External assessment 2022

Stimulus book

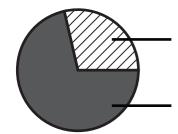
Geography

General instruction

Work in this book will not be marked.

Stimulus 1: Map of West Africa Sahel showing movement of refugees and internally displaced persons (IDPs), 2020

Key



IDP and returnees

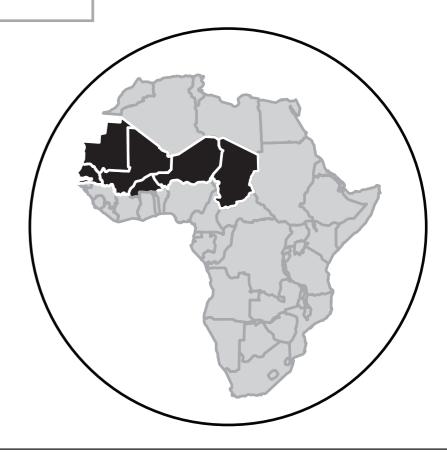
Refugees

▲ Refugee camps

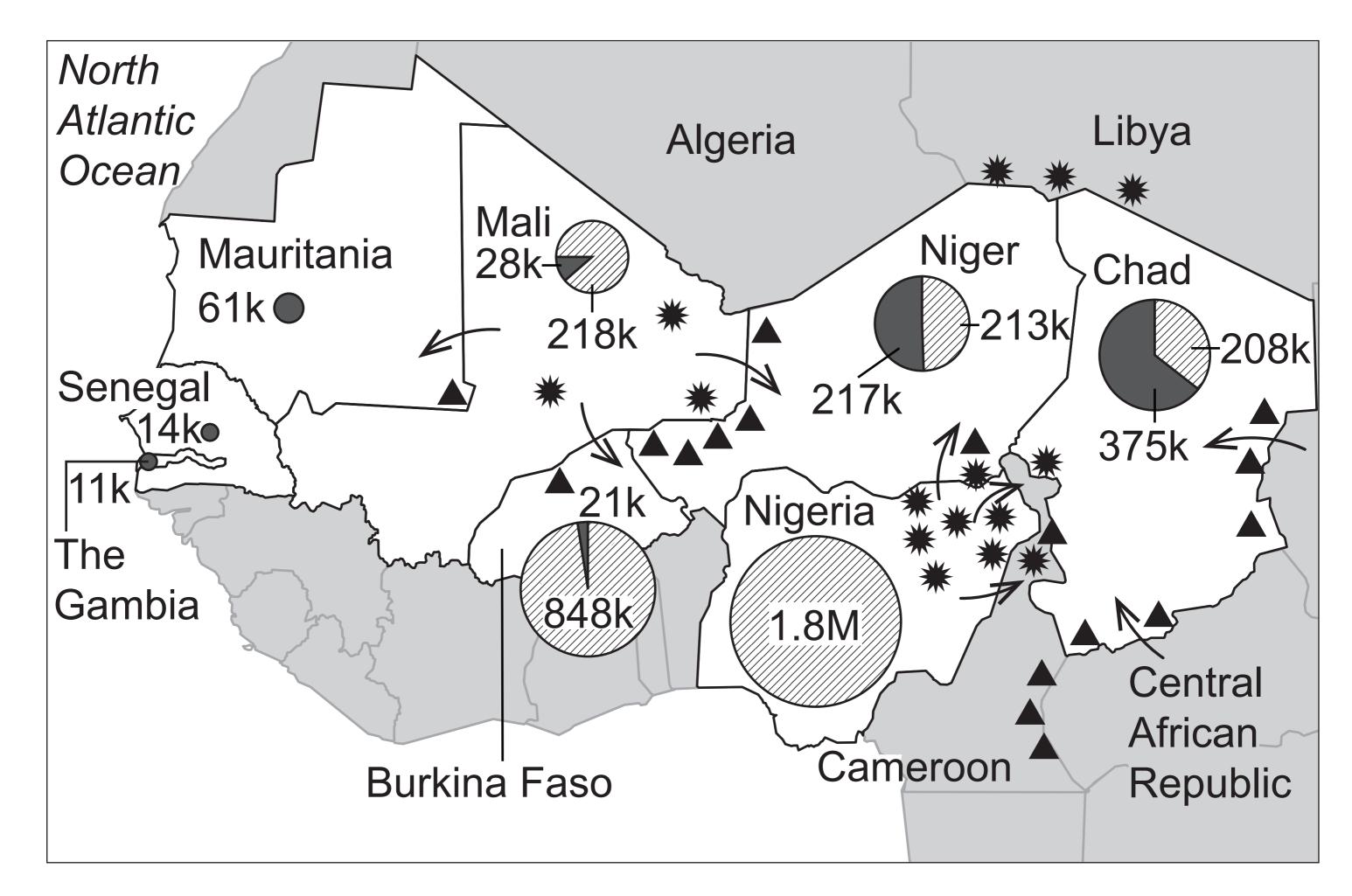
***** Conflicts



Cross-border population movements



Maps are not to scale



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Stimulus 2: Map of West Africa Sahel showing land use and irrigation systems

Key — Land use

Rice/root crops mixed

Arid and nomadic pastoralism

Root crops

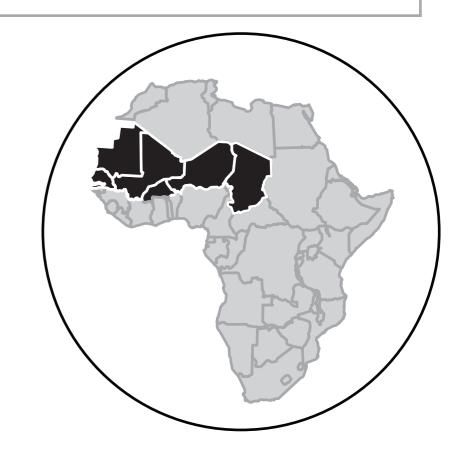
Irrigated agriculture/pastoralism

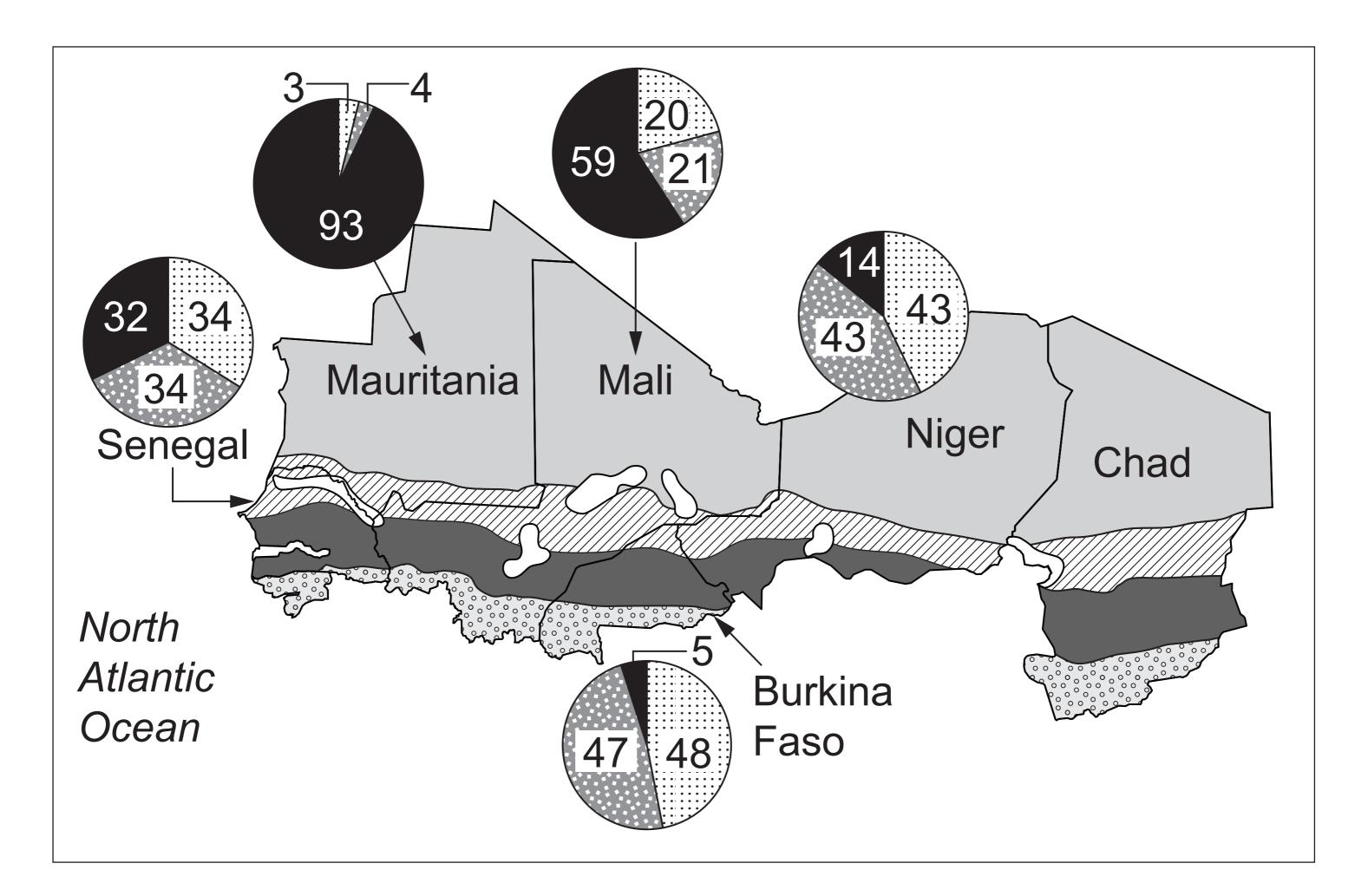
Irrigated agriculture

Key — % type of agriculture

- Rainfed
- Irrigated
- Cropland

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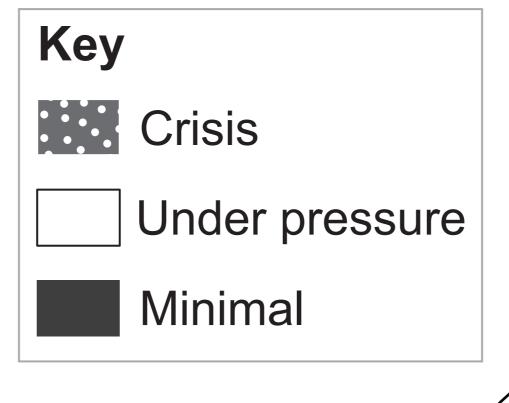




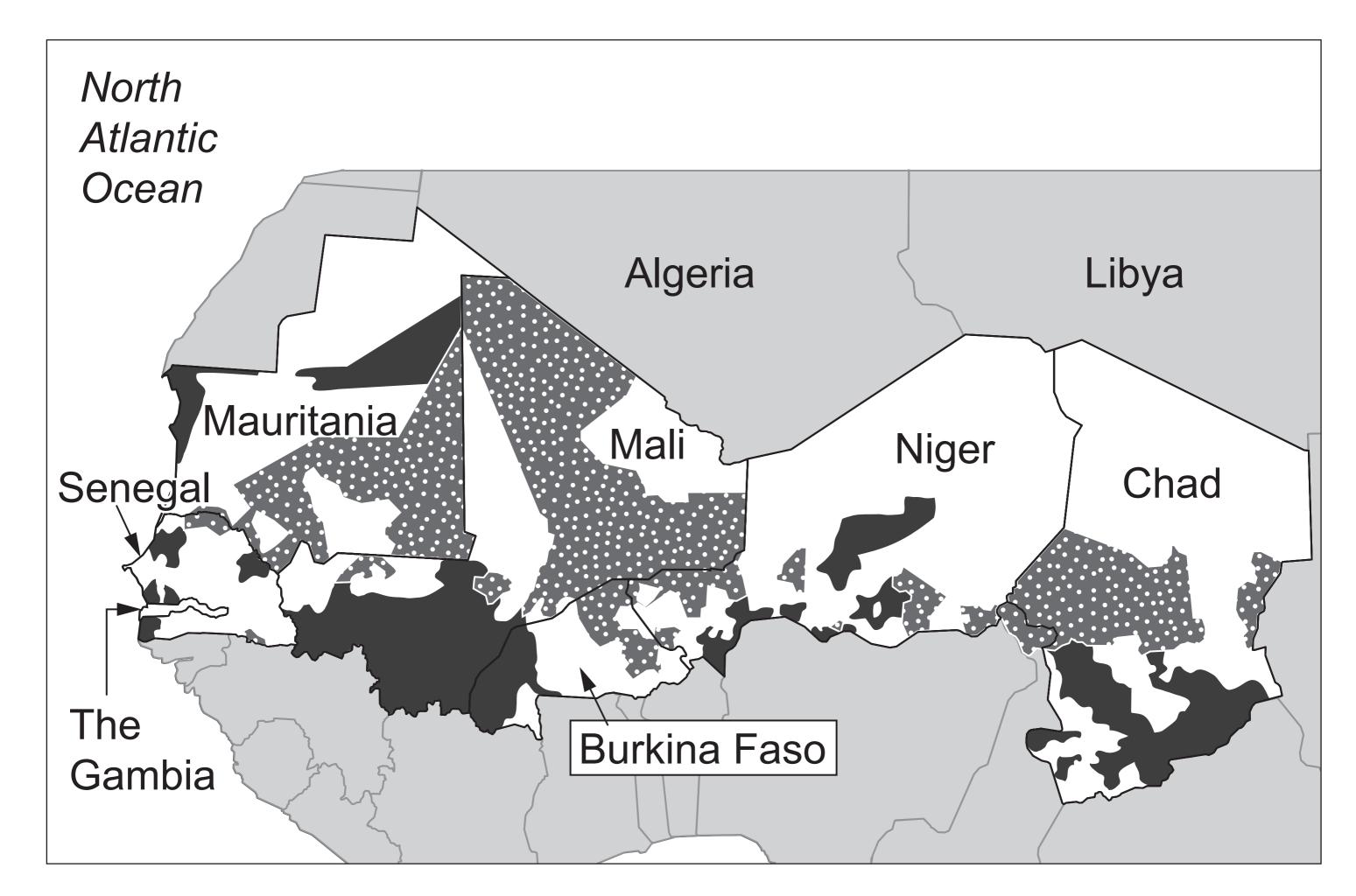
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Stimulus 3: Map of West Africa Sahel showing food security stress

Population (millions) experiencing food stress				
The Gambia	0.33			
Mauritania	0.61			
Senegal	0.72			
Chad	1.11			
Mali	1.12			
Burkina Faso	1.79			
Niger	1.93			



Maps are not to scale

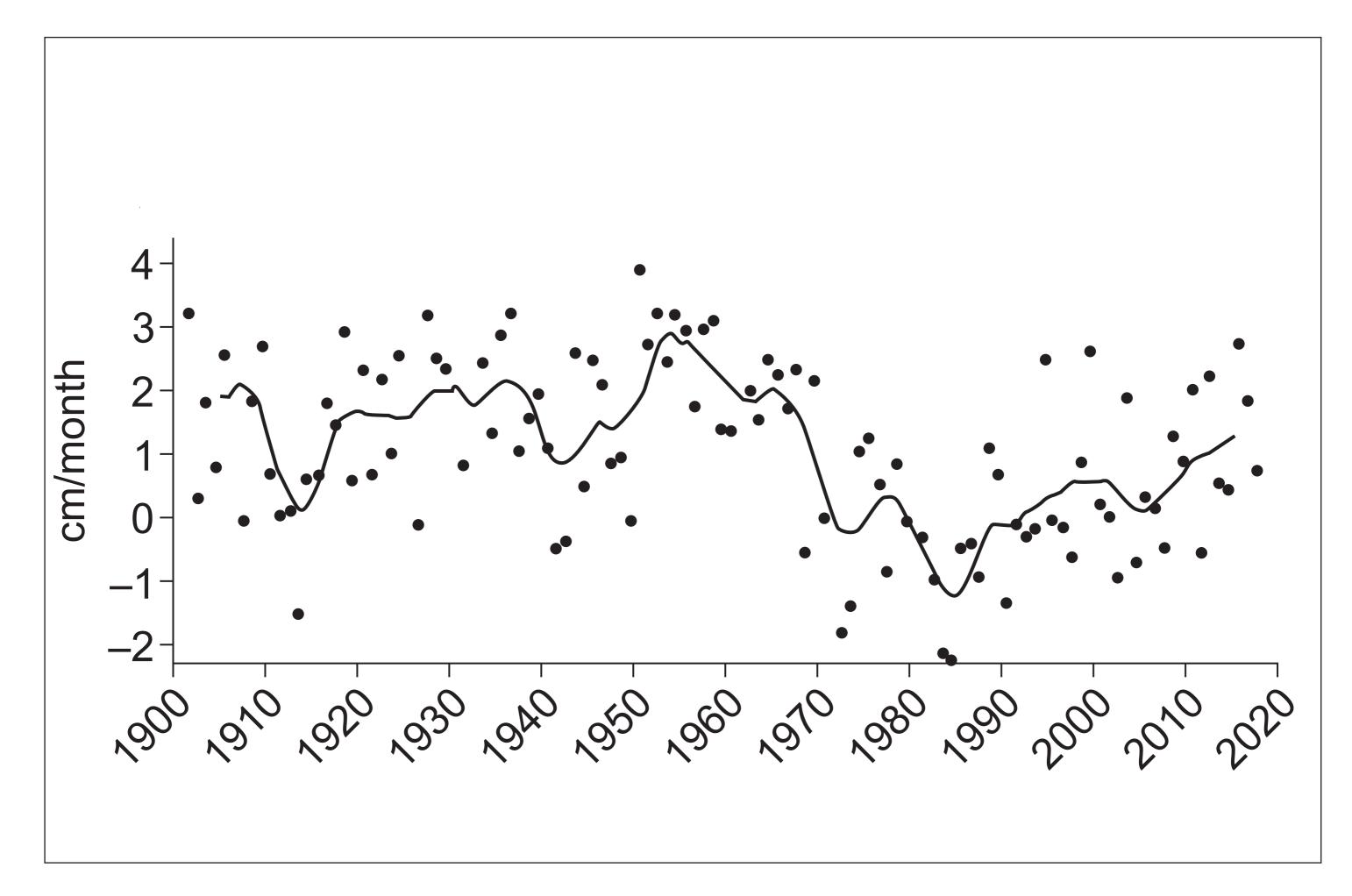


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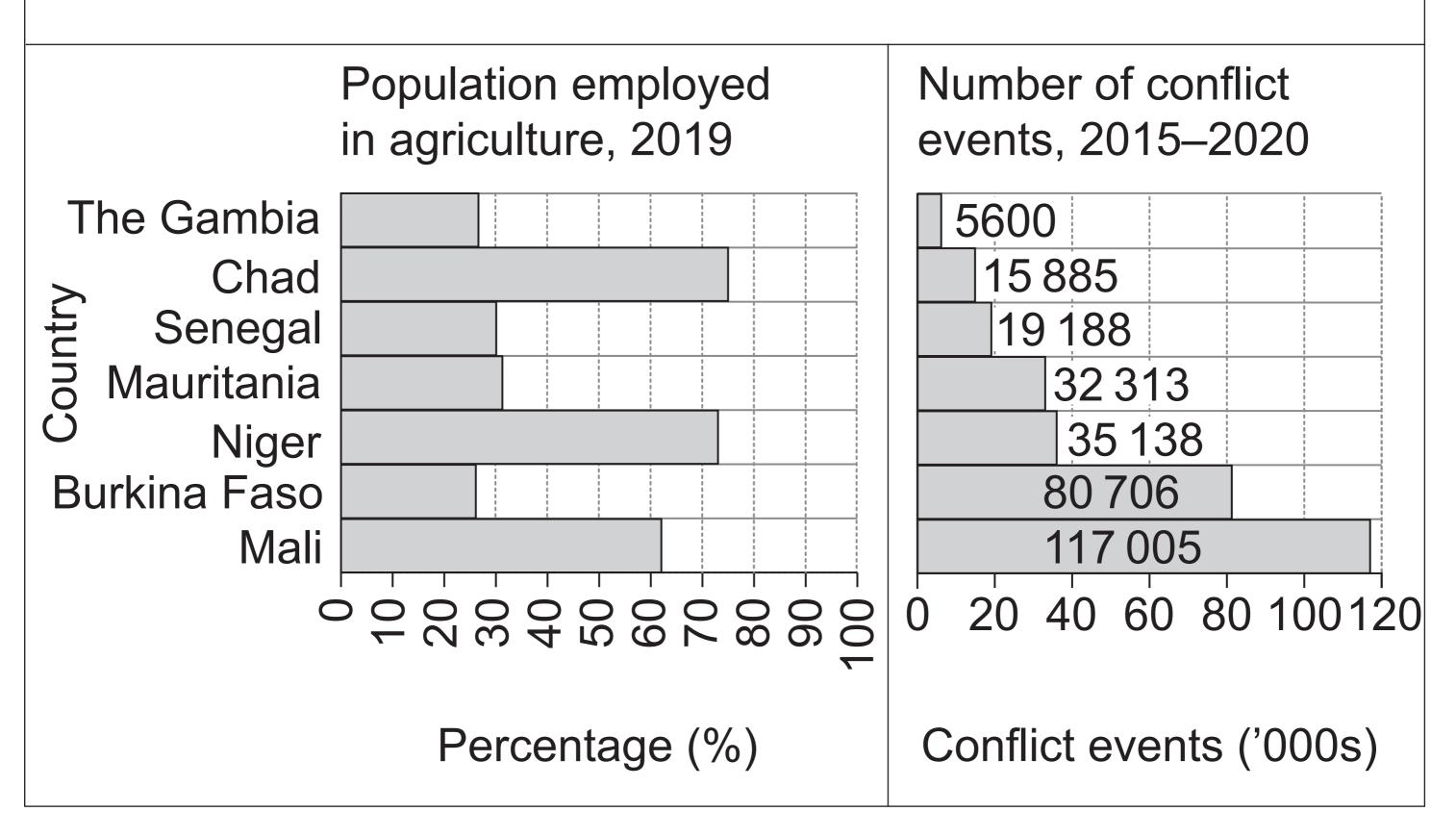
Stimulus 4: West Africa Sahel rainfall index, 1900–2020

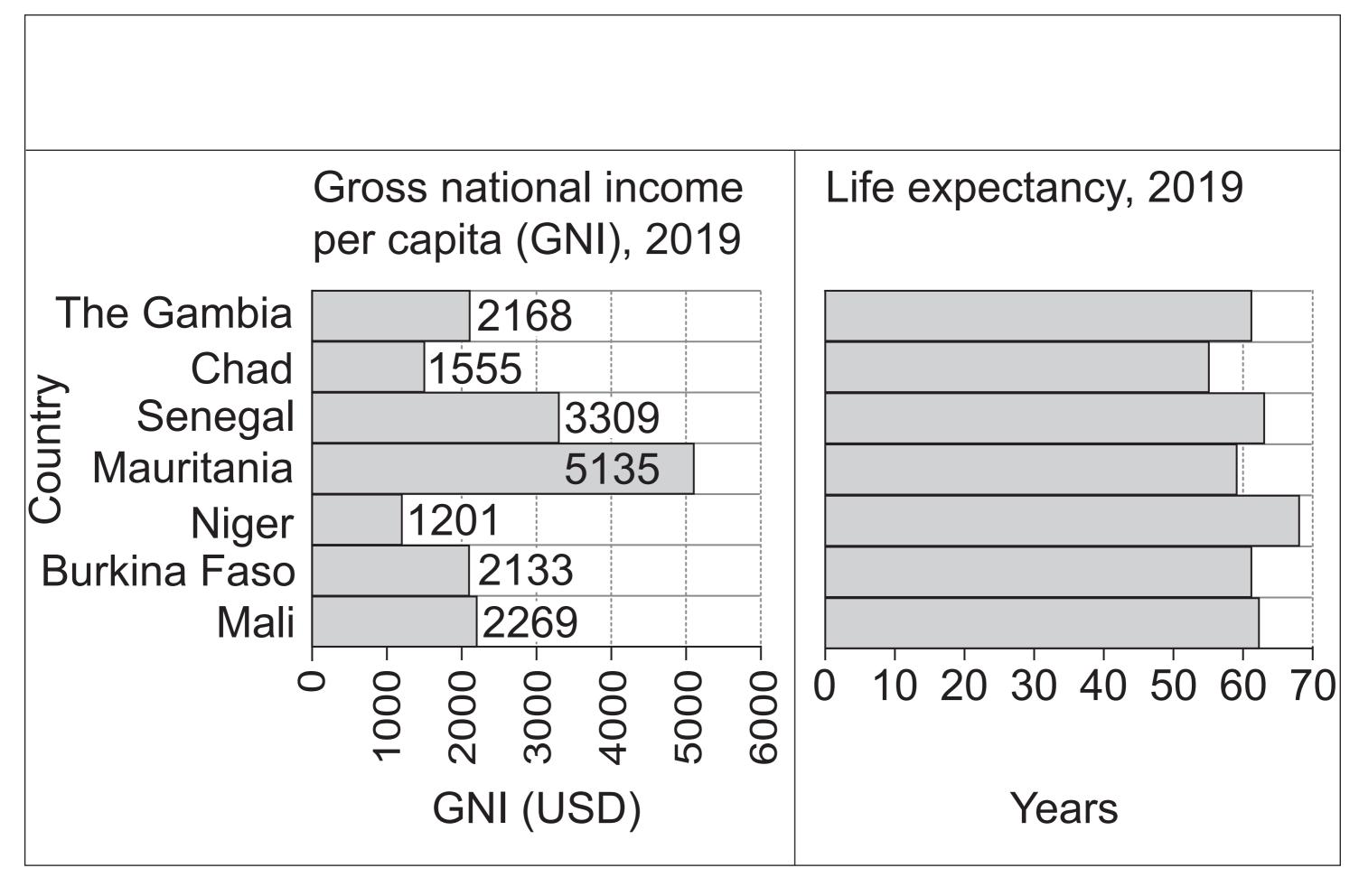
Key

- Average yearly rainfall anomaly
- Mean yearly rainfall (trend)



Stimulus 5: Development and conflict indicators





of 10

References

Stimulus 1

Data sourced from United Nations Office for the Coordination of Humanitarian Affairs 2020, 'Sahel regional dashboard: IDPs and refugees' in *Overview of humanitarian needs and requirements: Sahel crisis*, www.humanitarianresponse.info/fr/operations/west-and-central-africa/document/sahel-2020-sahel-overview-humanitarian-needs-and. Licensed under a Creative Commons Attribution 4.0 International license.

Map adapted from United Nations Office for the Coordination of Humanitarian Affairs 2016, 'The Sahel', p. 5, https://reliefweb.int/sites/reliefweb.int/files/resources/sahel info sheet march lowres.pdf

Stimulus 2

Type of agriculture data from Samasse, K, Hanan, NP, Anchang, JY and Diallo, Y 2020, 'Figure 7: The relative importance (%) of the five Sahelian countries in cropland area across West Africa...' in *A high-resolution cropland map for the West African Sahel based on high-density training data, Google Earth engine, and locally optimized machine learning*, Remote Sensing, vol. 12, issue 9, p. 11, www.mdpi.com/2072-4292/12/9/143

Land use data from USAid 2017, 'West Africa Sahel livelihood systems', *Climate change risk profile: West Africa*, *Sahel*, www.climatelinks.org/resources/climate-risk-profile-west-africa-sahel

Map inspired by Samasse, K, Hanan, NP, Anchang, JY and Diallo, Y 2020, 'Figure 10: Cropland extent across gradient of mean annual precipitation' in *A high-resolution cropland map for the West African Sahel based on high-density training data, Google Earth engine, and locally optimized machine learning*, Remote Sensing, vol. 12, issue 9, p. 11. https://www.mdpi.com/2072-4292/12/9/143

Stimulus 3

Adapted from WFP 2019, 'Food insecurity projected situation (June–August 2020)', *World Food Programme*, https://geonode.wfp.org/wfpdocs/food-insecurity-projected-situation-june-august-2020-over-sahel-ch-november-2019/

Stimulus 4

Adapted from Benedikt.Seidl 2008, 'Sahel rainfall timeseries', *Wikimedia Commons*, https://commons.wikimedia.org/wiki/File:Sahel rainfall timeseries en.svg, (Public domain).

Stimulus 5

Population employed in agriculture data from International Labour Organization 2021, 'Employment in agriculture (% of total employment)', *The World Bank*, https://data.worldbank.org/indicator/SL.AGR.EMPL.ZS?locations=ML-BF-NE-SN-MR

GNI data sourced from UNDP 2023, 'Human development index (HDI) (excel spreadsheet)', United Nations Development Programme, https://hdr.undp.org/data-center/human-development-index#/indicies/HDI

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Life expectancy data sourced from UNDP 2023, 'Human development index (HDI) (excel spreadsheet)', United Nations Development Programme, https://hdr.undp.org/data-center/human-development-index#/indicies/HDI



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