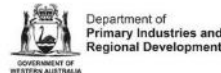




DUNG BEETLE ECOSYSTEM ENGINEERS PROJECT



Australia's Dung Beetle History



1960's
CSIRO started first
Dung beetle project



21 of 41

Dung beetle species
released have
persisted

437

Known Native Dung
Beetles Species





Beetle Database



Beetle Rearing



Beetle Distribution



Importation of new species/strains



Quantifying Economic Value

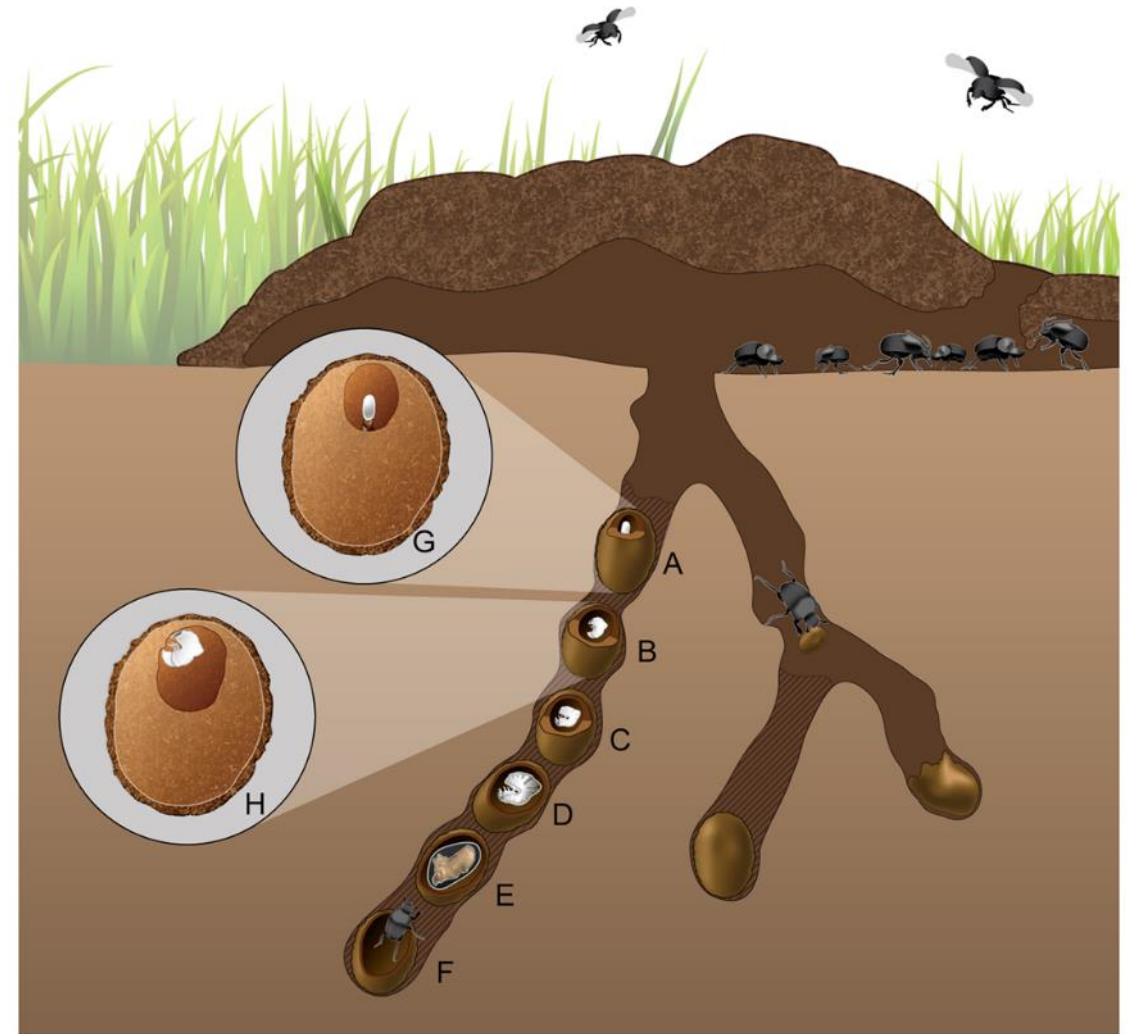
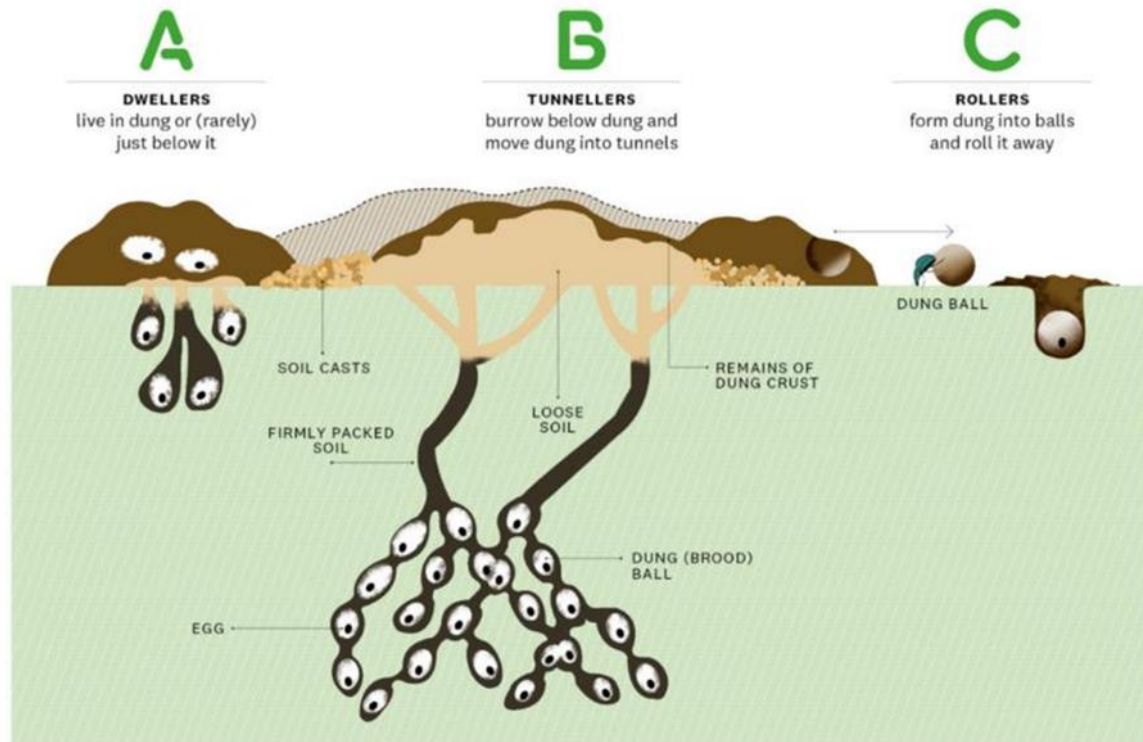


Community Education and Training

Projects Aims

Dung Beetles Life Cycle

The power of three: the main types of dung beetle workers



Benefits of Dung Beetles



Soil

- Aeration
- Infiltration
- Nutrients

Pasture

- Growth
- Reduction in Rank Pasture

Pest

- Reduces Bush Fly numbers
- Reduces livestock parasites number

Our Role



COMMUNITY
ENGAGEMENT



MONITORING




BREEDING




TRAPPING


DUNG BEETLES IN OUR AREA




Euoniticellus
intermedius
9 mm





Euoniticellus
pallipes
10 mm




Onthophagus
taurus
12 mm




Bubas bison
19 mm




Onthophagus
ferox
20 mm



Onitis alexis
20 mm



Onitis aygulus
25 mm



Copris hispanus
26 mm

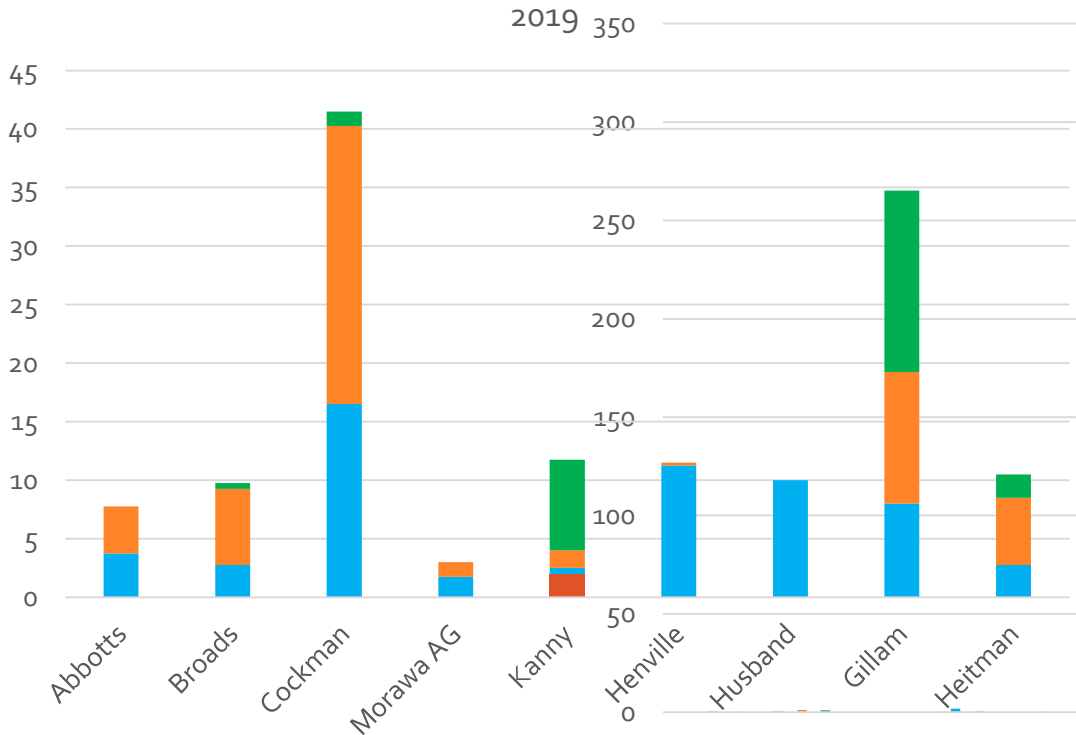
Largest
beetle in
WA

Trapping Results

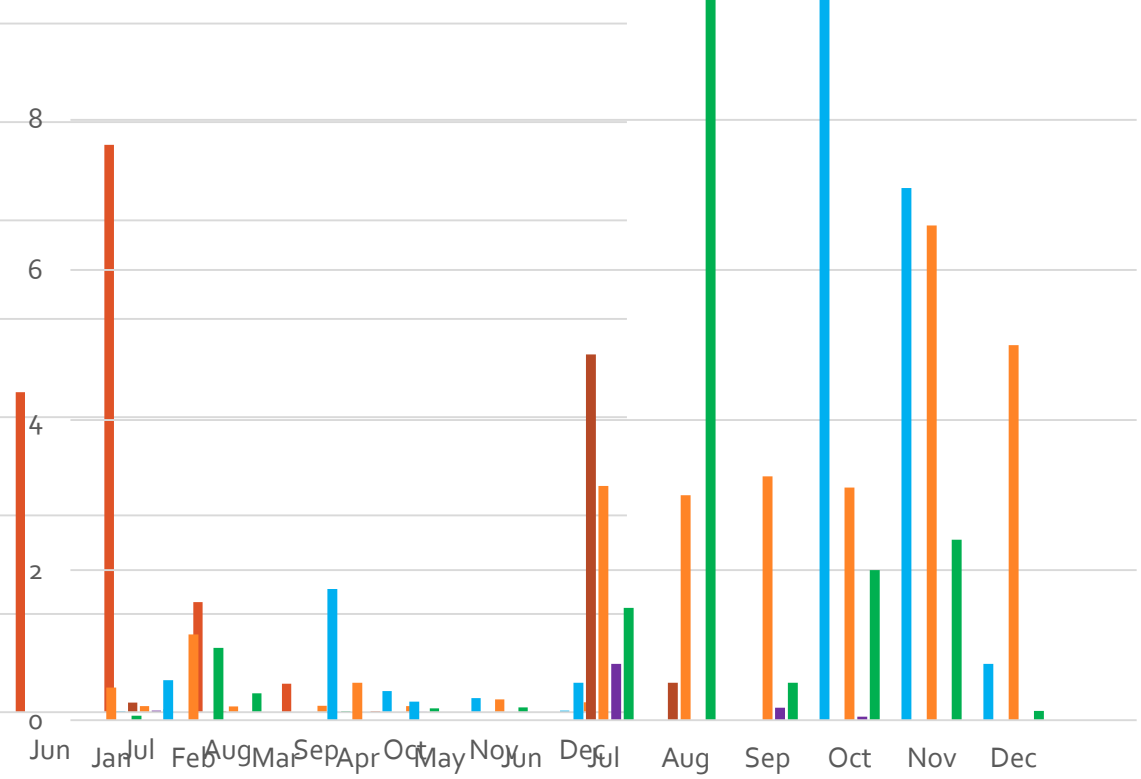
Average Dung beetle numbers and species per trap w/o B.bison

12

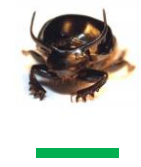
Dung beetle numbers per trap per property in November 2019



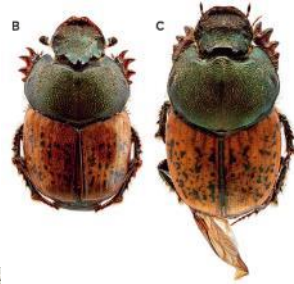
Average Dung beetle numbers and species per trap



■ B. bison
 ■ O. alexis/aygulus
 ■ Euon.
 ■ O. taurus
 ■ B. bison
 ■ O. alexis/aygulus
 ■ O. caffer
 ■ Euon.
 ■ Onth. ferox
 ■ O. taurus



Breeding



Community Engagement



Continue Monthly trapping

Seasonal trapping

Breeding beetles

Community workshops

Involve School students

Future Plans