

Kingscote Map Extract (May 2004)

The map extract and aerial photograph show an area around Kingscote, 35.4° S, 137.4° E.

Kingscote is a town with a population of 1529, on Kangaroo Island.

The island lies just off the coast of southern Australia.

It has a temperate climate with hot, dry summers and cool, moist winters.

The island has an area of 4 350 square kilometres and a population of 4 118. The main land uses are sheep farming, dairy farming, forestry, viticulture, mining, fishing and tourism.

Scale

1. What scale is the map extract?
2. 1 cm on the map represents how far in reality?

Distance

3. Determine whether an airplane that requires a runway of 1600 metres would be able to land safely at Kingscote aerodrome (27 44). Give a reason for your answer.
4. How many kilometres is it 'as the crow flies' from North Cape Lighthouse (37 60) to radio mast in grid square 37 51?

Area

5. What is the area of the land bounded by the following three roads?
 - The road that runs south from Brigalow (280 503) to Cygnet River (279 470).
 - Playford Highway that runs north east from Cygnet River.
 - Springs Road that runs south east from Brigalow.

4 Figure Grid References

6. Name the lagoon in grid square 28 55?
7. In which grid square is Rolls Point (southern extreme of the town of Kingscote)?
8. Name the settlement in grid square 29 49.

6 Figure Grid References

9. What is the six figure grid reference of Kingscote Police Station?

10. What health facility can be found at 390 512?

11. What can be found at 271 544?

Height

12. Estimate the height of Mount Marsden (33 59).

13. At what height above sea level is the building at grid reference 343 507?

14. At what height above sea level is North Cape Lighthouse (37 60)?

Gradient

15. What is the average gradient of the road from the cattle grid at 365 601 to North Cape Lighthouse (37 60)? Explain your answer fully.

Intervisibility

16. If you were standing at the cross roads in Grid Iron Corner (291 546) could you see the cross roads in Brigalow (280 503)?

Sketch Profile

17. Draw a labelled sketch profile between 340 610 and 340 560.

Imaging

18. Referring to the aerial photograph of the town of Kingscote, explain why it is not possible to give an accurate scale for the photograph.

19. Draw a labelled sketch map of Kingscote and the surrounding areas shown on the aerial photograph. Clearly mark on it any land uses that are **not** shown on the map extract.