[Re]source Kumasi

Supplementing food with knowledge to work towards independent food security.

Ericka Brendel - Thesis Studio Spring 2013 - Professor Hajo Neis

POPULATION GROWTH

- Rural / Import
- Urban
- Peri-Urban

4.6% annual growth rate

2.7 million

2.5% annual growth rate

290,000

5.9% annual growth rate

1.1 million

1.5 - 2 million daily market fluctuation

(254 km)

298 mi

(290 km)

229 mi

(240 km)

93 mi

40% open land
approx. 101 acres (41 hectares)
of which high agricultural value

2/3 households have some vegetable farming

(750 km)

229 mi

approx. 82 acres (33 hectares)
of land has high agricultural value

1/4 households have some farming / poultry

800,000

approx. 2417 acres (978 hectares)
of land has high agricultural value

KUMASI, GHANA

TAMALE

ACCRA

FOOD SHORTAGE

limited supply
agricultural degradation
depletion of resources
limited land

FOOD SECURITY

CLIMATE CHANGE

unforeseen weather
drought management
temperature fluctuations

GENDER EQUALITY

women’s rights
family planning

ACCESS TO INFO / TECHNOLOGY

access to education
access to research
access to knowledge

WATER

limited supply
use management
access to clean water

SPRAWL

unmanageable growth
cheap construction
poor planning
promotes population growth

PILOT PROJECT

CONSUMER SOURCE

POPULATION

1.5 - 2 million

1.1 million

2.5%

4.6%

LAND USE

2/3

1/4

approx. 82 acres (33 hectares)
of land has high agricultural value

approx. 2417 acres (978 hectares)
of land has high agricultural value

GROWTH HUNDER INDEX 2012

2012 GHI REPORT: Market Volatility Factors

Domestic food demand

Domestic food production

Domestic food price

Global food demand

Global food price

Trade balance

Futures prices

Commodities & financial swaps

Water management

Limited land

Agricultural degradation

Depletion of resources

Limited supply