

# Regional Trade and Food Security

WAF

Sahel and West Africa Club Secretariat (SWAC/OECD)  
West African Futures: settlement, market and food security  
by T. Allen, October 2011

[www.oecd.org/swac/waf](http://www.oecd.org/swac/waf)



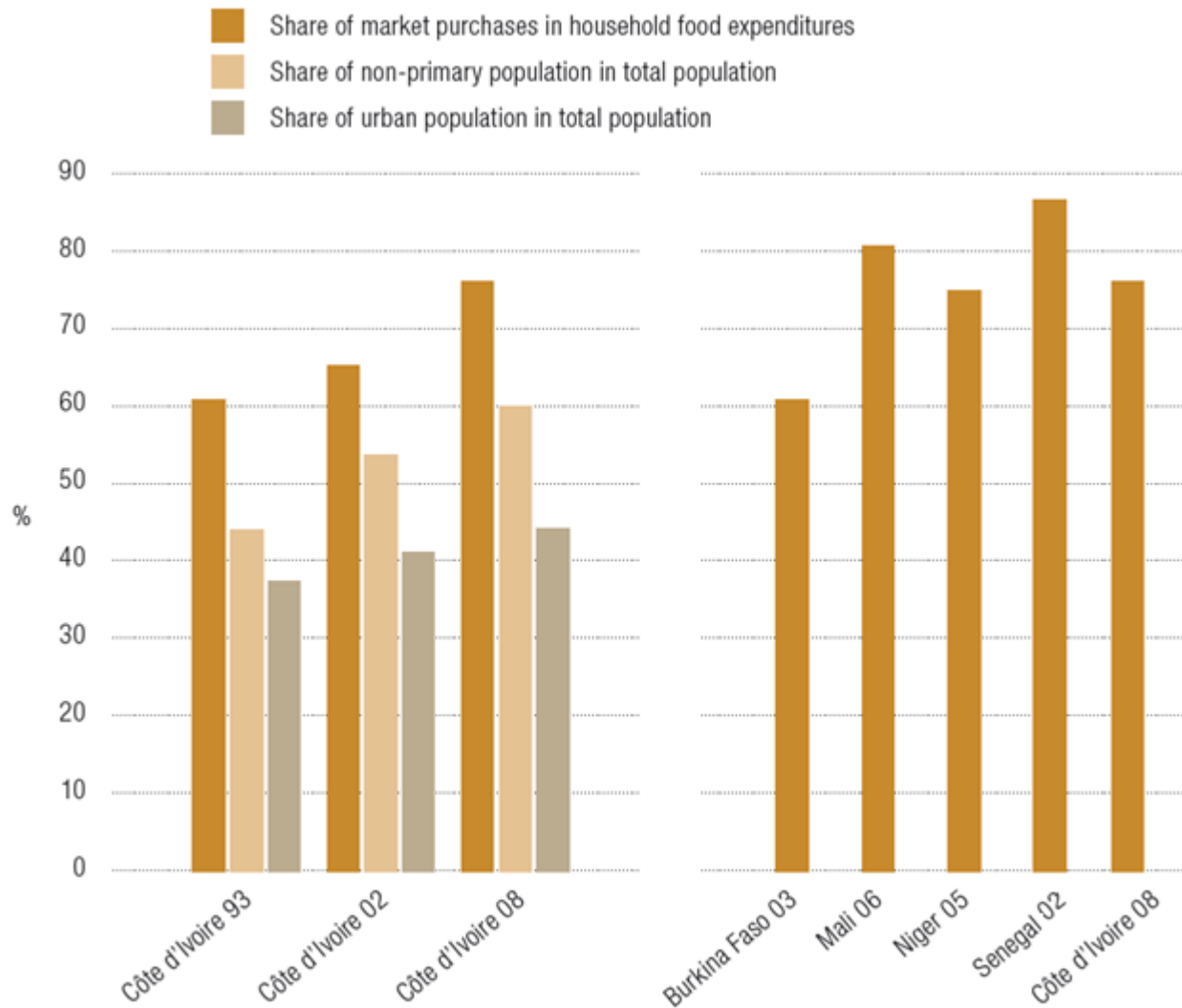
Markets have come to play an **essential role** with changes in settlement patterns:

- *Increasing ratio between urban and rural populations;*
- *Growing proportion of non-producers in agriculture.*

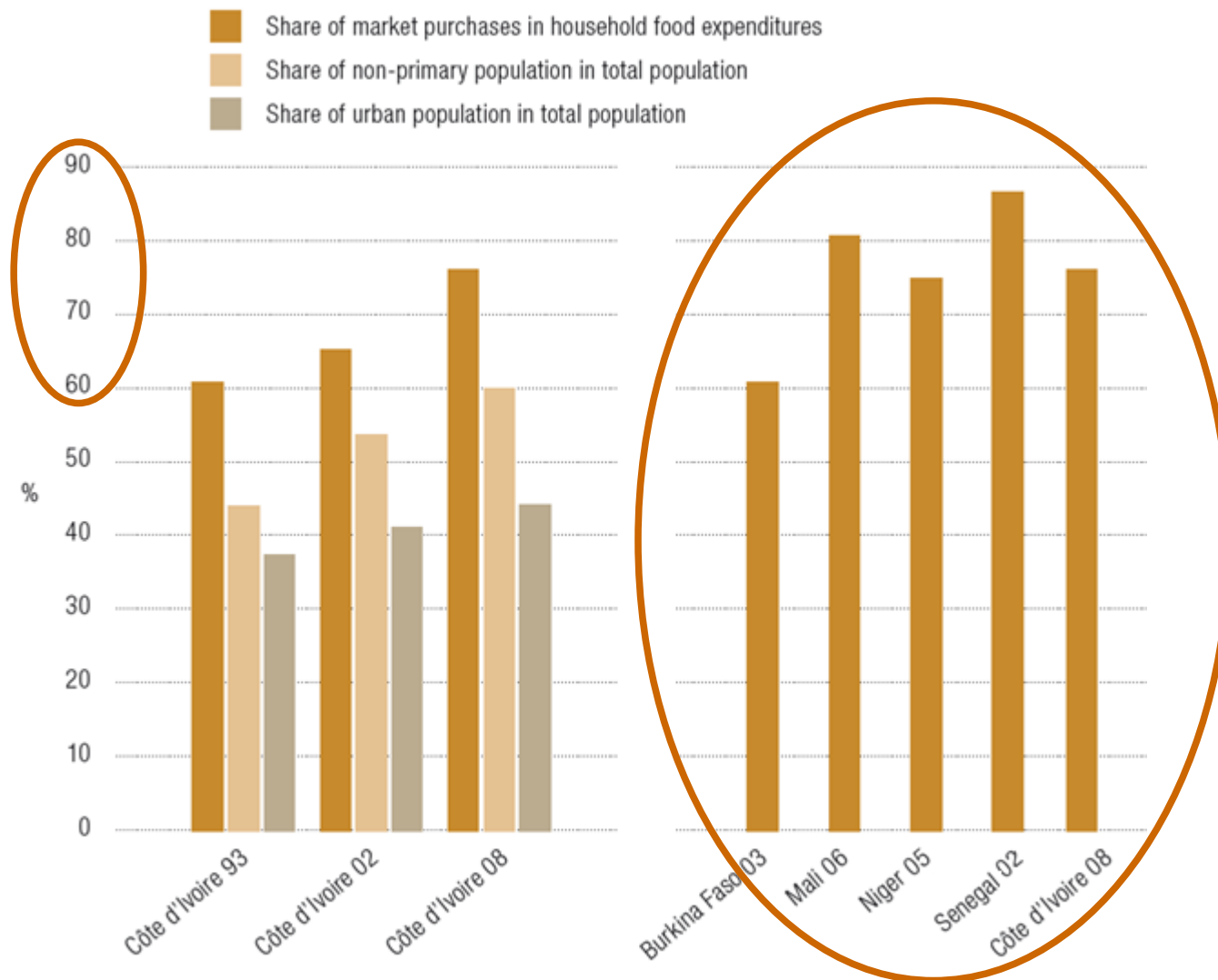
Markets have come to play an **essential role** with changes in settlement patterns:

- *Increasing ratio between urban and rural populations;*
- *Growing proportion of non-producers in agriculture.*

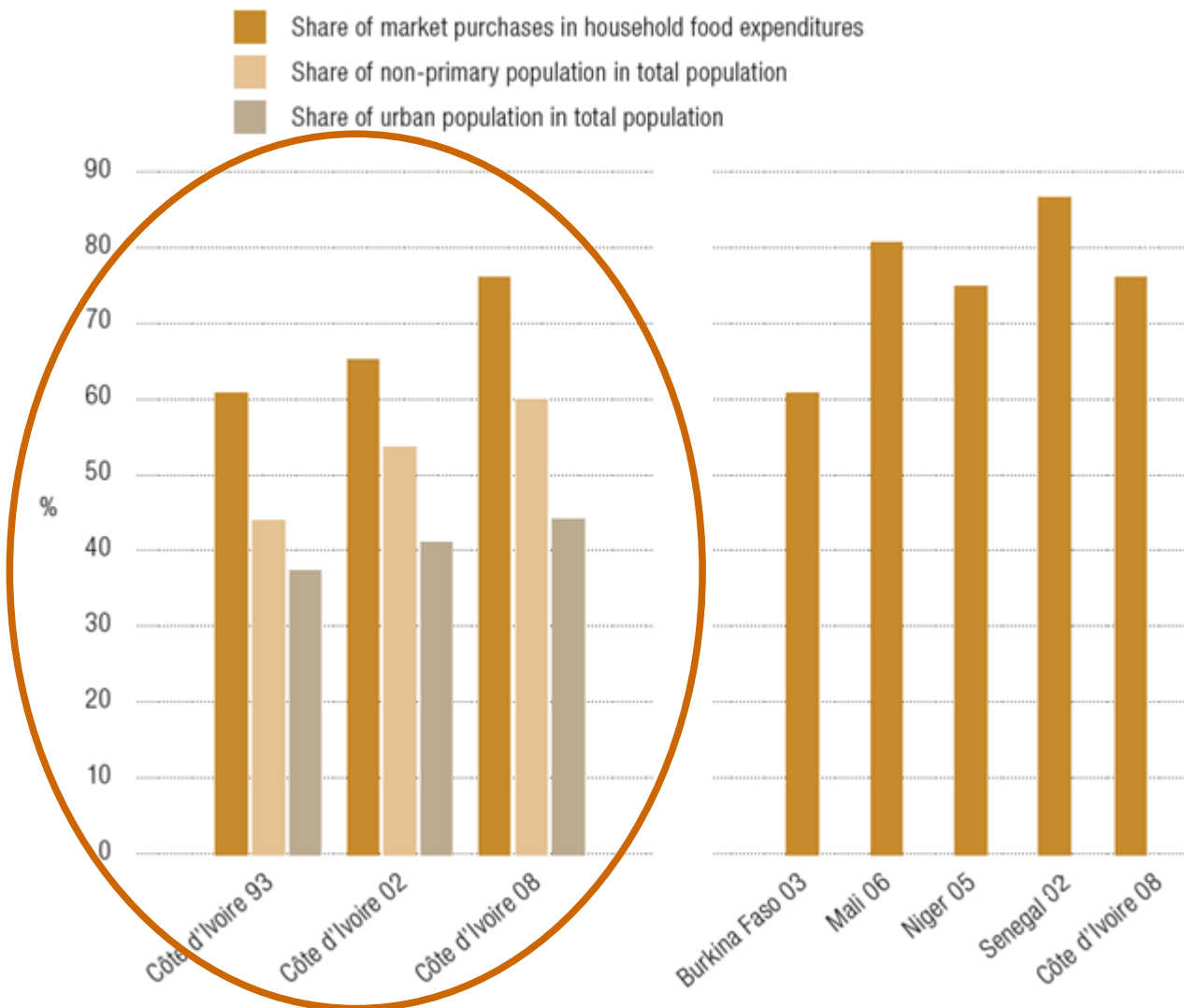
Markets must be viewed from a **regional perspective**.



Sources: MSU, SRAI programme (2011); FAO, PopSTAT; Africapolis (2009) and authors' calculation



Sources: MSU, SRAI programme (2011); FAO, PopSTAT; Africapolis (2009) and authors' calculation



Sources: MSU, SRAI programme (2011); FAO, PopSTAT; Africapolis (2009) and authors' calculation

= Food available for human consumption

Production



Production

- [Exports- Imports]

- Changes in stocks

## Production

- [Exports- Imports]
- Changes in stocks

= Domestic Supply

- Livestock feed
- Seeds
- Losses, etc.

*All utilisations other than  
human consumption*

Production

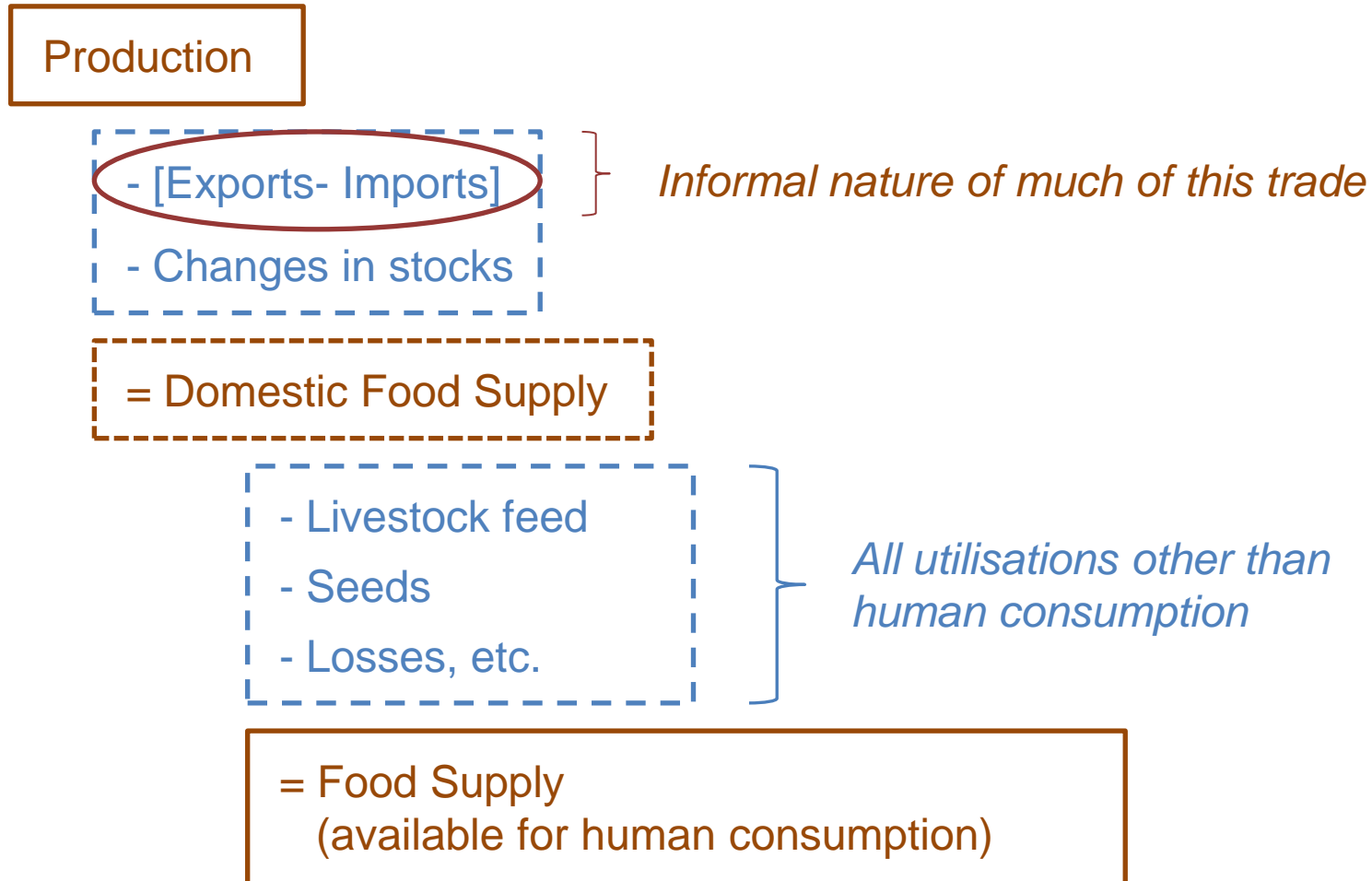
- [Exports- Imports]
- Changes in stocks

= Domestic Supply

- Livestock feed
- Seeds
- Losses, etc.

*All utilisations other than  
human consumption*

= Food Supply  
(available for human consumption)



## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Macroeconomic data*

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Macroeconomic data*

*Microeconomic data*

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.



## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Burkina Faso is known to be a major producer:*

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Burkina Faso is known to be a **major producer**:*

- *Sorghum*
- *Millet*
- *Maize*

## Food supply and consumption in Burkina Faso (2003)

in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Burkina Faso is known to be a net importer:*

## Food supply and consumption in Burkina Faso (2003)

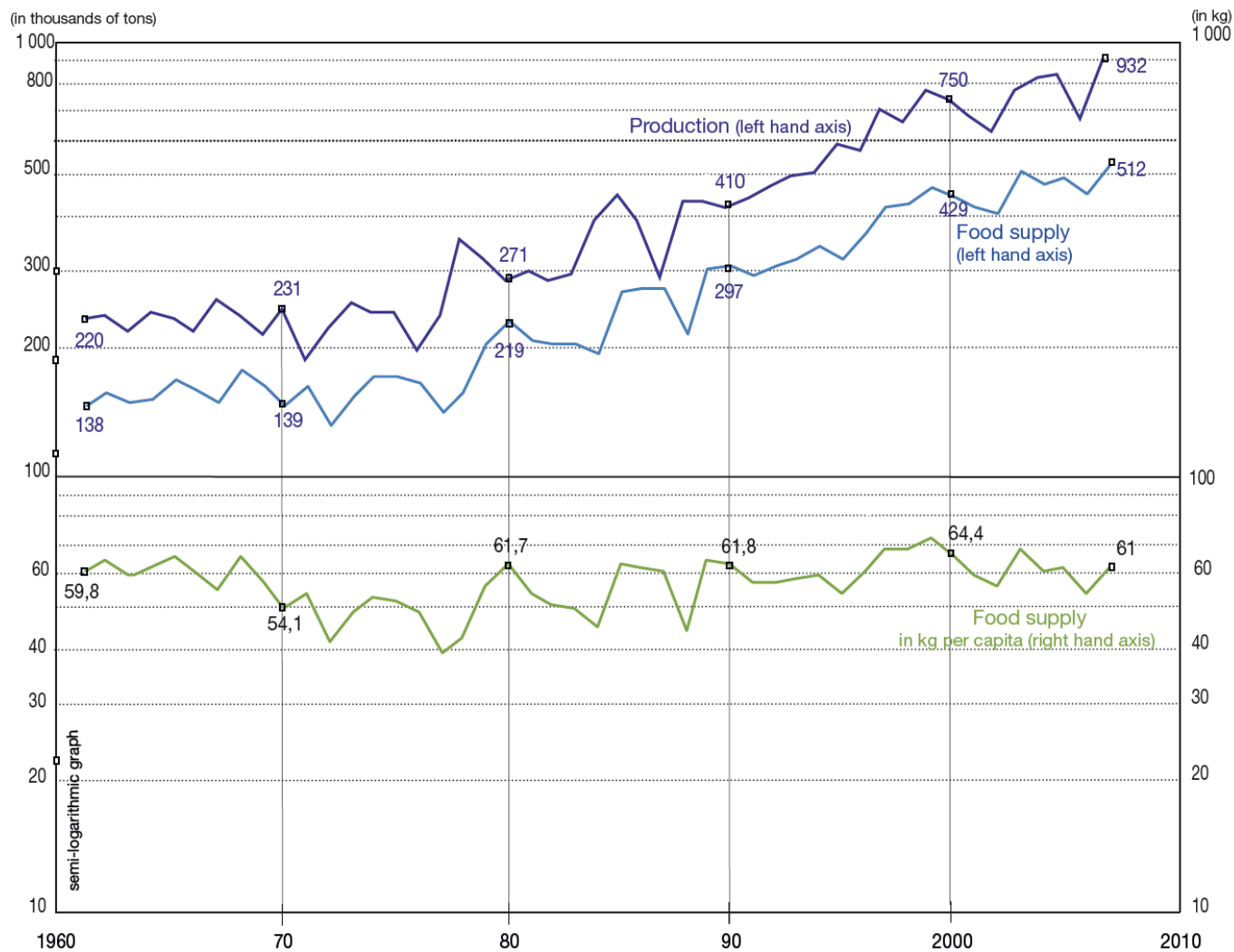
in kg/person/year	Food Balance Sheet (FAO 2003)	QUIBB (INSD 2003)	Difference
Sorghum	89.6	75.23	+19%
Millet	72.6	72.78	0%
Maize	48.1	41.87	+15%
Rice	16.6	22.29	-26%

Source: FAO, Food Balance Sheet ; INSD, household living conditions survey; authors' calculations.

*Burkina Faso is known to be a **net importer**:*

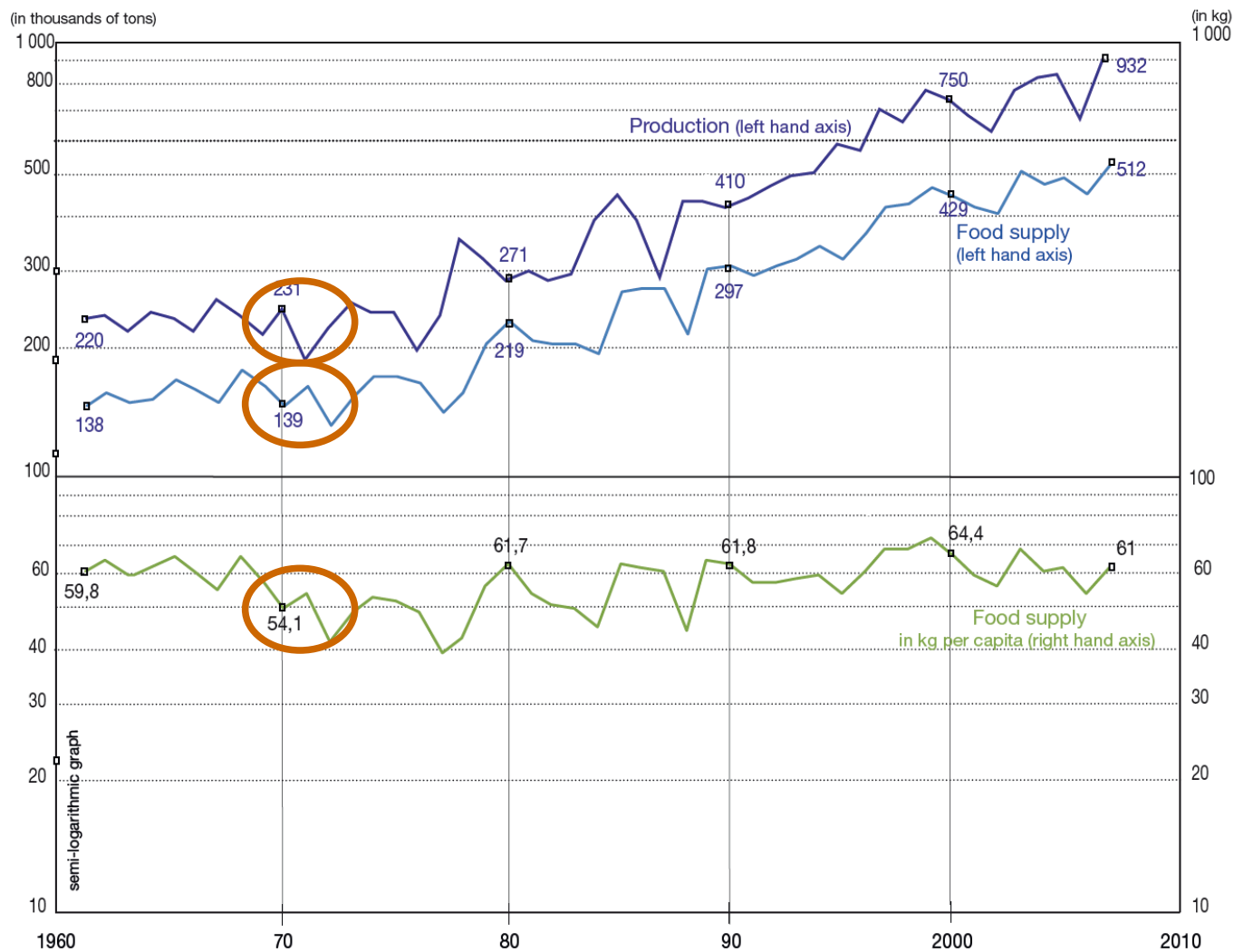
*- Rice*

## Changes in maize production and supply in Benin (1961–2007)



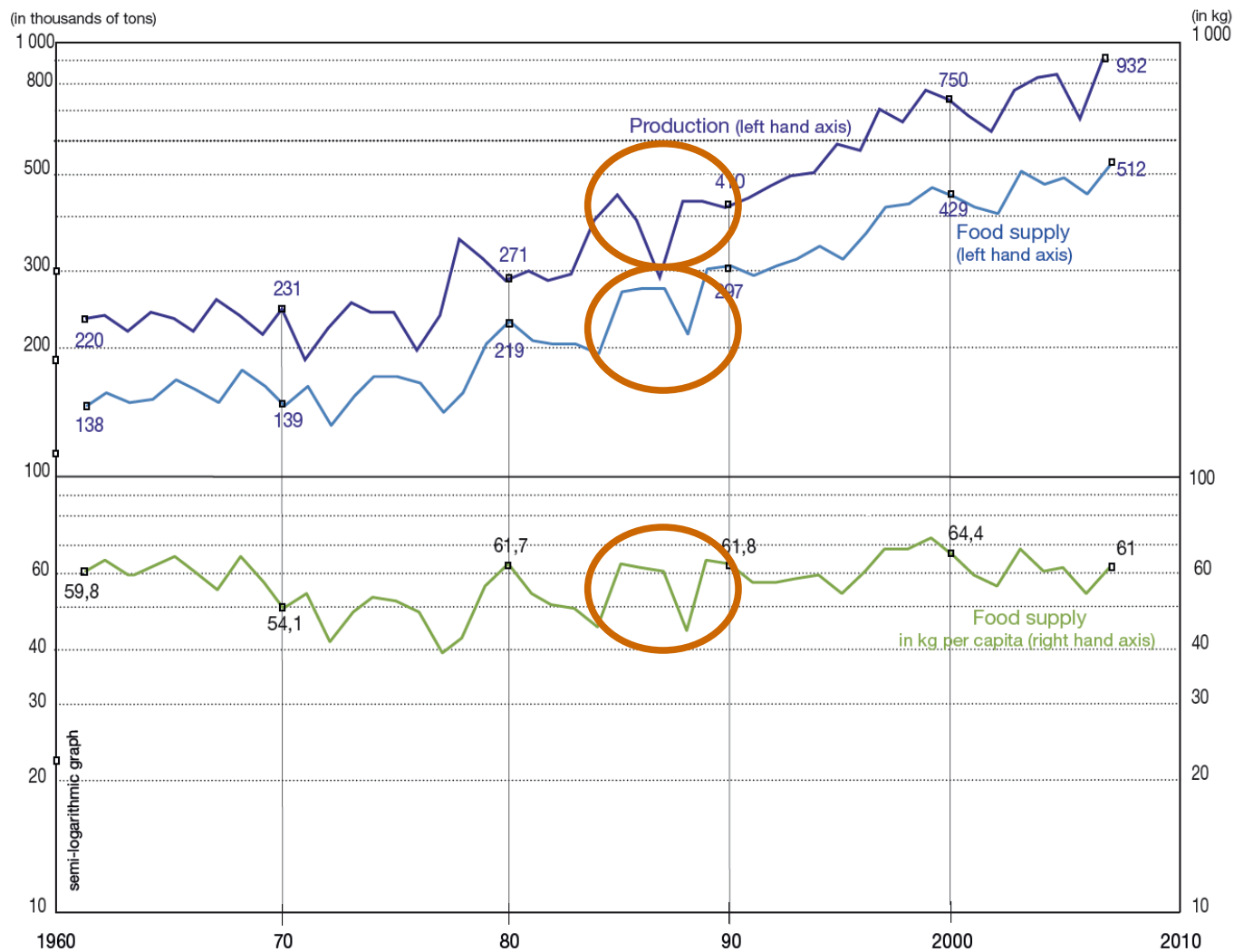
Source: FAO, Food Balance Sheet and authors' calculations.

## Changes in maize production and supply in Benin (1961–2007)



Source: FAO, Food Balance Sheet and authors' calculations.

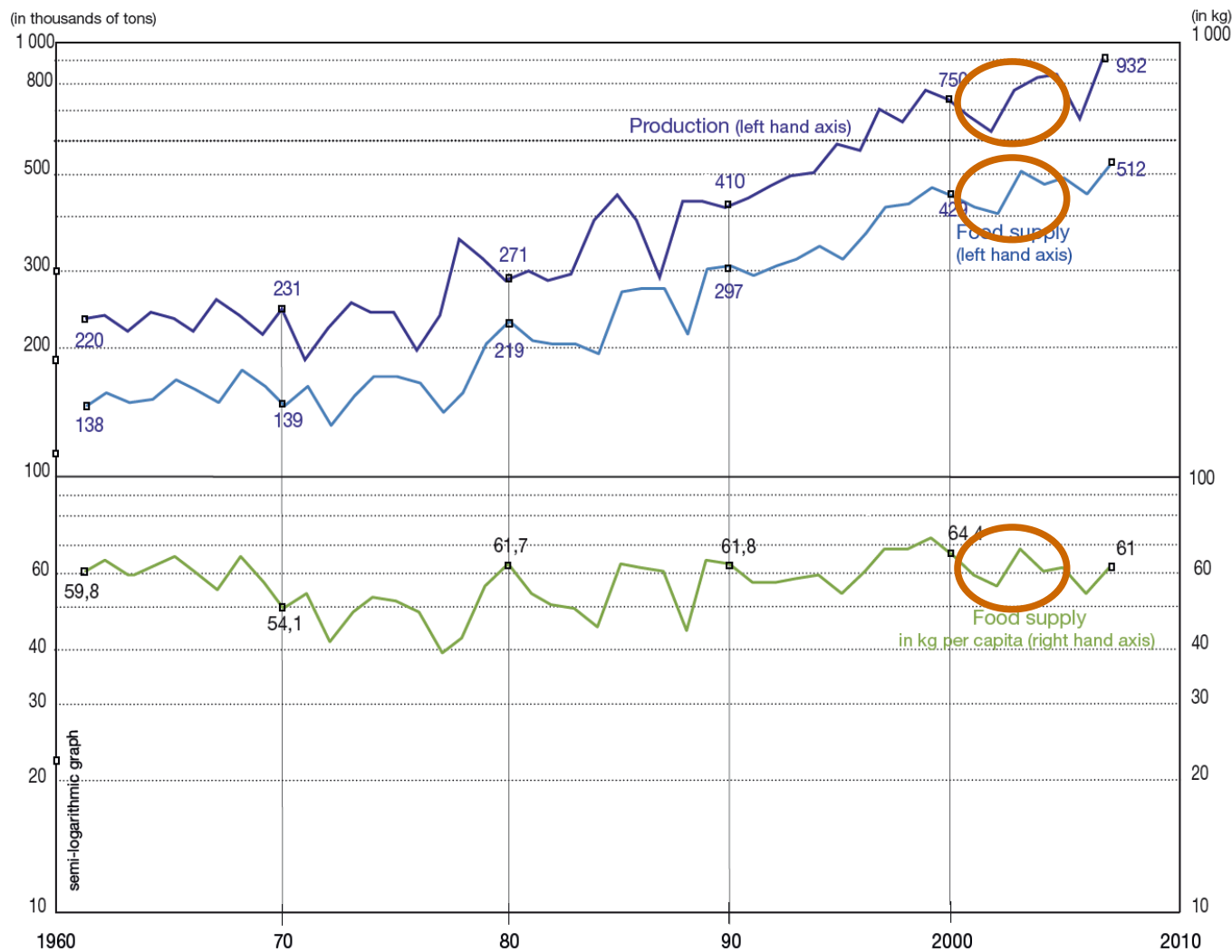
## Changes in maize production and supply in Benin (1961–2007)



Source: FAO, Food Balance Sheet and authors' calculations.

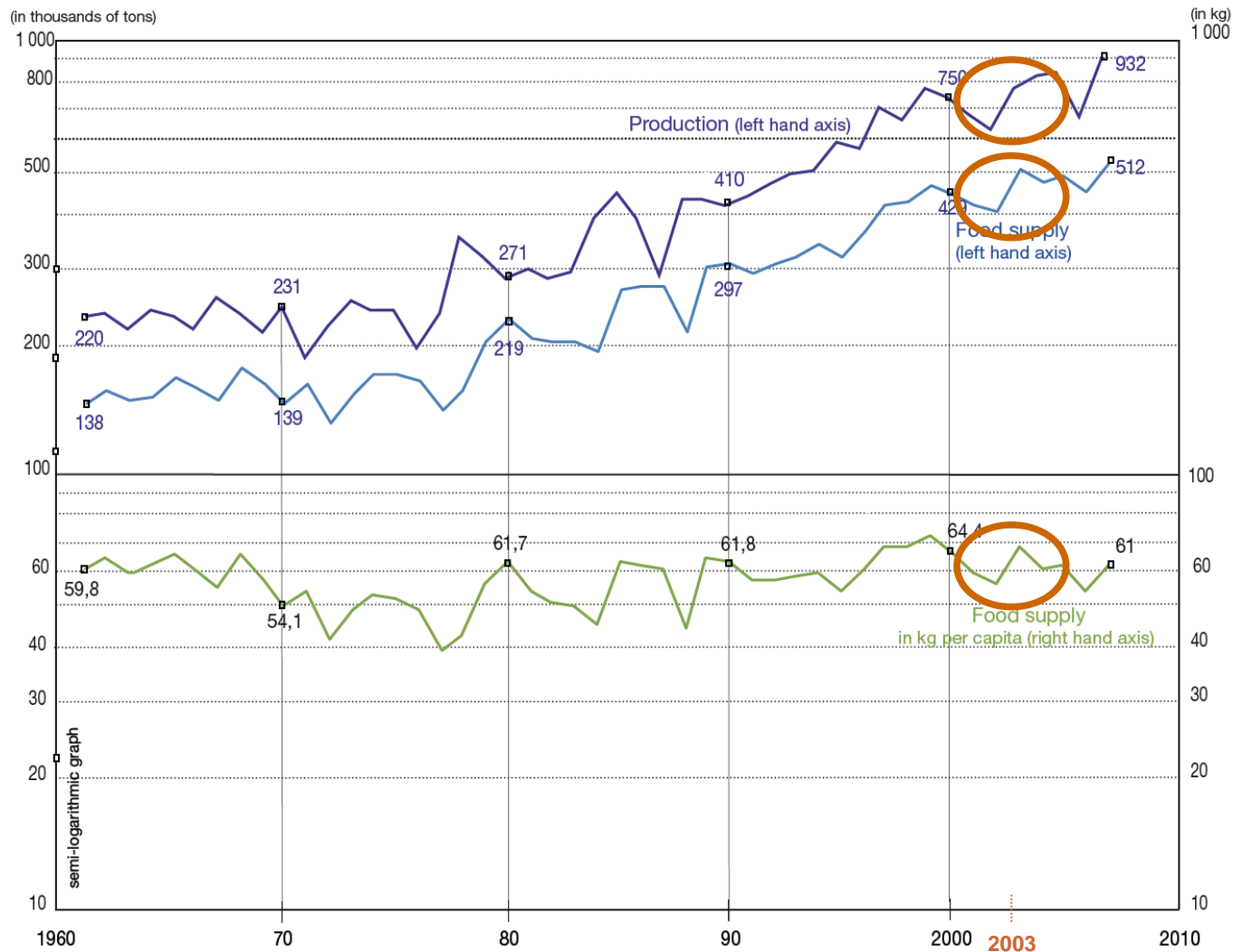


## Changes in maize production and supply in Benin (1961–2007)



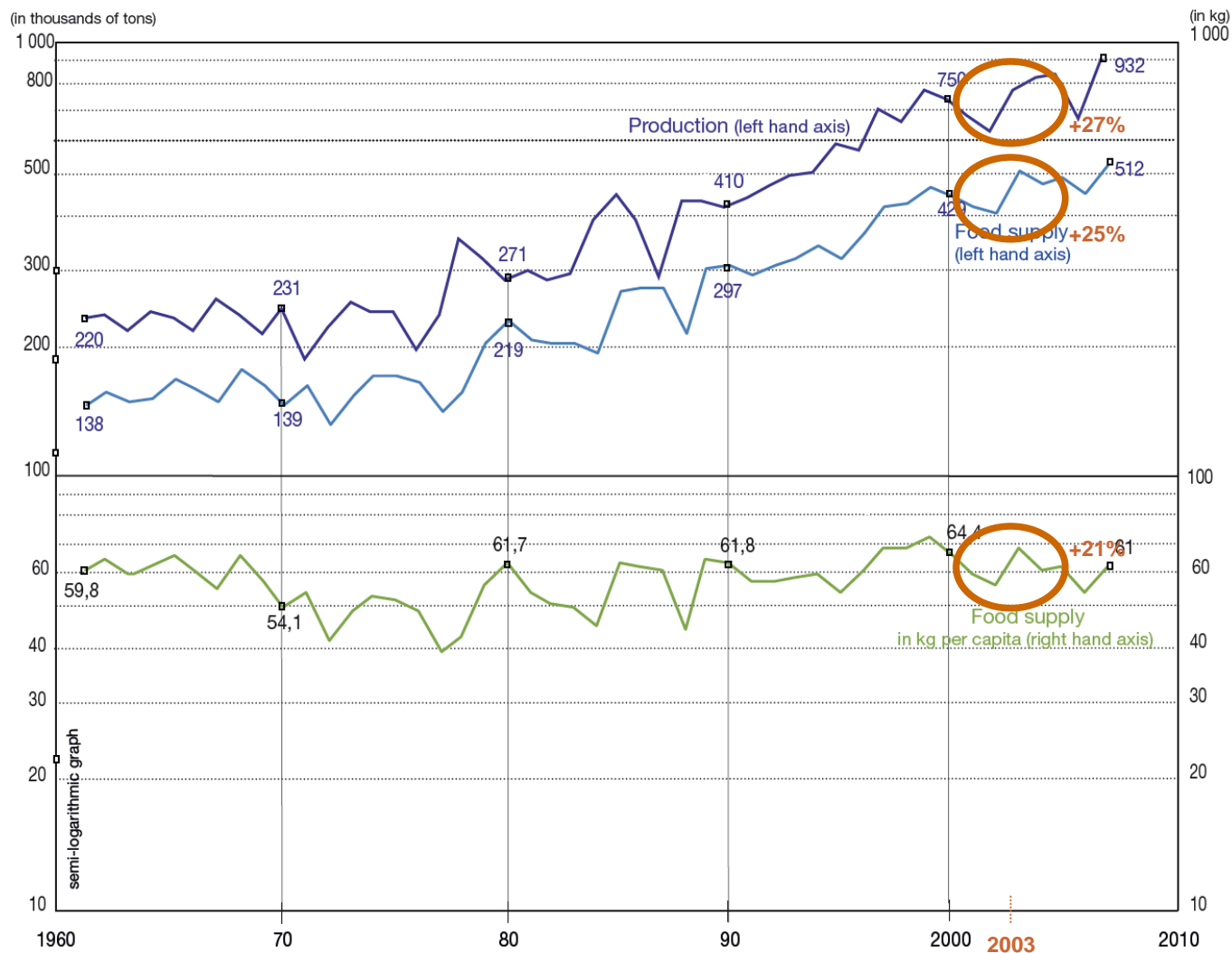
Source: FAO, Food Balance Sheet and authors' calculations.

## Changes in maize production and supply in Benin (1961–2007)



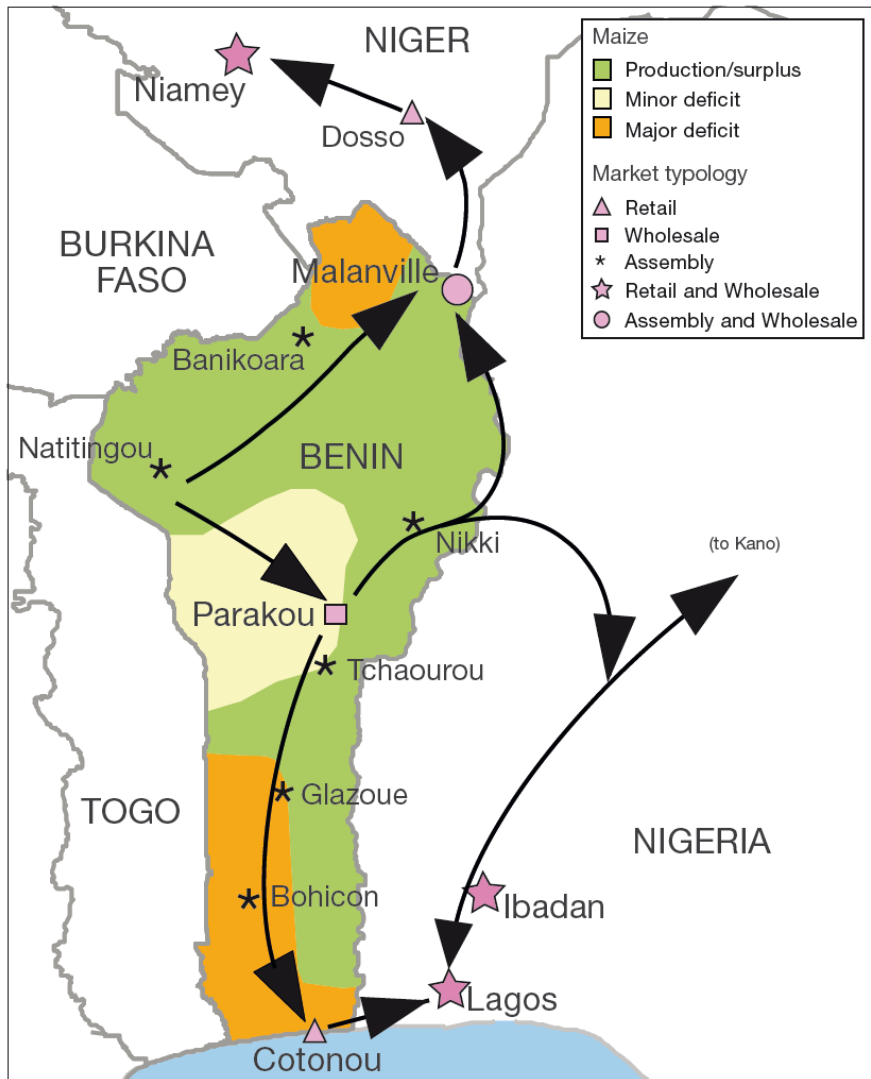
Source: FAO, Food Balance Sheet and authors' calculations.

## Changes in maize production and supply in Benin (1961–2007)



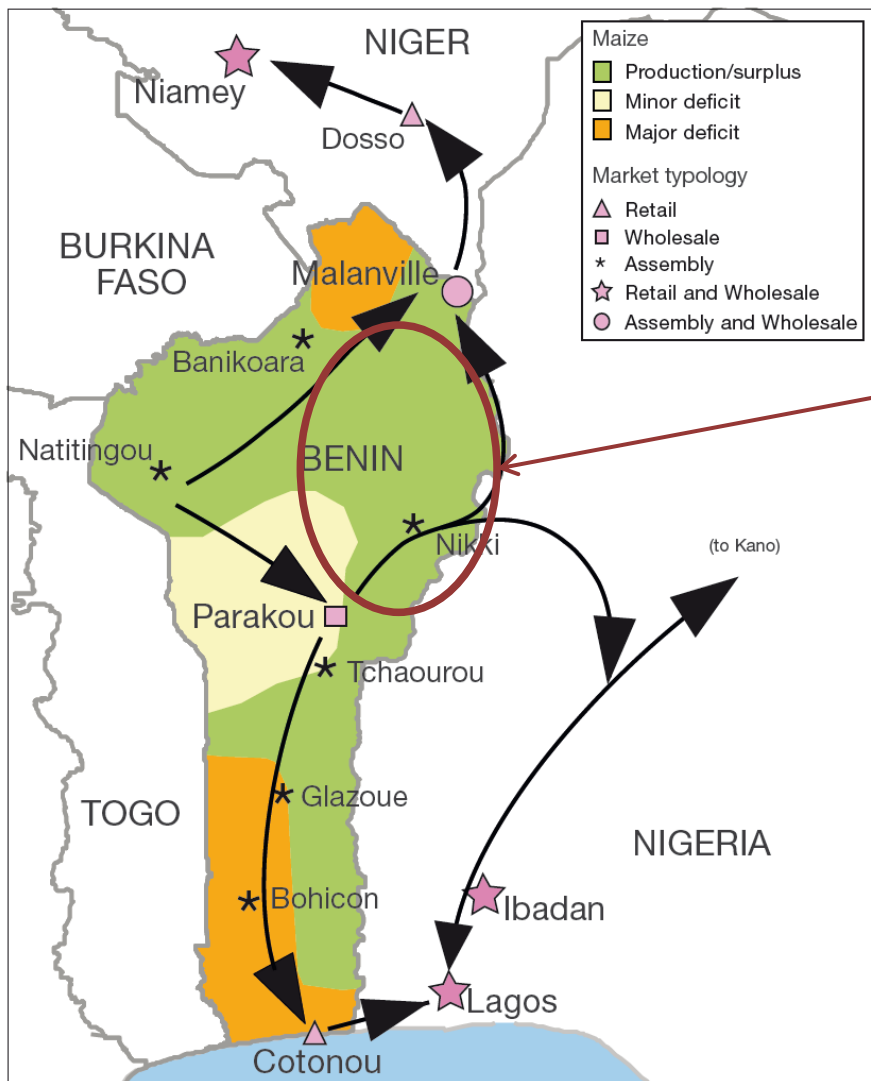
Source: FAO, Food Balance Sheet and authors' calculations.

## Cross-border maize flows from Benin



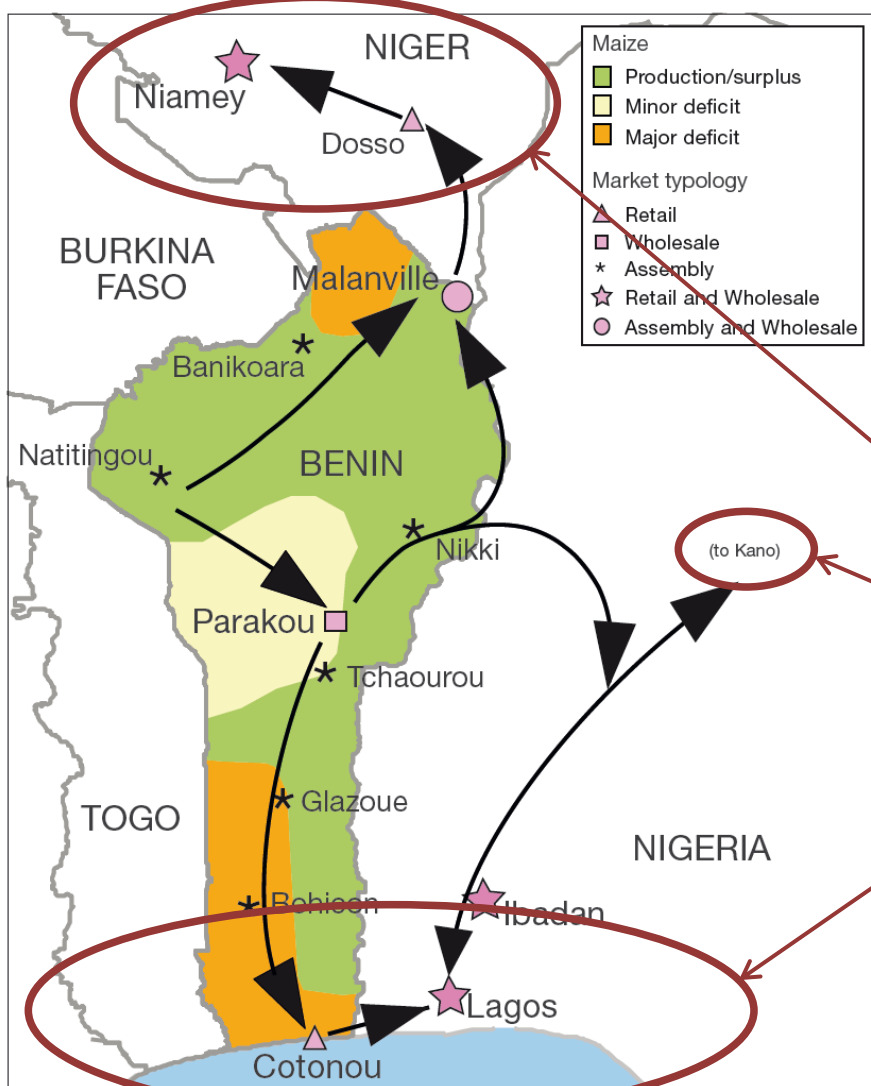
Source: USAID, FEWSNET

## Cross-border maize flows from Benin



*Major maize farming area*

## Cross-border maize flows from Benin



*Major maize demand areas*

It is essential to account for...

- **regional...**
- and **informal...**

...food flows to design food security policies.