## *Cultivar Development ALA 1.1* Using the FAO database to learn more about crop productivity

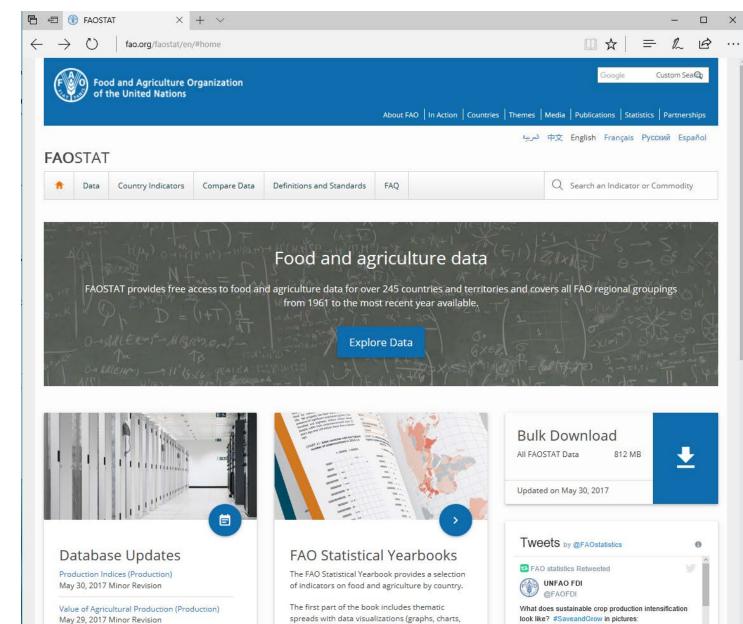
By Rita H. Mumm, University of Illinois 2018

FAO maintains a database on agricultural productivity by crop, country, year

<u>http://www.fao.</u> org/faostat/en/# <u>data</u>

You can explore food and agriculture data for over 245 countries from 1961 to 2014.

Click EXPLORE DATA



and maps) with basic text. The second part has

country-level tables for a selected number of

indicators.

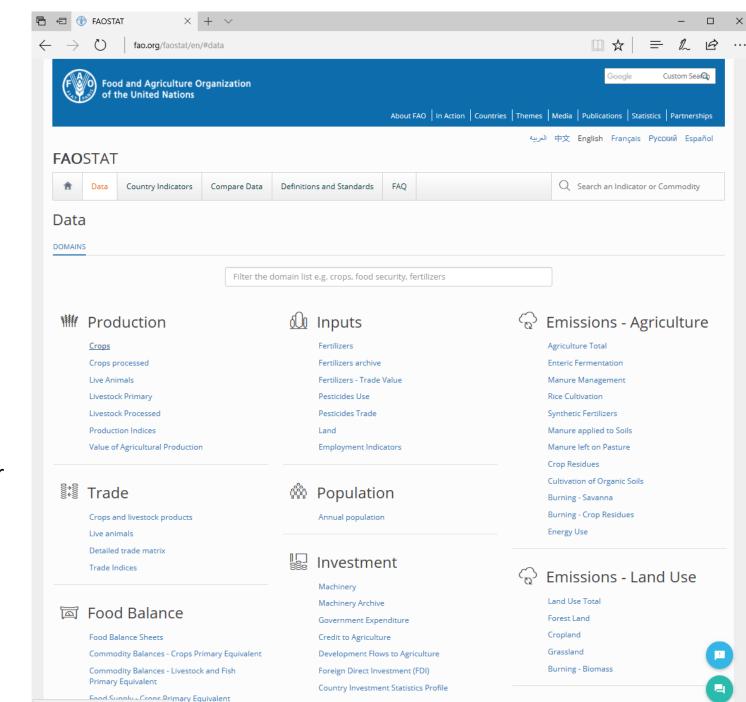
ow.ly/wyNj30cfPuu

Forestry Trade Flows (Forestry) May 22, 2017 Examine production of a particular crop in your country during the time period from 1961 to 2014.

Choose a crop grown in your country to investigate realized yield e.g. Maize grain yield in Uganda from over 10-year intervals from 1964 to 2014.

Under PRODUCTION,

choose CROPS



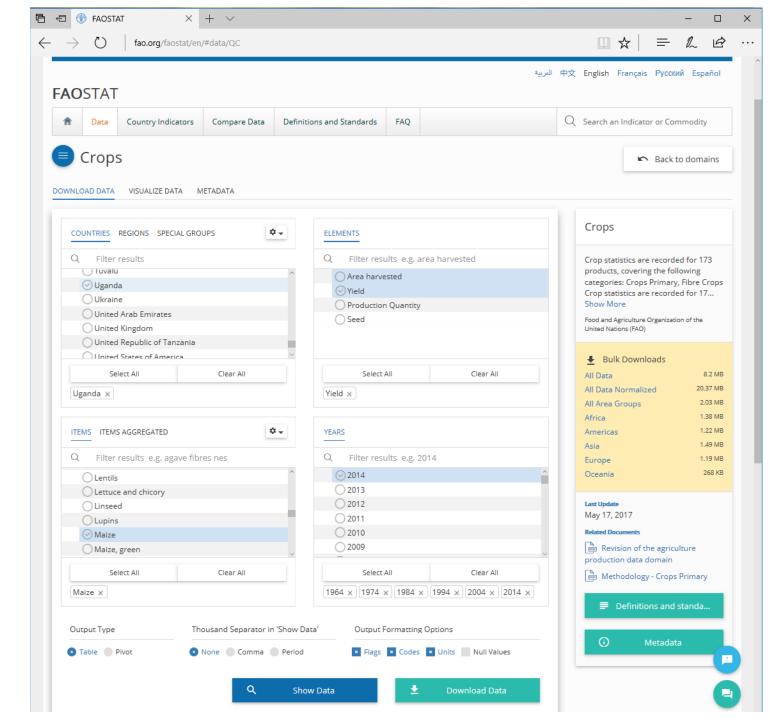
Choose COUNTRIES/ REGIONS (e.g. Uganda)

Choose ITEMS (e.g. maize)

Choose ELEMENTS (e.g. Yield)

Choose **YEARS** (e.g. 1964, 1974, 1984, 1994, 2004, 2014)

Click **SHOW DATA** to run



## Output lists the average maize grain yield for each year in hg/ha (Note: 1 ton=9071.8474 hg)

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Domain Code	Domain	Area Code	Area	Element Code	Element	Item Code	Item	Year Code	Year	Unit	Value	Flag	<u>t/ha</u>		
QC	Crops	226	Uganda	5419	Yield	56	Maize	1964	1964	hg/ha	11399	Fc	1.257		
QC	Crops	226	Uganda	5419	Yield	56	Maize	1974	1974	hg/ha	11082	Fc	1.222		
QC	Crops	226	Uganda	5419	Yield	56	Maize	1984	1984	hg/ha	9741	Fc	1.074		
QC	Crops	226	Uganda	5419	Yield	56	Maize	1994	1994	hg/ha	15098	Fc	1.664		
QC	Crops	226	Uganda	5419	Yield	56	Maize	2004	2004	hg/ha	14400	Fc	1.587		
QC	Crops	226	Uganda	5419	Yield	56	Maize	2014	2014	hg/ha	25005	FC	2.756		

Q: In what year was the highest average yield realized?Q: How has productivity changed over time?Q: Can you offer reasons for this change?

## Go back to CROPS page; specify **AREA HARVESTED** on the ELEMENTS menu keeping settings for COUNTRY, ITEM, and YEARS constant

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Domain Code	Domain	Area Code	Area	Element Code	Element	Item Code	Item	Year Code	Year	Unit	Value	Flag	Flag D	escript	ion
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	1964	1964	ha	193000		Officia	al data	
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	1974	1974	ha	388000		Officia	al data	
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	1984	1984	ha	347000		Officia	al data	
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	1994	1994	ha	563000		Officia	al data	
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	2004	2004	ha	750000		Officia	al data	
QC	Crops	226	Uganda	5312	Area harvested	56	Maize	2014	2014	ha	1105000		Officia	al data	

Note the number of hectares involved with maize production for these years; the trend is for expanded acreage. From 1964 to 2014, the amount of harvested corn acreage increased nearly 6-fold! **Q: Does this surprise you? Why/why not?** 

$\leftrightarrow$ $\rightarrow$ O	fao.org/faostat/en/#compare									
Food of the	and Agriculture Organization e United Nations	Google Custom SealQ								
		About FAO   In Action   Countries   Themes   Media   Publications   Statistics   Partnerships								
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		→ Compare Data								
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To view the these data together on a graph, go to the **COMPARE DATA** tab to view a graph of the output.

e.g. Maize grain yield in Uganda from 1964 – 2014

Note that the graph image can be saved to your computer.