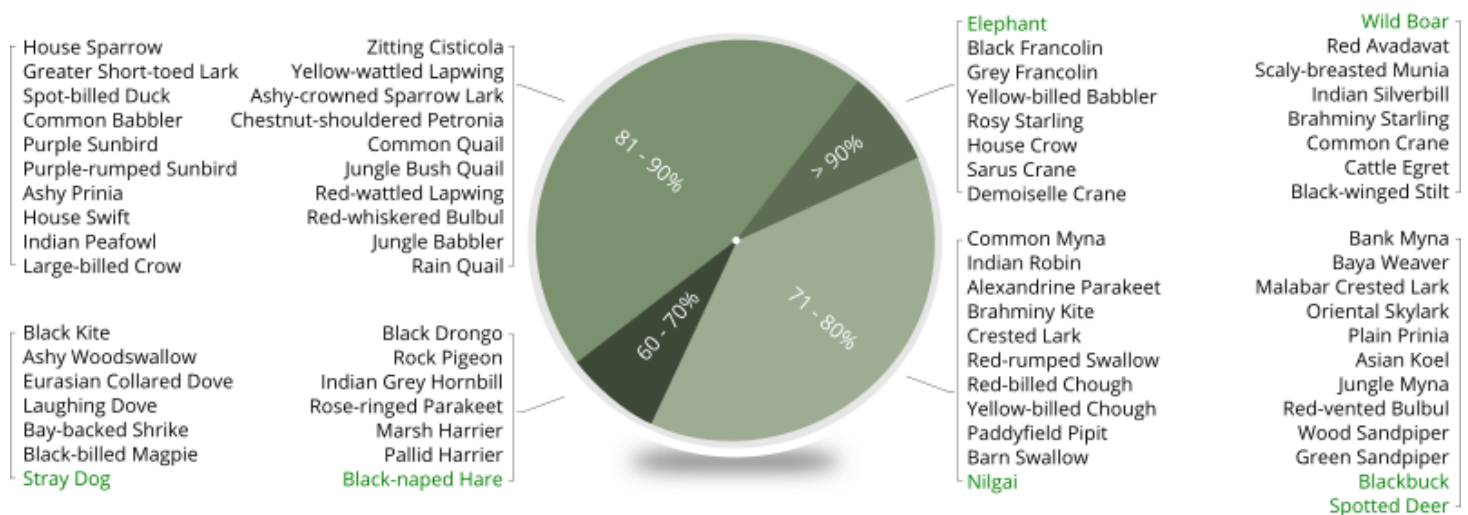


# Inter Quartile Range (IQR): Harmony - M3



## IQR Analysis

### Methodology

An operation vehicle was used for setting up 'Harmony M3 Patrol' acoustic equipment and testing in the airports. Broadcasting of acoustics was directed towards flock/bird by remaining at a safe distance with minimal body movements. An iPod was slaved to M3 to quickly select the required calls. Behaviour of the target birds were scored on Likert scale of 100 such as:

- 1.Alert: Recording of initial response of birds such as time taken to look up or stopping feeding or gleaning activity etc. 10 marks
- 2.Lift: Recording of how hastily the birds took off and proportion of birds that took to wings. 10 marks
- 3.Approach: Extent to which birds approached the source of sound. 10 marks

4.Hold: Total time taken by the birds to remain over the source of sound. 10 marks

5.Disperse: Total time taken to disperse from the area of danger and proportion of birds that ultimately left the area of broadcasting. 60 marks

The scores were analysed using IQR-software. The absolute measure of dispersion and Interquartile ratios was calculated. Median scores were considered for calculating the total effectiveness of Harmony on targeted bird species.

Animal behaviour was tested using above mentioned method in suitable habitats. Indirect and direct evidences of animal incursion were used for calculating equipment effectiveness.

### Results

Overall efficiency of equipment (median scores):

Yelahanka airport, Bangalore: 82.3%

SVP International airport, Ahmedabad: 66.5%

Animals in various habitats: 67-94%