Food security monitoring and crop forecasting

and their impact on sustainability of food procurement and delivery

Francois KAYITAKIRE
EC-JRC, FOODSEC Action
Who we are:

European Commission scientific service, to provide scientific and technical support to other EU services for the definition, implementation and monitoring of Community policies.

Why a joint research centre?

to serve the common interest of the Member States (27), while being independent of special interests, whether private or national.
Soft wheat - yield forecast 2011
Actual yield versus average yield 2006-2010
Yield figures 2011 are expressed in t/ha and rounded to 100 kg

- lower yield (< -4%)
- comparable to average
- better yield (> 4%)

Grain maize - yield forecast 2011
Actual yield versus average yield 2006-2010
Yield figures 2011 are expressed in t/ha and rounded to 100 kg

- lower yield (< -4%)
- comparable to average
- better yield (> 4%)
JRC issues early warning bulletins, with a focus on the Horn of Africa, the Sahel and North Korea.
Horn of Africa, crop season 2010 - 2011
Monitoring for early warning

Horn of Africa, crop season 2010 - 2011
Vegetation index (NDVI) anomalies in the 3rd dekad of September 2009 compared to the average index of the same period in the last 10 years.
Thank you for your attention!
Global water satisfaction index

Water balance model, based on FAO AgrometShell, 5 main crops. Weather variables from ECMWF.

Temporal evolution of the WSI.

Indicator combining the WSI with the progress index.