VICTORIAN CURRICULUM AND ASSESSMENT AUTHORITY

Victorian Certificate of Education 2010

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

									Letter
Figures									
Words									

GEOGRAPHY

Written examination

Monday 1 November 2010

Reading time: 3.00 pm to 3.15 pm (15 minutes)
Writing time: 3.15 pm to 5.15 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

Number of questions	*Number of questions to be answered*	*Number of marks*
4	4	60

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers, coloured water-based pens and markers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.
- No calculator is allowed in this examination.

Materials supplied
- Question and answer book of 14 pages.
- A data book.
- Additional space is available at the end of the book if you need extra paper to complete an answer.

Instructions
- Write your **student number** in the space provided above on this page.
- All written responses must be in English.

At the end of the examination
- You may keep the data book.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

Instructions

Answer **all** questions in the spaces provided. Refer to the data book as indicated.

Use Figure 1 on pages 2, 3, 4 and 5 of the data book when responding to Question 1.

Question 1

a. Ten locations are marked as A, B, C, D, E, F, G, H, I and J on the map of the Murray-Darling Basin. For each of the four areas listed below, identify its location from the map.

		Location
i.	The Mouth of the Murray-Darling River system	
ii.	A region of major hydroelectricity generation	
iii.	A Ramsar wetland	
iv.	Intensive irrigation for citrus crops	

1 + 1 + 1 + 1 = 4 marks

For Question 1b, refer to the data book pages 4 and 5.

b. **i.** In which year was the largest area under irrigation for cropping?

_____

ii. In which year was the smallest area under irrigation for cropping?

_____

iii. Explain what is meant by the term ‘water allocation’.

_____

_____

_____

iv. To what extent does the percentage of water allocation appear to have affected the area of irrigation cropping over the years shown?

v. To what extent does the amount of rain falling in the region of the farm (refer to Figure 1d in the data book) appear to have affected the area of irrigation cropping over the years shown?

1 + 1 + 1 + 3 + 3 = 9 marks

c. **i.** There are many conflicts between water users within the Murray-Darling Basin. Outline one conflict over the use of water within the Murray-Darling Basin.

ii. Discuss a strategy that has been developed or proposed to manage the conflict outlined in **part i.**

3 + 4 = 7 marks

Total 20 marks

CONTINUES OVER PAGE

Question 2

Identify a local resource for which you have collected data in the field.

In the space below, sketch a map to show the main features of your local resource studied in the field.

a. Describe the location of your local resource within its regional context.

2 marks

b. Annotate your sketch map to show an example of movement within your local fieldwork resource. You may use an arrow or arrows to indicate movement.

2 marks

c. Discuss how the movement shown in **part b.** has resulted in either a positive or negative impact on either the people or their environment within your local fieldwork resource.

2 marks

d. Annotate your sketch map to show the location of an area that could be affected or has been affected by a policy to manage the positive or negative impact discussed in **part c.**

1 mark

e. Evaluate the future practicality of this management policy using data you have collected in the field.

3 marks

Total 10 marks

TURN OVER

Question 3

Use Figure 2 on pages 6 and 7 of the data book when responding to Question 3a.

a. Discuss the following statement.

'The global distribution of population is uneven and is likely to remain so in the future.'

6 marks

Use Figure 2 on pages 8 and 9 of the data book when responding to Question 3b.

b. **i.** Identify and quantify one change that has occurred in the age-sex structure of the world's less-developed countries between 1990 and 2010.

ii. Identify and quantify one change that has occurred in the age-sex structure of the world's more-developed countries between 1990 and 2010.

1 + 1 = 2 marks

c. Name a country you have studied this year. _____

i. Outline a major population change that has occurred in relation to this country.

ii. Describe one strategy undertaken in response to either the positive or negative impacts of this population change in this country.

iii. Evaluate the effectiveness of the strategy described in the answer to **part ii.**

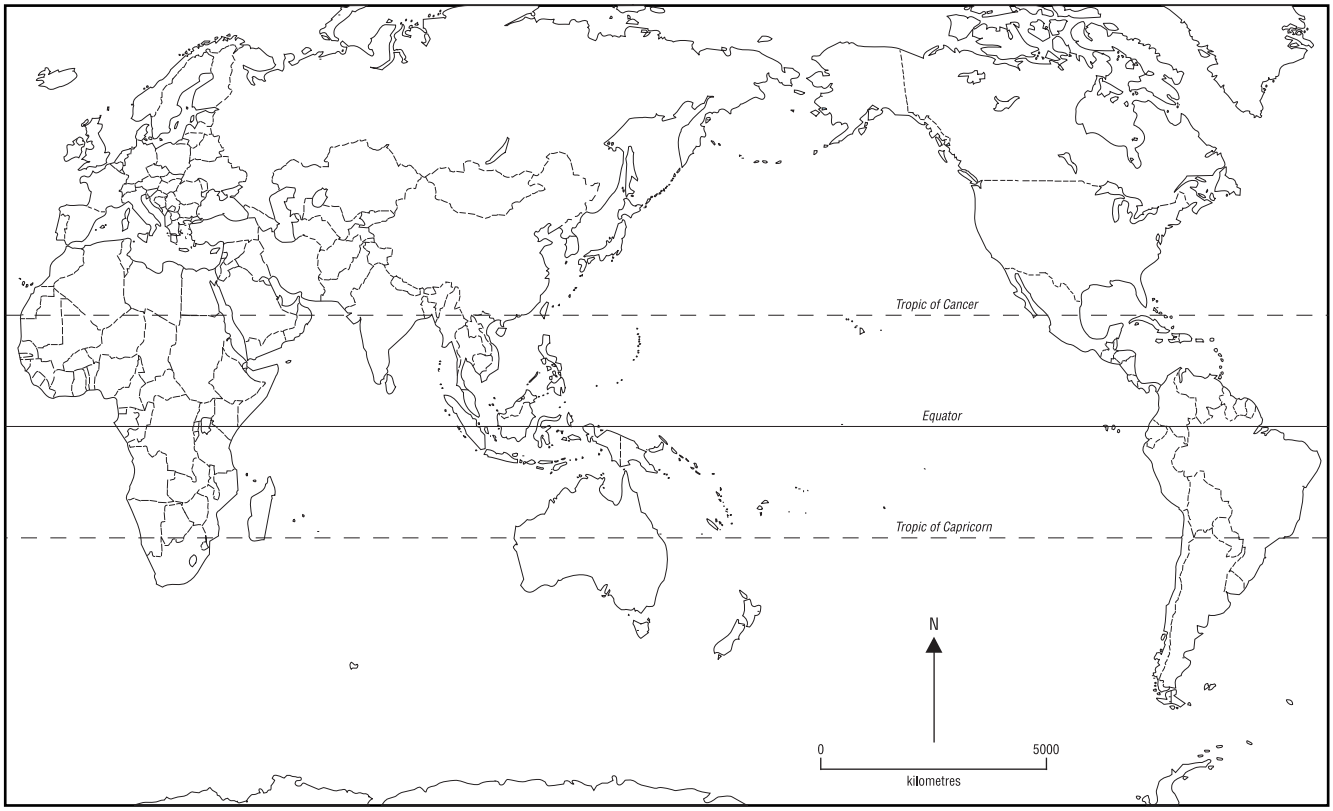
2 + 2 + 3 = 7 marks

Total 15 marks

Question 4

a. **i.** Use the outline map provided below to map the distribution of a global phenomenon you have studied. Do not use the phenomenon of human population.

ii. On your map, mark and name the specific locations of two places related to your mapped global phenomenon.



3 + 1 = 4 marks

b. Discuss the positive or negative impacts of changes on either people or environments of this global phenomenon at the two locations marked on your map.

4 marks

c. Evaluate the effectiveness of one strategy to deal with either the positive or negative impacts on people or environments of the global phenomenon at both locations marked on your map.

Strategy

Evaluation at location one

Evaluation at location two

7 marks

Total 15 marks

END OF QUESTION AND ANSWER BOOK

Extra space for responses

Clearly number all responses in this space.

A script book is available from the supervisor if you need extra paper to complete your answer. Please ensure you write your **student number** in the space provided on the front cover of the script book. **At the end of the examination, place the script book inside the front cover of this question and answer book.**

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DATA BOOK

Directions to students

- A question and answer book is provided with this data book.
- Refer to the data in this book for each question as indicated in the question and answer book.
- The data contained in this book is drawn from current real world case studies.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

Figure 1 | Murray-Darling Basin

Figure 1a: Murray-Darling Basin locations

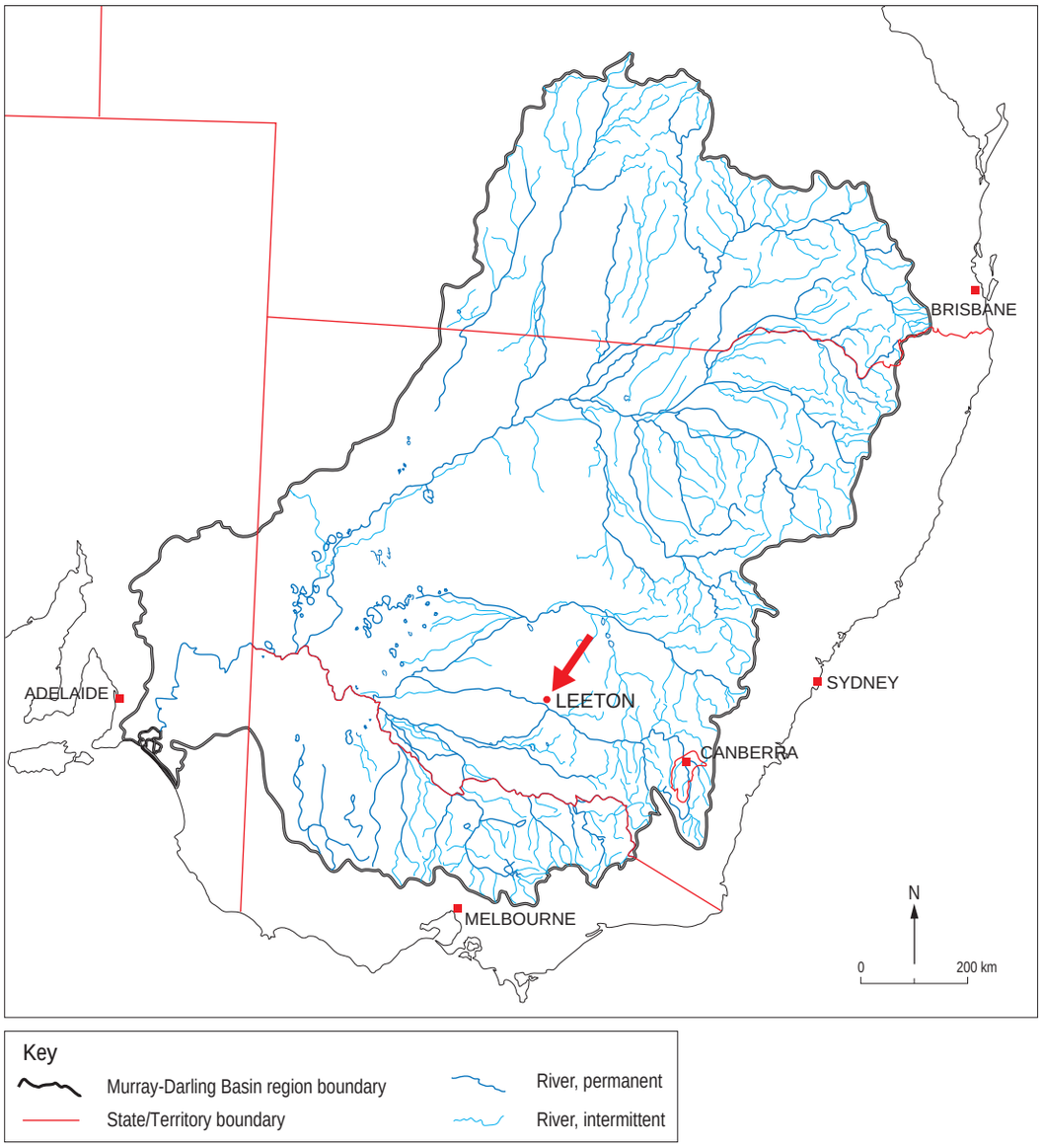


Figure 1b: Location of study farm in the Murray-Darling Basin

Figure 1c: Background information

The 855 hectare farm is located near Leeton and Yanco in the Murrumbidgee Irrigation Area. Its land uses are a mixture of irrigation crops – mostly rice, soybeans and lucerne – and non-irrigated or dry crops, such as oats and barley as well as hay for the farm's sheep and cattle. The owners believe a minimum water allocation of 40 per cent is needed for their farm to operate profitably.

Figure 1d: Annual rainfall at Yanco near Leeton, 2004–2009

Year	Rainfall in millimetres
2004	268.0
2005	445.0
2006	189.8
2007	450.8
2008	343.2
2009	289.0

Highest annual rainfall since 1957: 450.8 mm

Lowest annual rainfall since 1957: 189.8 mm

TURN OVER

Figure 1 | Murray-Darling Basin

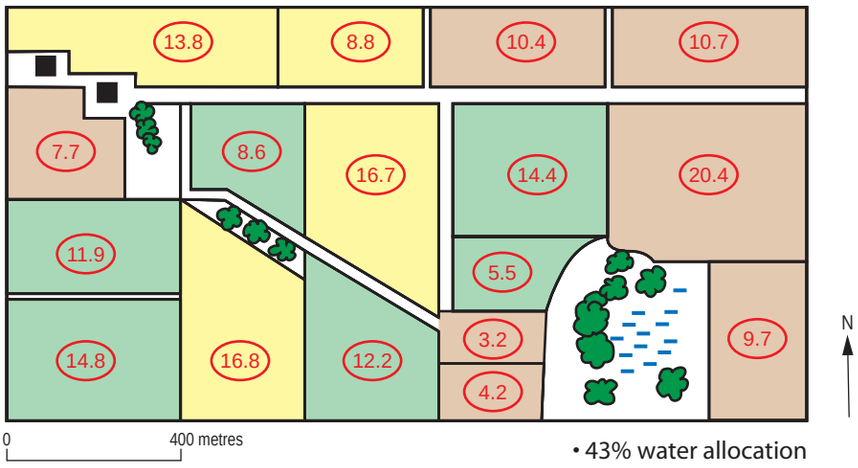


Figure 1e: Land use, summer, 2004–2005

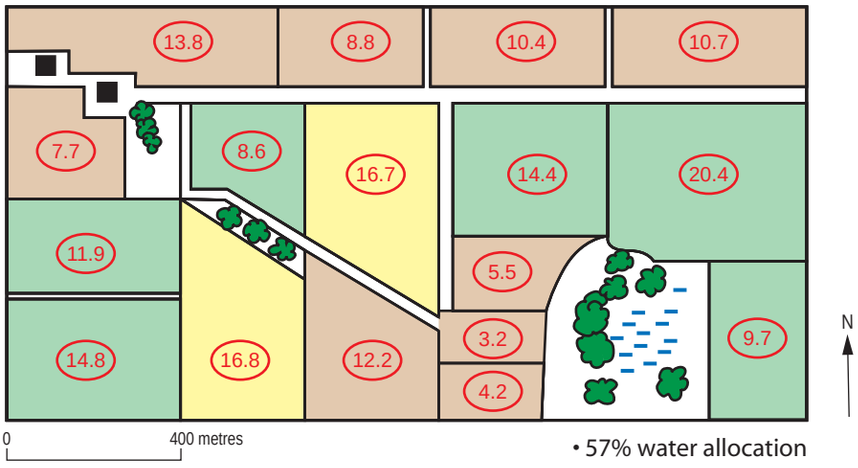


Figure 1f: Land use, summer, 2005–2006

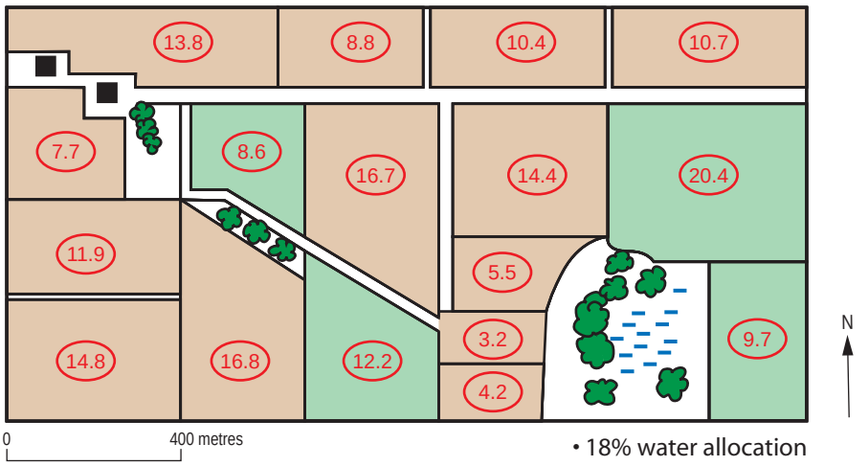


Figure 1g: Land use, summer, 2006–2007

Key to Figures 1e–1j

Irrigation crops
- rice

Irrigation crops cut for hay
- soybeans
- lucerne

Non-irrigation crops
- barley, oats and/or grass

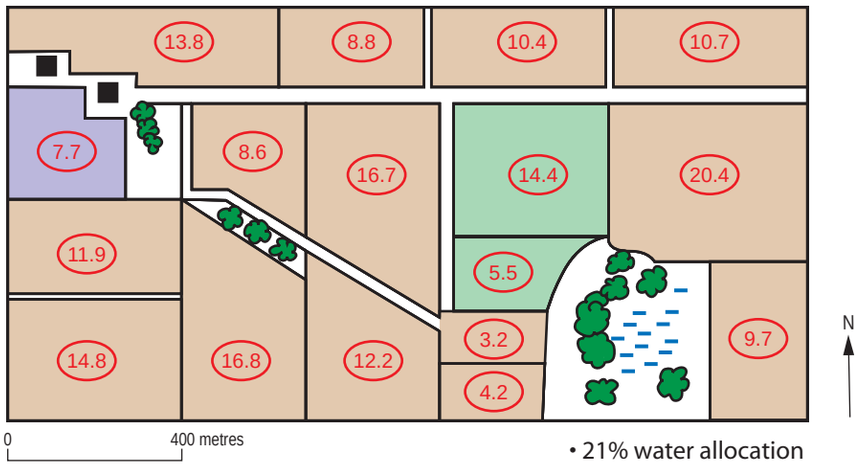


Figure 1h: Land use, summer, 2007–2008

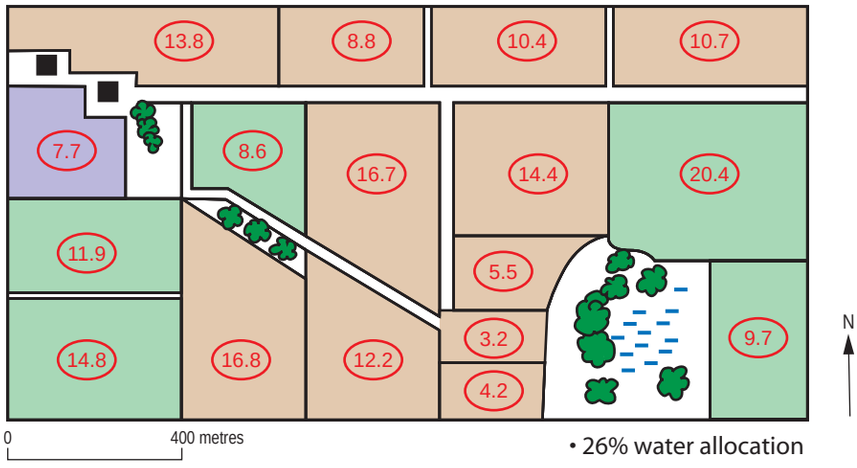


Figure 1i: Land use, summer, 2008–2009

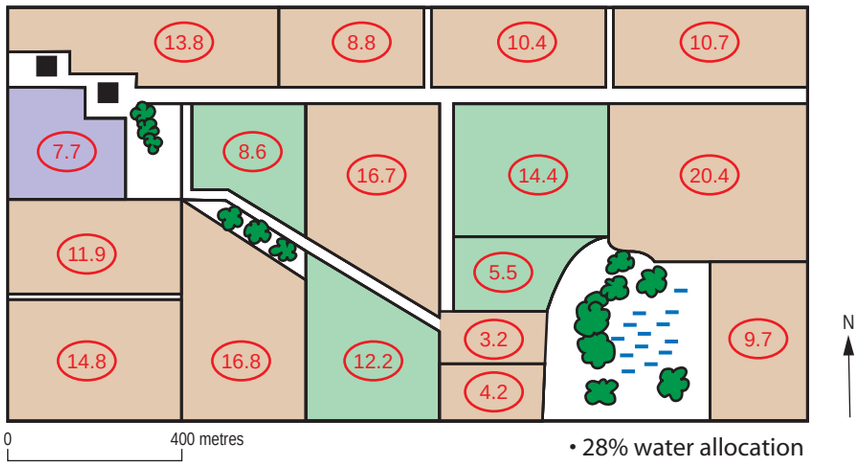
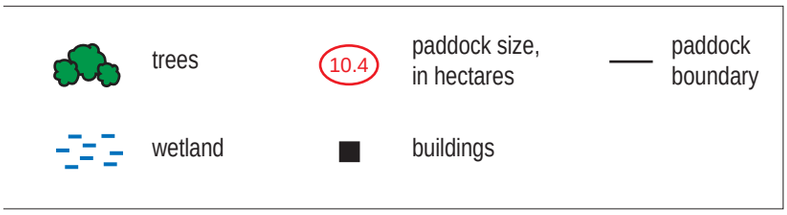


Figure 1j: Land use, summer, 2009–2010



TURN OVER

Figure 2 | Human Population

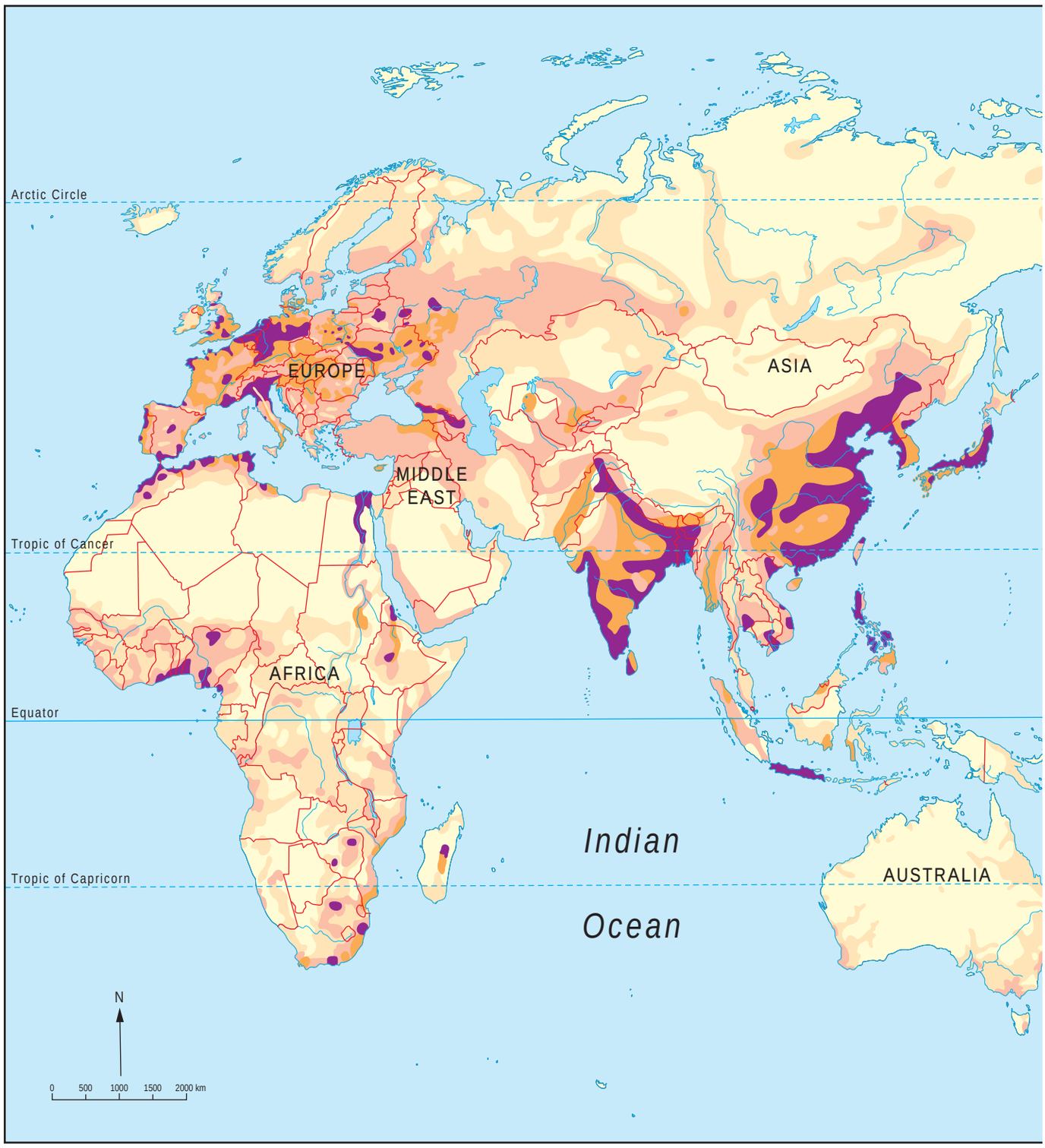


Figure 2a: World population distribution, 2000

Key to map

Number of persons per km²

100 and over | 50–100 | 10–50 | 1–10 | less than 1

river | lake | international boundary

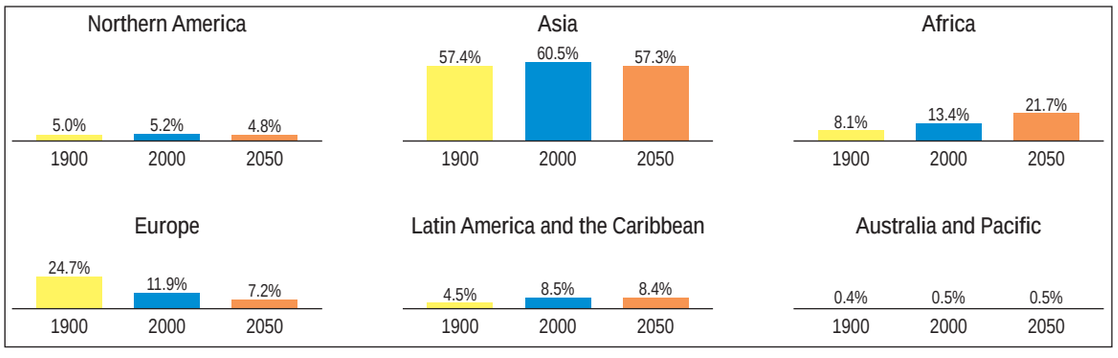
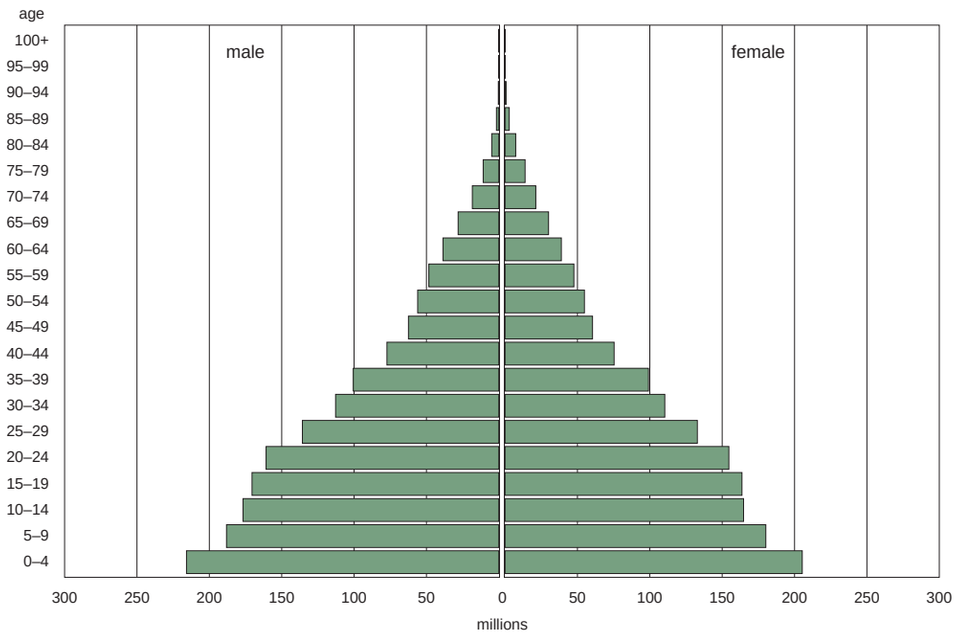


Figure 2b: Percentage of world population by region

TURN OVER

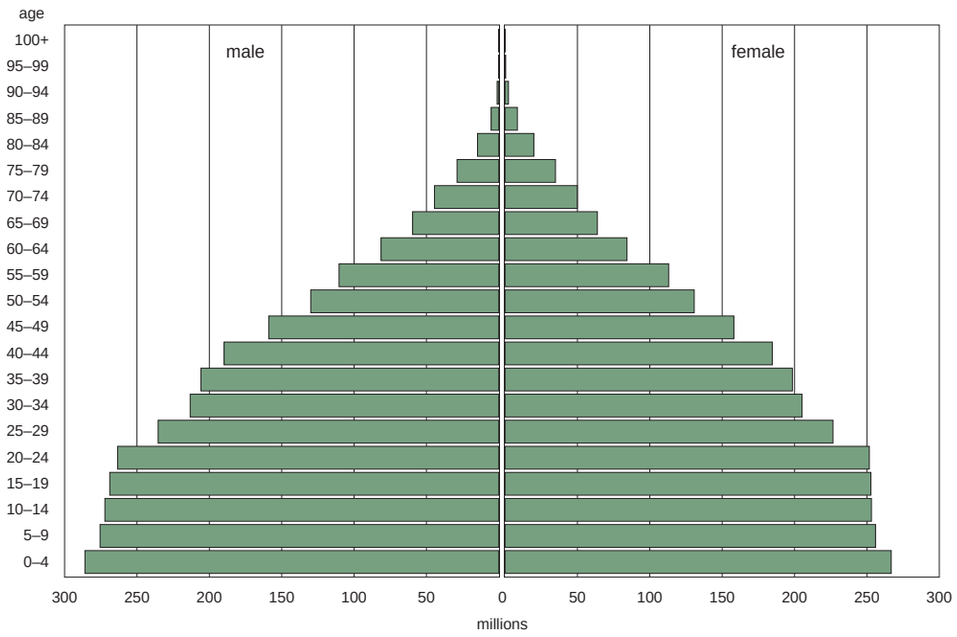
Figure 2 | Human Population

1990



Source: US Census Bureau, International Data Base

2010

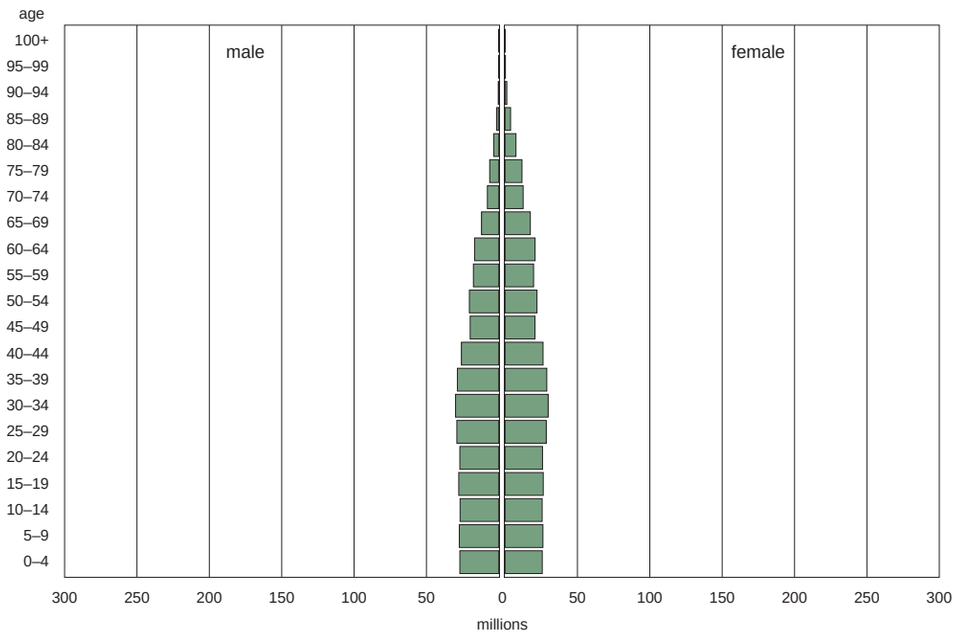


Source: US Census Bureau, International Data Base

Figure 2c: Age-sex structures for less-developed countries, 1990 and 2010

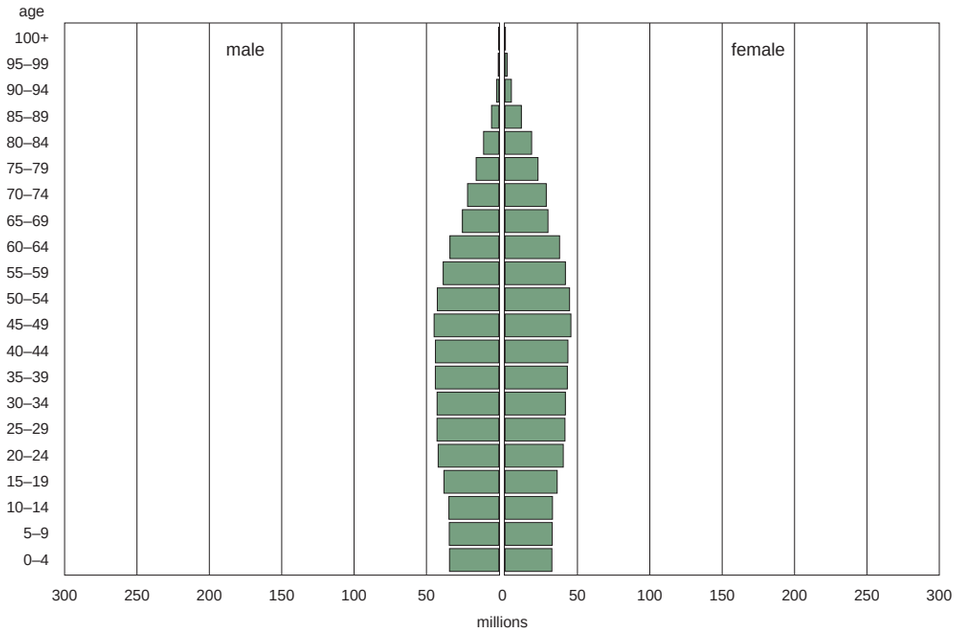
Less-developed countries (or LDCs) have low gross national income per person (usually less than US$2000) per year, low rates of energy consumption per capita and a high proportion of the workforce in agricultural activities. LDCs include countries such as Venezuela, Papua New Guinea, Indonesia, Pakistan, Ethiopia and Nigeria.

1990



Source: US Census Bureau, International Data Base

2010



Source: US Census Bureau, International Data Base

Figure 2d: Age-sex structures for more-developed countries, 1990 and 2010

More-developed countries (or MDCs) have high gross national income per person, high rates of literacy, health and energy consumption and a high proportion of the workforce in urban-based service sectors. MDCs include countries such as the United States, Japan, Australia, Singapore, Germany, France and the United Kingdom.

END OF DATA BOOK