



**EUCAST**

European Committee  
on Antimicrobial  
Susceptibility Testing

# ***Aerococcus sanguinicola* and *A. urinae***

## Calibration of zone diameter breakpoints to MIC values

Version 3.2  
January 2026

# *Aerococcus sanguinicola* and *urinae*

## MIC and zone diameter correlates

- The following histograms present inhibition zone diameter distributions from EUCAST antimicrobial susceptibility testing. In most, the different colours of the bars indicate different MIC values. In some, the colours of the bars indicate a resistance gene or a resistance mechanism.
- The distributions include data for wild-type isolates and for isolates with acquired resistance mechanisms. A large number of isolates with MIC values close to the edge of the wild-type distribution and/or close to EUCAST clinical breakpoints were intentionally included. These distributions can not be used to infer resistance rates or the performance of the tests with routine isolates.
- For some agents, isolates were tested on more than one occasion, including parallel tests with disks and media from several manufacturers. When this is the case, data are presented as both the “number of isolates tested” and the “total number of MIC-zone diameter correlates”, including replicate tests and parallel tests with disks and media from different sources.

# *Aerococcus sanguinicola* and *urinae*

## Materials and methods

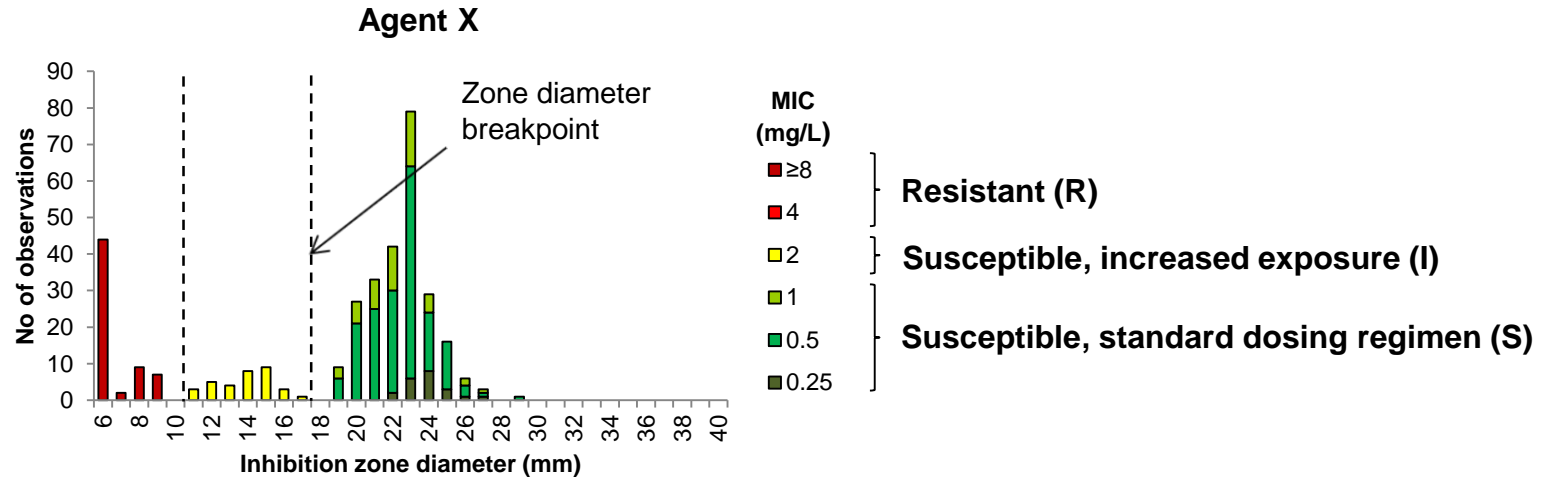
- Antimicrobial susceptibility testing was performed on clinical isolates of *Aerococcus sanguinicola* and *urinae* collected from several laboratories, including isolates with known resistance mechanisms. Disk diffusion was performed on MH-F media according to EUCAST methodology and MICs were determined with the ISO broth microdilution method, agar dilution or gradient tests on MH-F media.
- The distributions of MIC vs. zone diameter in this presentation are the result of a collaboration between EUCAST; Clinical Microbiology, Slagelse Hospital, Denmark; Public Health Wales, Cardiff, UK; CHU Côte de Nacre, France and Clinical Microbiology, Lund, Sweden.
- This presentation is based on EUCAST Clinical Breakpoint Tables v. 16.0.

# Changes from previous version (3.1)

<b>Changes</b>
<ul style="list-style-type: none"><li>• No changes. Breakpoints checked against latest version of EUCAST Clinical Breakpoint Tables.</li></ul>

# Explanation of graphs:

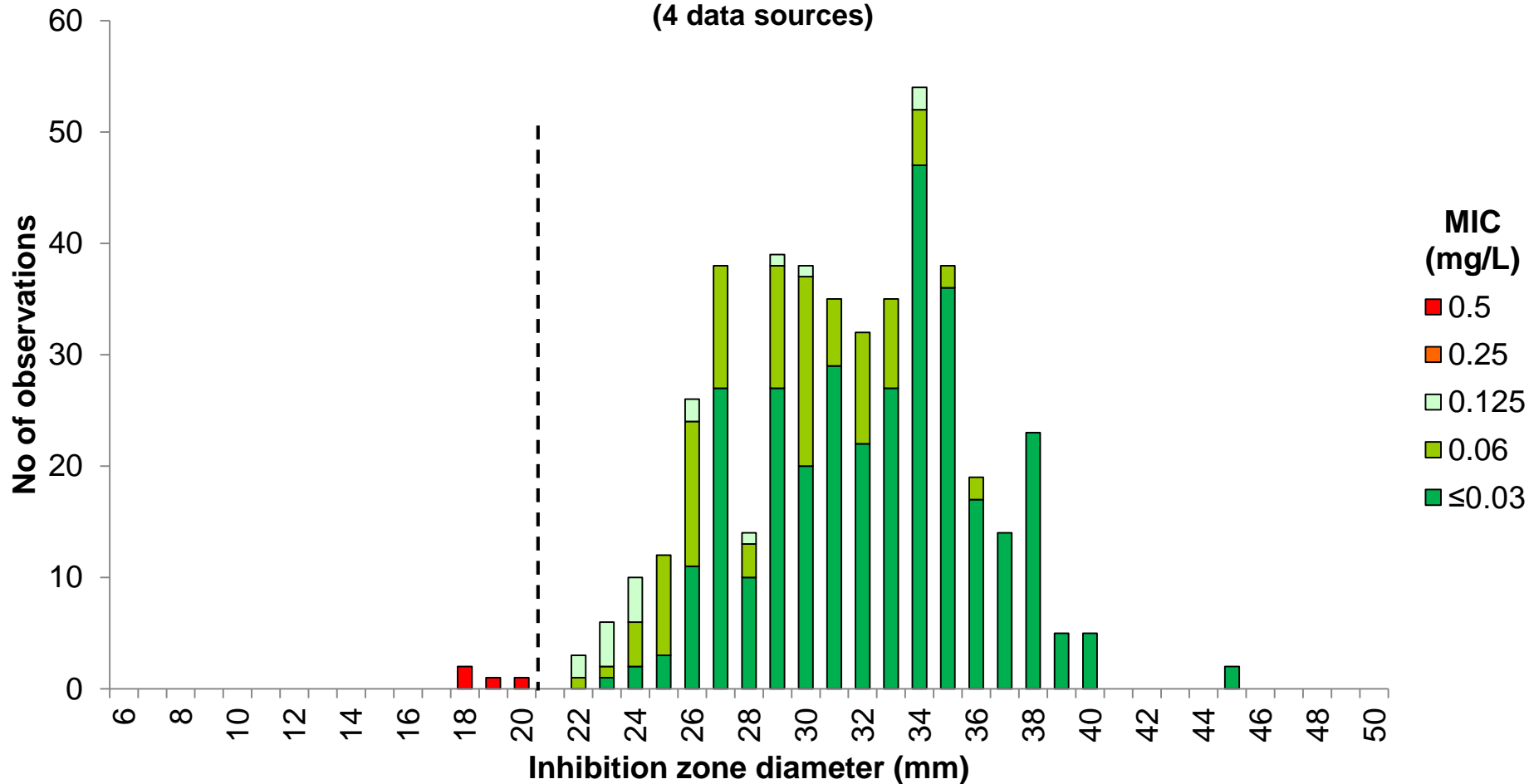
- These graphs show zone diameter distributions with MIC values or resistance mechanisms as coloured bars. Colours are related to current EUCAST MIC breakpoints.



# Benzylpenicillin 1 unit vs. MIC

## *A. urinae* and *A. sanguinicola*, 216 isolates (452 correlates)

(4 data sources)

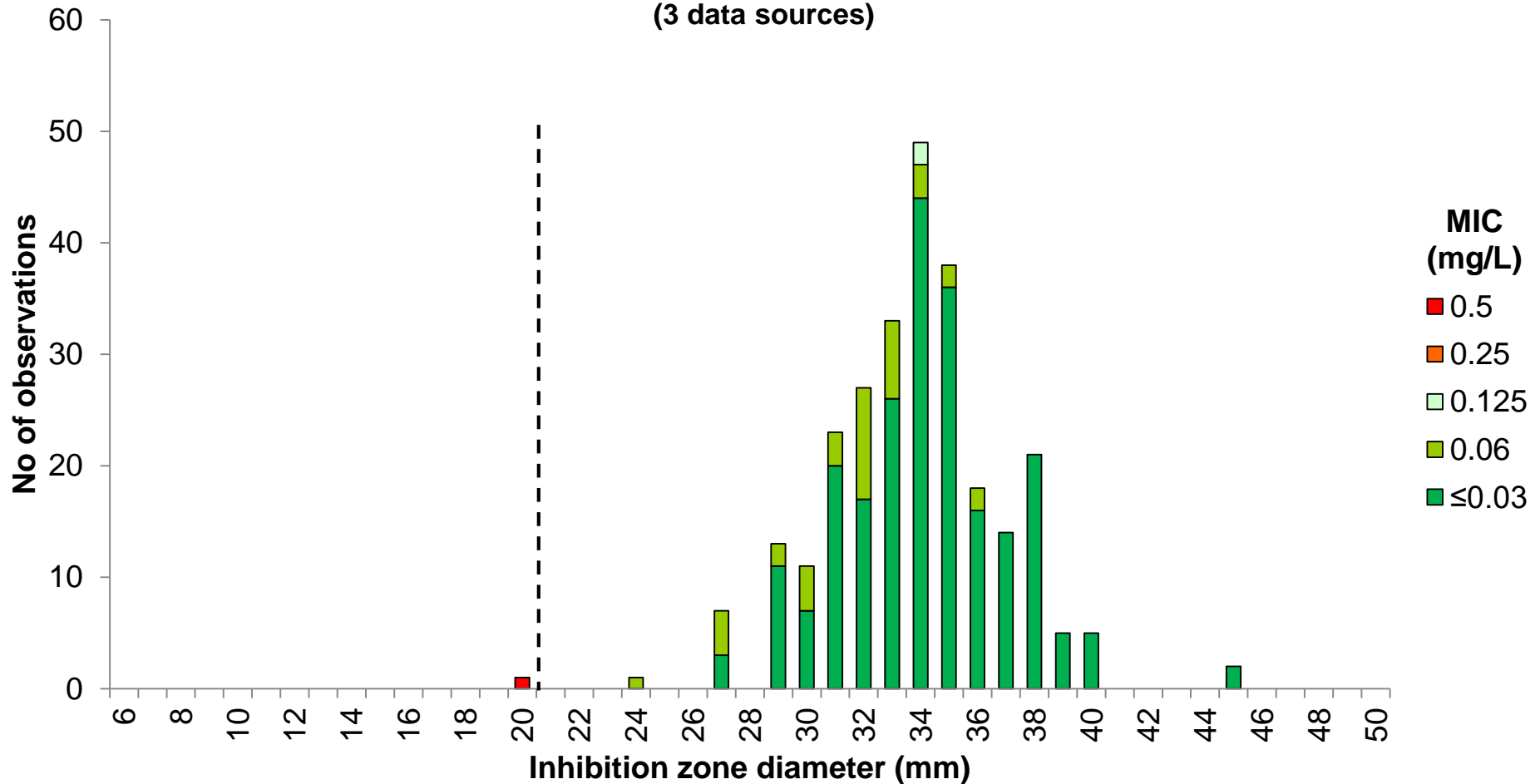


Breakpoints	
MIC	S ≤ 0.125, R > 0.125 mg/L
Zone diameter	S ≥ 21, R < 21 mm

# Benzylpenicillin 1 unit vs. MIC

## *A. urinae*, 127 isolates (268 correlates)

(3 data sources)



### Breakpoints

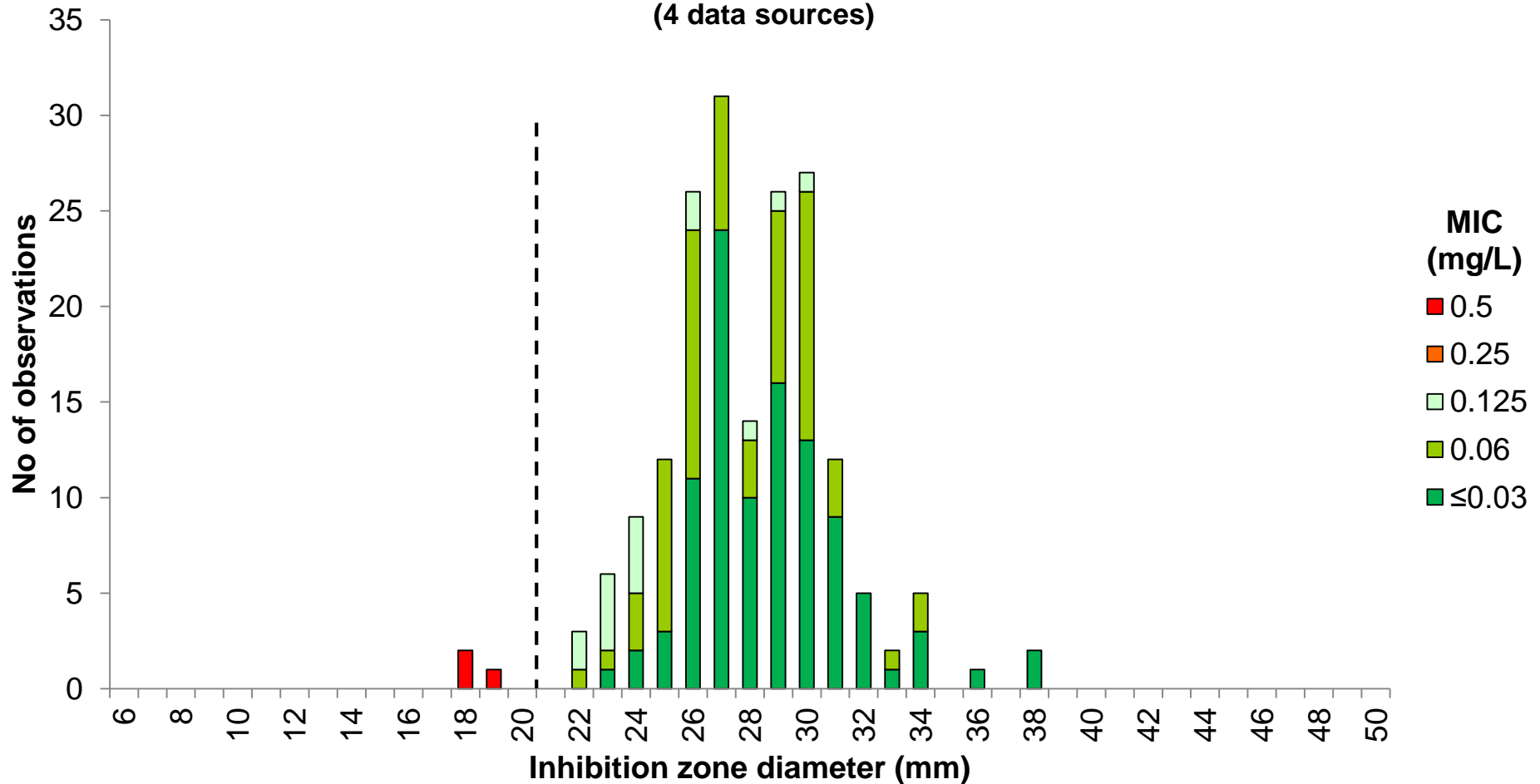
MIC  $S \leq 0.125$ ,  $R > 0.125$  mg/L

Zone diameter  $S \geq 21$ ,  $R < 21$  mm

# Benzylpenicillin 1 unit vs. MIC

## *A. sanguinicola*, 88 isolates (184 correlates)

(4 data sources)



### Breakpoints

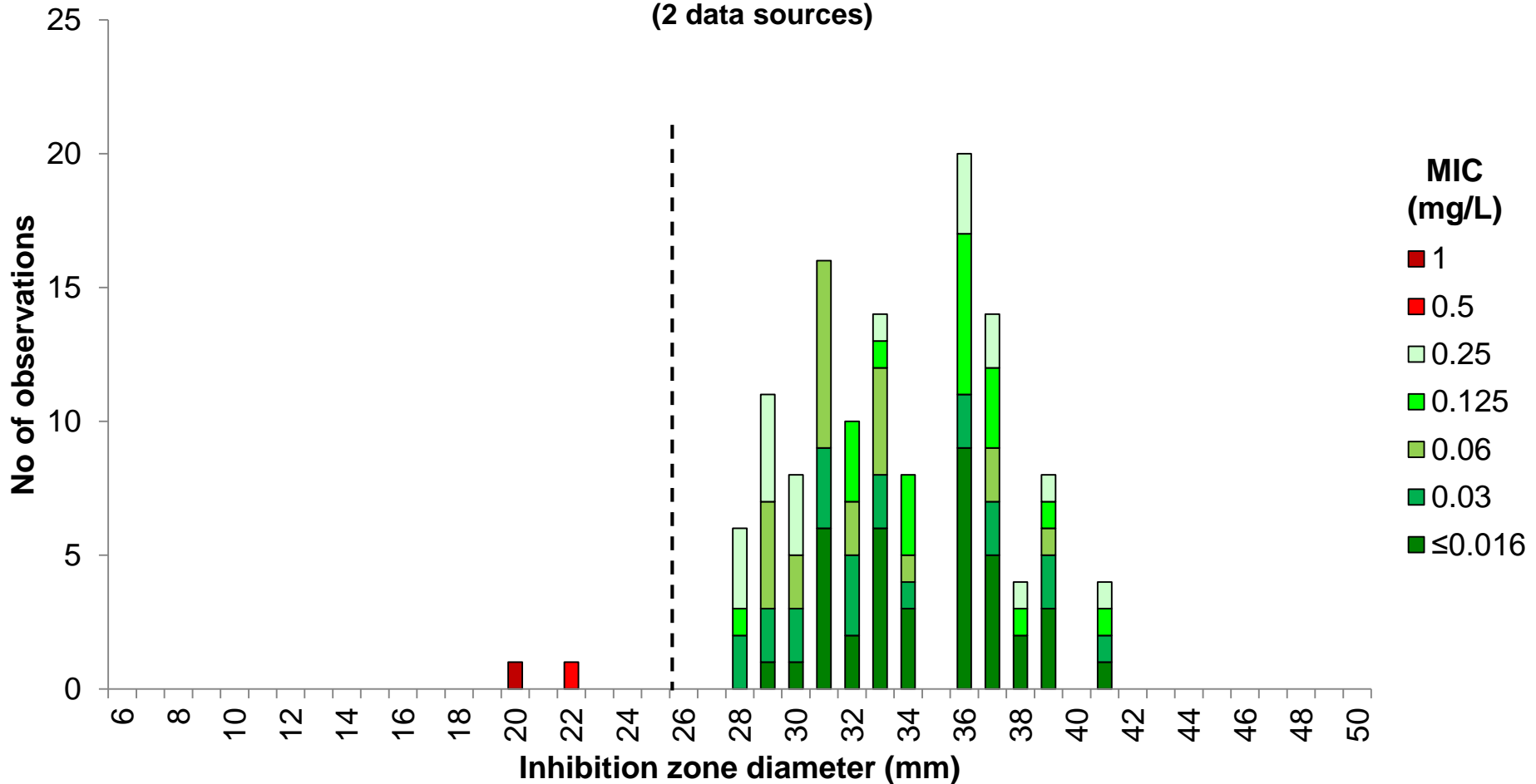
MIC  $S \leq 0.125$ ,  $R > 0.125$  mg/L

Zone diameter  $S \geq 21$ ,  $R < 21$  mm

# Ampicillin 2 $\mu$ g vs. MIC

## *A. urinae* and *A. sanguinicola*, 63 isolates (125 correlates)

(2 data sources)

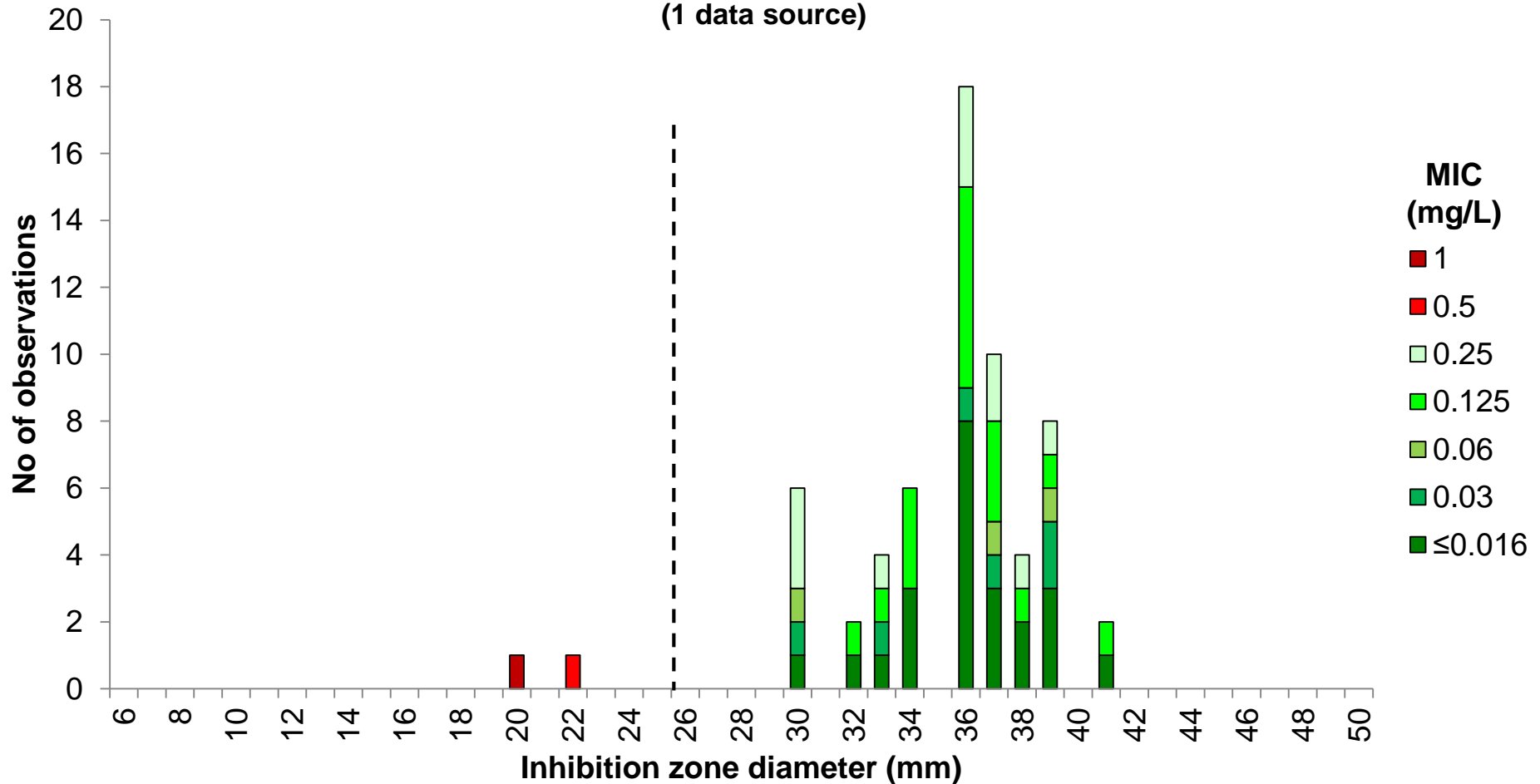


Breakpoints	
MIC	S≤0.25, R>0.25 mg/L
Zone diameter	S≥26, R<26 mm

# Ampicillin 2 µg vs. MIC

## *A. urinae*, 32 isolates (62 correlates)

(1 data source)



### Breakpoints

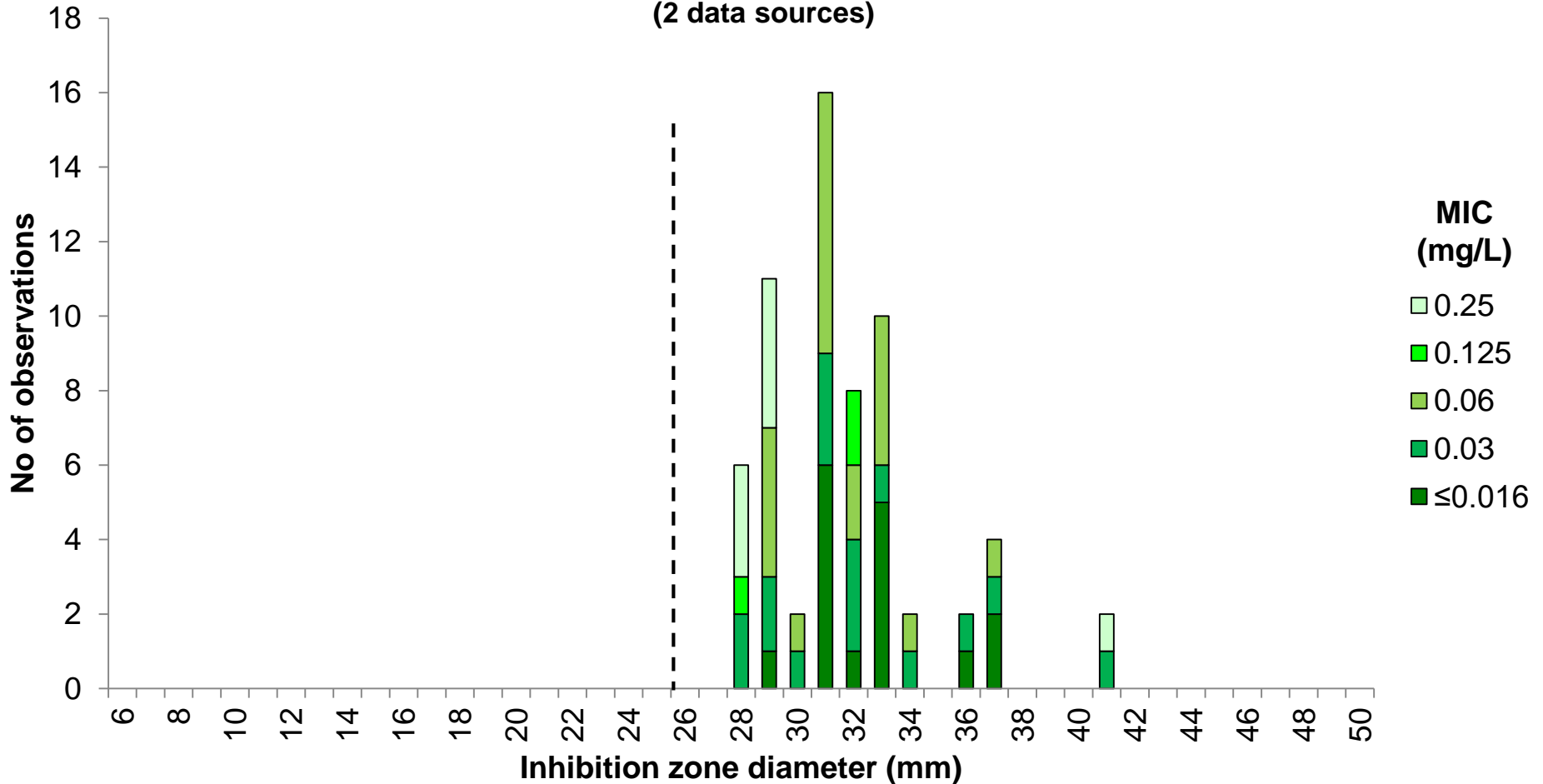
MIC S ≤ 0.25, R > 0.25 mg/L

Zone diameter S ≥ 26, R < 26 mm

# Ampicillin 2 µg vs. MIC

## *A. sanguinicola*, 31 isolates (63 correlates)

(2 data sources)



### Breakpoints

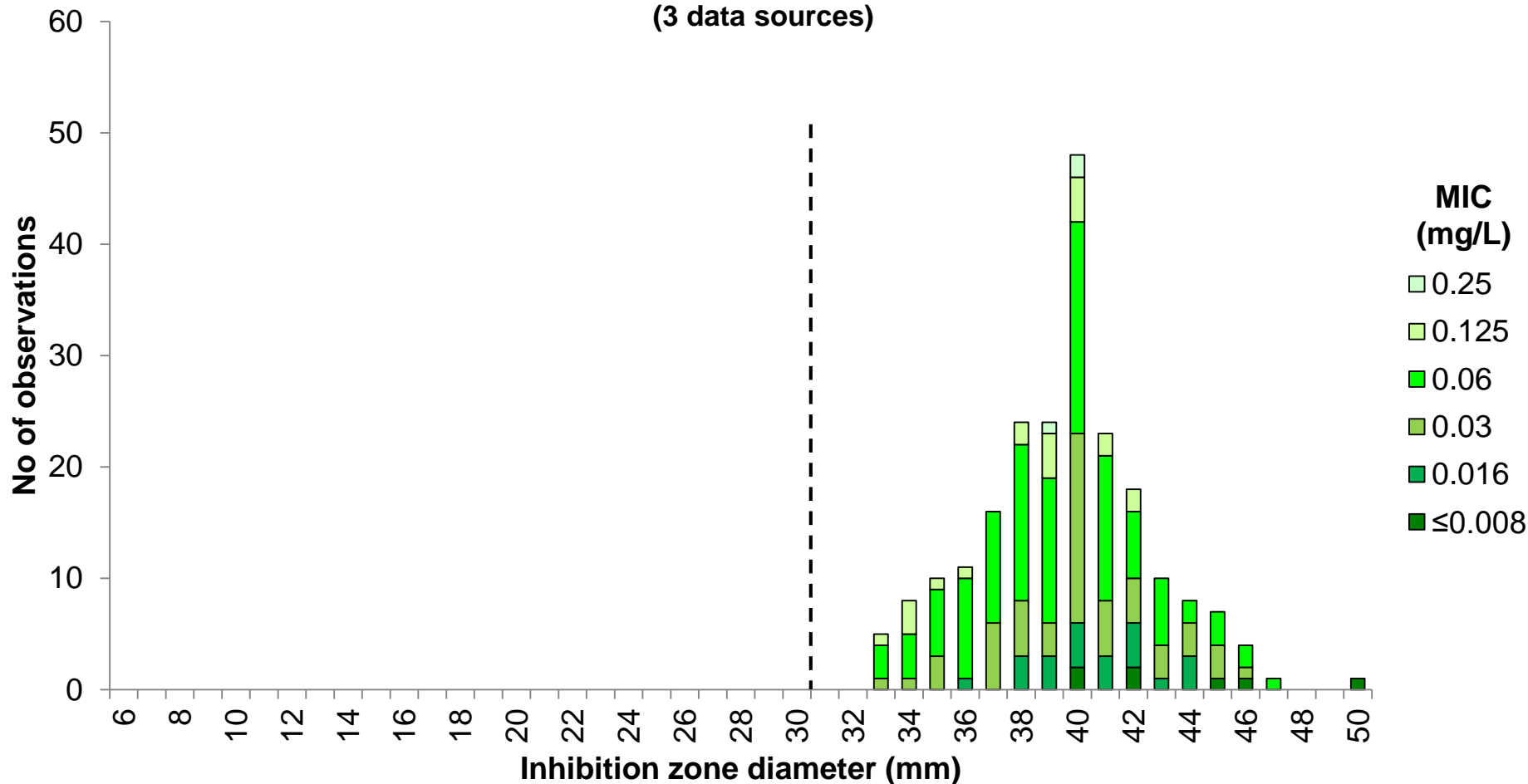
MIC S ≤ 0.25, R > 0.25 mg/L

Zone diameter S ≥ 26, R < 26 mm

# Meropenem 10 µg vs. MIC

## *A. urinae* and *A. sanguinicola*, 192 isolates (218 correlates)

(3 data sources)



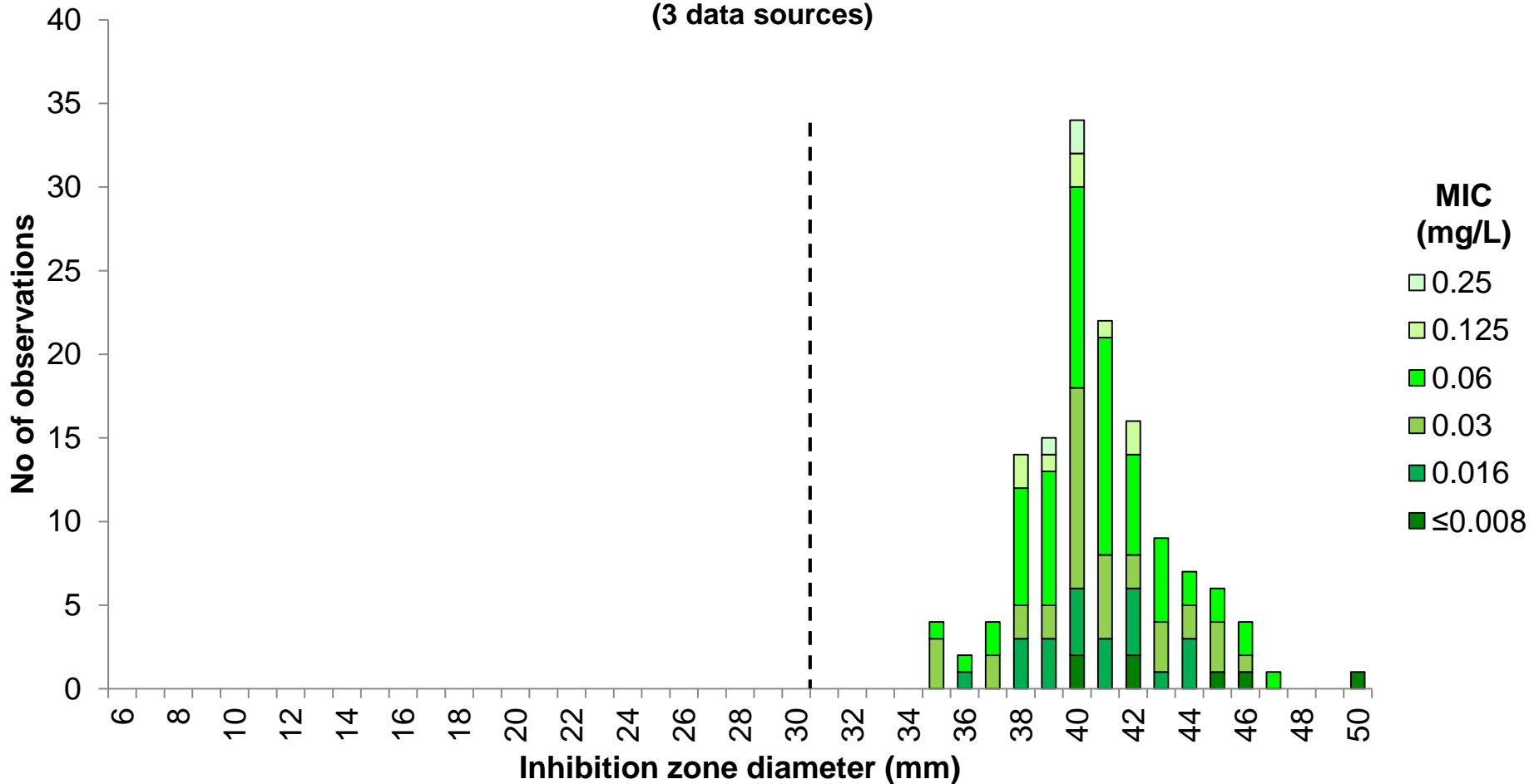
### Breakpoints

MIC	S ≤ 0.25, R > 0.25 mg/L
Zone diameter	S ≥ 31, R < 31 mm

# Meropenem 10 µg vs. MIC

## *A. urinae*, 117 isolates (139 correlates)

(3 data sources)



### Breakpoints

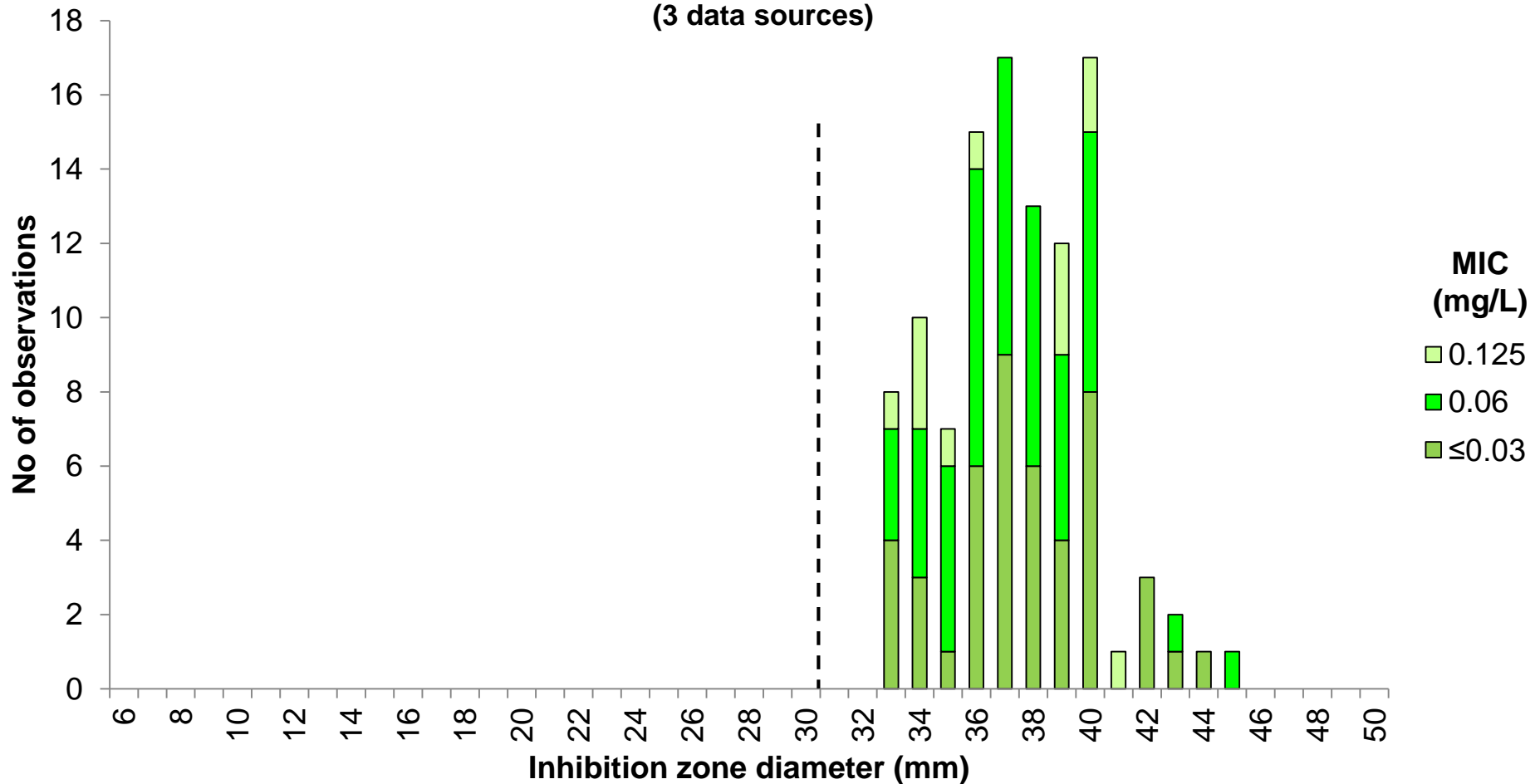
MIC S ≤ 0.25, R > 0.25 mg/L

Zone diameter S ≥ 31, R < 31 mm

# Meropenem 10 µg vs. MIC

## *A. sanguinicola*, 77 isolates (107 correlates)

(3 data sources)

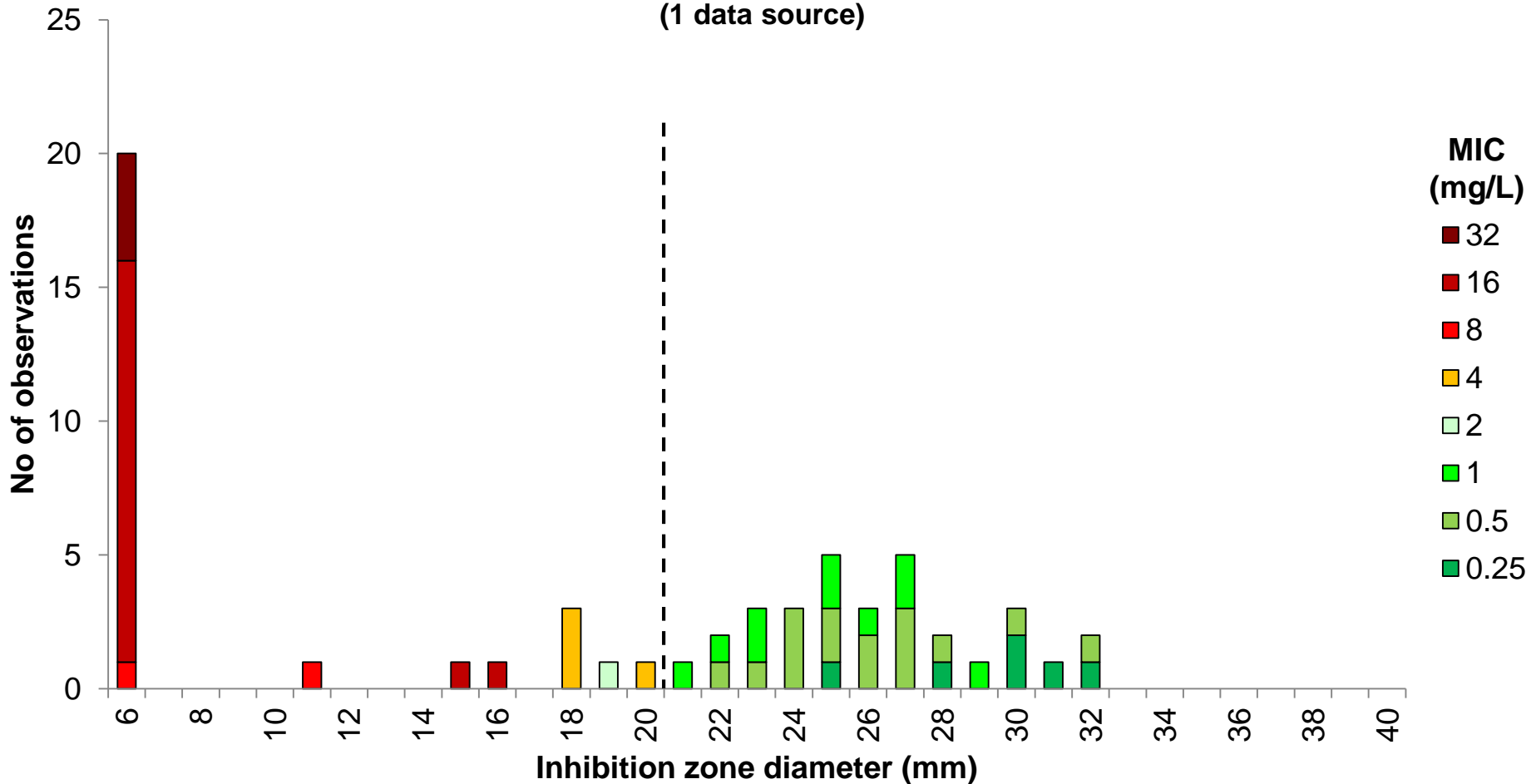


Breakpoints	
MIC	S ≤ 0.25, R > 0.25 mg/L
Zone diameter	S ≥ 31, R < 31 mm

# Ciprofloxacin 5 µg vs. MIC

## *A. urinae* and *A. sanguinicola*, 60 isolates

(1 data source)



### Breakpoints

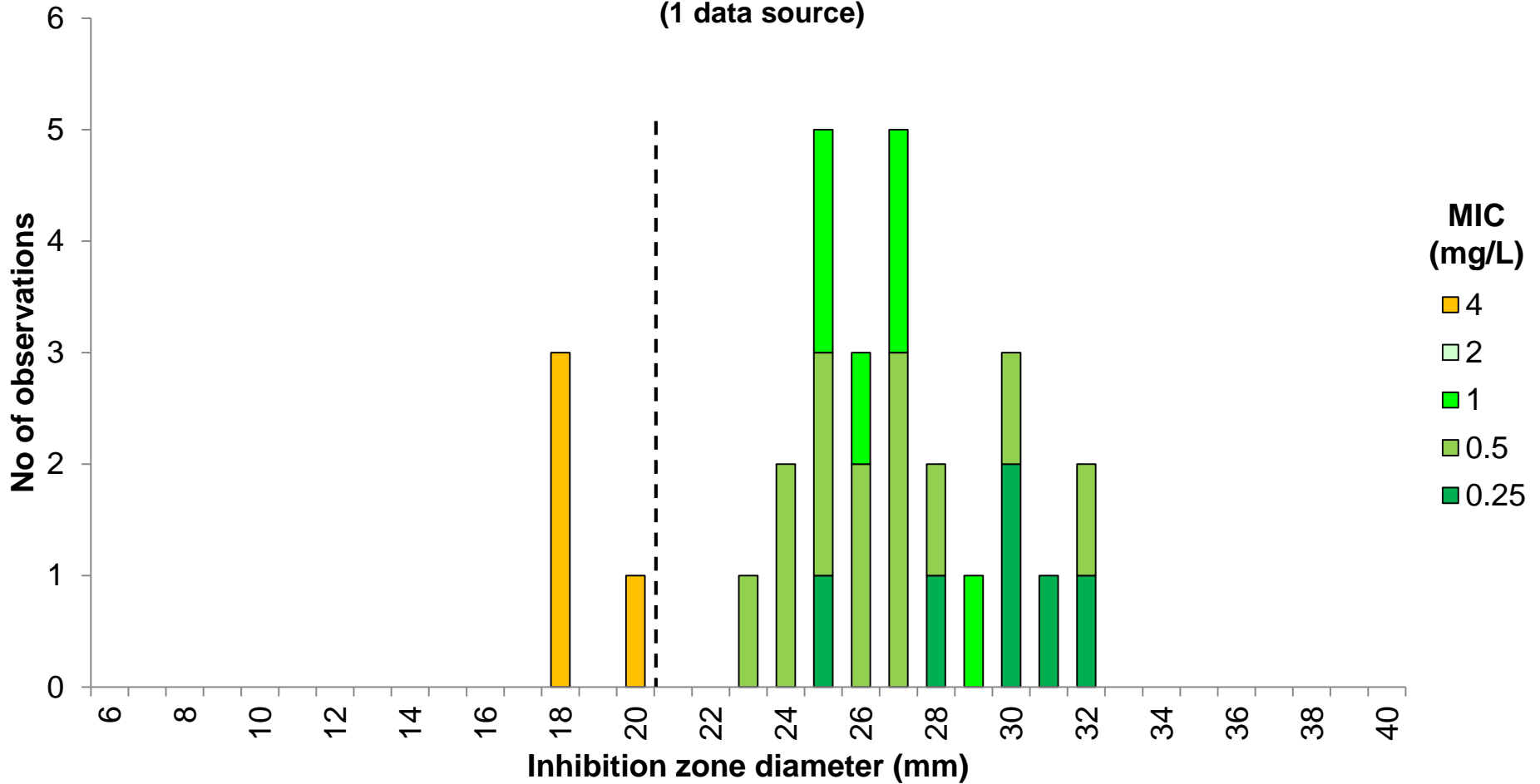
MIC  $S \leq 2, R > 2$  mg/L

Zone diameter  $S \geq 21, R < 21$  mm

# Ciprofloxacin 5 µg vs. MIC

## *A. urinae*, 30 isolates

(1 data source)



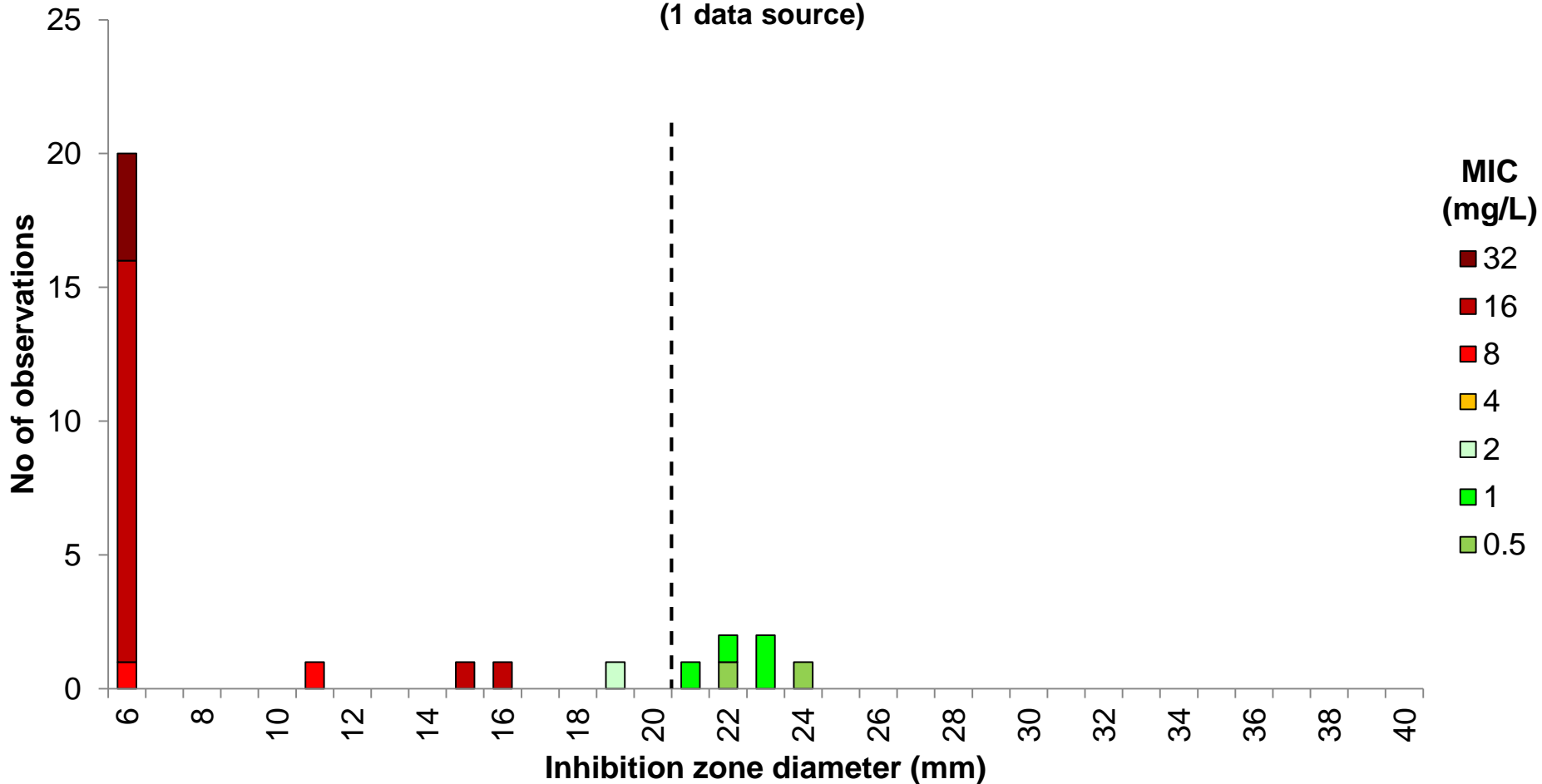
### Breakpoints

MIC  $S \leq 2, R > 2$  mg/L

Zone diameter  $S \geq 21, R < 21$  mm

# Ciprofloxacin 5 µg vs. MIC *A. sanguinicola*, 30 isolates

(1 data source)



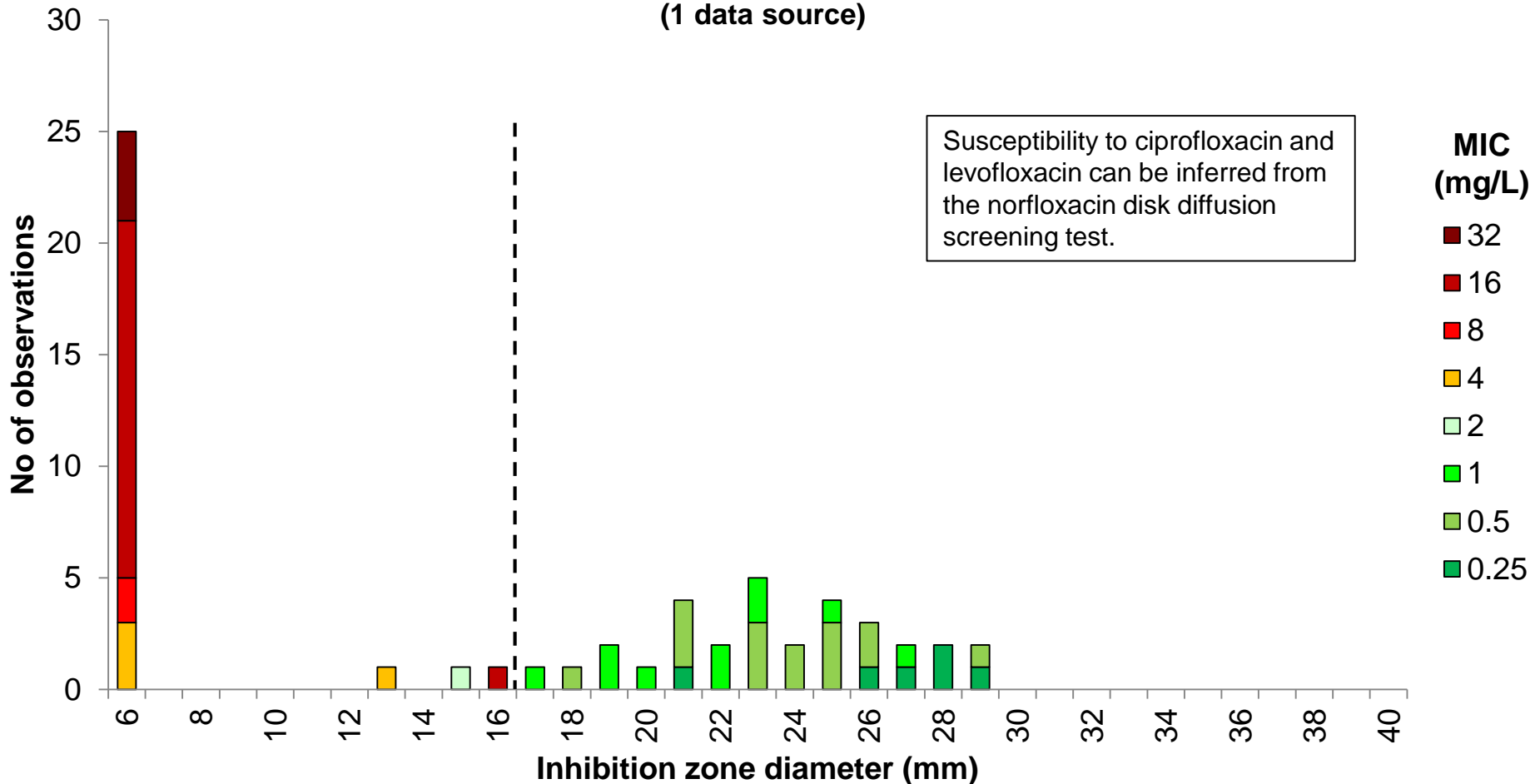
## Breakpoints

MIC  $S \leq 2, R > 2$  mg/L

Zone diameter  $S \geq 21, R < 21$  mm

# Norfloxacin 10 µg vs. Ciprofloxacin MIC *A. urinae* and *A. sanguinicola*, 59 isolates

(1 data source)



## Breakpoints

Ciprofloxacin MIC

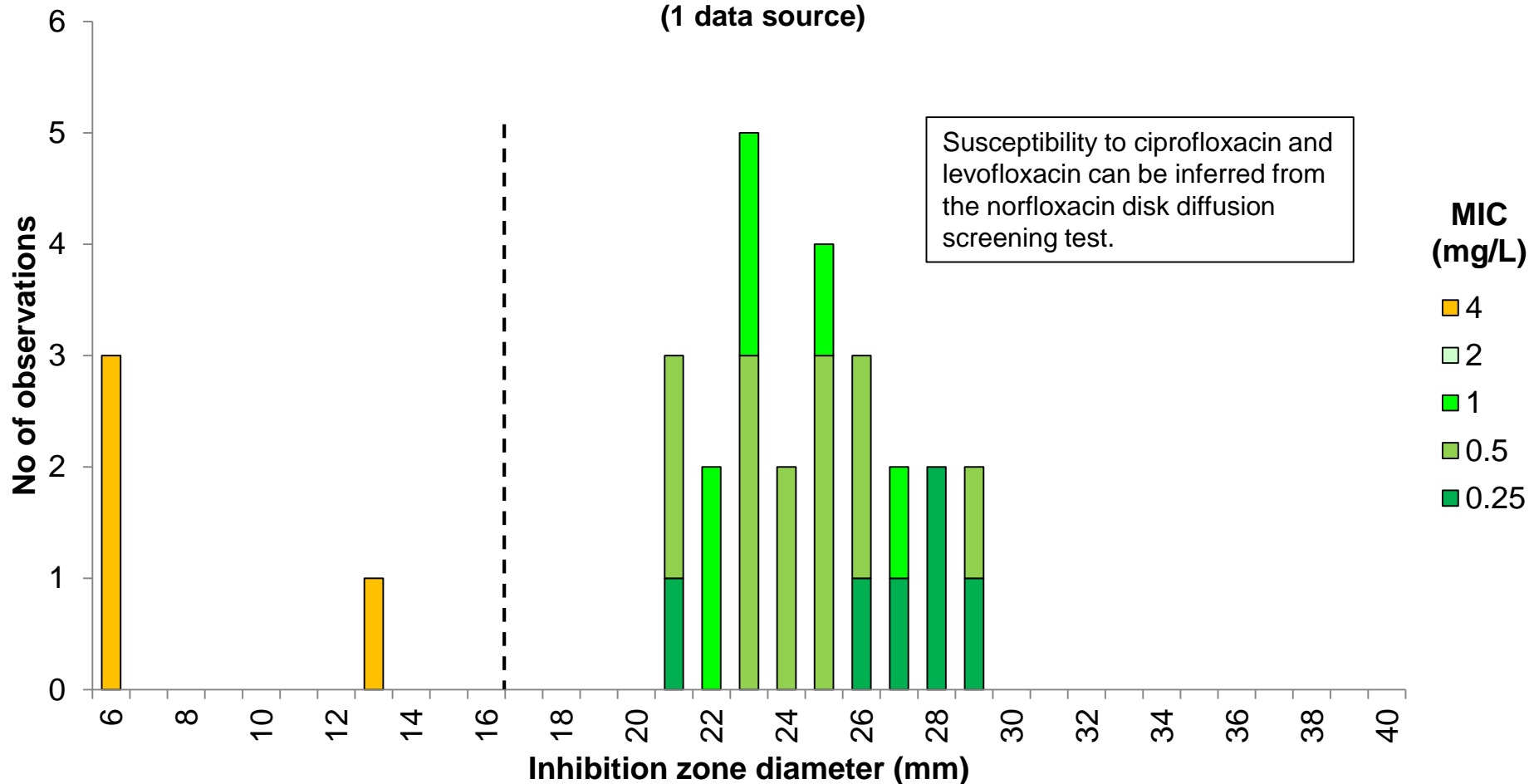
$S \leq 2$ ,  $R > 2$  mg/L

Norfloxacin zone diameter (screen)  $S \geq 17$ ,  $R < 17$  mm

# Norfloxacin 10 µg vs. Ciprofloxacin MIC

## *A. urinae*, 29 isolates

(1 data source)



### Breakpoints

Ciprofloxacin MIC

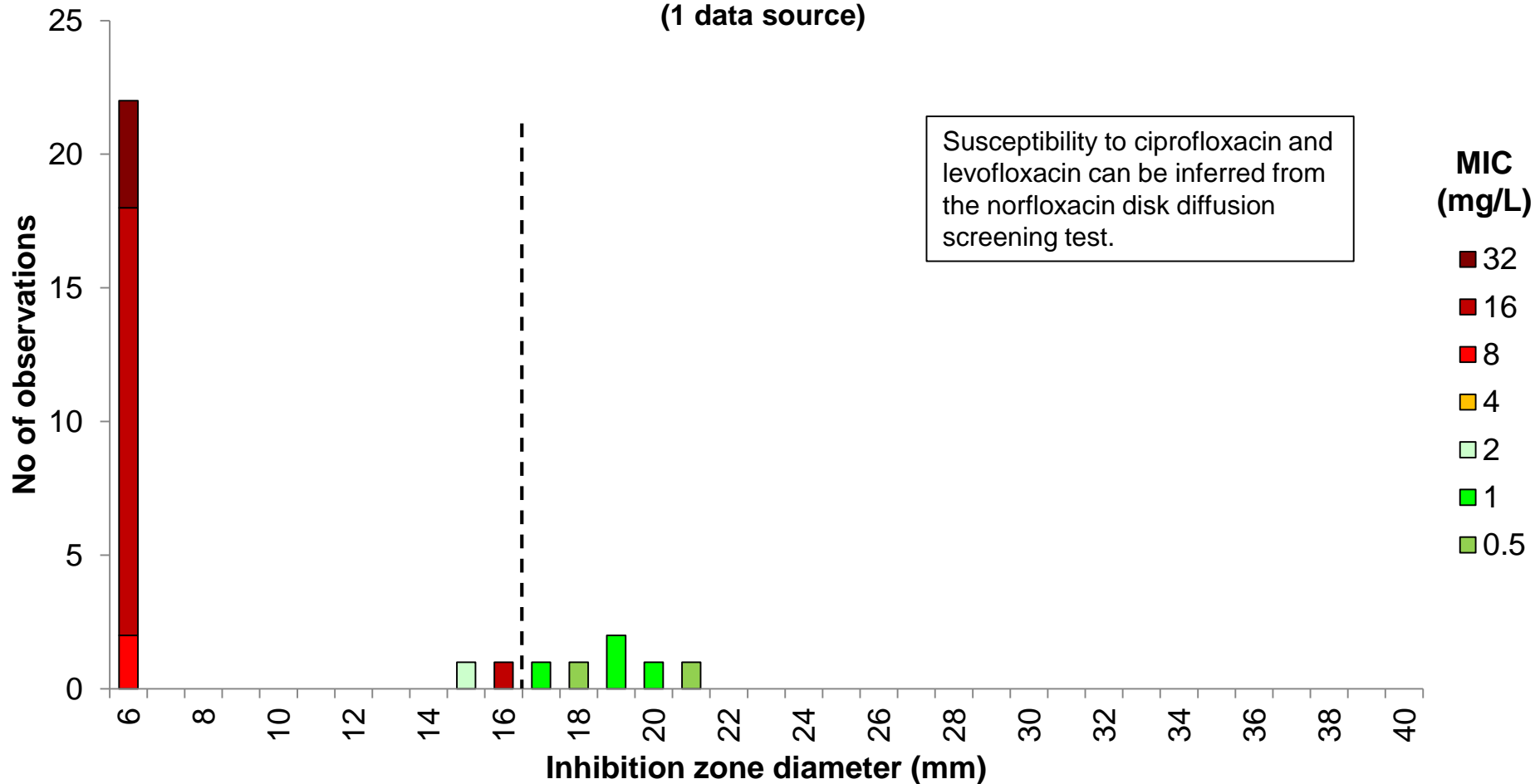
$S \leq 2$ ,  $R > 2$  mg/L

Norfloxacin zone diameter (screen)  $S \geq 17$ ,  $R < 17$  mm

# Norfloxacin 10 µg vs. Ciprofloxacin MIC

## *A. sanguinicola*, 30 isolates

(1 data source)



### Breakpoints

Ciprofloxacin MIC

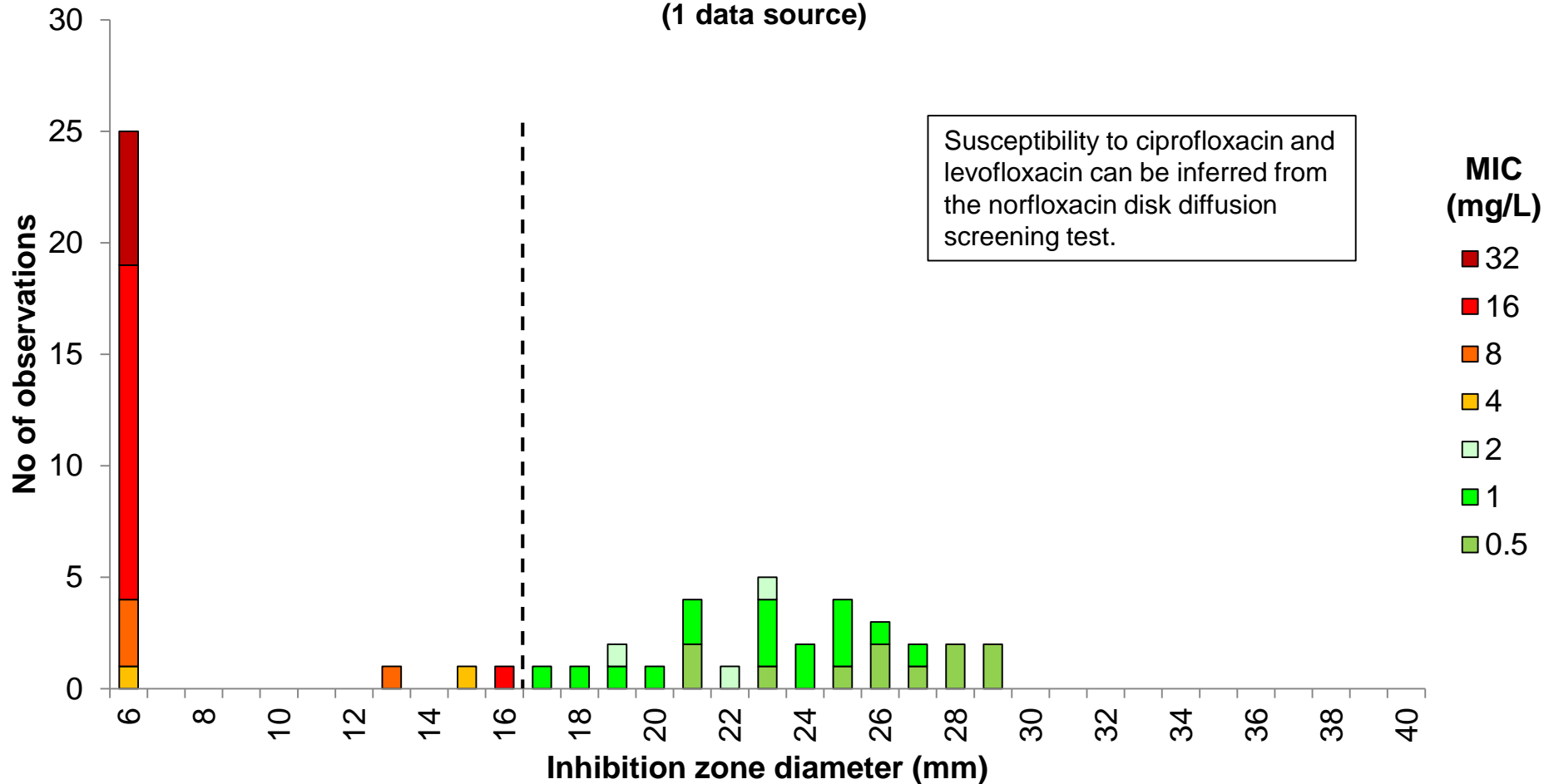
$S \leq 2$ ,  $R > 2$  mg/L

Norfloxacin zone diameter (screen)

$S \geq 17$ ,  $R < 17$  mm

# Norfloxacin 10 µg vs. Levofloxacin MIC *A. urinae* and *A. sanguinicola*, 58 isolates

(1 data source)



## Breakpoints

Levofloxacin MIC

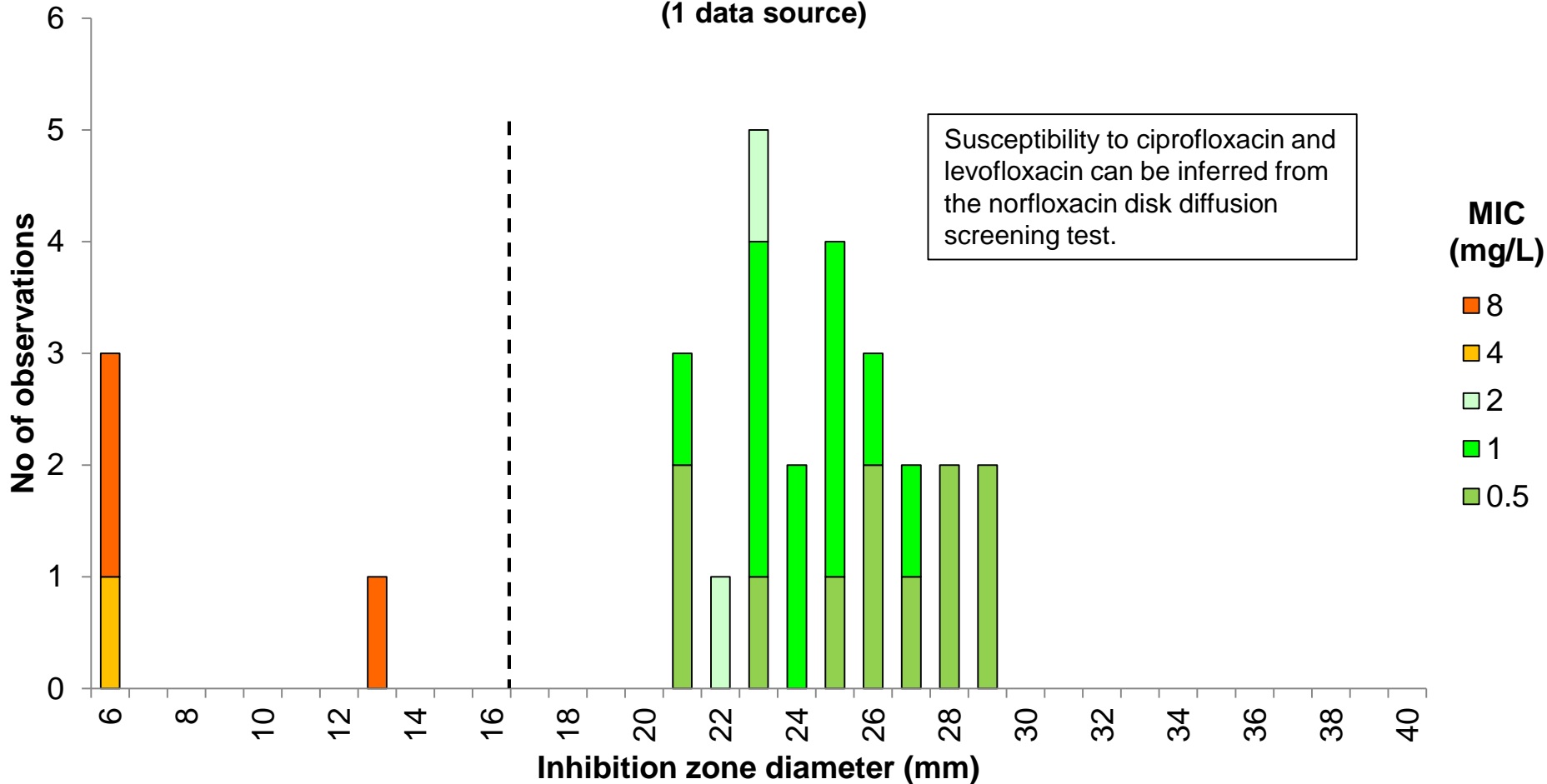
$S \leq 2$ ,  $R > 2$  mg/L

Norfloxacin zone diameter (screen)  $S \geq 17$ ,  $R < 17$  mm

# Norfloxacin 10 µg vs. Levofloxacin MIC

## *A. urinae*, 28 isolates

(1 data source)



### Breakpoints

Levofloxacin MIC

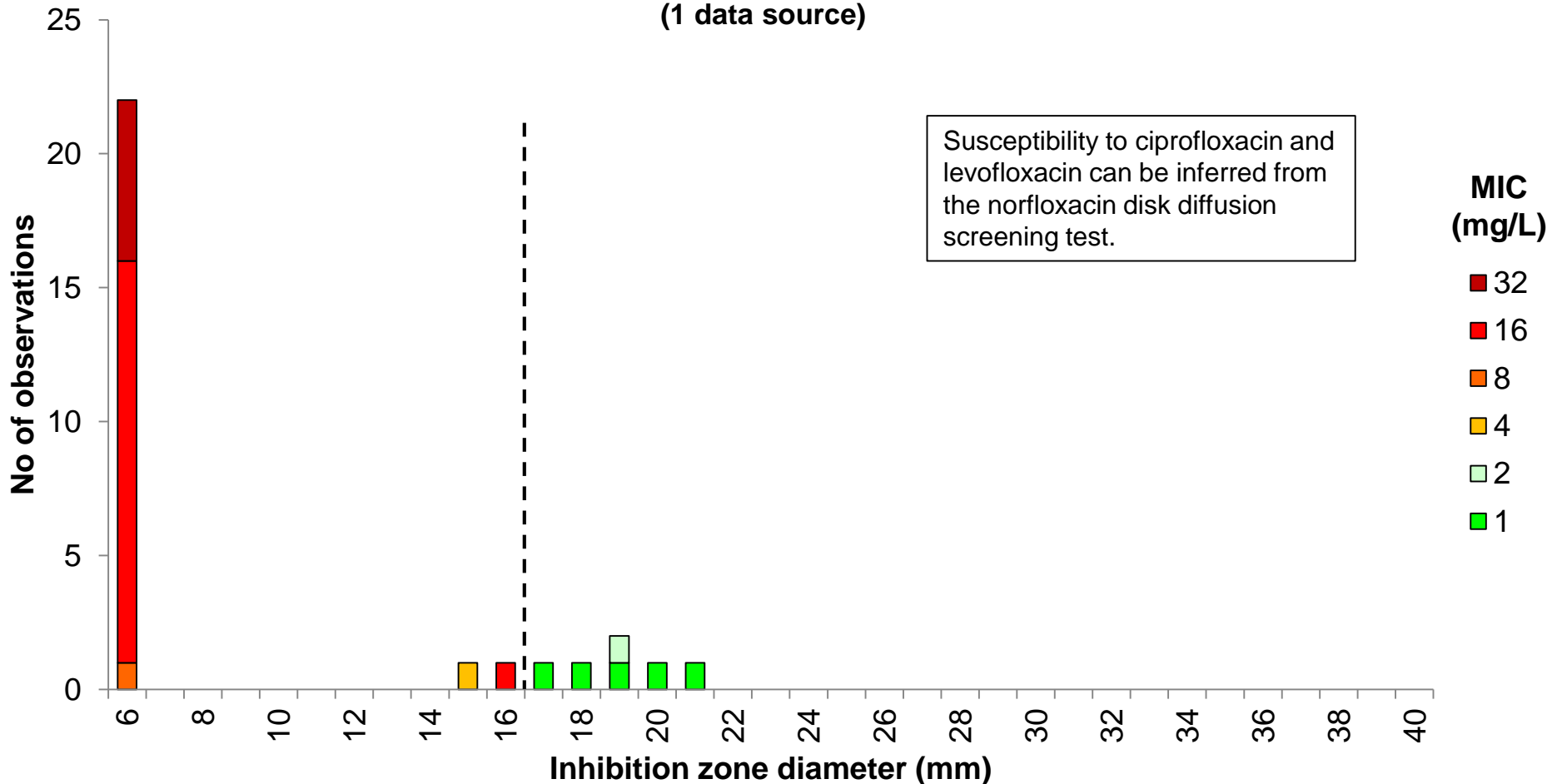
$S \leq 2$ ,  $R > 2$  mg/L

Norfloxacin zone diameter (screen)  $S \geq 17$ ,  $R < 17$  mm

# Norfloxacin 10 µg vs. Levofloxacin MIC

## *A. sanguinicola*, 30 isolates

(1 data source)



### Breakpoints

Levofloxacin MIC

$S \leq 2$ ,  $R > 2$  mg/L

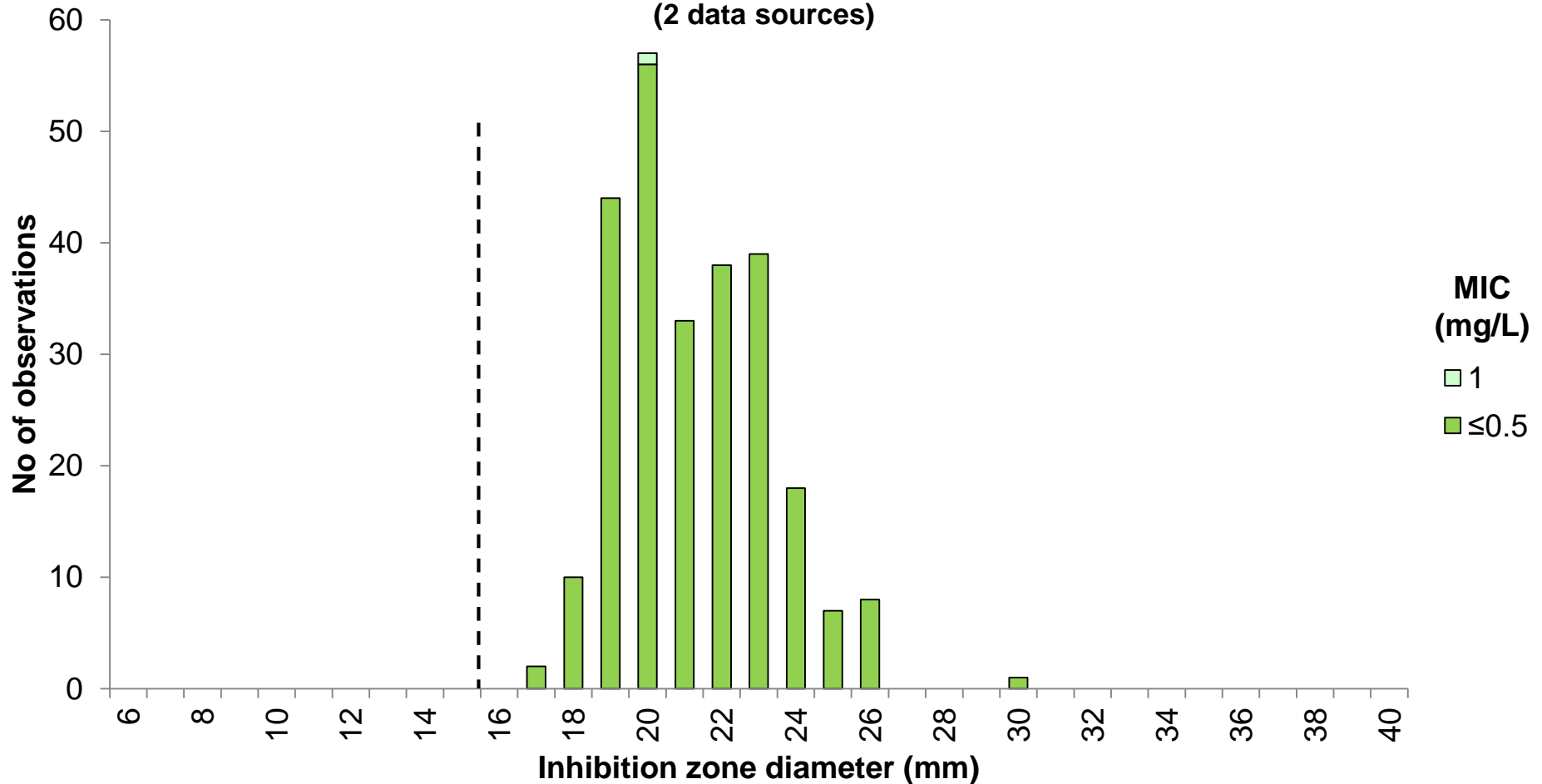
Norfloxacin zone diameter (screen)

$S \geq 17$ ,  $R < 17$  mm

# Vancomycin 5 µg vs. MIC

## *A. urinae* and *A. sanguinicola*, 204 isolates (257 correlates)

(2 data sources)



### Breakpoints

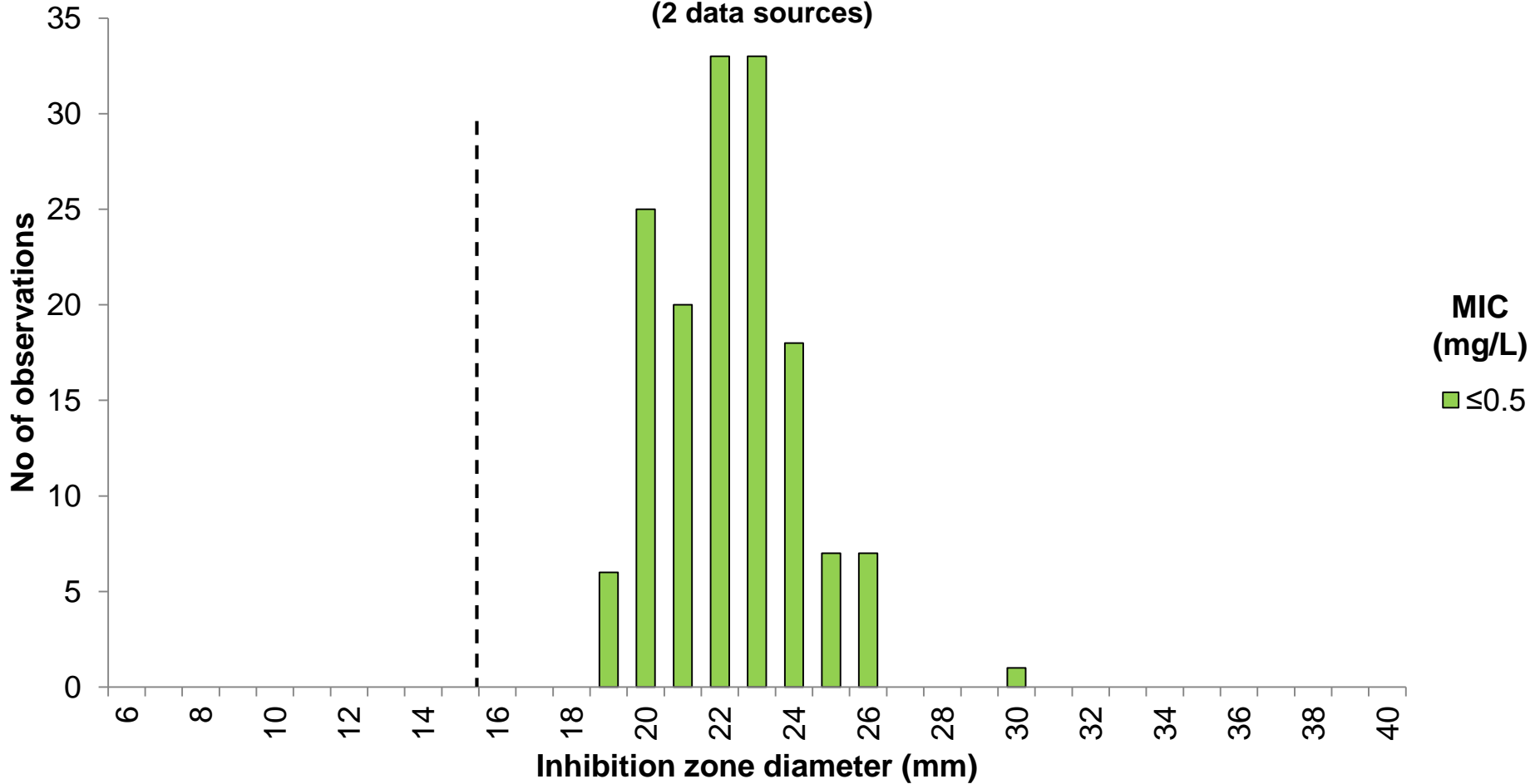
MIC  $S \leq 1$ ,  $R > 1$  mg/L

Zone diameter  $S \geq 16$ ,  $R < 16$  mm

# Vancomycin 5 µg vs. MIC

## *A. urinae*, 120 isolates (150 correlates)

(2 data sources)



### Breakpoints

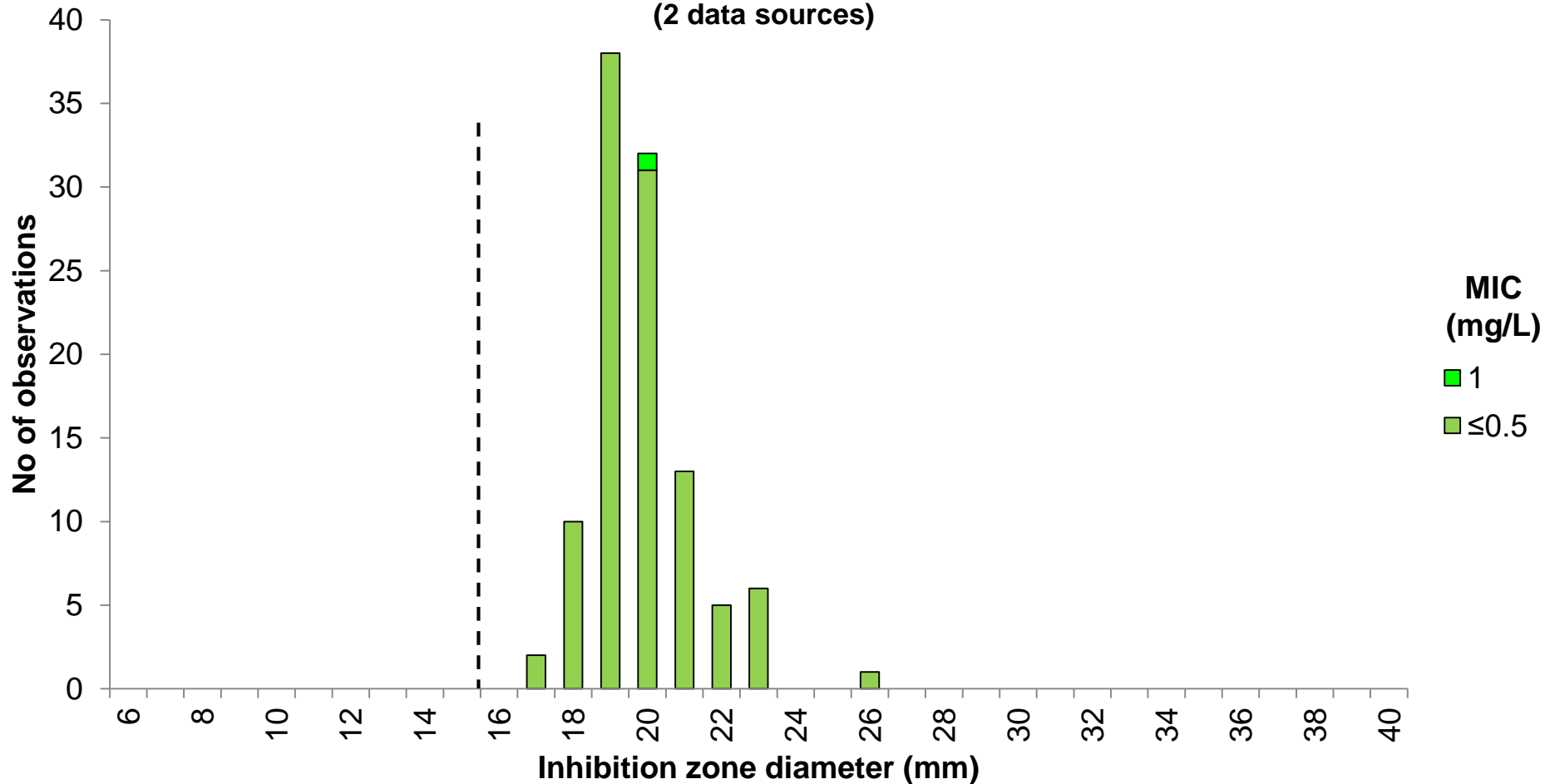
MIC  $S \leq 1$ ,  $R > 1$  mg/L

Zone diameter  $S \geq 16$ ,  $R < 16$  mm

# Vancomycin 5 µg vs. MIC

## *A. sanguinicola*, 84 isolates (107 correlates)

(2 data sources)



### Breakpoints

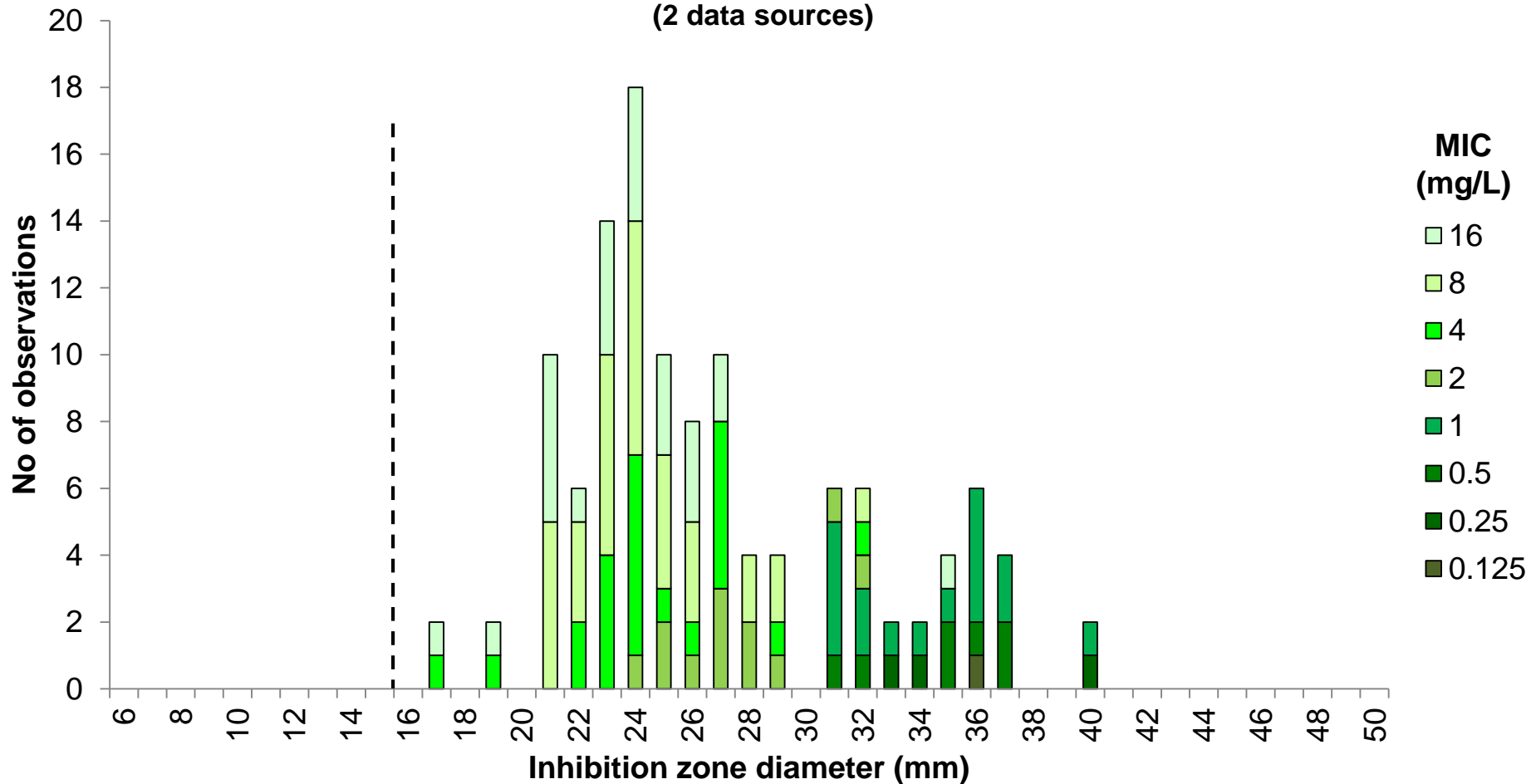
MIC  $S \leq 1$ ,  $R > 1$  mg/L

Zone diameter  $S \geq 16$ ,  $R < 16$  mm

# Nitrofurantoin 100 µg vs. MIC

## *A. urinae* and *A. sanguinicola*, 60 isolates (120 correlates)

(2 data sources)

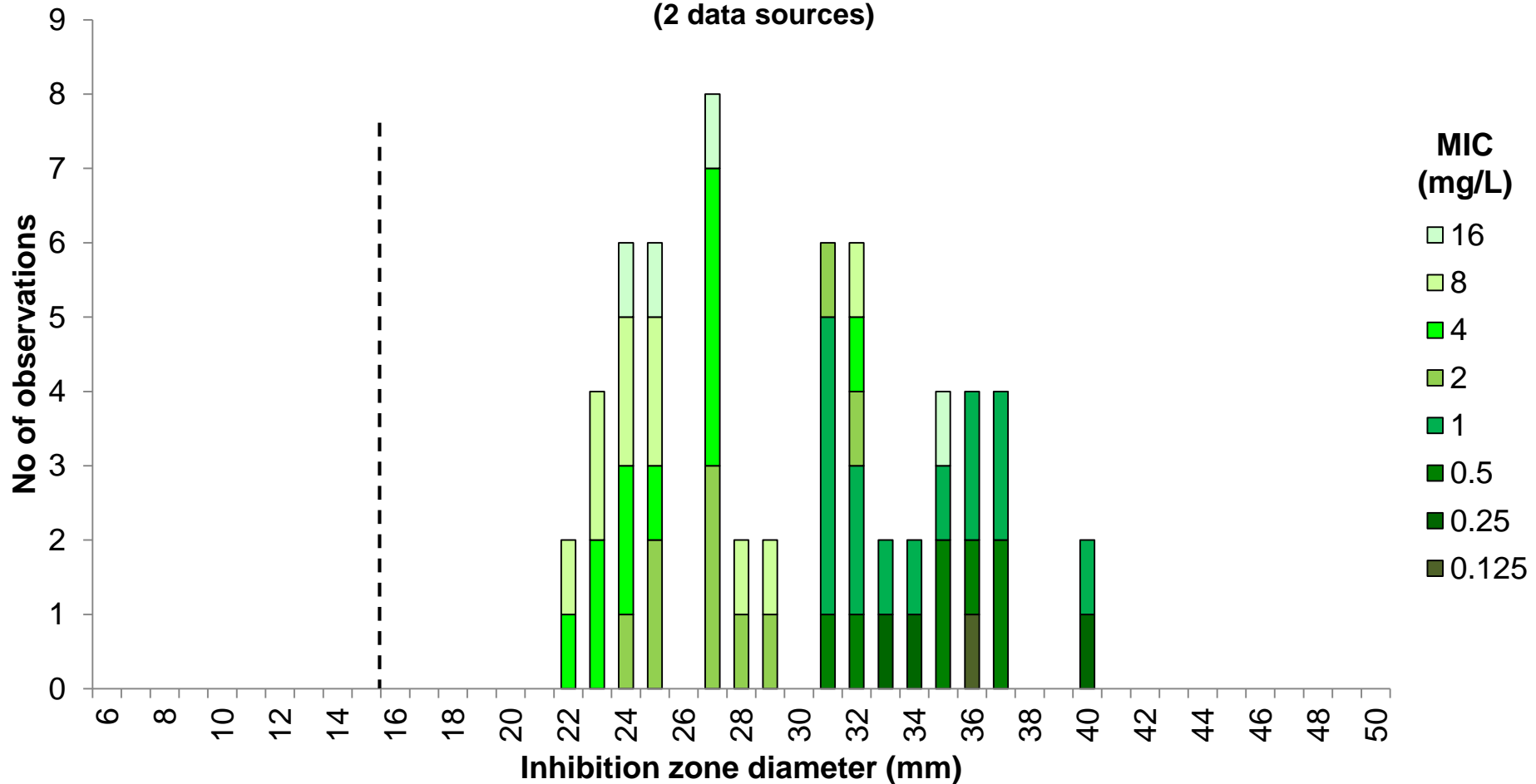


<b>Breakpoints</b>	
MIC	$S \leq 16, R > 16$ mg/L
Zone diameter	$S \geq 16, R < 16$ mm

# Nitrofurantoin 100 µg vs. MIC

## *A. urinae*, 30 isolates (60 correlates)

(2 data sources)



### Breakpoints

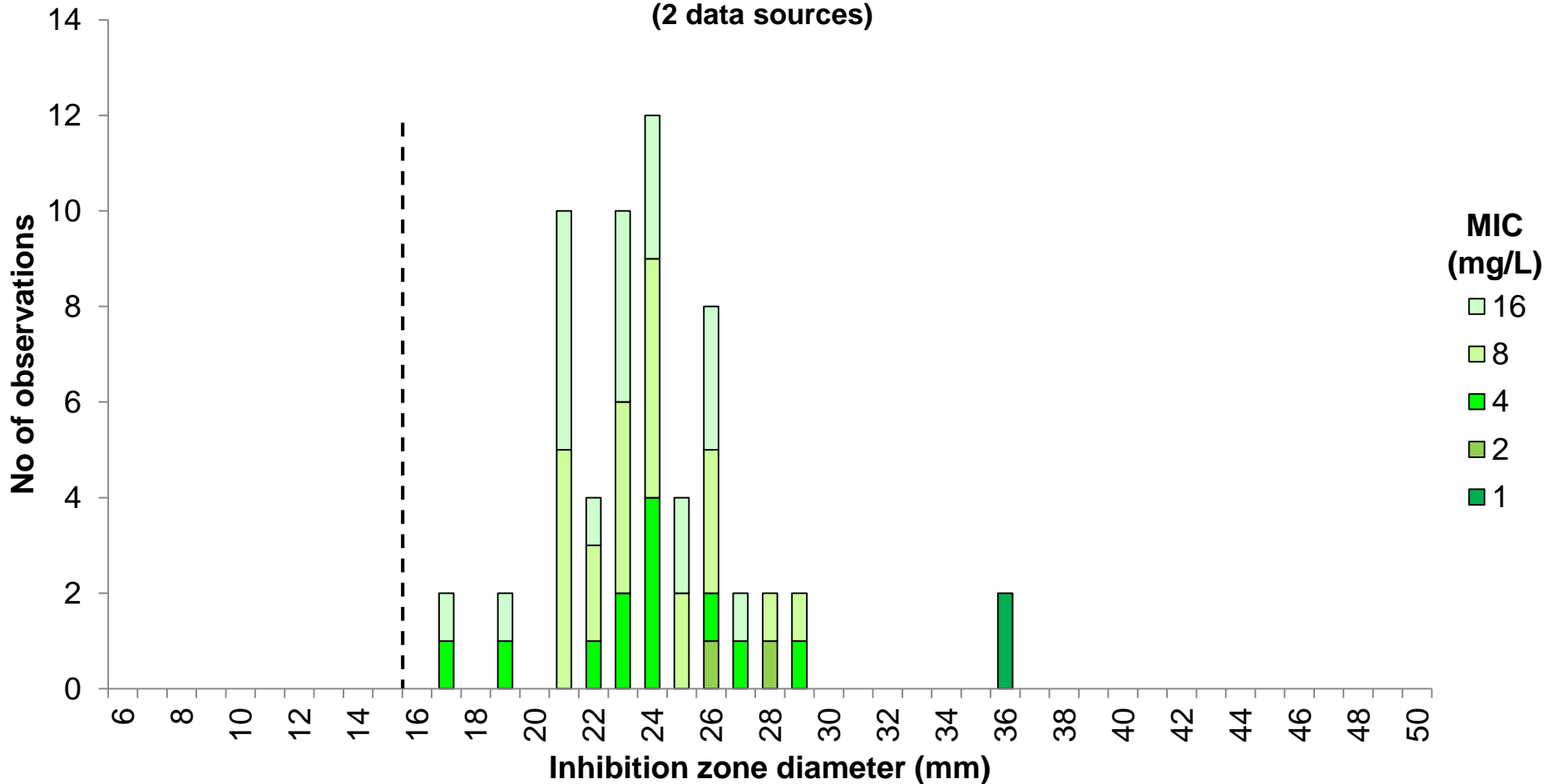
MIC  $S \leq 16$ ,  $R > 16$  mg/L

Zone diameter  $S \geq 16$ ,  $R < 16$  mm

# Nitrofurantoin 100 µg vs. MIC

## *A. sanguinicola*, 30 isolates (60 correlates)

(2 data sources)



### Breakpoints

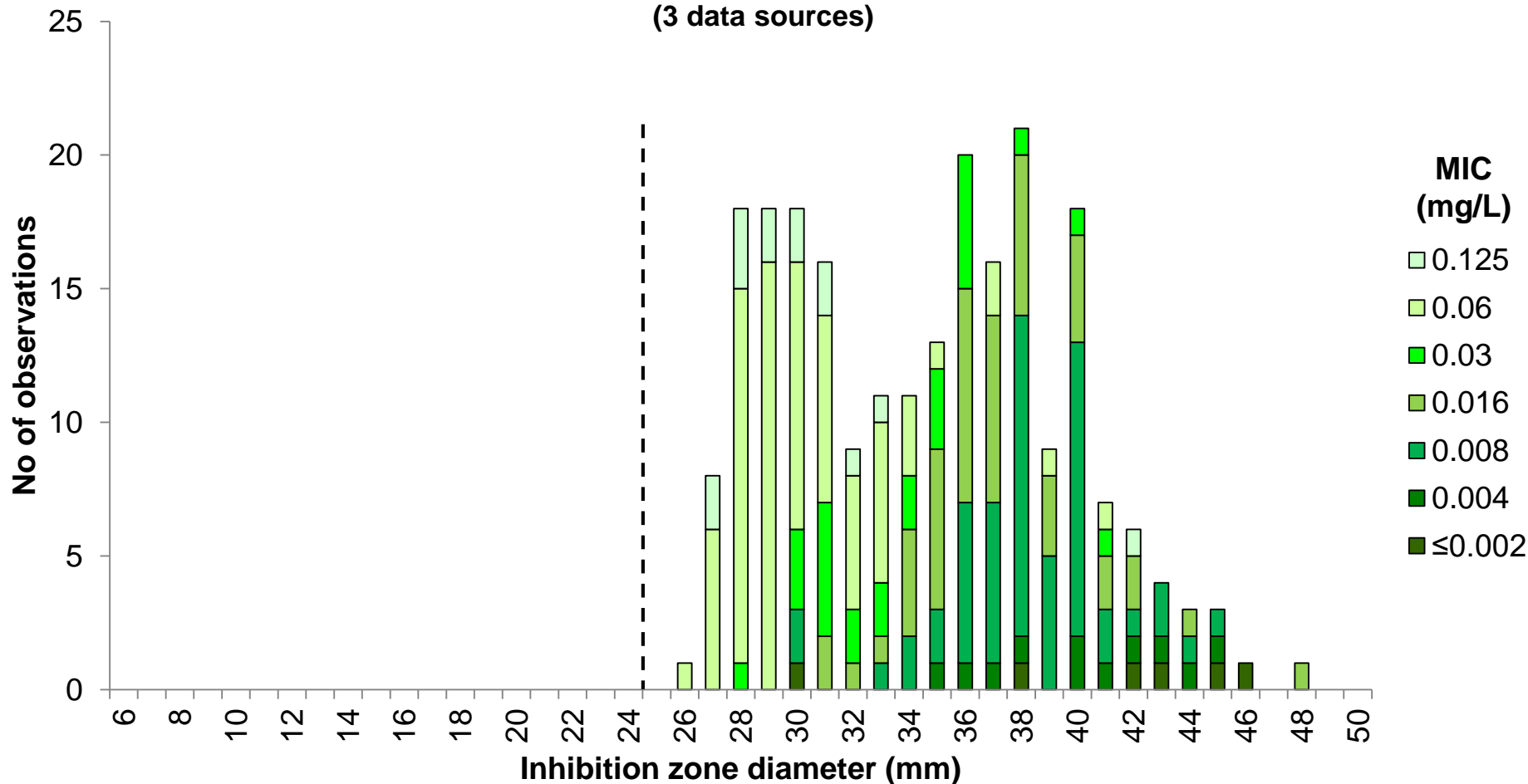
MIC  $S \leq 16, R > 16$  mg/L

Zone diameter  $S \geq 16, R < 16$  mm

# Rifampicin 5 $\mu$ g vs. MIC

## *A. urinae* and *A. sanguinicola*, 190 isolates (232 correlates)

(3 data sources)

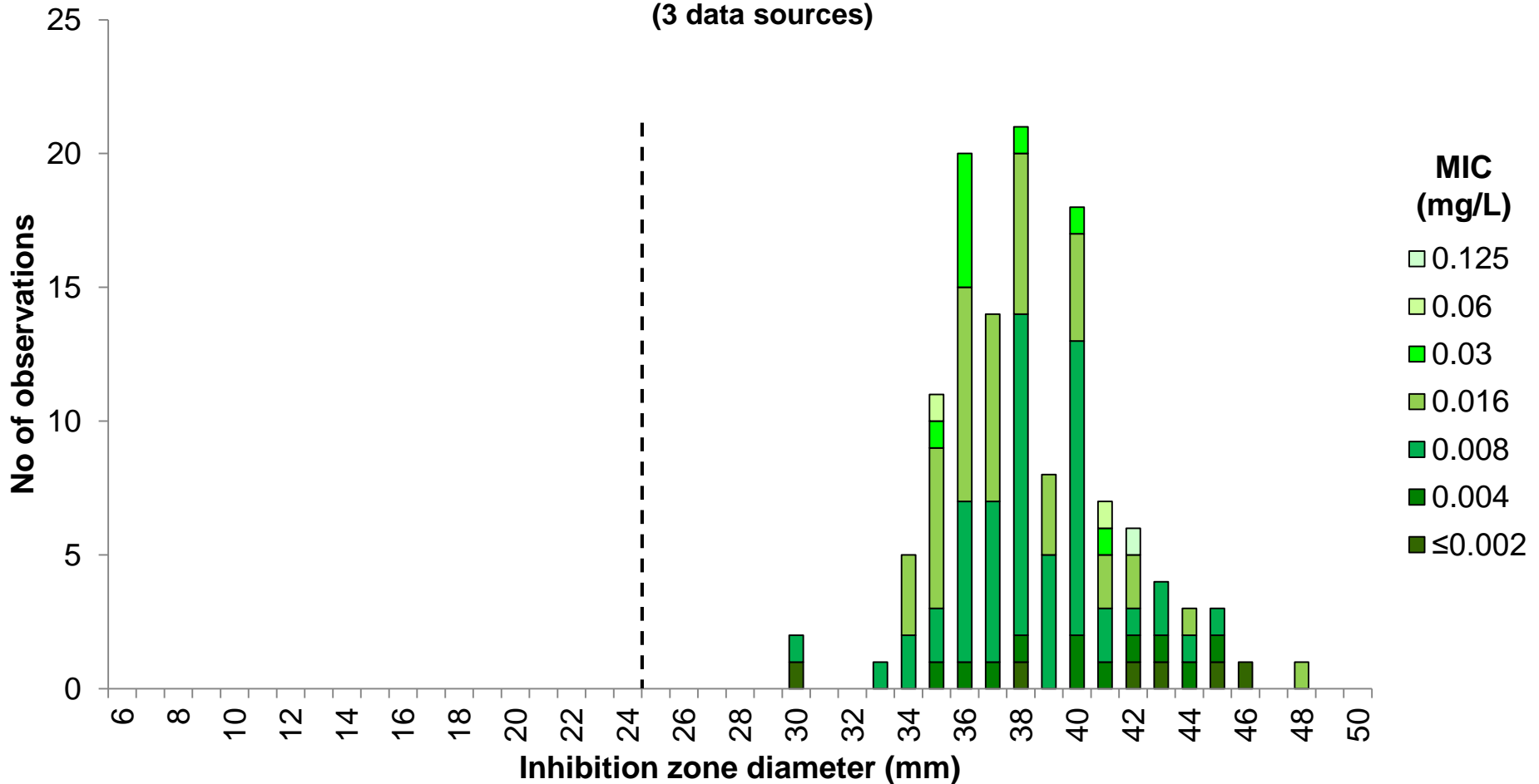


Breakpoints	
MIC	S $\leq 0.125$ , R $> 0.125$ mg/L
Zone diameter	S $\geq 25$ , R $< 25$ mm

# Rifampicin 5 µg vs. MIC

## *A. urinae*, 112 isolates (125 correlates)

(3 data sources)



### Breakpoints

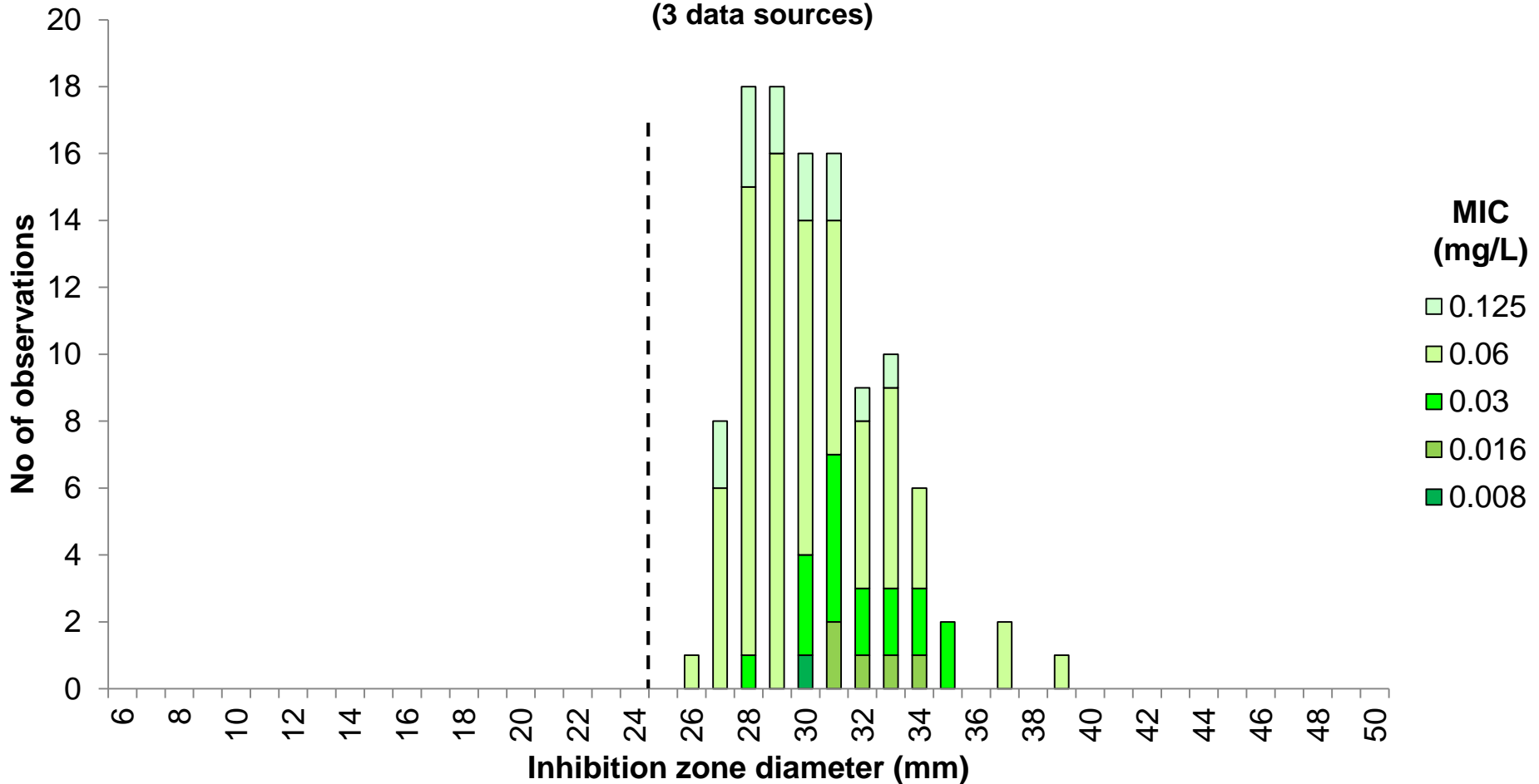
MIC S≤0.125, R>0.125 mg/L

Zone diameter S≥25, R<25 mm

# Rifampicin 5 µg vs. MIC

## *A. sanguinicola*, 77 isolates (107 correlates)

(3 data sources)



### Breakpoints

MIC  $S \leq 0.125$ ,  $R > 0.125$  mg/L

Zone diameter  $S \geq 25$ ,  $R < 25$  mm



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