

## **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education (9-1)

GEOGRAPHY 0976/42

Paper 4 Alternative to Coursework

October/November 2018

**INSERT** 

1 hour 30 minutes

#### **READ THESE INSTRUCTIONS FIRST**

This Insert contains Figs. 1.1, 1.2 and 1.3 and Tables 1.1 and 1.2 for Question 1, and Figs. 2.2, 2.3 and Tables 2.1 and 2.2 for Question 2.

The Insert is **not** required by the Examiner.



Fig. 1.1 for Question 1

# Crops grown in Kenya for export

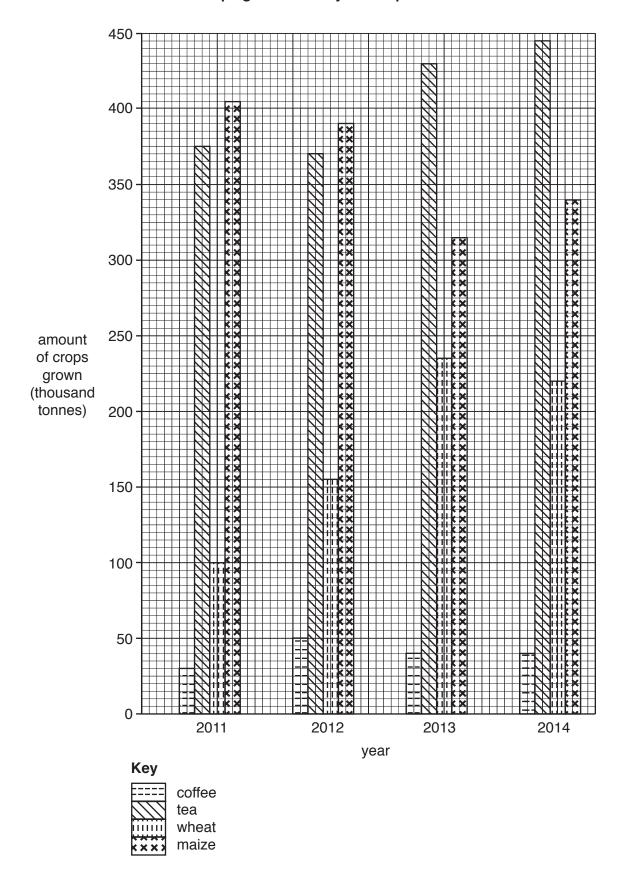
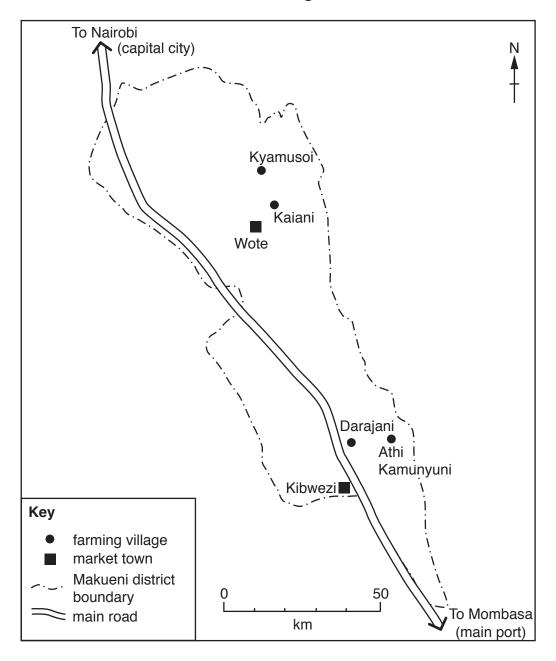


Fig. 1.2 for Question 1

## Map and description of the fieldwork areas

The fieldwork was done in two areas of the Makueni district in the Eastern province of Kenya. The two villages in the north are located on higher land, which receives higher rainfall. The two villages in the south are in a lowland area with a dry climate. The main road between Nairobi and Mombasa goes through the Makueni district. Wote and Kibwezi are the main markets for farming produce.

#### **Areas investigated**



4

# Fig. 1.3 for Question 1

# **Questionnaire for farmers**

I am a student studying farming for my Geography examination. Please will you answer the following questions to help my study?
1. What is the size of your farm?
hectares (ha)
2. How much of your land is used to grow crops?
ha
3. How much of your land is used to keep animals?
ha
4. Do you keep more cattle or more goats?
5. Which of the following farming difficulties do you suffer from? You may choose more than one.
low or unreliable rainfall
occasional very heavy rainfall which can cause flooding
pests and diseases
little access to seeds and fertilisers due to poor transport links
little opportunity to sell produce and low market prices
lack of credit facilities or cheap loans
Thank you for your help.

**Table 1.1 for Question 1** 

# **Results of questionnaire**

	Farming villages			
	in the north of Makueni		in the south of Makueni	
	Kyamusoi	Kaiani	Darajani	Athi Kamunyuni
average farm size (ha)	15	9	4	10
average amount of land used for crops (ha)	7	4	1	2
average amount of land used for animals (ha)	8	5	3	8
keep more cattle or more goats	cattle	cattle	goats	goats

**Table 1.2 for Question 1** 

## **Answers to Question 5 in questionnaire**

Farming difficulty	Number of answers	Percentage
low or unreliable rainfall	20	15
occasional very heavy rainfall which can cause flooding	14	10
pests and diseases	27	20
little access to seeds and fertilisers due to poor transport links	30	22
little opportunity to sell produce and low market prices	18	13
lack of credit facilities or cheap loans	28	20
total	137	100

Fig. 2.2 for Question 2

# **Diagram of flowmeter**

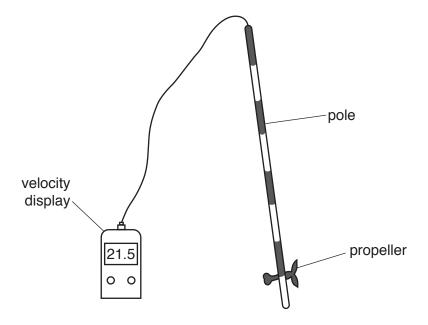


Fig. 2.3 for Question 2

A student using a flowmeter in the river



#### Table 2.1 for Question 2

#### **Results of fieldwork**

Meander			Straight section		
Distance from bank (m)	Velocity (m/sec)	Average length of pebbles (cm)	Distance from bank (m)	Velocity (m/sec)	Average length of pebbles (cm)
0.5	0.28	4	0.5	0.30	8
1.0	0.30	8	1.0	0.33	12
1.5	0.37	11	1.5	0.35	18
2.0	0.42	12	2.0	0.40	5
2.5	0.44	8	2.5	0.53	10
3.0	0.51	14	3.0	0.42	13
3.5	0.59	16	3.5	0.41	8
4.0	0.63	17	4.0	0.37	11
4.5	0.58	15			

#### Table 2.2 for Question 2

## Results of measurements of pebble size

# Straight section shown in Fig. 2.1

Average size of pebbles (cm)	Number of pebbles
1 to 5	4
6 to 10	14
11 to 15	17
16 to 20	5

## Straight section further downstream

Average size of pebbles (cm)	Number of pebbles
1 to 5	9
6 to 10	21
11 to 15	8
16 to 20	2

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.