

Appendix S1. Camera-trapping details and perching assignment procedure.

We used at least two BTC-5HDE Browning Trail Cameras in each flying pen. Cameras were placed at a maximum height of 3.5 meters and focused on the entire flying pen, or if more than two cameras were used, on complementary sections of the pen. We used TimeLapse+ mode and camera shot in 10-min intervals and with each detected movement. Cameras operated according to the available light, and always during the 6-22 hour period (greater during the summer). We gathered one picture per lapse, with maximum resolution and detector sensitivity. Camera maintenance was carried out only when birds were changed between flying pens, and on a weekly basis for longer perch trials. In the FIEB perch trial, a fixed CCTV camera was used with a one-minute time-lapse.

In some perch trials, we also added a Moultrie M-999i Mini Game Camera that was movement-triggered. These cameras were installed preferably in trials involving higher levels of crepuscular activity.

We have considered that each animal perches at least one time. If no perch was detected in insulator strains, perch is assigned to the ground. Alternatives perches were also considered as ground.

When there are few non-distinguishable animals in the same installation, we assigned the perching after this procedure:

- The first perching individual is considered as individual number 1; if another individual perches later and individual number 1 is still perched, it is considered number 2, and so on.
- When individuals move between perches, if there is no strain insulator change, the same individual remains in the strain insulator. I.E., if individual #1 is perched on insulator strain A, individual #2 is perched on insulator strain B and one individual moves to insulator strain C and other is perched on insulator strain B, we assign the perching on insulator strain C to individual #1
- If all individuals change, and no one perches on the ground, we consider hourly movements, so individual #1 is assigned to the perching to its nearest perch following an hourly displacement. And the rest of the individuals are assigned following this criterion, first of all individual #2, and so on.