

91010R



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

## Level 1 Geography, 2011

### 91010 Apply concepts and basic geographic skills to demonstrate understanding of a given environment

9.30 am Wednesday 23 November 2011

Credits: Four


#### RESOURCE BOOKLET

Refer to this booklet to answer the questions for Geography 91010.

Check that this booklet has pages 2–9 in the correct order and that none of these pages is blank.

**YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.**

## Resource A: The Mackenzie Basin

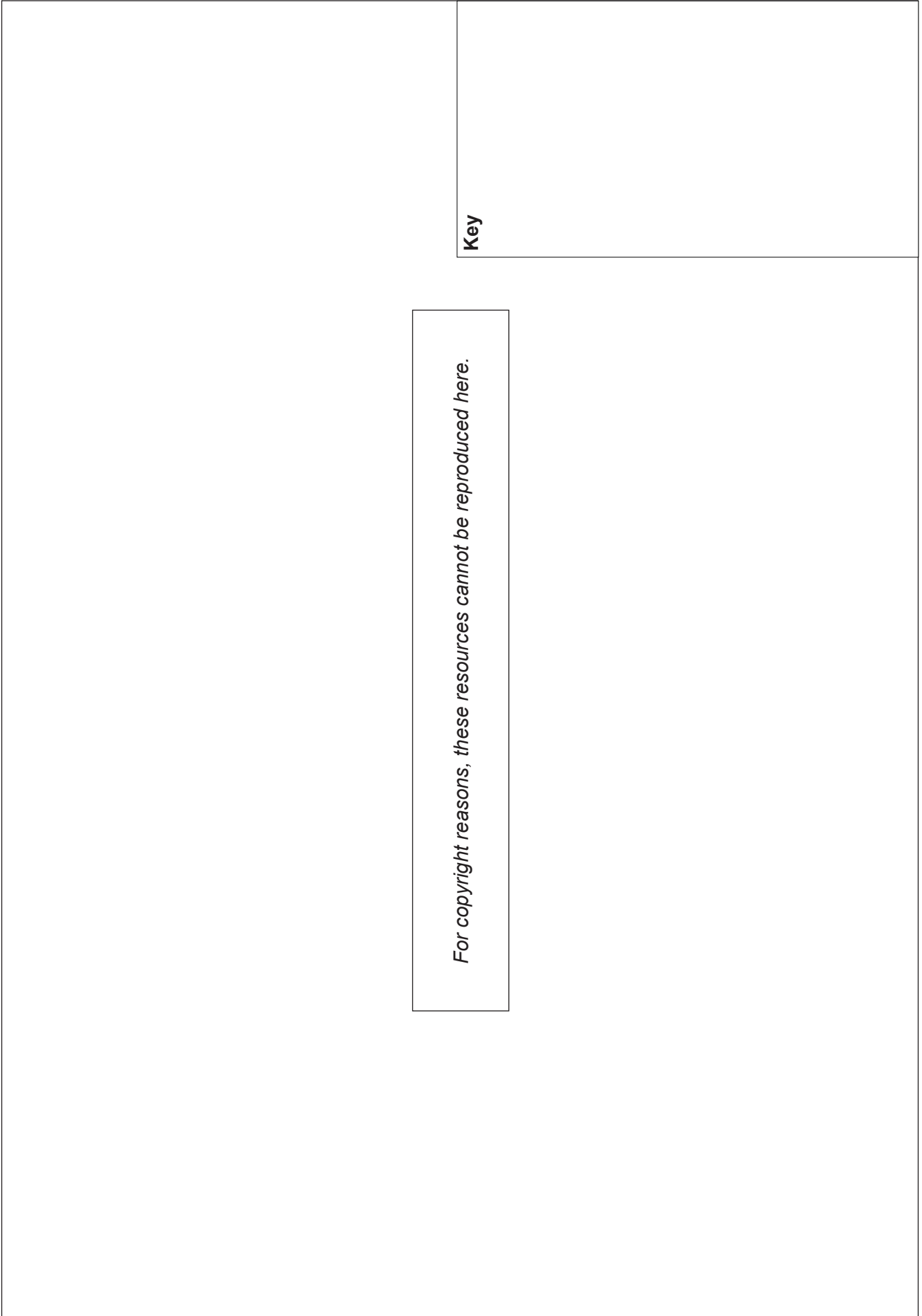


The Mackenzie Basin is located in the centre of the South Island at an average of more than 300 metres above sea level. ...

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... Nearby Lake Ruataniwha hosts national and international rowing regattas.

## Resource B: Map of the Central South Island



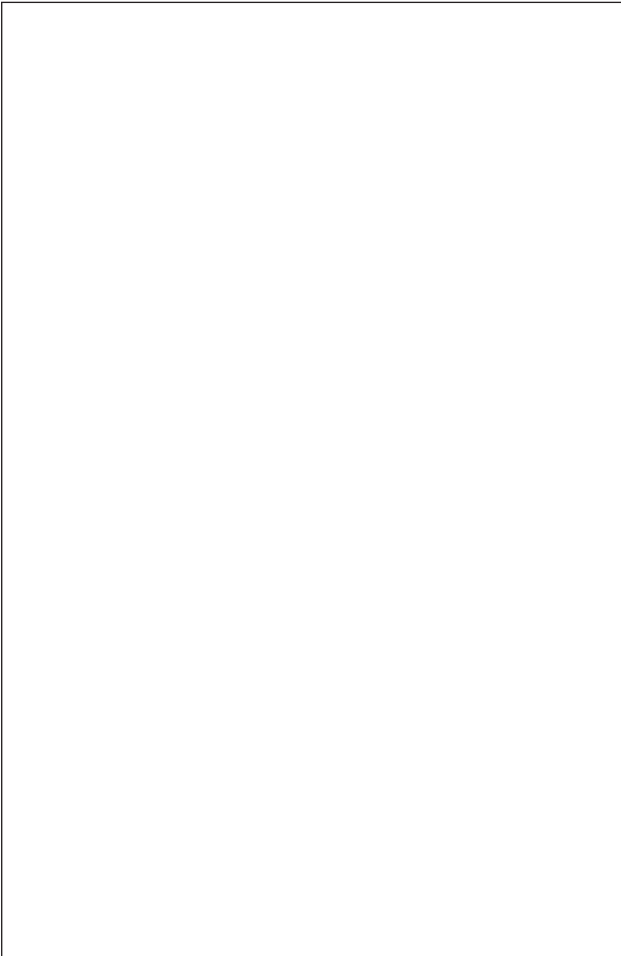
**Key**

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**Resource C: Topographic Map of Twizel**

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**Key**



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**Resource D: Twizel from the Air**

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**Iron Bridge**

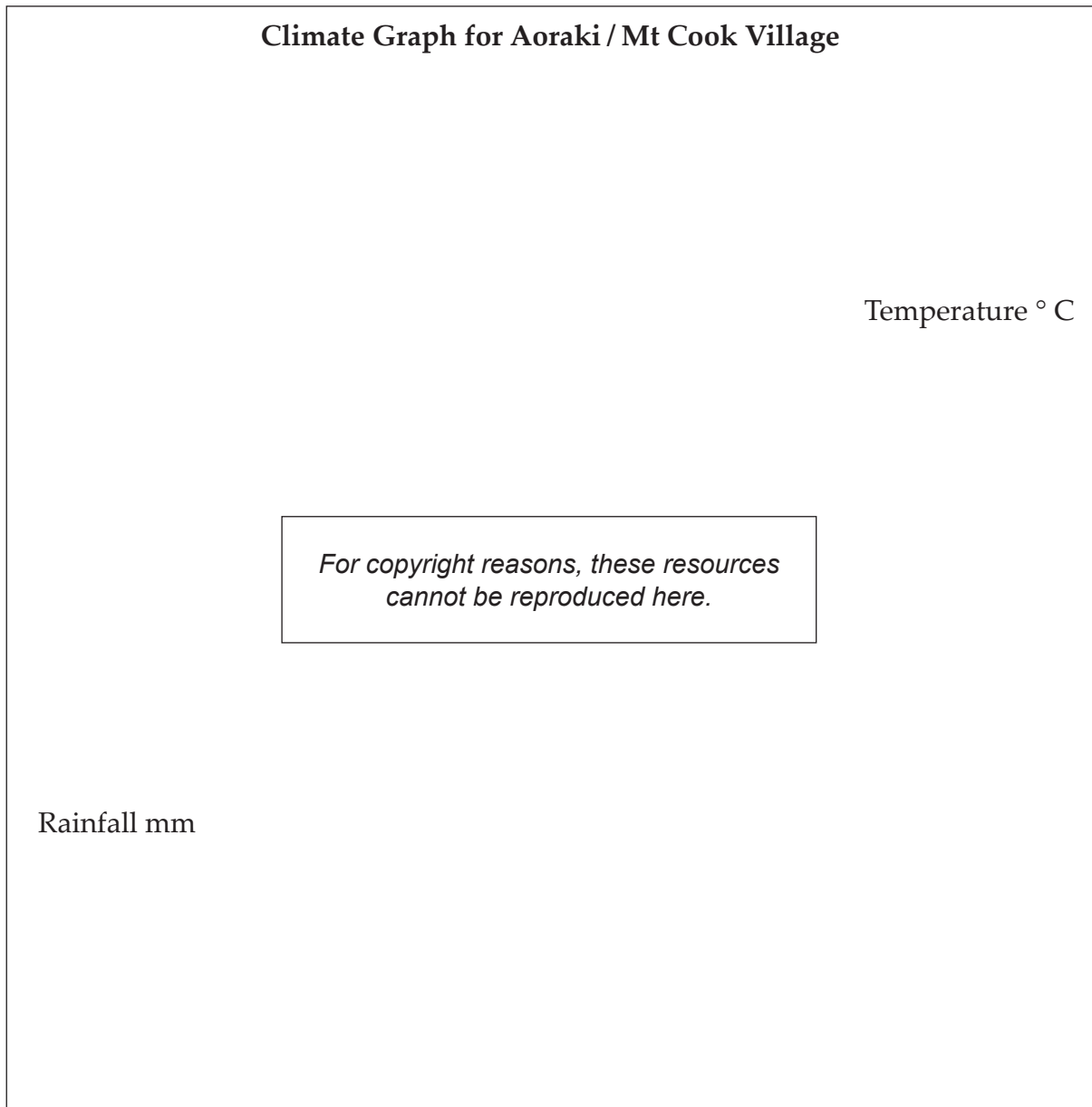
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**Satellite Image**

**Resource E: Population of Twizel 1966–2011**

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**Resource F: Climate Statistics for Aoraki / Mt Cook Village and Twizel**

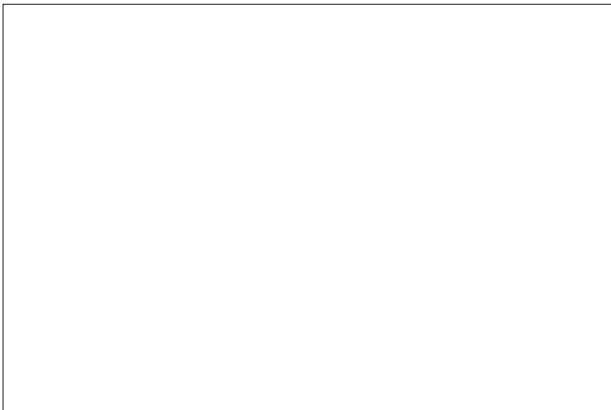


**Resource G: Recent Developments in Twizel**

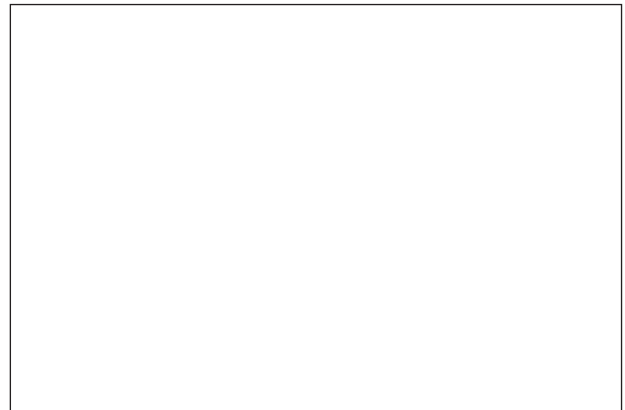
Twizel was built in 1968 to house the workers of the Upper Waitaki Power Project, and was due to be abandoned in 1984 when the construction project was completed. ...

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... Irrigation using water from nearby lakes and rivers, has allowed dairy farming to operate south of Twizel in an area once characterised by dry barren landscape.



**Rowers on Lake Ruataniwha**



**Irrigation Circles**



## Acknowledgements

- Resource A: [www.newzealandnz.co.nz/destinations/twizel.html](http://www.newzealandnz.co.nz/destinations/twizel.html)  
<http://wikipedia.org/wiki/Twizel>
- Resource B: TopoMap NZ V2.0.61
- Resource C: Topographic Map50-Bz15 Twizel edition 1.0 published 2009 (Oland Information New Zealand)
- Resource D: <http://davidwallphoto.com/searchresults.asp?tx=historic+iron+bridge&ts=&c=&Lids=&Gids=&p=1&n=5218&phrase=all>  
Google Maps
- Resource E: <http://cliflo.niwa.co.nz>
- Resource F: Ibid.
- Resource G: [www.newzealandnz.co.nz/destinations/twizel.html](http://www.newzealandnz.co.nz/destinations/twizel.html)  
[http://newsimg.bbc.co.uk/media/images/42591000/jpg/\\_42591571\\_rowing\\_416.jpg](http://newsimg.bbc.co.uk/media/images/42591000/jpg/_42591571_rowing_416.jpg)  
<http://davidwallphoto.com/searchresults.asp?tx=Twizel&ts=&c=&g=&Lids=&Gids=&p=3&n=12599&phrase=all>





