

# Economic Impacts of World Food Program Expenditures in Uganda

The WFP program spent \$73 million in Uganda in 2020. Of this, 60% or \$44 million was on domestic purchases, including food and services, with most of the rest imported from other countries in the Regional Bureau of Nairobi (RBN) area. WFP also spent money in other RGB countries that, in turn, imported goods and services from Uganda. Compared to the entire economy of Uganda, \$73 million might seem small; it is equivalent to around 0.3% of a total GDP that exceeded \$26 billion in 2020. Nevertheless, each additional dollar that the WFP spent on its operations in the RBN region had a disproportionately large impact in Uganda because of the production, income, and employment spillovers it generated.

# **How Do WFP Operations Create Economic Benefits?**

WFP's mission is "To support food security and nutrition and (re)build livelihoods in fragile settings and following emergencies." The WFP accomplishes this by spending large sums of money on food, logistics and other non-food goods and services in Uganda and other RBN countries. This spending stimulates production and incomes in the directly affected activities and countries. As the impacts of WFP operations work their way through RBN country economies, they spread across businesses and households within each country as well as to other countries, through trade.

For example, the WFP RBN contracts with traders who buy from Uganda's farmers. Farmers, in turn, purchase farm inputs and hire workers. This transmits impacts of WFP spending from traders to farmers to input suppliers and farm workers. Farm and farmworker households spend their income on goods and services supplied mostly by local businesses. As businesses expand their production to meet the demands of other businesses and households, they hire workers, purchase inputs, and generate profits. This triggers multiple rounds of impacts on production, income, employment, and spending in the Ugandan economy. It also stimulates trade with other RBN countries that export goods and services to Uganda. Because of this, the amount that WFP RBN spends represents only









part of the full impact of WFP RBN spending. There are also production, income, and trade spillovers, or secondary impacts. When added to the WFP RBN's expenditures, these spillovers can result in production and income multipliers: a dollar of WFP spending can raise production and income in Uganda and the region by more than one dollar.

The World Food Programme's (WFP) total portfolio in Regional Bureau Nairobi (RBN) countries is more than USD 745 million annually. In 2019, the RBN moved 1.1 million MT of food throughout the region. It disbursed USD 270 million in cash to 5.4 million beneficiaries in the countries covered by RBN. It procured and supplied more than 500,000 MT of food from local, regional, and global sources. These numbers increased further with the inclusion of Sudan in the RBN beginning in December 2020. This spending is vital to the humanitarian operations of the WFP. It also has economic impacts on RBN economies, potentially creating large income and production impacts in the region.

## How Do We Quantify the Economic Impacts of WFP Spending?

This study used state-of-the-art economic modelling tools to estimate the economic impacts of WFP's expenditures in RBN countries and in the East Africa region as a whole. The multi-country model to assess WFP's "economic footprint" in East Africa is grounded in the Global Trade Analysis Project (GTAP) framework

(Hertel 1997). It consists of applied general equilibrium (AGE) models of individual RBN countries linked by trade within a larger, regional RBN model. The RBN AGE model is global but flexible enough to quantify impacts of WFP spending in individual countries as well as across the East Africa region.

The initial impact of WFP's expenditures in the region are on the vendors (wholesalers) of food and other goods and services with which the RBN contracts. RBN personnel worked with the research team to itemize all of these food and non-food expenditures, by sector and vendor (see Panel A of Figure 1). A survey of WFP suppliers gathered information on where the venders sourced each item they sold to the RBN. This made it possible to link each RBN expenditure to individual countries and production sectors (Panel B). The RBN AGE model takes these country- and sector-specific expenditures and estimates their economy-wide impacts within each RBN country as well as across the East Africa region, using simulation techniques (Panel C).

This method captures the full impacts of WFP RBN spending, including direct impacts on production sectors and indirect spillover effects within and across countries. The study focused on quantifying the impacts of WFP RBN spending on the value of production (gross sales) in each sector; total real (inflation-adjusted) income or Gross Domestic Product (GDP); and both skilled and unskilled employment. We do not consider the impacts of WFP's cash disbursements to households, which would add to the impacts shown below.

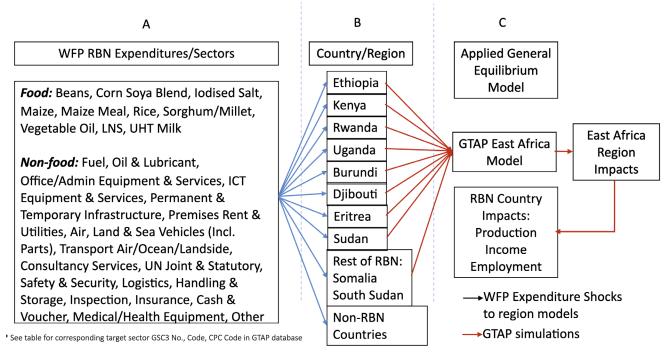


Figure 1. Modelling Impacts of WFP RBN Food Expenditures







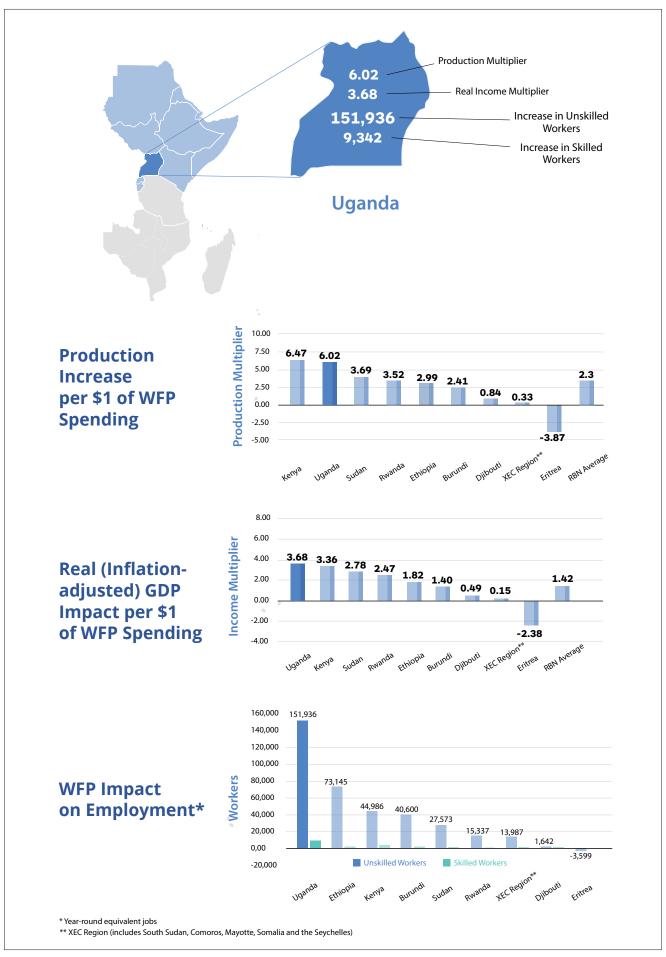


Figure 2. WFP operations have large production, income, and employment impacts in East Africa









### What Did the Study Find?

Approximately 60% of the WFP RBN's \$73 million of expenditures in Uganda, or \$44 million, were on purchases of domestic goods and services. The rest were on imports. Of the \$29 million spent on imports, some 49% (mostly crops) were on purchases from other RBN countries, and the rest were on imports from the rest of the world. Of WFP's total spending in other RBN countries, 3.7% was on imports from Uganda to those countries. The largest WFP expenditures in Uganda were on crops and other food (\$54 million), transport (\$9 million), various manufactured products (excluding refined petroleum, \$3.7 million), and trade including warehousing (\$3 million).

The study found that each dollar of WFP spending in Uganda creates a \$6.02 annual increase in the country's total production. This multiplier includes the dollar of WFP expenditure plus an additional \$5.02 of production spillovers that magnify and spread impacts across production sectors. It is the second highest production multiplier of WFP spending of all countries in the region. A positive production multiplier of this magnitude tells us that WFP spending stimulates production, benefiting Uganda's farm and non-farm businesses.

As production expands, income flows into households, stimulating consumption demand

and additional rounds of production increases in the economy. Rising demand also can put upward pressure on prices of goods and services. Price inflation raises consumption costs and creates the possibility that, even if cash income expands, real or inflation-adjusted income could fall. These inflationary concerns tend to be muted in economies like Uganda's, where workers and capital are likely to be available to support increased production.

An additional dollar of WFP spending raises Uganda's total real income, or GDP, by \$3.68 per year. This is the highest real income multiplier from WFP spending in the region. This positive real income multiplier tells us that WFP spending results in a net income and welfare gain for Uganda's households.

Production requires labour; as production expands, so does employment. WFP RBN spending creates 151,936 jobs for unskilled workers and 9,342 jobs for skilled workers in Uganda each year. The impact on unskilled employment in Uganda is the largest in the region. The impact on skilled employment is also the largest of all countries in the region. The relatively large impacts for unskilled employment indicate that WFP spending stimulates demand in sectors that hire large numbers of unskilled workers. These positive employment effects reveal that WFP spending creates jobs for Uganda's workforce.<sup>1</sup>

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#### References

Erwin Corong, Justin Kagin, Edward Taylor and Dominique van der Mensbrugghe (2022). Economic Impact Assessment of World Food Program Expenditures in East Africa: Final Report on Aggregate Impacts. Nairobi: United Nations World Food Program.







<sup>&</sup>lt;sup>1</sup>The production and GDP multipliers were calculated by dividing the impacts on Uganda's total value of production and GDP, respectively, by the amount of WFP spending in Uganda. The total employment effect of WFP spending is the increase in total wage income divided by the average wage, converted into year-round equivalent jobs.