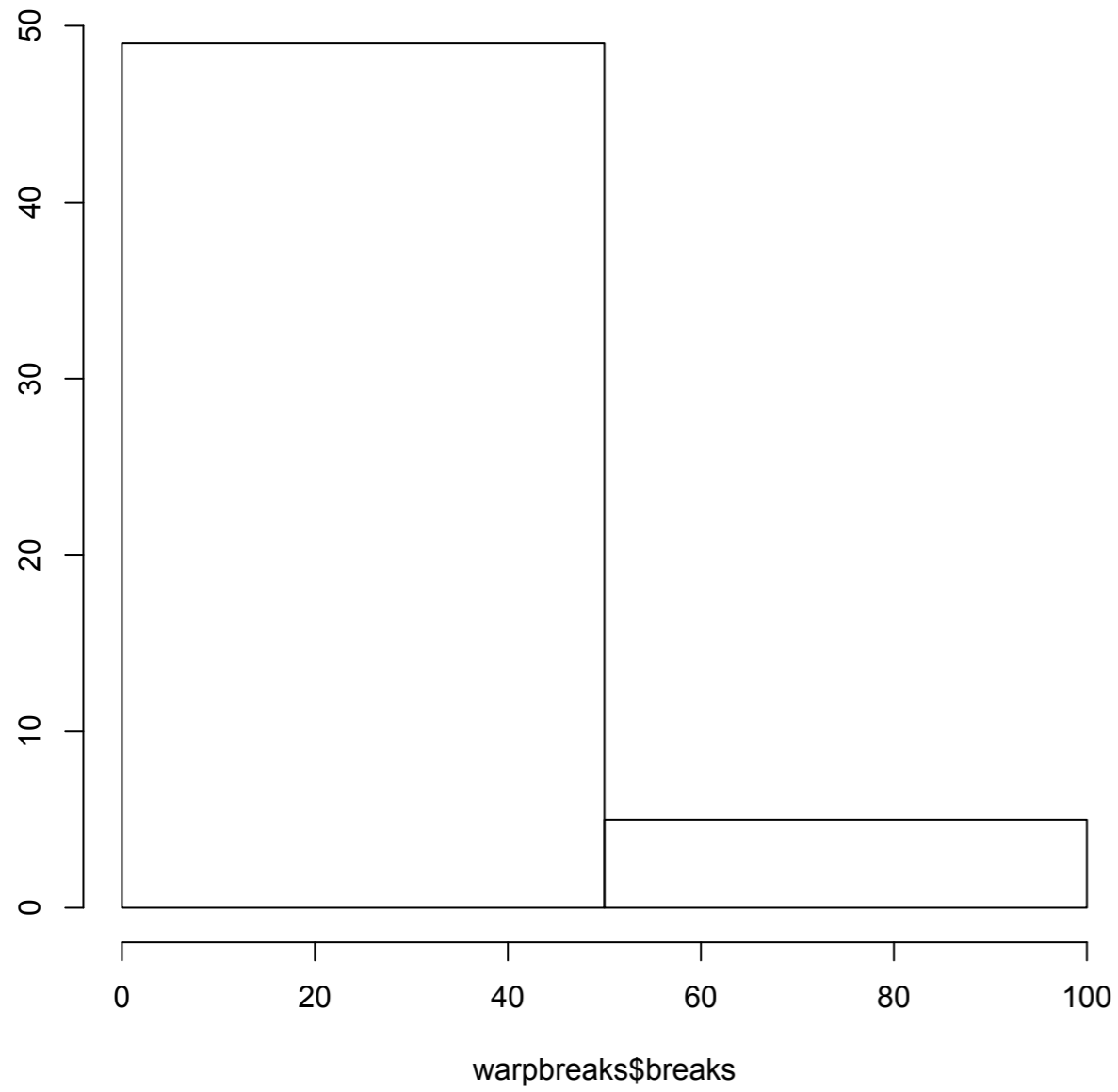
Histogram of warpbreaks\$breaks



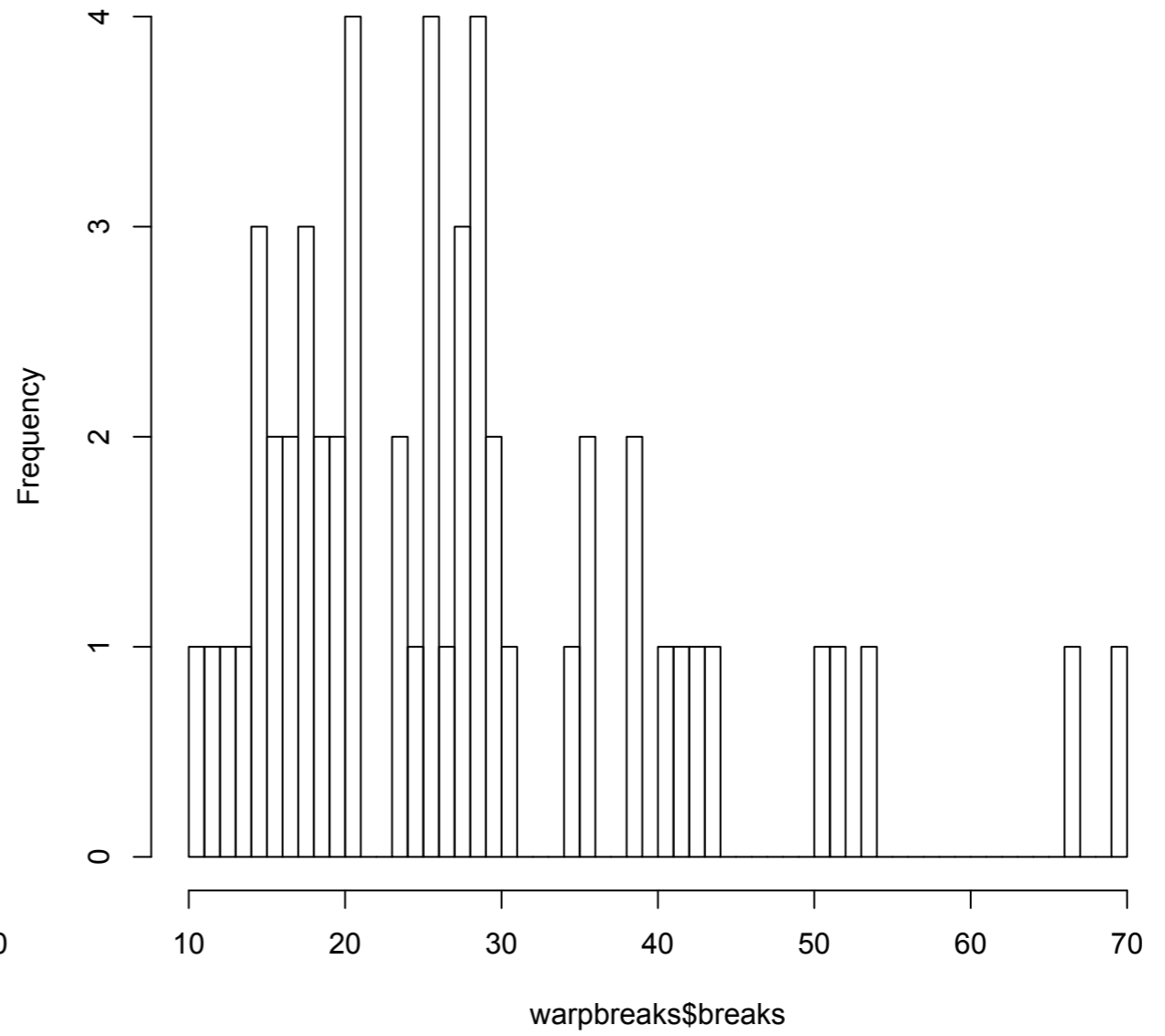
Histogram of warpbreaks\$breaks



Histogram of warpbreaks\$breaks

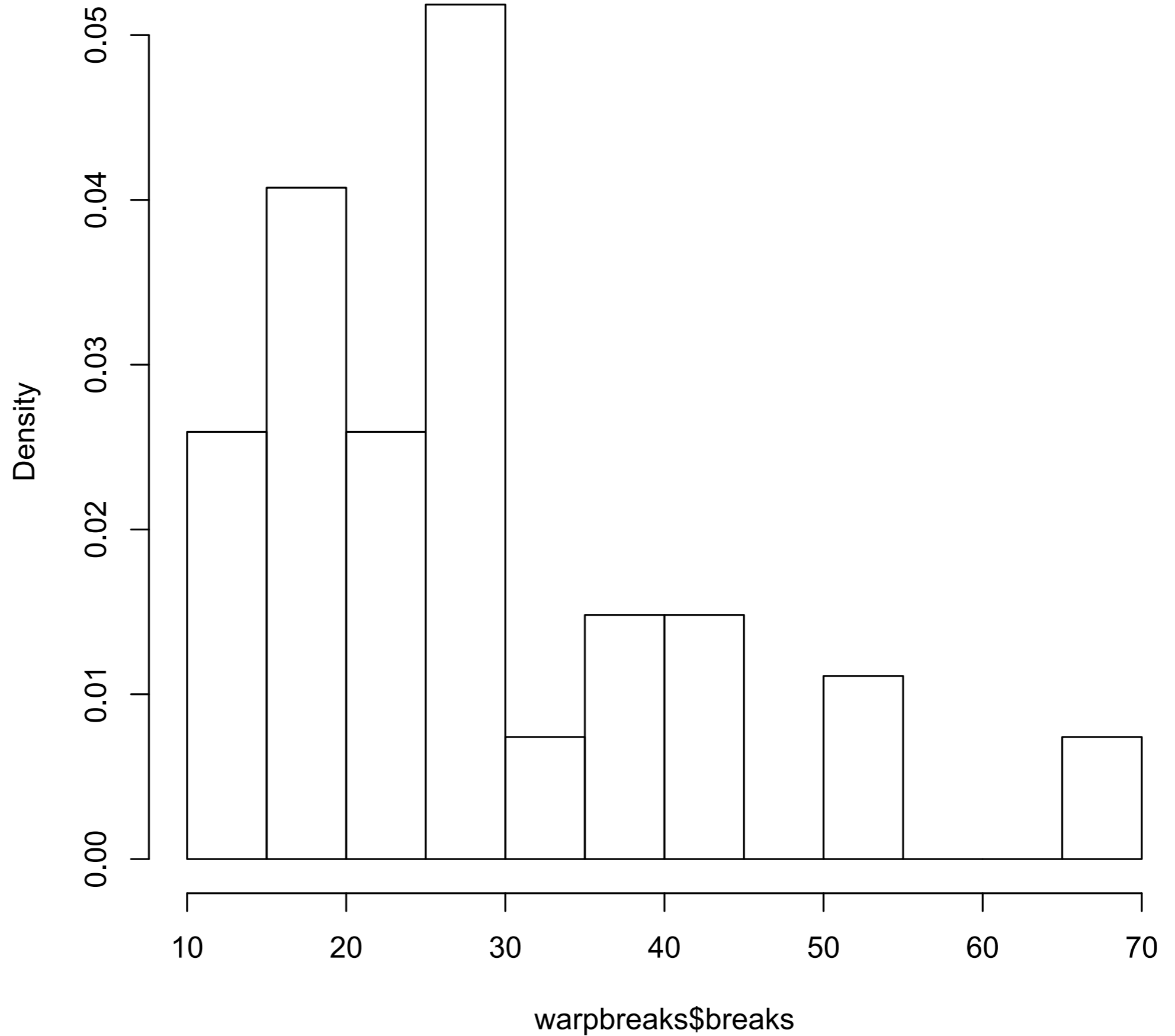


Histogram of warpbreaks\$breaks



Histogram gostote

Histogram of warpbreaks\$breaks

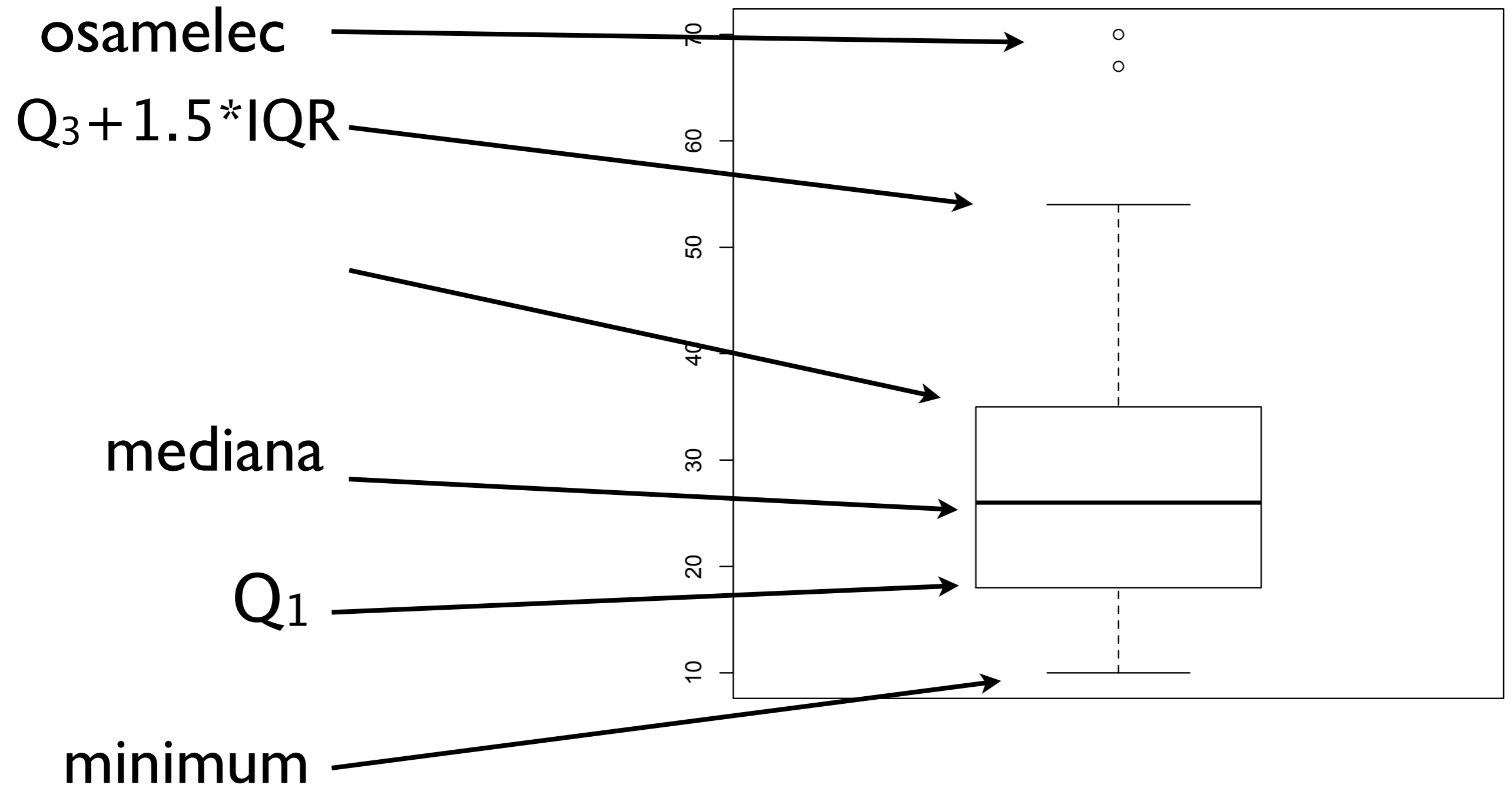


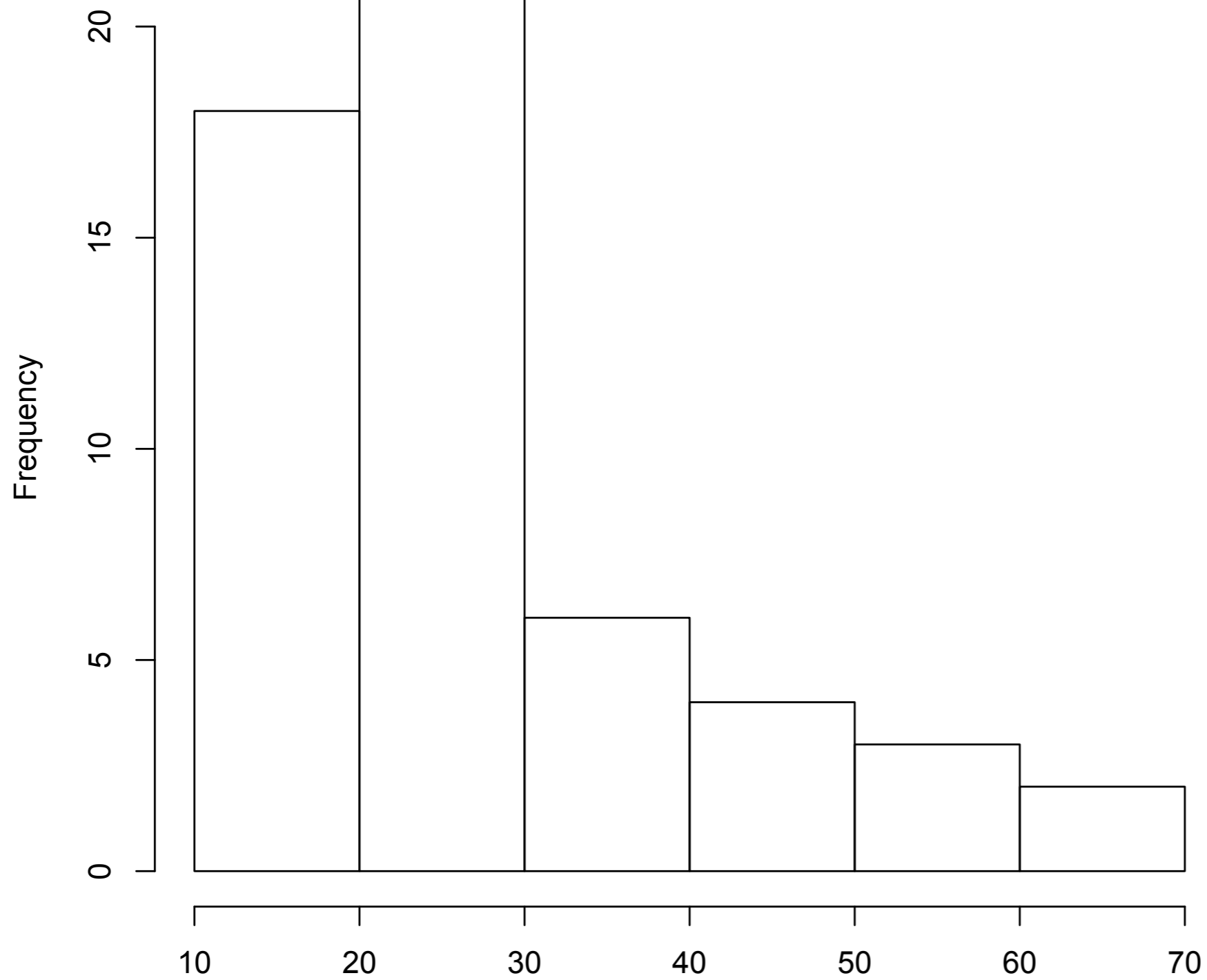
Histogram s številkami (“Stem and leaf plot”)

26 30 54 25 70 52 51 26 67 18 21 29 17 12
18 35 30 36 36 21 24 18 10 43 28 15 26 27 14
29 19 29 31 41 20 44 42 26 19 16 39 28 21 39
29 20 21 24 17 13 15 15 16 28

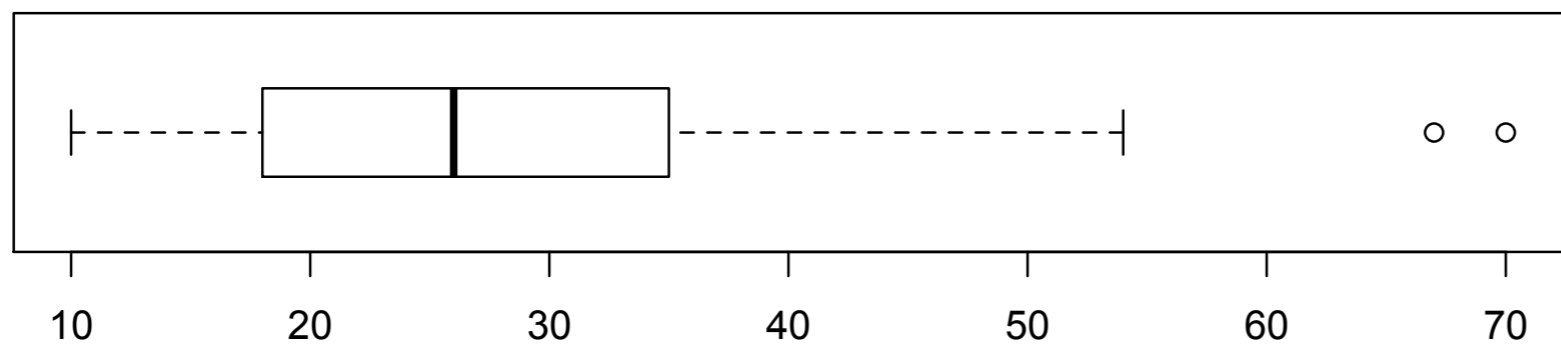
```
1 | 023455667788899
2 | 001111445666678889999
3 | 00156699
4 | 1234
5 | 124
6 | 7
7 | 0
```


Grafikon kvartilov (boxplot)

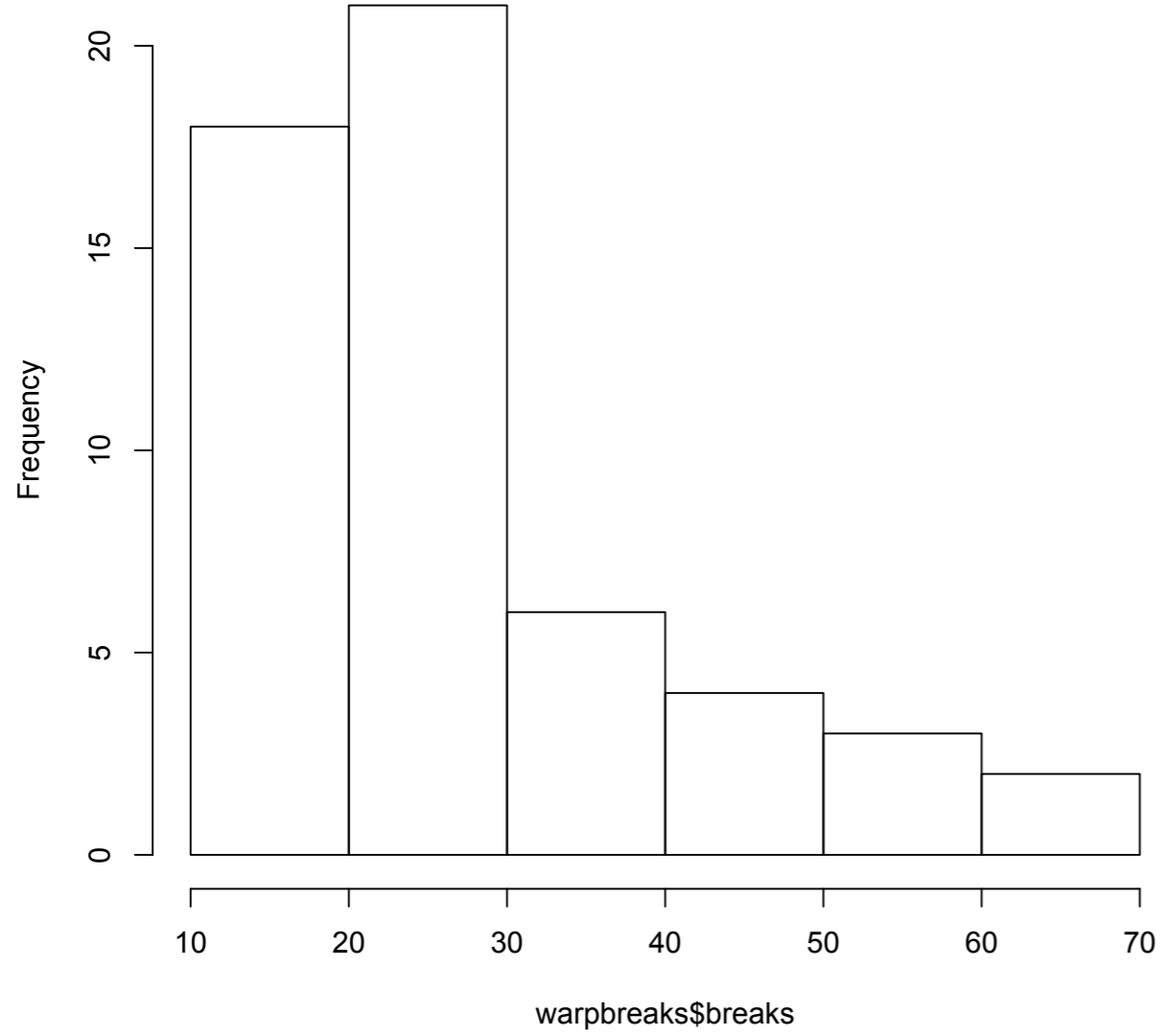




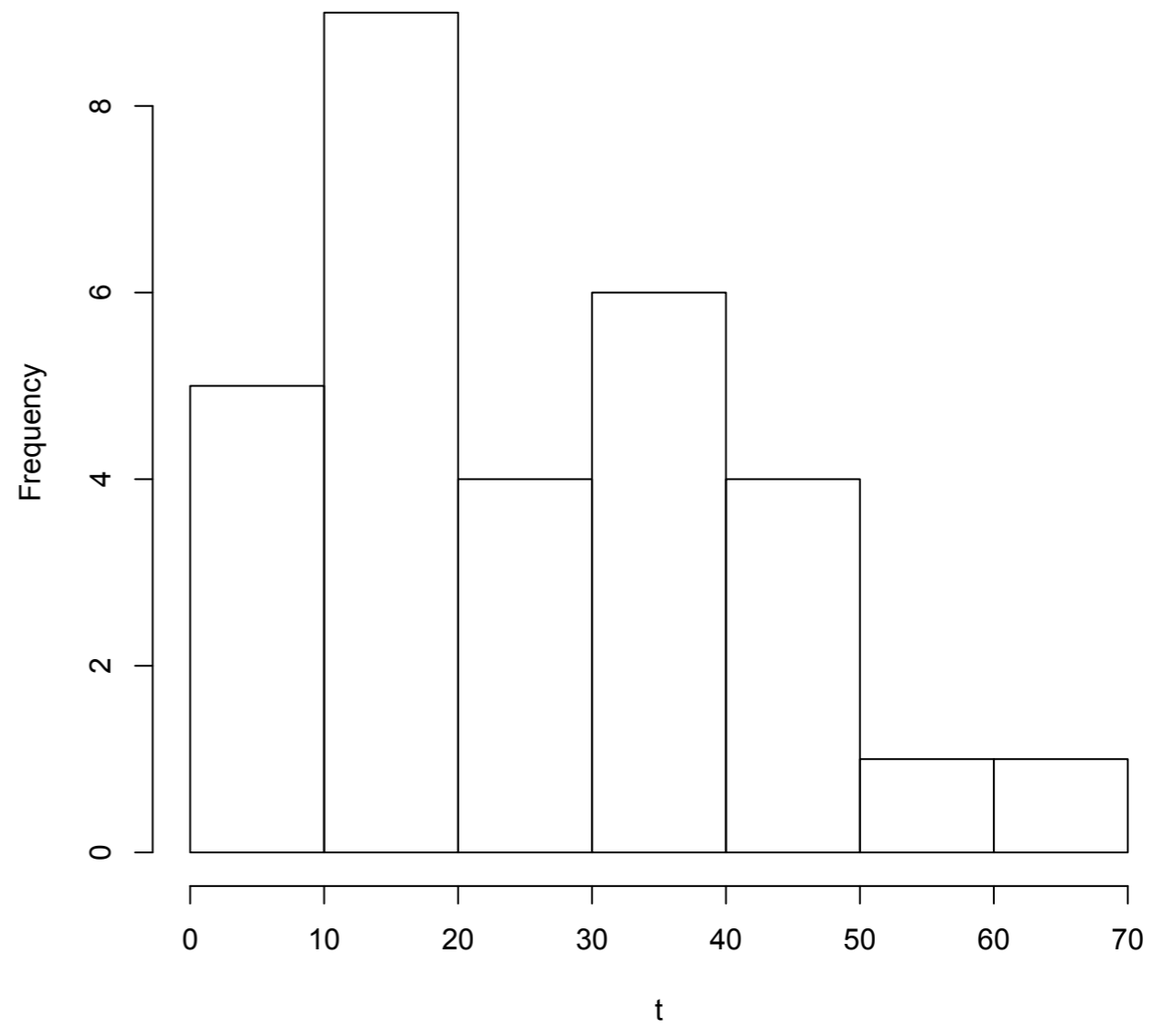
warpbreaks\$breaks

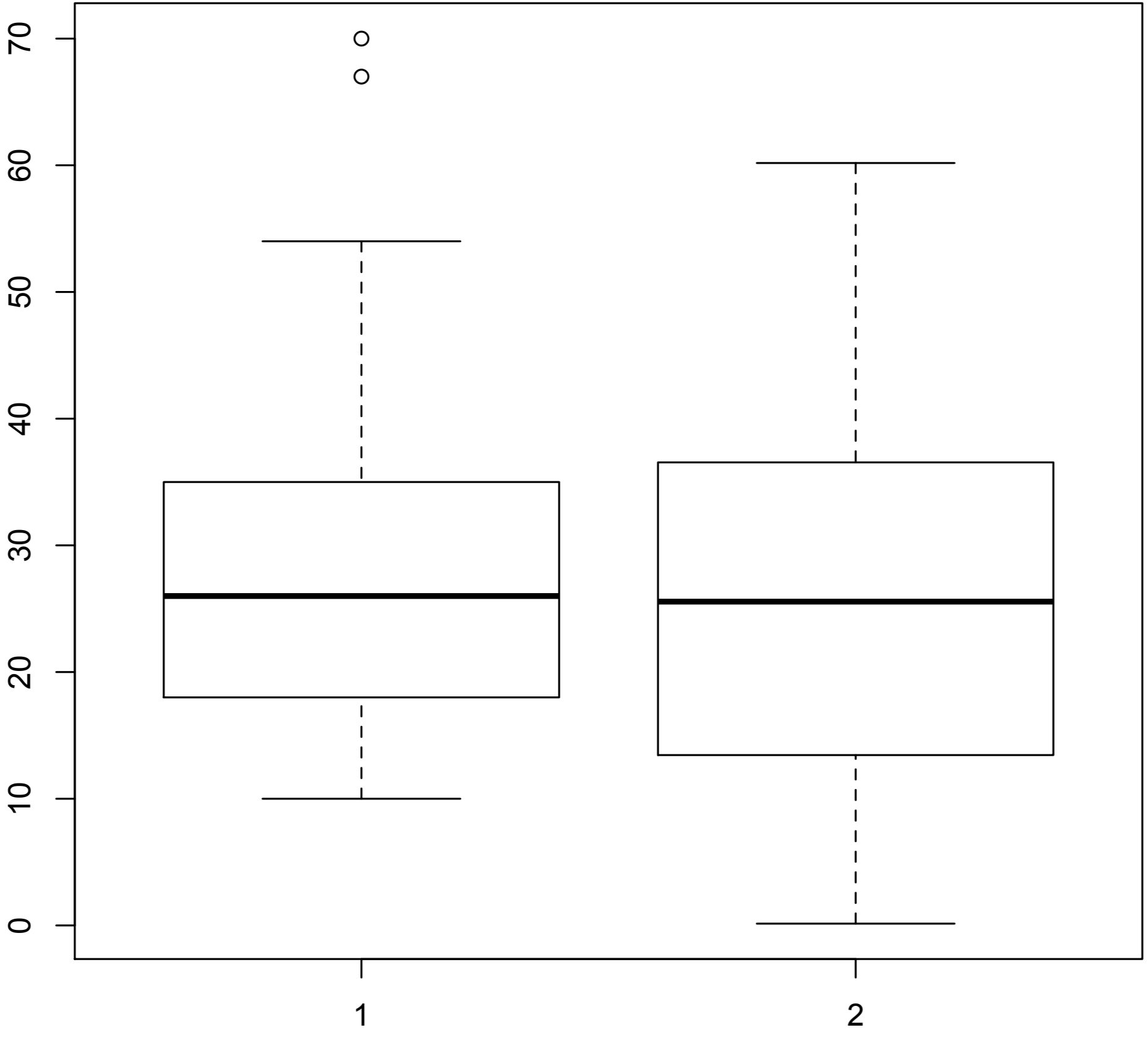


Histogram of warpbreaks\$breaks



Histogram of t

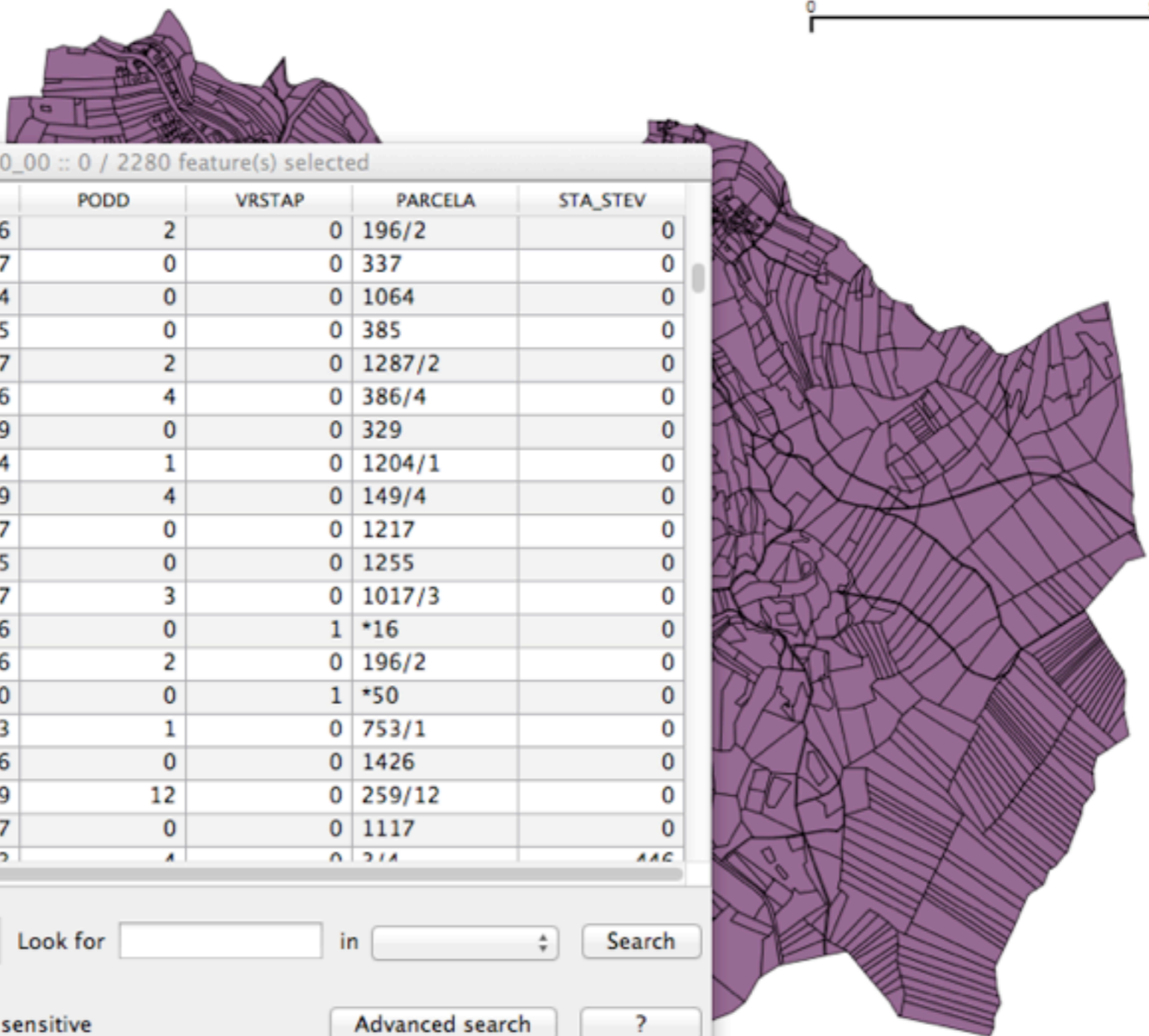






Layers

- 1490_00



Attribute table - 1490_00 :: 0 / 2280 feature(s) selected

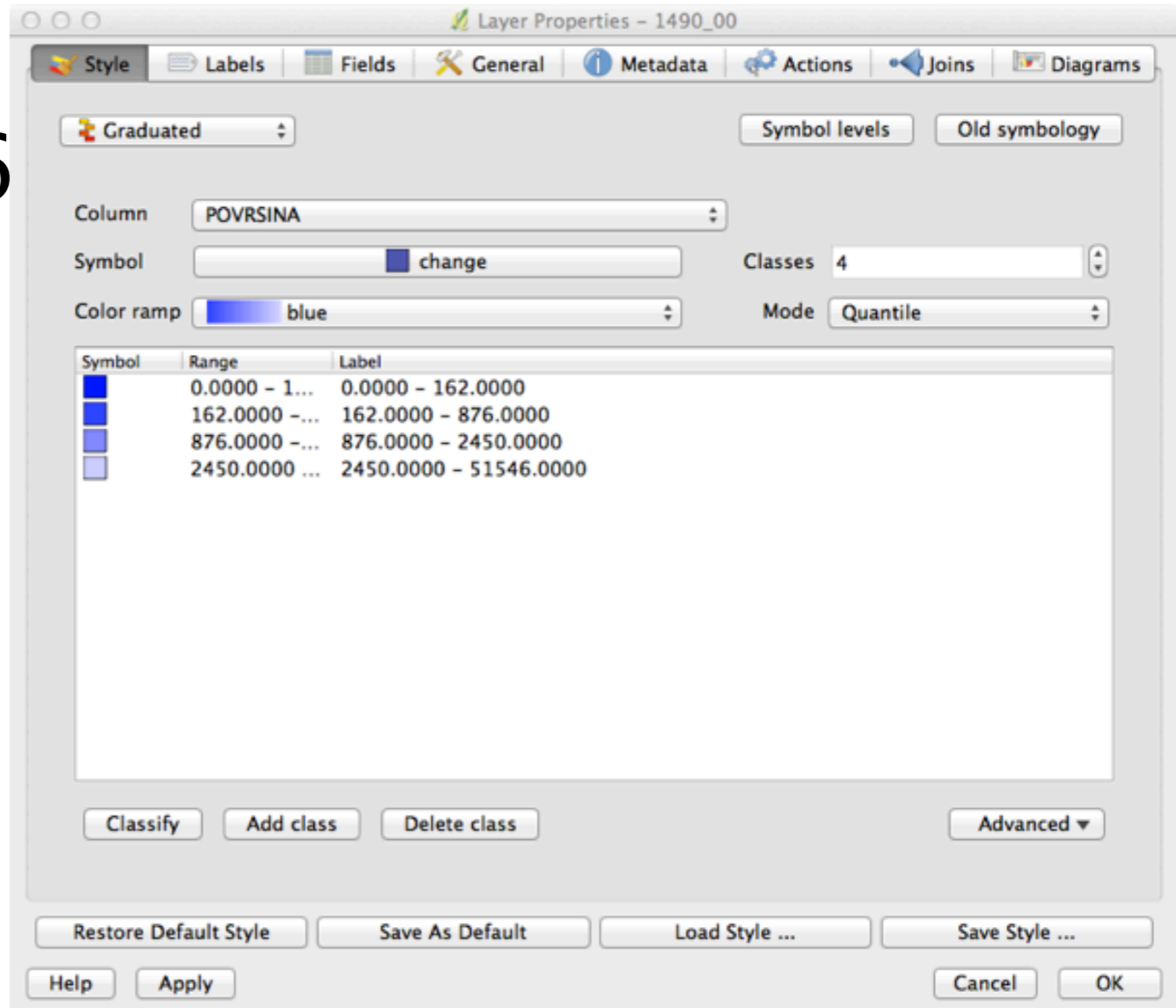
B	RAZRED	POVRSINA	▲	STEV	PODD	VRSTAP	PARCELA	STA_STEV
281	0	30		196	2	0	196/2	0
282	0	30		337	0	0	337	0
283	0	31		1064	0	0	1064	0
284	0	32		385	0	0	385	0
285	0	33		1287	2	0	1287/2	0
286	0	34		386	4	0	386/4	0
287	0	34		329	0	0	329	0
288	0	35		1204	1	0	1204/1	0
289	0	35		149	4	0	149/4	0
290	0	36		1217	0	0	1217	0
291	0	36		1255	0	0	1255	0
292	0	36		1017	3	0	1017/3	0
293	0	36		16	0	1	*16	0
294	0	36		196	2	0	196/2	0
295	0	36		50	0	1	*50	0
296	0	37		753	1	0	753/1	0
297	0	37		1426	0	0	1426	0
298	0	38		259	12	0	259/12	0
299	0	38		1117	0	0	1117	0
300	0	38		214	4	0	214/4	0

Look for in Search

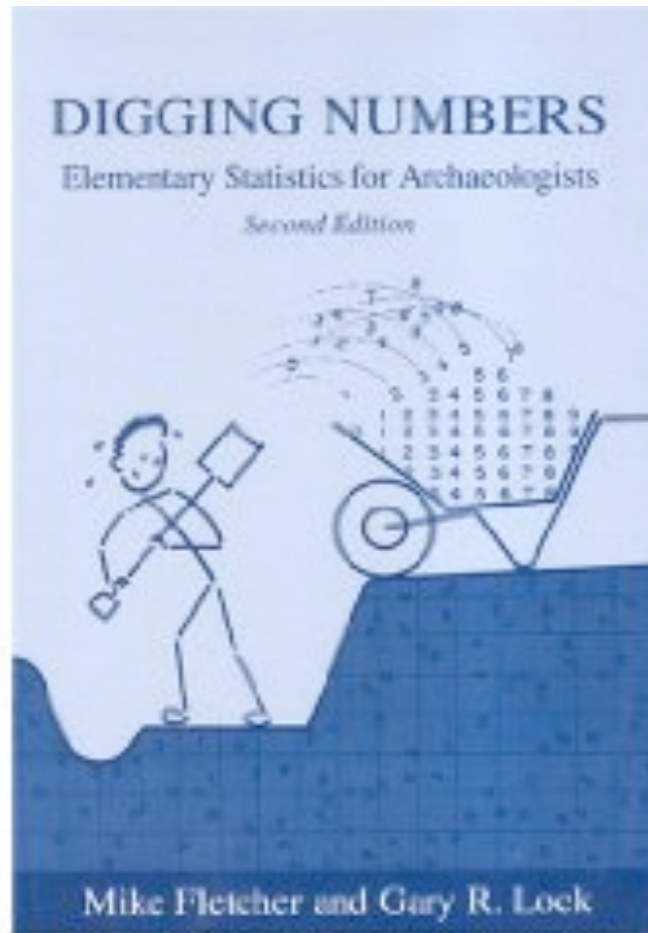
Show selected only Search selected only Case sensitive

Advanced search ?

min 0
q1 162
mediana 876
q3 2450
max 51546



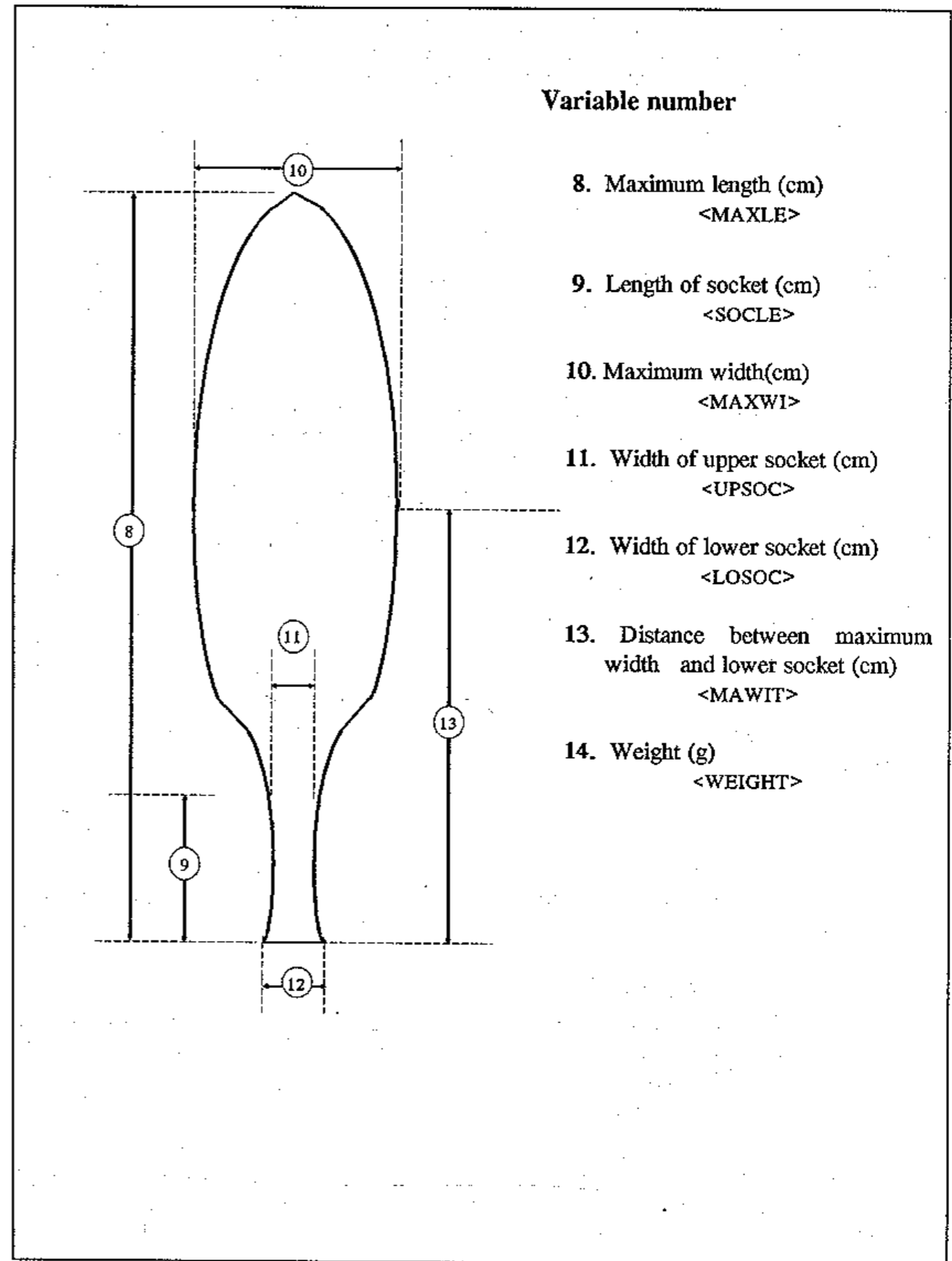
<http://ge.tt/9aIqgFT/v/0>



<MAT>, <CON>, <LOO> and <PEG>.

Column	Variable name	Description	Values
2	<MAT>	Material	1 = Bronze 2 = Iron
3	<CON>	Context	1 = Stray find (including 1 2 = Settlement 3 = Burial
4	<LOO>	Loop	1 = No 2 = Yes
5	<PEG>	Peghole	1 = No 2 = Yes

2



Variable number

8. Maximum length (cm)
<MAXLE>
9. Length of socket (cm)
<SOCLE>
10. Maximum width (cm)
<MAXWI>
11. Width of upper socket (cm)
<UPSOC>
12. Width of lower socket (cm)
<LOSOC>
13. Distance between maximum width and lower socket (cm)
<MAWIT>
14. Weight (g)
<WEIGHT>

Figure 1.1. The seven quantitative variables.

<http://ge.tt/900BU4C?c>