Ethiopia HandInHand Data Validation

For the validation of HandInHand sub-national data we compare the national aggregated data against the FAOSTAT national totals for each commodity. We noticed some inconsistencies with the aggregated totals and the FAOSTAT values. For the HandInHand data we obtained the data from Ethiopia’s National Statistical Office.

For the validation, we have three traces, from which we do a data comparison:

1. The national totals from the NSO dataset. (Yellow trace)
2. The sub-national aggregated to national totals from the NSO dataset. (Green trace)
3. The FAOSTAT values. (Red trace)

The expected behaviour was that the yellow trace would overlay the red trace or have a negligible variance from the red, with the green trace being close to both red and yellow with a small variance due to missing regions. The following is a list of trace plots for each commodity. As we can see in the case of Barley, Oats and Garlic, there is some constant deviation between the FAOSTAT values and the dataset values.
FAOSTAT vs HiH For Cabbages and other brassicas (Ethiopian Cabbage, Head Cabbage)

Production

Harvested Area

Legend:
- FAOSTAT
- HiH.Source_2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Carrots and turnips (Carrot)

Production

Harvested Area

Metric Tones

Hectares

Years

- FAOSTAT
- HiH_Source_2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Chick peas (Chickpea, Red Chickpea, White Chickpea)

**Production**
- Metric Tonnes
- Years (2004 to 2020)

**Harvested Area**
- Hectares
- Years (2004 to 2020)

Lines and symbols legend:
- FAOSTAT
- HiH_Source_2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Hop cones (Hops)

Production

Harvested Area

Metric Tonnes

Hectares

Years


FAOSTAT  HiH_Source_Z  Official data

FAO data based on imputation methodology
FAOSTAT vs HiH For Linseed (Linseed)

**Production**

- Metric Tones

**Harvested Area**

- Hectares

Legend:
- FAOSTAT
- HiH_Source_2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Onions, dry (Onion)

Production

Metric Tonnes

Years

Harvested Area

Hectares

Years

- FAOSTAT
- HiH Source, 2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Other stimulant, spice and aromatic crops, n.e.c. (Chat,Fenugreek)

Production

Harvested Area

- FAOSTAT
- HiH_Source_2
- Official data
- FAO data based on imputation methodology
FAOSTAT vs HiH For Papayas (Papaya)

Production

Harvested Area

<table>
<thead>
<tr>
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FAOSTAT vs HiH For Sesame seed (Sesame)

**Production**

Metric Tonnes

*Years*


*Harvested Area*

Hectares

*Years*


- **FAOSTAT**
- **HiH_Source_2**
- **Official data**
- **FAO data based on imputation methodology**
FAOSTAT vs HiH For Teff (Teff)

**Production**
- Metric Tonnes
- Years

**Harvested Area**
- Hectares
- Years

HiH_Source_2