

Food Consumption and Iron Status Survey 2010, In Two Provinces of Rural Burkina Faso

**French National Research Institute for Sustainable Development (IRD, Institut de
Recherche pour le Développement), HarvestPlus, International Food Policy
Research Institute (IFPRI)**

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Identification

SURVEY ID NUMBER

BFA_2010_FCISS_v01_M_v01_A_ESS

TITLE

Food Consumption and Iron Status Survey 2010, In Two Provinces of Rural Burkina Faso

ABBREVIATION OR ACRONYM

FCISS 2010

COUNTRY

Name	Country code
Burkina Faso	BFA

STUDY TYPE

Individual Food Consumption/Dietary Survey [hh/ifcs]

ABSTRACT

In Burkina Faso very little is known about levels of vitamin A, iron, and zinc deficiencies. The lack of detailed knowledge about food and nutrients intake and deficiency levels is a substantial obstacle to the design, implementation and evaluation of effective food-based interventions such as biofortification. The present study, a preliminary study of a sorghum biofortification project, was conducted to help fill that knowledge gap in two rural provinces of Burkina Faso.

Its objectives were: (i) to provide reliable information on sorghum consumption, micronutrient intakes and micronutrient deficiencies among women of reproductive age and their preschool children, in order to better inform sorghum micronutrient content breeding targets and future interventions; and (ii) to investigate the relationship between biomarkers of status and dietary intakes of iron, zinc and vitamin A among the study subjects in order to better inform the evaluation design of future biofortification interventions.

This work is part of the Grand Challenges in Global Health (#9), an initiative of the Gates Foundation providing a grant to the International Food Policy Research Institute; with additional funds from the French National Research Institute for Sustainable Development (IRD, Institut de Recherche pour le Développement).

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Individuals

Scope

NOTES

The survey collected information on:

- SUBJECTS: information on the participants such as age, sex, and geographical location
- CONSUMPTION: information on all foods consumed by each participant in each survey day, including quantities and nutrient values

Coverage

GEOGRAPHIC COVERAGE

Sub-national coverage, only rural areas (two provinces of rural).

UNIVERSE

Women of reproductive age and their children aged 36 to 59 months were covered in the study.

Producers and sponsors

PRIMARY INVESTIGATORS

Name
French National Research Institute for Sustainable Development (IRD, Institut de Recherche pour le Développement)
HarvestPlus, International Food Policy Research Institute (IFPRI)

Sampling

SAMPLING PROCEDURE

The survey was cross-sectional and targeted women and preschool children in two rural provinces in western and north-western Burkina Faso: the Sanguié province, in the Region of the Centre-Ouest; and the Sourou province, in the Region of the Boucle du Mouhoun. The target population consisted of women and preschool children because of their high micronutrient requirements due to their needs for reproduction and growth, respectively. Children aged 36 to 59 months were selected because at this age they were consuming family dishes, were unlikely to be breastfed, and were more likely to benefit from biofortification due to greater intake of sorghum than younger children. Mothers were recruited along with their children for convenience. One index child from the target age range was randomly selected from a household.

The sampling procedure was a multistage cluster selection process of 240 households in each province (five health areas per province × six clusters per area × eight households per cluster). At the first stage, health areas were randomly selected proportionally to their population size. Population sizes in health areas and villages were obtained from medical districts' records and were further checked for consistency by comparison of the data available from the National Census of 2006. At the next stage, six clusters (villages) were selected in each health area through the same proportional to size technique. Eligible households were identified in each village through a census of all households. Eligible households were those living permanently in the village and having a mother of a child aged 36 to 59 months who agreed to participate in the study. Among eligible households, the desirable number of households was then selected for the survey using a random number digits table. Out of 480 households having eligible woman and child pair that were selected for data collection, 478 actually took part in the survey. After analysis of food intakes, over- or under-reporters were excluded (24 women and 32 children). Out of 180 child-mother pairs selected for blood puncture, 166 women and 155 children were actually sampled.

WEIGHTING

Sampling weights were created for each province.

Data collection

DATES OF DATA COLLECTION

Start	End
2010-07-13	2010-12-13

DATA COLLECTION MODE

Face-to-face [f2f]

DATA COLLECTION NOTES

Individual quantitative 24-hour recalls were collected through paper questionnaire. Two recalls were collected for each participant. Repeated 24-hour recalls were collected on 33 percent of the sample (3 out of 8 individuals), with an average of 2 days between the recalls. The survey covered both weekdays and weekends.

DATA COLLECTORS

Name
French National Research Institute for Sustainable Development (IRD, Institut de Recherche pour le Développement)
Institute for Research in Health Sciences (IRSS, Institut de Recherche en Sciences de la Santé)

Access policy

CONTACTS

Name	Affiliation	Email
Food and Nutrition Division (ESN)	Food and Agriculture Organization of the United Nations	fao-who-gift@fao.org

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- Any results derived from the micro dataset will be used solely for reporting aggregated information, and not for any specific individual entities or data subjects;
- The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO;
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CITATION REQUIREMENTS

Institut de Recherche pour le Développement (IRD); Institut de Recherche en Sciences de la Santé (IRSS); HarvestPlus, International Food Policy Research Institute (IFPRI), 2016, "The 2010 Food consumption and iron status survey in two provinces of rural Burkina Faso", doi:10.7910/DVN/5CXCLX

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Metadata production

DDI DOCUMENT ID

DDI_BFA_2010_FCISS_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Food and Nutrition Division	ESN	Food and Agriculture Organization of the United Nations	Metadata producer
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM
Development Data Group	DECDG	World Bank Group	Metadata adapted for World Bank Microdata Library

DDI DOCUMENT VERSION

Identical to a metadata (BFA_2010_FCISSTPRBF_v01_M_v01_A_ESS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
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study_resources