



COTTON LANDCARE TECH-INNOVATIONS 2021

Strengthening Australian cotton farm biodiversity and sustainability management.

Stacey Vogel

Cotton Research and Development Corporation (CRDC) and CottonInfo



Cotton Landcare

TECH-INNOVATIONS 2021



National
Landcare
Program



CRDC

1

Australian Cotton Industry

2

Sustainability and RD&E

3

Cotton Landcare Tech-Innovations

4

Future Action and Opportunities



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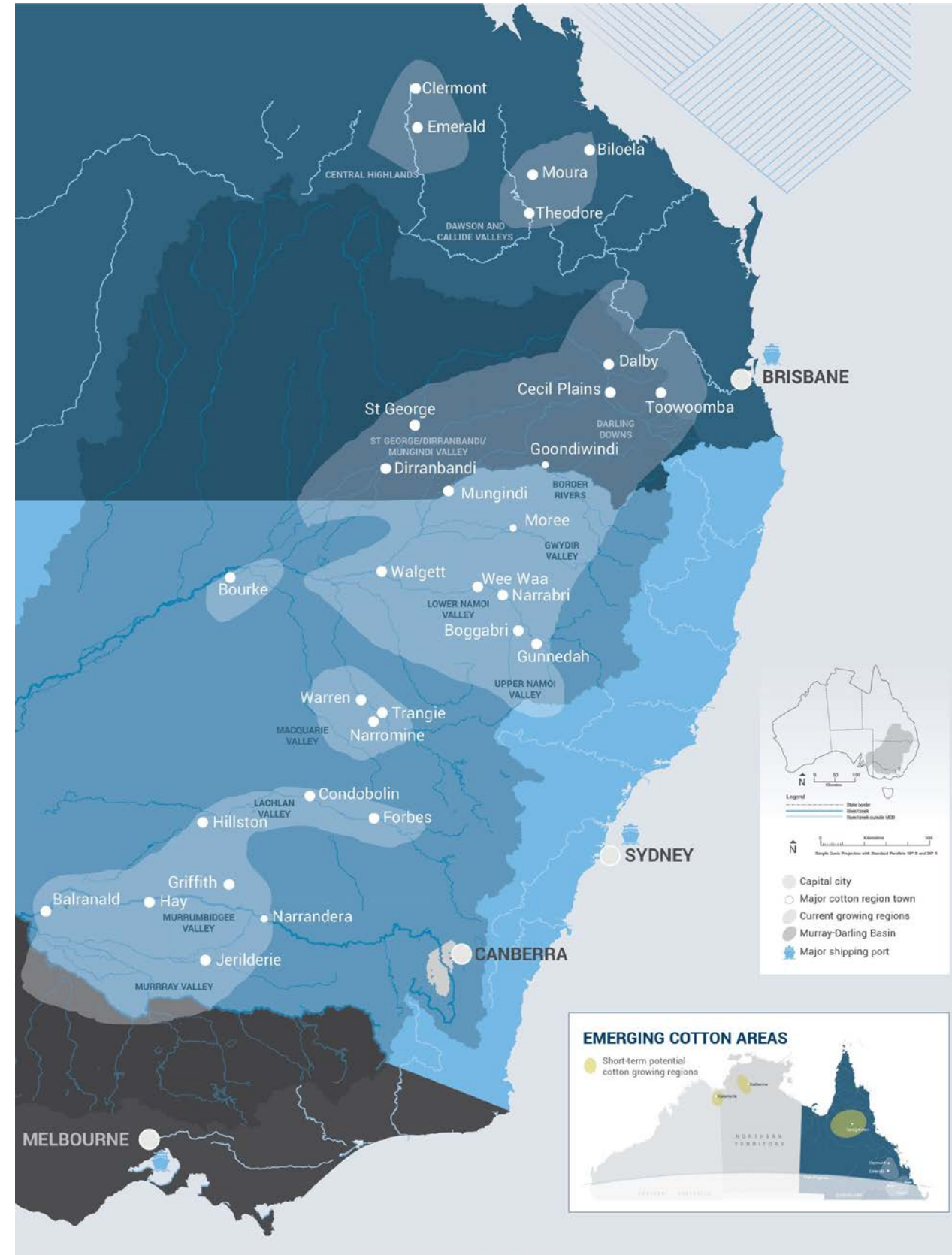


Best Practice



1

Australian Cotton Industry



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2 Sustainability and RD&E



Cotton is committed to sustainability and supporting our growers to manage their natural resources on farm.



myBMP



Australian Cotton Sustainability Report



Better Cotton Initiative



RD&E



3

Cotton Landcare Tech-Innovations



The Cotton Landcare Tech-Innovations project is delivering outcomes and tools to help improve on-farm biodiversity.



Biodiversity

Biodiversity management guidelines for cotton catchments



Innovation

Innovation for cotton landscape revegetation (drones & tractors)



Technology

Technology for acoustic monitoring on cotton farms (birds & microbats)



Collaboration

Collaboration for a legacy of Australian cotton biodiversity action



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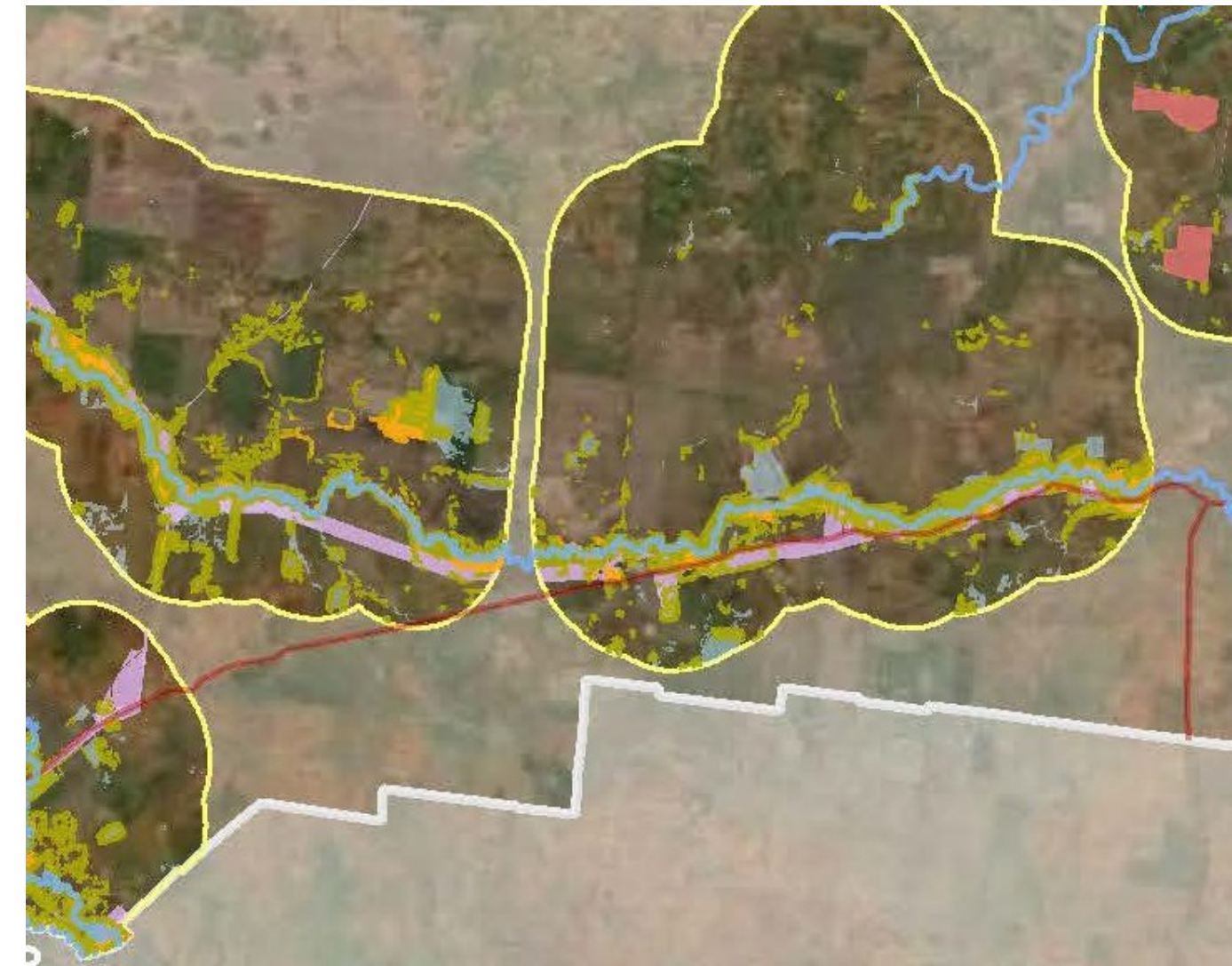




Biodiversity

Biodiversity management guidelines for cotton catchments

Aim: To identify priority areas and management practices for threatened and iconic species restoration within cotton-growing environments.



- Cities/Towns
- Major rivers
- Major roads
- High priority areas for revegetation
- High priority areas for restoration
- Tenure
- State Forest
- TSR
- Wetlands
- Cotton landscape_5kmBuffer
- Balonne LGA

General management actions
Routine weed control
Routine feral animal control
Targeted revegetation
Protection of riparian areas

Region-specific management actions
Appropriate fencing
Avoid use of fishing nets
Establish non-fishing zones
Retain areas of spinifex or porcupine grass
Protect termite mounds
Retain large isolated paddock trees
Retain/augment in-stream woody habitat
Helping to control wild dogs
Defensive driving to avoid road-strike





Innovation

Innovation for cotton landscape revegetation (drones & tractors)

Aim: University of New England's Dr Rhiannon Smith and UK-based ecosystem restoration specialists Dendra Systems lead research to improve cost- effective methodologies for revegetation on cotton farms.

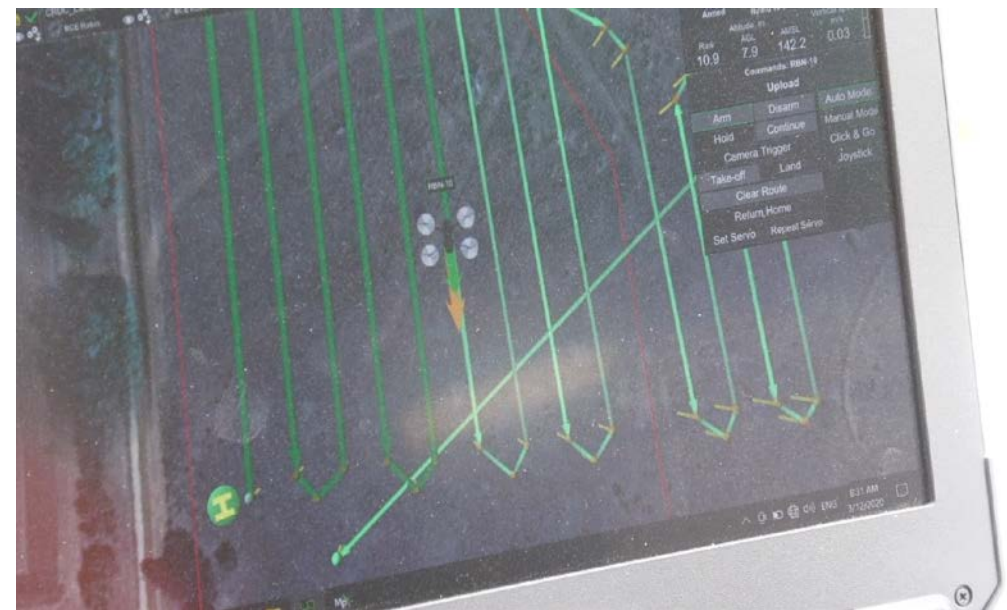


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Innovation





Technology

Technology for acoustic monitoring on cotton farms (birds & microbats)

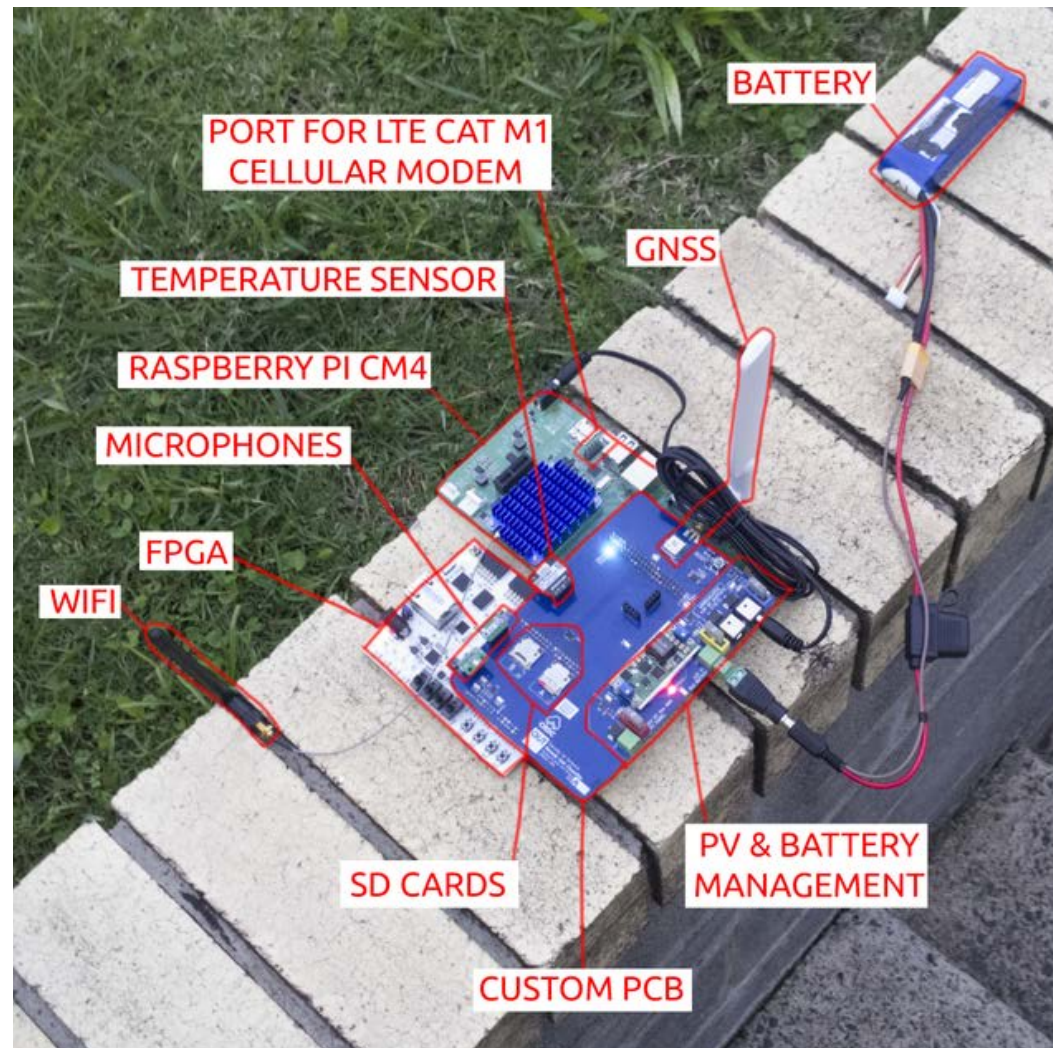
Aim: Queensland University of Technology and the University College London are leading research to enable the cotton industry and famers to collect biodiversity data in a cost-effective manner.





Technology

Acoustic sensors

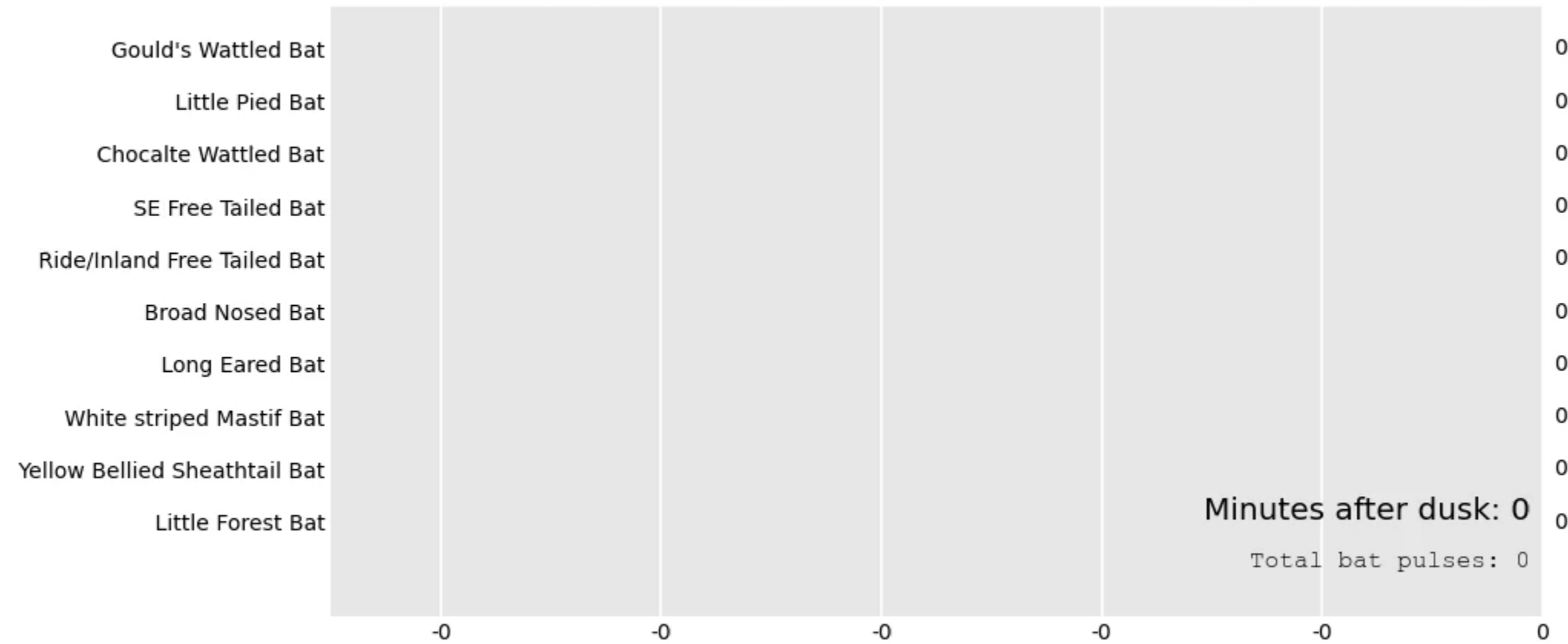


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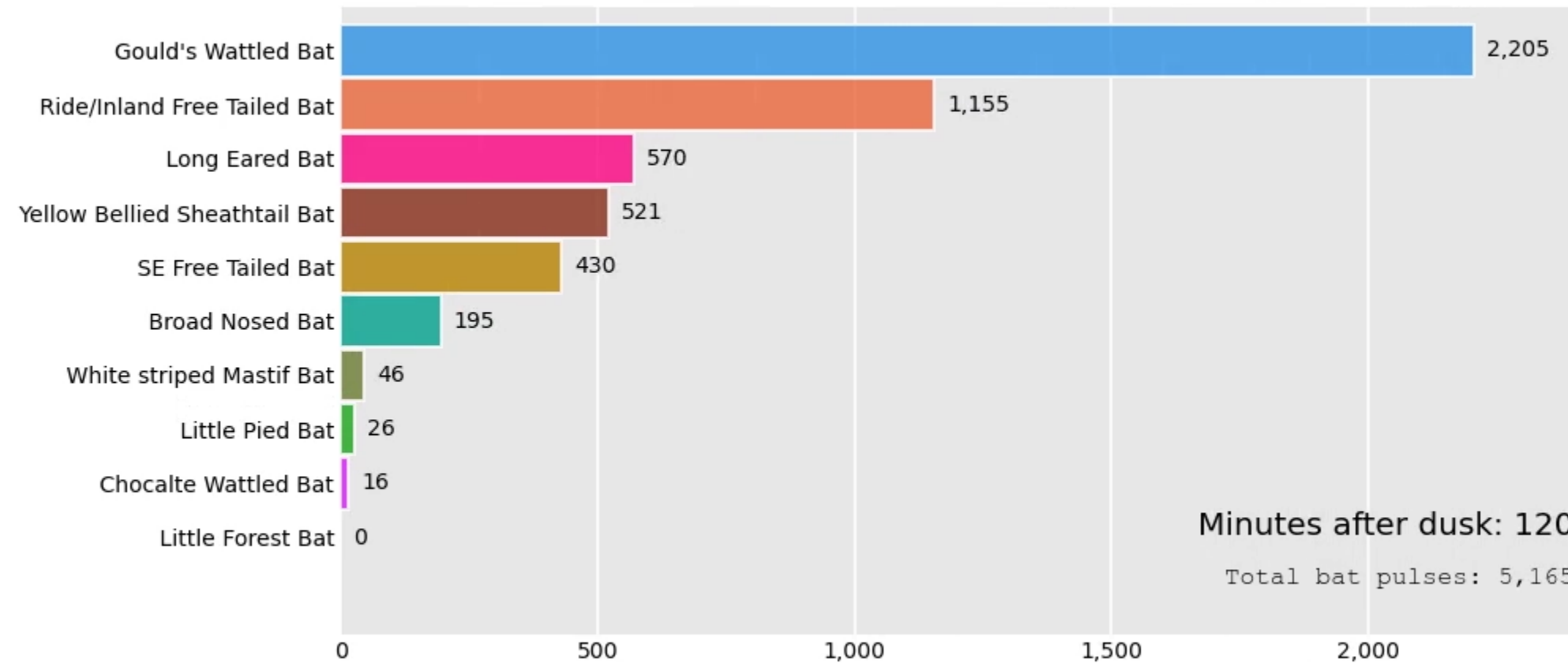


Activity of Insect Hunting Bats on Cotton Farm after Dusk



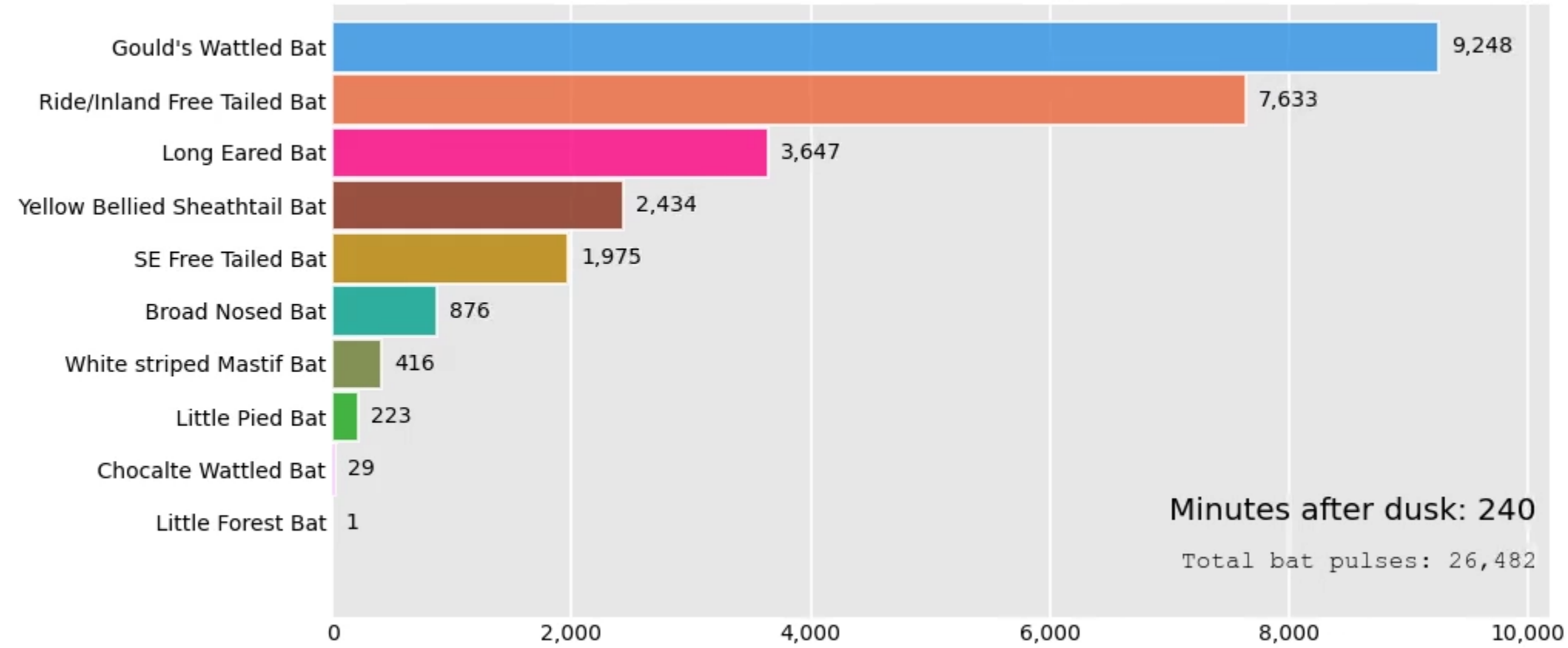


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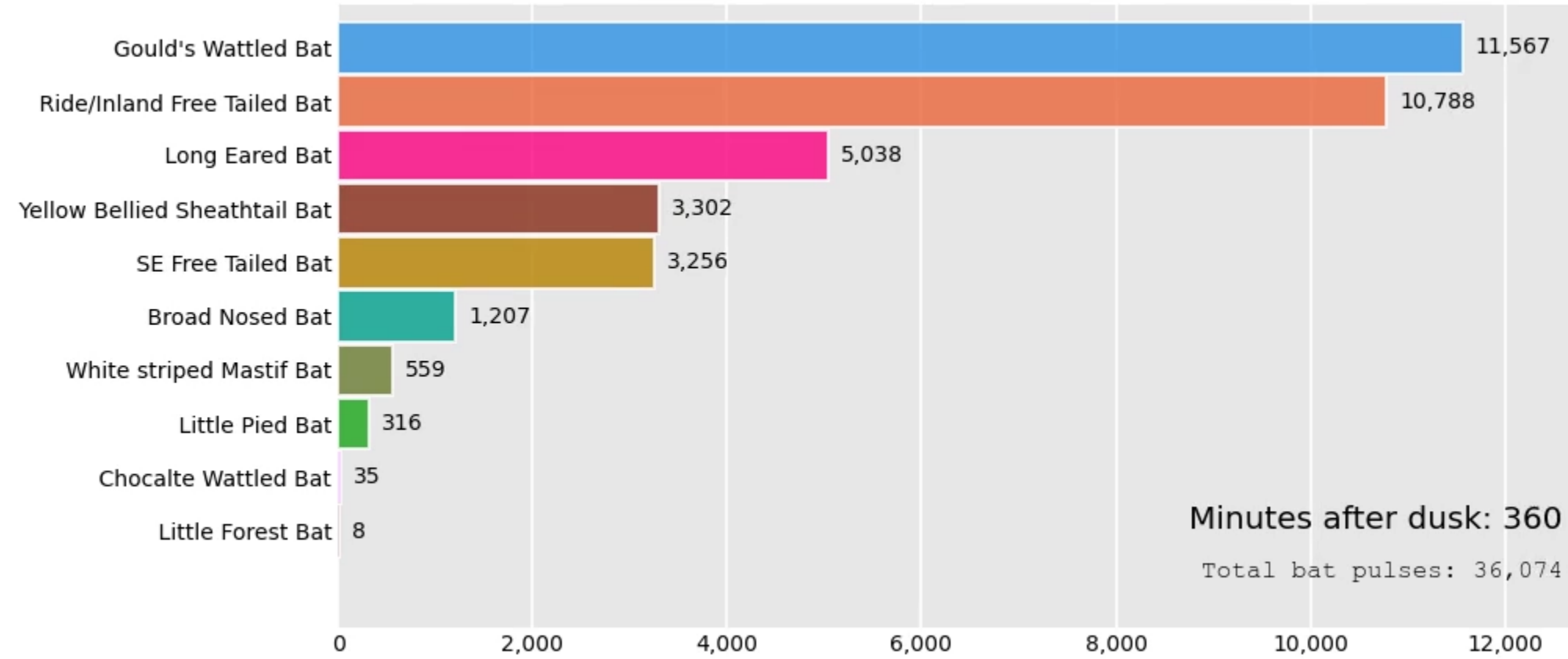


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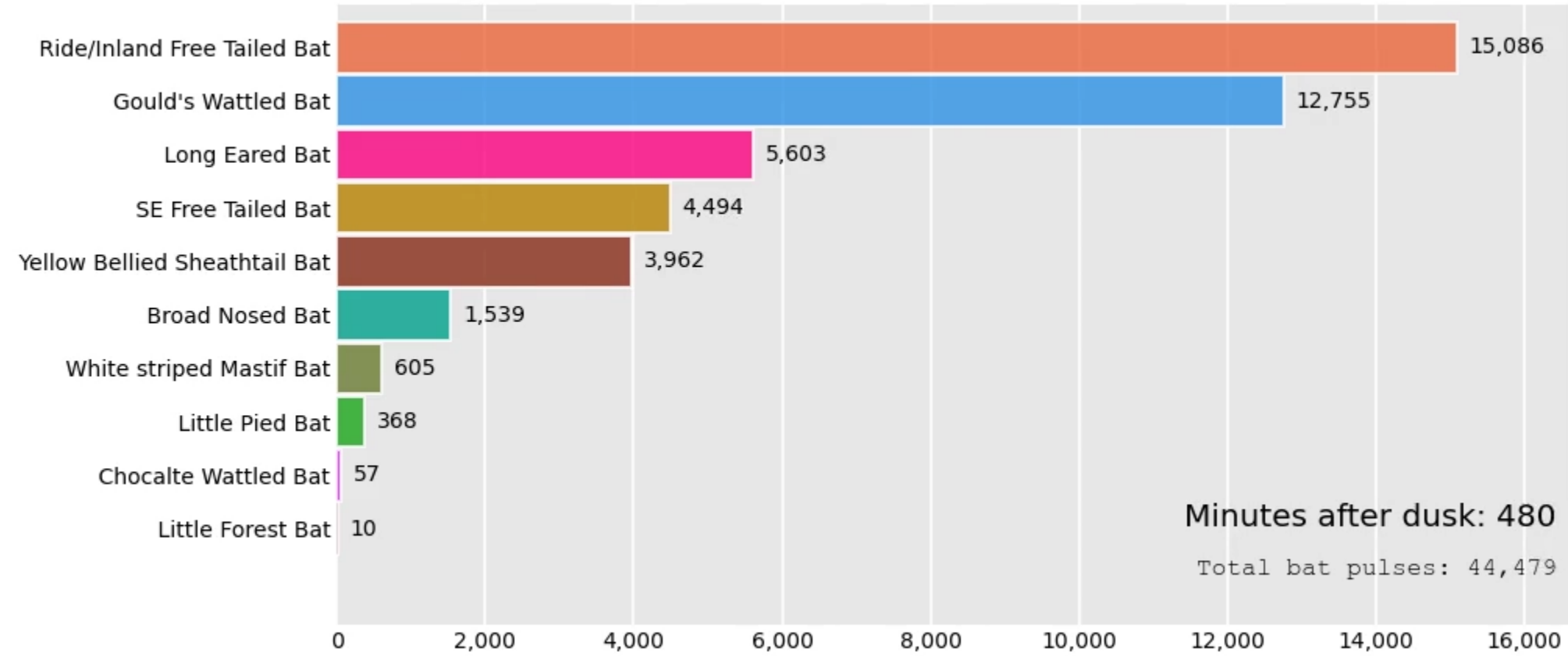


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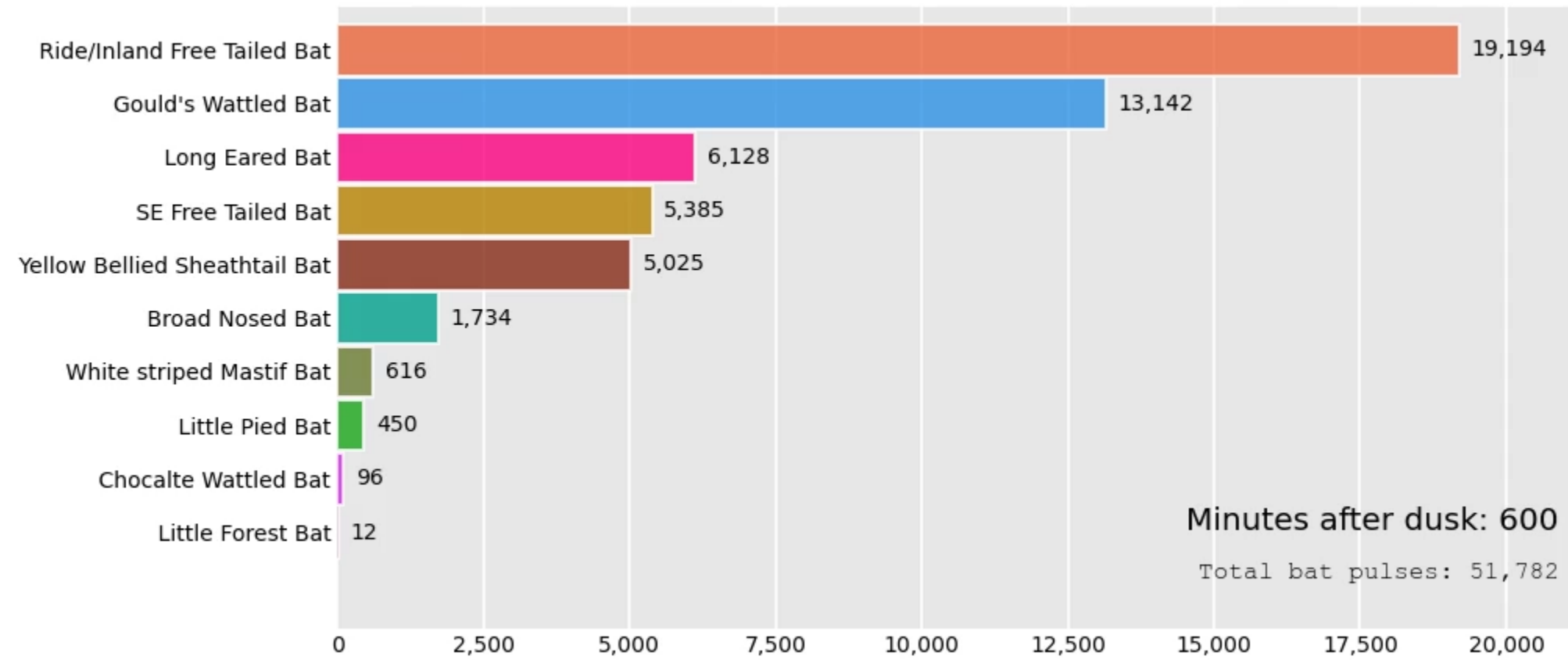


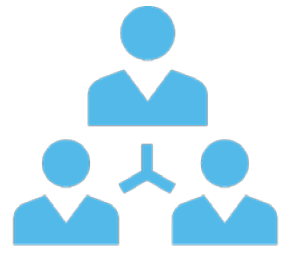
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Activity of Insect Hunting Bats on Cotton Farm after Dusk





Collaboration

Collaboration for a legacy of Australian cotton biodiversity action

Aim: We are working with cotton growers, regional networks and groups to encourage the use of new biodiversity technologies and best practice to create a legacy of biodiversity action.



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Future Action and Opportunities



Supporting a partnership between Country Road and Landcare Australia to improve biodiversity on cotton farms



Biodiversity management behavioural science research to inform future RD&E



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THANK YOU

For more information visit

www.crdc.com.au/cotton-landcare-tech-innovations

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