

## Flock size and family size

# Reconstructing number of families

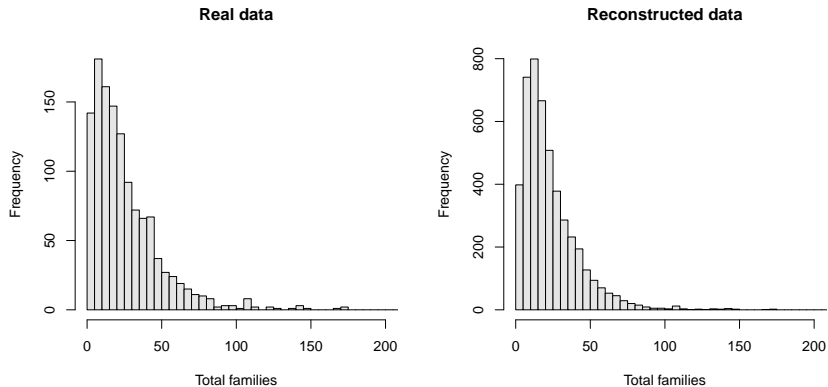


Figure 1: Total families reconstructed from juvenile count are distributed similar to real data.

# Family size ~ flock size

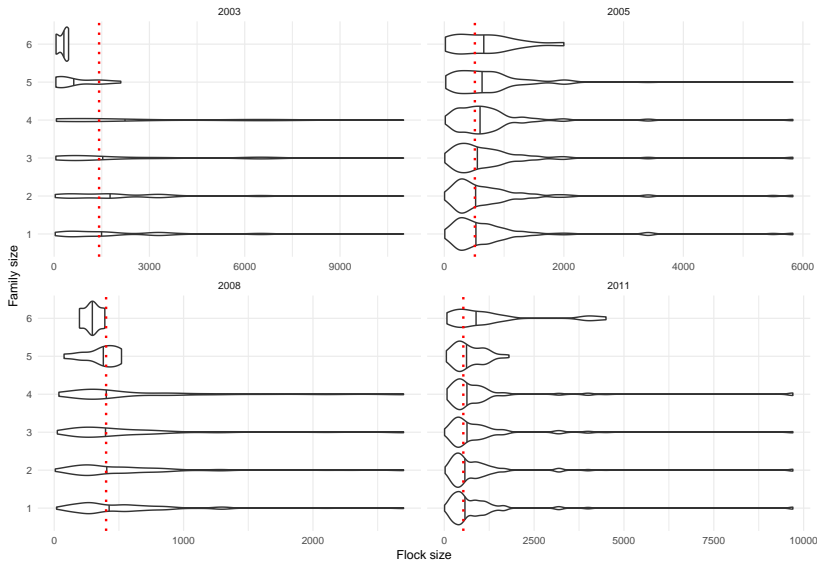


Figure 2: Violin plot. Black line: median flock size. Families > 4 are found in flocks > median in lemming peak years ('05). Red dotted line: median flock size.

# Family size $\sim$ flock size

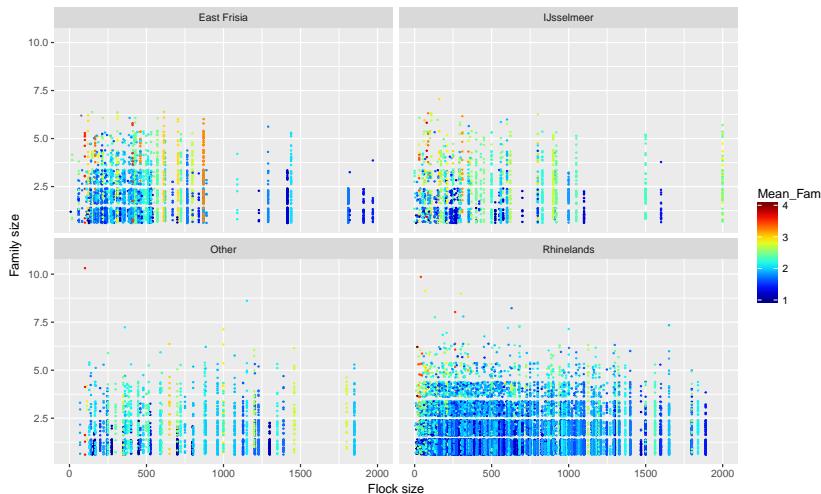


Figure 3: Family size  $\sim$   $\ln(\text{flock size})$ . Flocks of all sizes have families of all sizes.

# Family size spatial pattern

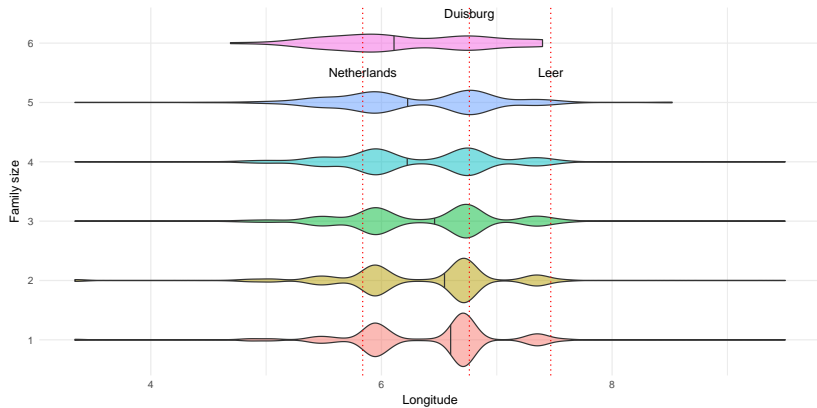


Figure 4: Families  $> 3$  have a lower median longitude.

# Flock size spatial pattern

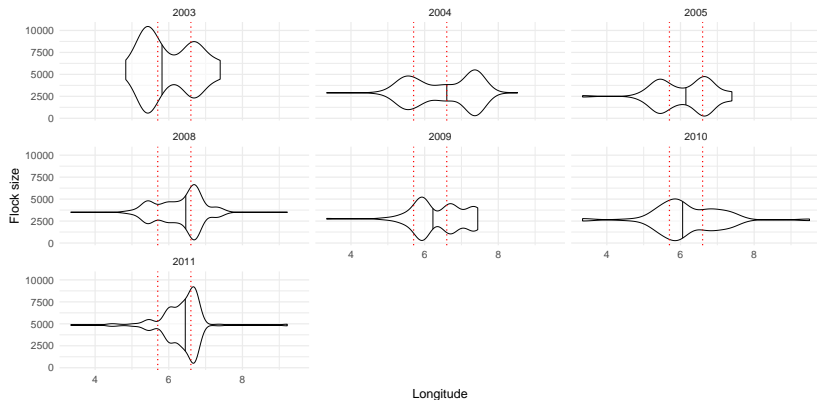


Figure 5: Flocks are larger in the east in some years. Dotted red line: Friesland (L) & Rhineland (R).