

External assessment 2024

Stimulus book

General Mathematics SEE

SEE 1

General instruction

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Context

Queensland's koala populations are largely found in the south-east region. The region known as Koala Coast is situated south of Brisbane. The region known as Pine Rivers is situated north of Brisbane.

A Koala Conservation Strategy to halt the decline in South East Queensland koala populations has been developed. The strategy aims to preserve and restore key koala habitat zones and increase koala populations over the long term.

Stimulus 1

The koala density at Koala Coast was recorded from 2000 to 2014.

Beginning of year	Koala density (koalas per 100 hectares)
2000	60
2001	57
2002	53
2003	50
2004	45
2005	42
2006	40
2007	39
2008	39
2009	38
2010	35
2011	34
2012	33
2013	32
2014	30

Stimulus 2

The koala density at Pine Rivers was recorded from 1996 to 2005.

Beginning of year	Koala density (koalas per 100 hectares)
1996	38
1997	36
1998	37
1999	34
2000	35
2001	32
2002	32
2003	31
2004	30
2005	30

Stimulus 3

As part of the Koala Conservation Strategy, it was determined that by 2025 there should be at least 800 000 hectares of total koala habitat zone in Queensland.

In 2014, a plan started to increase the total area of koala habitat zones in Queensland.

The table shows the total koala habitat zone data between 2015 and 2023 inclusive.

Beginning of year	Total koala habitat zone in Qld ('000 hectares)
2015	543
2016	562
2017	582
2018	602
2019	623
2020	645
2021	667
2022	691
2023	715

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References

Department of Environment and Science 2020, *South East Queensland Koala Conservation Strategy 2020– 2025*, https://environment.des.qld.gov.au/__data/assets/pdf_file/0016/211732/seq-koala-conservationstrategy-2020-2025.pdf

Rhodes, JR, Beyer, H, Preece, H, & McAlpine, C 2015, *South East Queensland koala population modelling study*, <https://espace.library.uq.edu.au/view/UQ:52303>



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