

These data sets are described in detail in the article “Visit, consume and quit: patch quality affects the three stages of foraging” by Mella et al. 2018, published in Journal of Animal Ecology.

Missing data is coded as “.”

Description of column headings in each data set:

File ‘Possum Nitrogen experiment VIDEO dataset’

Day = day within phase of the experiment;

Period = actual treatment day;

Date = day month year;

Site = Sphinx or Warrimoo;

Block = 1-8 on Sphinx, 9-12 on Warrimoo;

Feeder = 1-4 within each block;

BlkF = individual feeder id across all blocks;

Cam = camera number;

Treat = nitrogen treatment 0.008, 0.010, 0.014, 0.019.

Diet = A is 0.008, B is 0.010, C is 0.014, D is 0.019

Carry = carryover: refers to the treatment in the plot in the preceding period;

VVis = visited based on videos: yes or no, visit proved by video;

GVis = visited based on GUD: yes or no, based on whether 20th pellet had been taken or not;

FVis = visited based on feeder visit: yes or no, based on either GVis or VVis;

BVis = visited based on block: yes or no, based on if at least one of feeder of the block was visited;

BlkP = combined block - period;

GUD = 0-20;

Rats = number of rat scats at feeder;

Comp = dataset complete? Y or N;

VideoN = number of videos for this bout;

Bstart = Bout start: video start time;

Bend = Bout end: video end time;

VisO = order of visit within the block for that night;

BoutN = number of bouts at this feeder for that night;

LastB = last bout? Y or N

BoutO = order of bout at this feeder for that night;

RBoutL = real length of bout (sum of all bouts at a feeder based on video time - includes gaps in videos);

RTotT = tot time spent at the feeder (includes gaps in videos);

ForN = number of foraging events;

MovN = number of moving events;

OthN = number of other behaviours events;

VigN = number of vigilant events;

InvN = number of investigating events;

AwaN = number of aware (vigilant and foraging at the same time) events;

SForT = time spent foraging in sec;

SMovT = time spent moving in sec;

SOthT = time spent in other behaviours in sec;

SVigT = time spent vigilant in sec;
 SInvT = time spent investigating in sec;
 SAwaT = time spent aware (vigilant and foraging at the same time) in sec;
 STotT = total time spent in sec IN VIEW at feeder
 VigP = proportion of time spent vigilant;
 ForP = proportion of time spent foraging;
 AwaP = proportion of time spent aware;
 OthP = proportion of time spent in other minor behaviours;
 InvP = proportion of time spent investigating feeder;
 ForT = time spent foraging in min;
 MovT = time spent moving in min;
 OthT = time spent in other behaviours in min;
 VigT = time spent vigilant in min;
 InvT = time spent investigating in min;
 AwaT = time spent aware (vigilant and foraging at the same time) in min;
 TotT = total time spent in min IN VIEW at feeder

File 'Possum Nitrogen experiment GUD dataset'

Day = day within phase of the experiment;
 Period = actual treatment day
 Date = day month year
 Site = Sphinx or Warrimoo
 Block = 1-8 on Sphinx, 9-12 on Warrimoo
 Feeder = 1 - 4 within each block;
 BlkF = individual feeder id across all blocks;
 Cam = camera number;
 Treat = nitrogen treatment 0.007, 0.010, 0.014, 0.020 N
 Diet = A is 0.007, B is 0.010, C is 0.014, D is 0.020
 Carry = carryover: refers to the treatment in the plot in the preceding period;
 VVis = visited based on videos: yes or no, visit proved by video;
 GVis = visited based on GUD: yes or no, based on whether 20th pellet had been taken or not;
 FVis = visited based on feeder visit: yes or no, based on either GVis or VVis;
 BVis = visited based on block: yes or no, based on if at least one of feeder of the block was visited;
 BlkP = combined block - period (because some blocks are incomplete)
 GUD = 0-20;
 Rats = number of rat scats at feeder;
 Comp = dataset complete? Y or N
 Prob = probability of being visited, yes (1) or no (0)

File 'GC-MS dataset'

The sheet %TQPA refers to the percentage of the total quantifiable peak area for each compound. The sum of all the compounds for each sample will equal unity. The sheet marked CLR is the same data that has been centred logged-ratioed. The run labels refer to the higher desorb temperature, the letters to the N treatment (A is 0.007, B is 0.010, C is 0.014, D is 0.020) and the number to the replicate.