



Perch design preferences of commercial broiler chickens reared in windowed houses

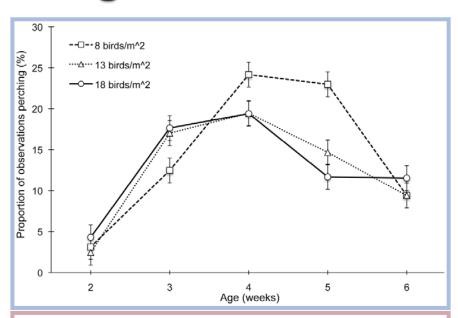


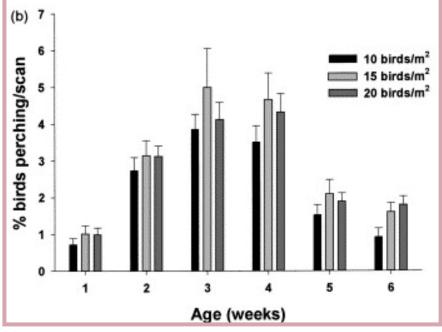
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Broiler chicken perching behaviour

Motivation to perch persists in fast growing commercial broiler chickens (eg Ventura *et al.*, 2010; Ventura *et al.*, 2012)

Levels of perching behavior are generally low (eg. Le Van *et al.*, 2000; Su *et al.*, 2000; Pettit Riley and Estevez 2001)





Experimental design and method – perch designs

Step up perch



Swinging bar



Suspended platform



Experimental design and method – perch designs

Flat top ramp



Curved mesh ramp





A frame



Experimental design and method

Farm 1

Timber framed house 1098m² Initial stocking density:

Cycle 1: 12birds/m²

Cycle 2: 17birds/m²





Farm 2

Steel framed house 1325m² Initial stocking density:

Cycle 1: 12birds/m²

Cycle 2: 17birds/m²

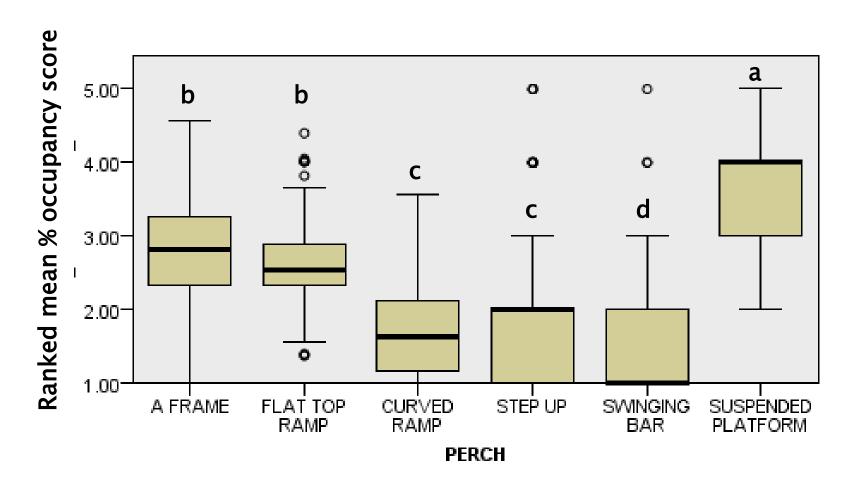






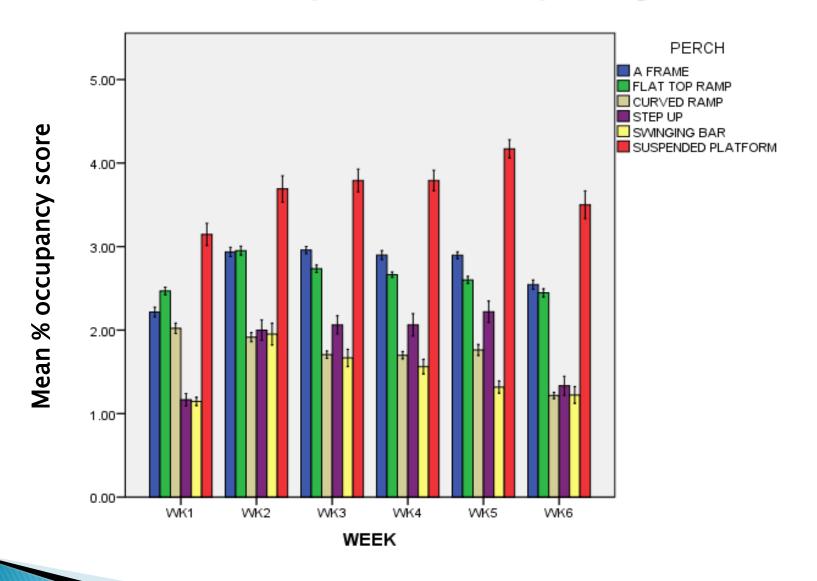


Results – perch occupancy

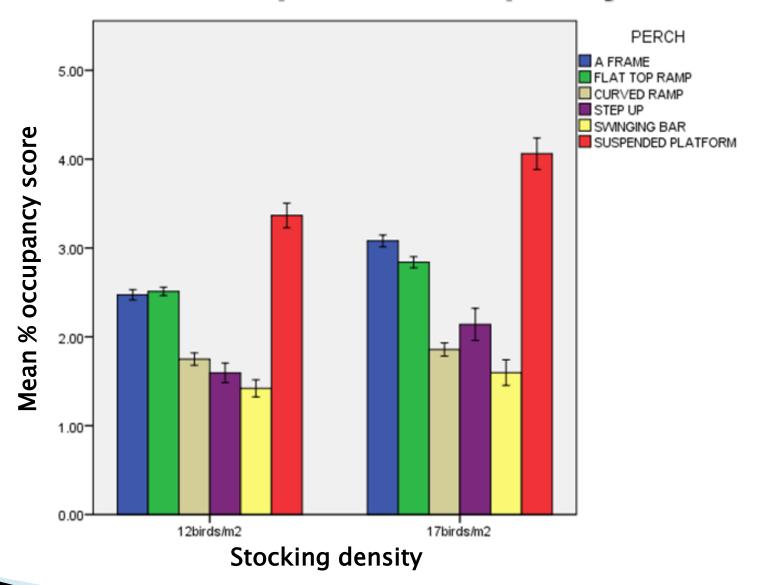


Significant difference in the occupation of different perch designs $\c C(1, n=1470)786.02, p<0.01)$

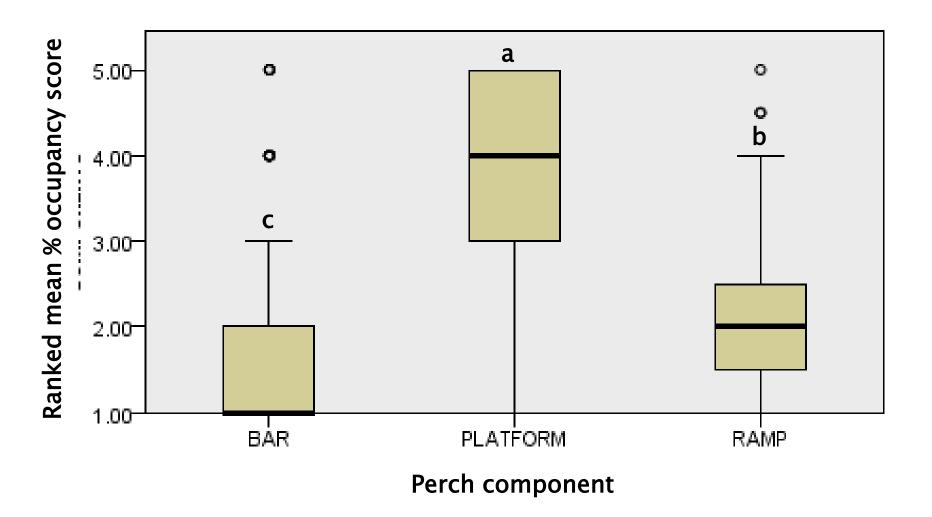
Results – perch occupancy



Results – perch occupancy

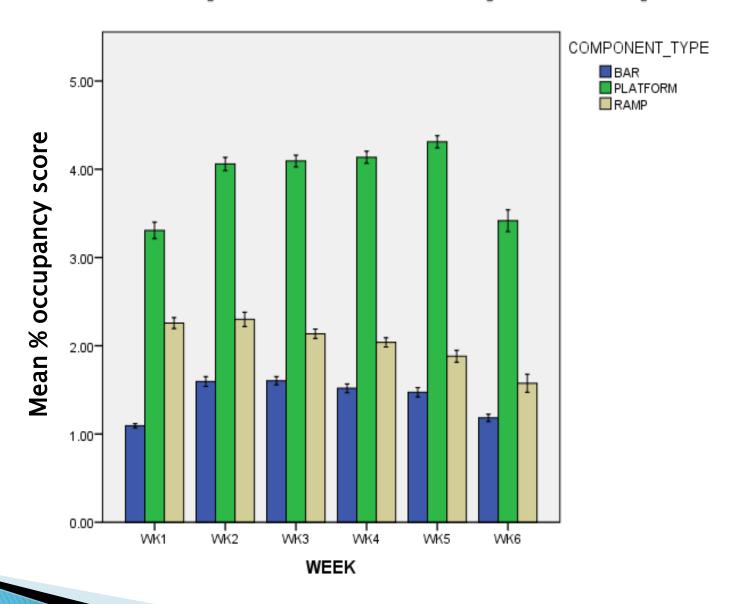


Results – occupation of component parts

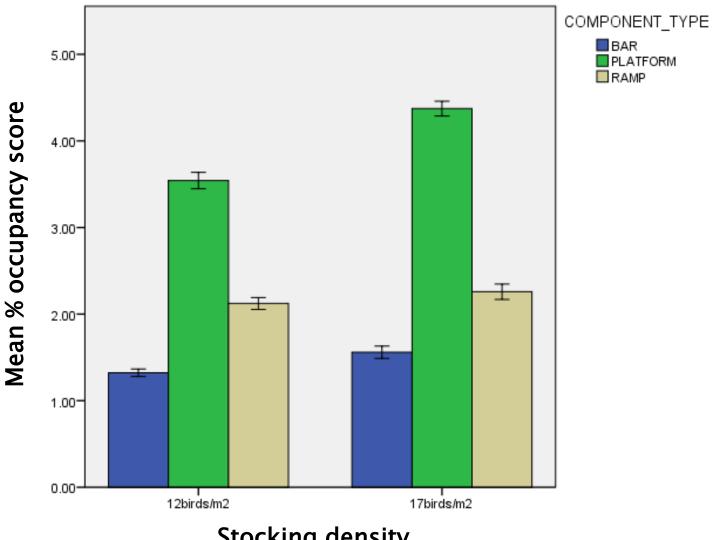


Significant difference in the percentage occupancy of different component parts $\mathcal{C}(1, n=2714)1645.59, p<0.01)$.

Results – occupation of component parts

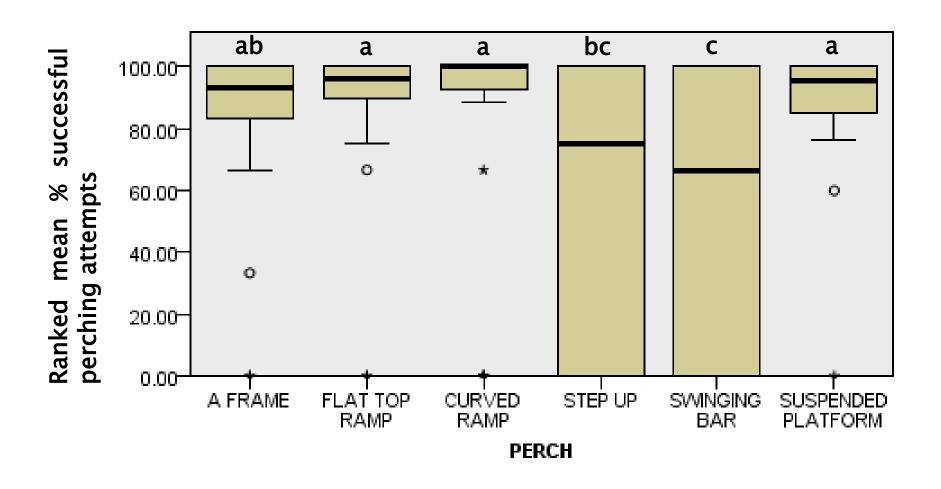


Results – occupation of component parts



Stocking density

Results – perching attempts



Significant difference in the proportion of perching attempts that succeeded (Dz(1, n=241)32.93, p<0.01) for different perch designs

Summary of results

Overall occupation



Component occupation

Component	Degree of occupation
Platform	Highest
Ramp	Intermediate
Bar	Lowest

Successful and failed perching attempts

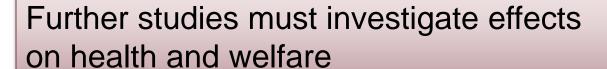


Conclusions and Implications

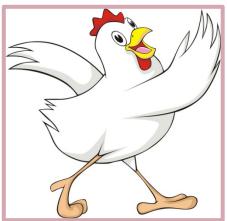
Platforms may replace traditional perches



Guidelines for provision based on linear space allowances may become obsolete







Thank you for listening!



Questions?