Burkina Faso HandInHand (HiH) Summary

Executive Summary

From the time series data, we saw that the HiH data typically follows the FAOSTAT’s data quite well, except in the cases where the FAOSTAT data is imputed/estimated. In these cases, we can supplement the FAOSTAT unofficial data with the HiH data. The FAOSTAT estimated points that matches closely to the associated HiH data (e.g. Soybean, Yams) may have an incorrect flag for the FAOSTAT data. Overall, the Burkin Faso HiH sub-national data seems in line with FAOSTAT’s national data and thus it can be recommended to be moved into production i.e. be released for use.

Sub-National Summary

For Burkina Faso two sub-national levels of data were found, with higher layers encapsulating lower layers.

<table>
<thead>
<tr>
<th>SUB-NATIONAL LEVEL</th>
<th>NUMBER OF REGIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
</tr>
</tbody>
</table>

*Table 1 - The number of regions per sub-national level*

<table>
<thead>
<tr>
<th>COMMODITY</th>
<th>SUB-NATIONAL LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bambara beans</td>
<td>N/A</td>
</tr>
<tr>
<td>Cow peas, dry</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Fonio</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Groundnuts, with shell</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Maize</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Millet</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Potatoes</td>
<td>N/A</td>
</tr>
<tr>
<td>Rice, paddy</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Seed cotton</td>
<td>1995-2007</td>
</tr>
<tr>
<td>Sesame seed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Table 2 - Data coverage of commodity and time period by sub-national level.*

All sub-national level data is super-seeded by data from a lower level so that there are mutually exclusive periods for each level. Higher level data can easily be obtained by aggregating their associated lower-level data. Data is available the same periods for both production and harvested area for all commodities, except for Fonio which is missing harvested area for the period 1995-2007.
## Commodities Summary

<table>
<thead>
<tr>
<th>HIH_COMMODITY</th>
<th>FAOSTAT_COMMODITY</th>
<th>RMSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bambara beans</td>
<td>Bambara beans</td>
<td>3190.33</td>
</tr>
<tr>
<td>Cow peas, dry</td>
<td>Cow peas, dry</td>
<td>14469.14</td>
</tr>
<tr>
<td>Fonio</td>
<td>Fonio</td>
<td>430.52</td>
</tr>
<tr>
<td>Groundnuts, with shell</td>
<td>Groundnuts, with shell</td>
<td>204.95</td>
</tr>
<tr>
<td>Maize</td>
<td>Maize</td>
<td>22364.55</td>
</tr>
<tr>
<td>Millet</td>
<td>Millet</td>
<td>24793.12</td>
</tr>
<tr>
<td>Potatoes</td>
<td>Sweet potatoes</td>
<td>271.97</td>
</tr>
<tr>
<td>Rice, paddy</td>
<td>Rice, paddy</td>
<td>40511.22</td>
</tr>
<tr>
<td>Seed cotton</td>
<td>Seed cotton</td>
<td>141.66</td>
</tr>
<tr>
<td>Sesame seed</td>
<td>Sesame seed</td>
<td>404.03</td>
</tr>
<tr>
<td>Sorghum</td>
<td>Sorghum</td>
<td>64215.61</td>
</tr>
<tr>
<td>Soybeans</td>
<td>Soybeans</td>
<td>46.51</td>
</tr>
<tr>
<td>Yams</td>
<td>Yams</td>
<td>0.85</td>
</tr>
</tbody>
</table>

*Table 3 - Comparison of HiH commodity timeseries in association to its closest FAOSTAT commodity based on timeseries data.*

A comparison of all the time series were done to determine if a time series matches closely to another FAOSTAT commodity than its actual commodity. In the example above, we found that in the HiH dataset, the timeseries for Potato was more closely related to FAOSTAT’s Sweet Potato time series, than the FAOSTAT’s time series for Potato.

The following is a breakdown of the timeseries for each commodity. The CPC name is highlighted in blue in the title, with the name of the commodity or constituent commodities used in the dataset are in brackets.
HiH data follows the FAOSTAT data closely for official data.
Large differences between HiH and imputed values.
Replace FAOSTAT imputed values with HiH national aggregate.
FAOSTAT’s harvested area seems to follow the production timeseries very closely in terms of trend. All the FAOSTAT values are estimated/imputed. They can be replaced by the HiH harvested area values as the production values from both matches very closely, making the data source trustworthy.
Fonio

n.b. Fonio only has harvested area for 2008-2018

- There are small differences in the production values between HiH and FAOSTAT. These may due to rounding errors at the sub-national levels being compounded during aggregation to the national level.
Groundnuts, with shell
Maize

- HiH data follows FAOSTAT data for both production and harvested area.
• Large production difference between HiH and FAOSTAT in 2000.
The HiH potato data matches closely to FAOSTAT’s Sweet Potatoes’ values as highlighted prior in Table 3.
Rice, paddy
Sesame seed
Sorghum

* Significant differences in the production values for 2000 and 2004 and 2004 for harvested area.
End Notes

The attached excel document contains the low-level data for Burkina Faso at a sub-national level. The RAW_DATA sheet contains the time series data associated to the lowest sub-national level available for each product, with level 1 being a higher level than 2. The REGIONS, SOURCES and COUNTRY_PRODUCTS sheets are the associated correspondences to the RAW_DATA sheet for region_id, source_id and product_id respectively in conjunction with the iso3.