Off-farm income in Ethiopia and Resilience

Evidence from households in Amhara and Tigray Regions



HEA Baseline Database





Off-farm income in Ethiopia

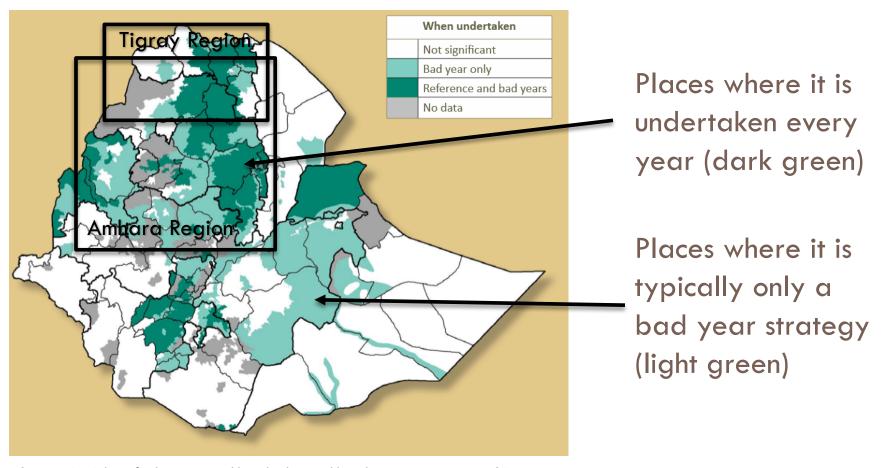
This presentation offers evidence on the importance of off-farm income for poorer households in Ethiopia.

The data to inform this presentation comes from Household Economy baseline datasets from two periods of time, around a decade apart, in Amhara and Tigray Regions.

The Tigray case explores whether an increasingly diverse off-farm income portfolio has improved households' resilience in the face of drought.

Migratory labor is a critical component of income for poor households in Ethiopia

Areas where migratory labor is a source of cash income

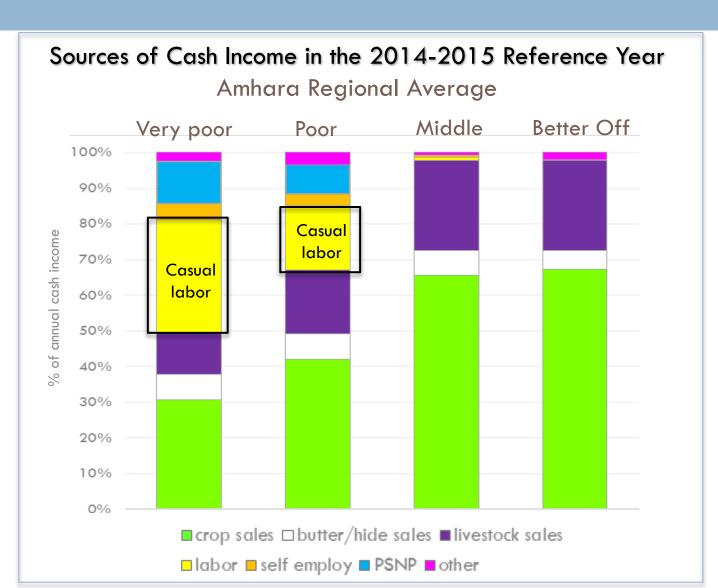


Source: An Atlas of Ethiopian Livelihoods The Livelihoods Integration Unit, USAID, Government of Ethiopia Disaster Risk Management and Food Security Sector, 2009

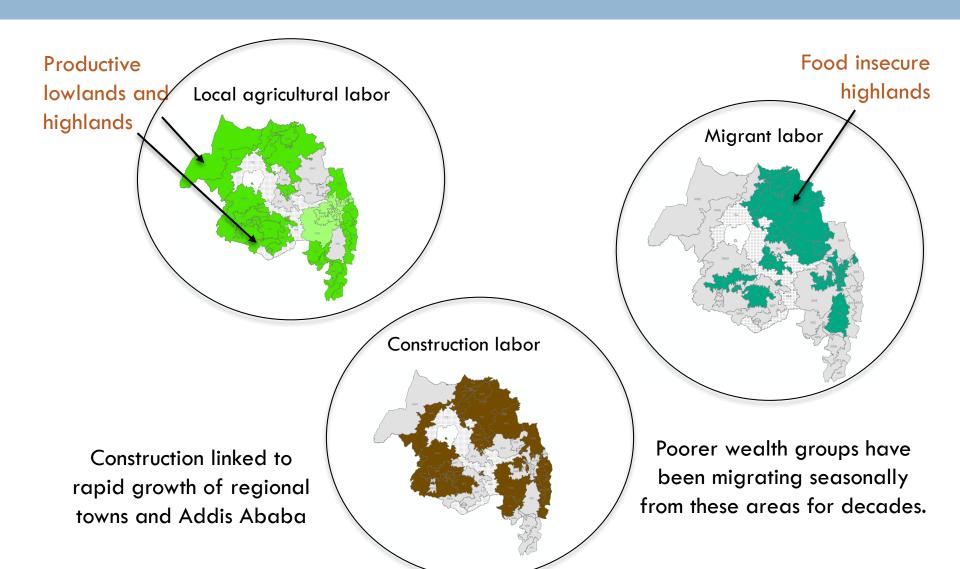
Reliance on off-farm income varies by wealth group

As an average for the region, off-farm casual labor accounts for 20-30% of annual cash income for very poor and poor households in a typical year.

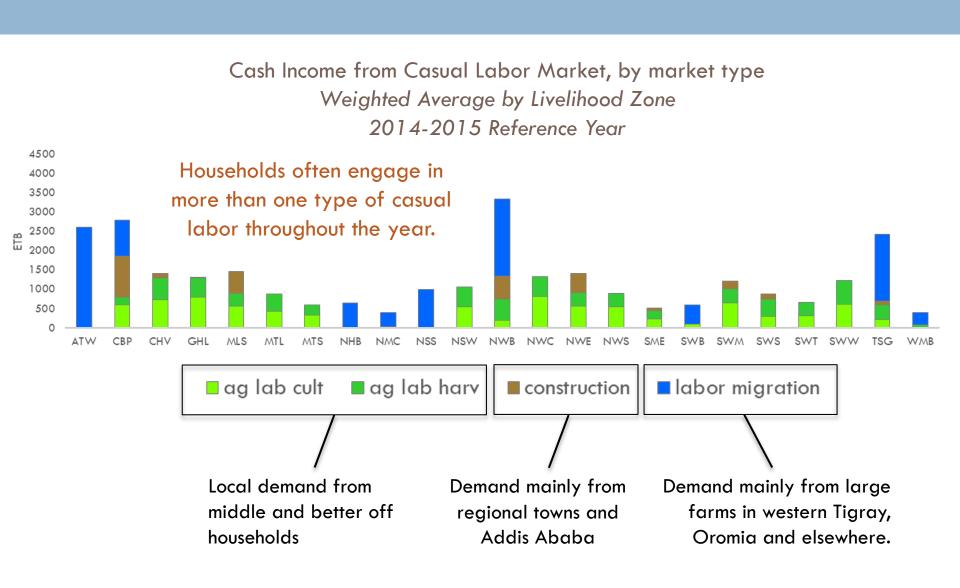
But in some livelihood zones it accounts for as much as 70% of all cash income.



Casual labor in Amhara can be broken into three categories



Each type of casual labor is linked to a different source of demand.

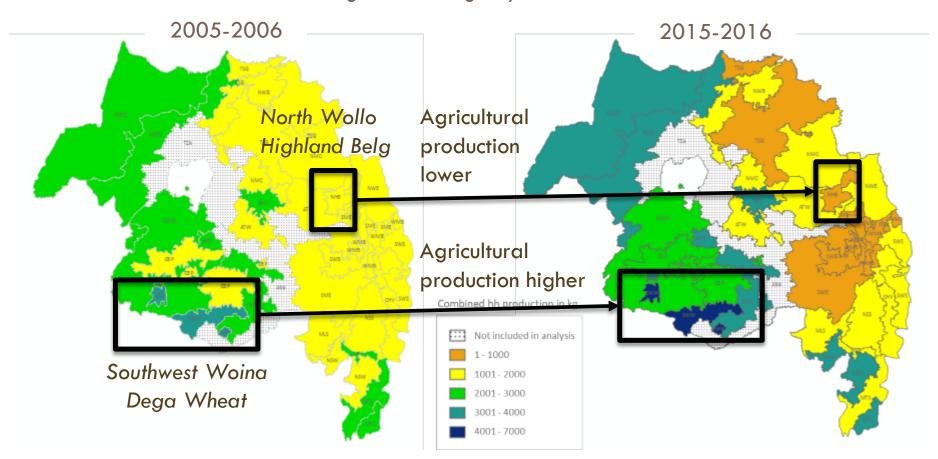


It is important to understand the demand side of the off-farm equation.

A shock to any of these labor markets will have a direct impact on households' food and livelihood security and ultimately their resilience.

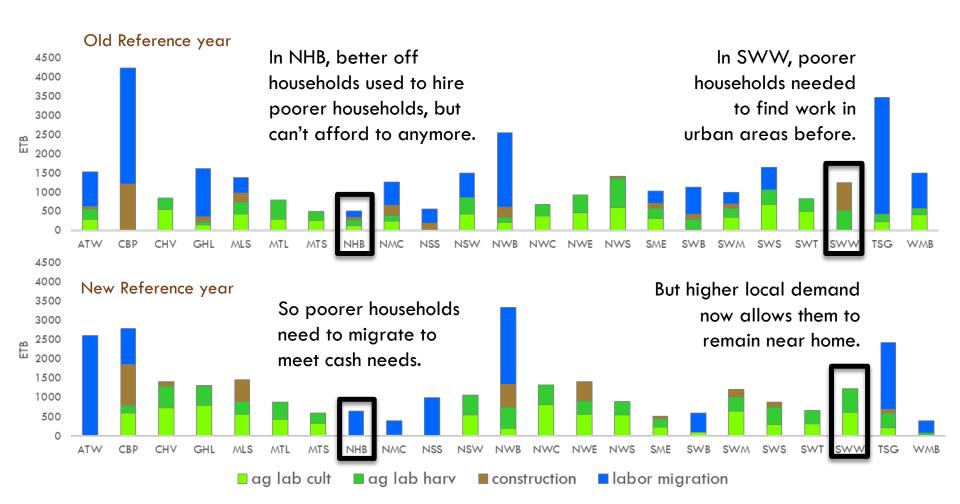
Changes in production vs local agricultural labor

Combined household crop production (cereals, pulses, oil crops, tubers) in kg
Weighted average by livelihood zone



On-farm intensification by one wealth group affects off-farm options option for another

Cash Income from Casual Labor Market, by market type: Weighted Average by Livelihood Zone



Understanding the links between households within a community helps us leverage existing relationships to build resilience.

If we know that increased agricultural production for better off households boosts income for poorer households, we can generate returns for both wealth groups by investing in agriculture.

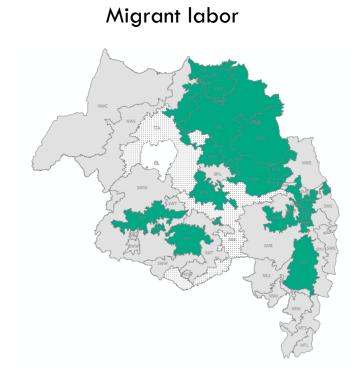
The costs of off-farm income need to be factored in.

For example....

Areas to which people migrate are often in the lowlands, where malaria is rampant.

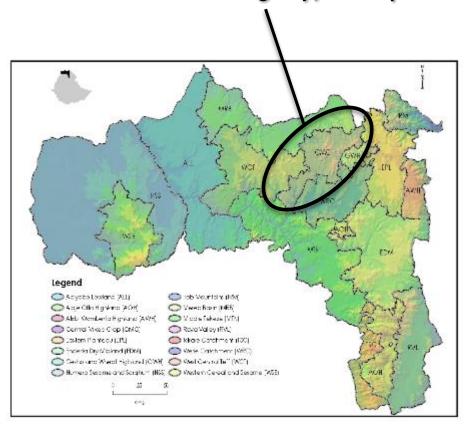
Costs of transportation and living away from home eat away at profits.

There are social costs to splitting up families, and an extra burden is placed on women left behind.



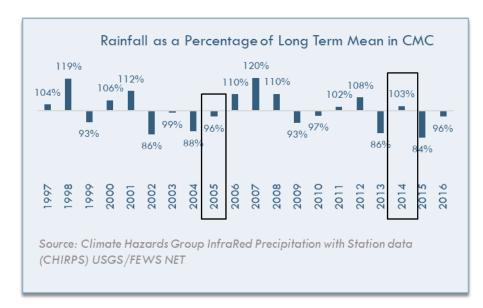
All off-farm income activities have costs associated with them. These need to be understood and weighed against the income gains.

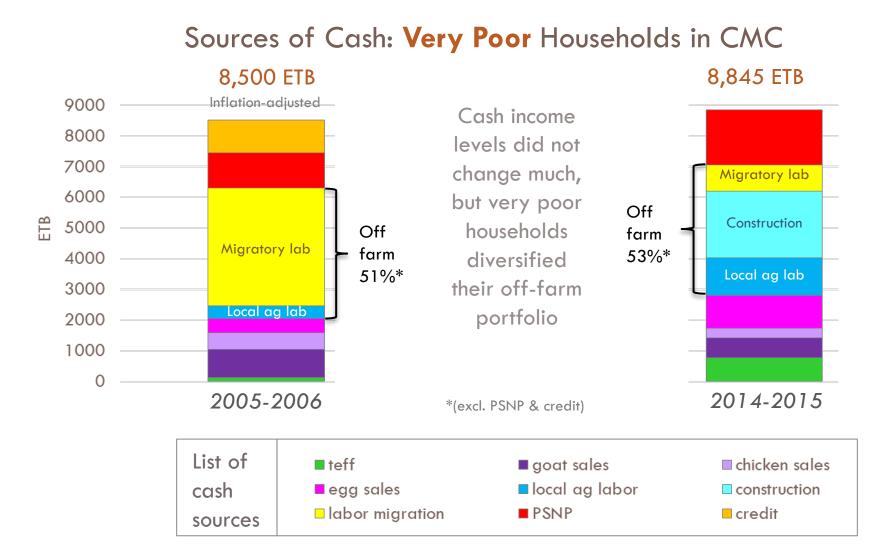




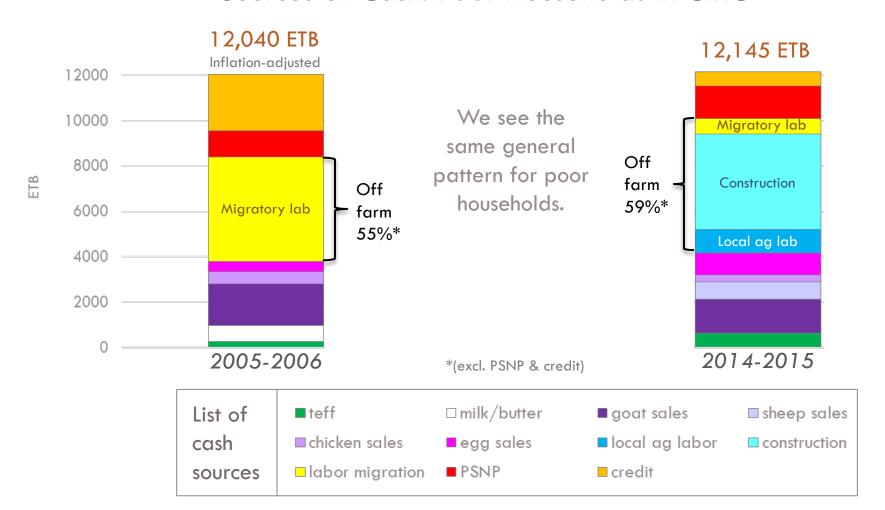
The two reference years for CMC were 2005-2006 & 2014-2015

Both were relatively good years and rainfall conditions were generally comparable.





Sources of Cash: Poor Households in CMC



Both very poor and poor households in CMC diversified offfarm income over the past decade.

Did this make them more resilient in the face of a drought?

We used HEA Outcome Analysis to model the effects of a typical drought scenario on very poor households in both time periods



Production problem specification

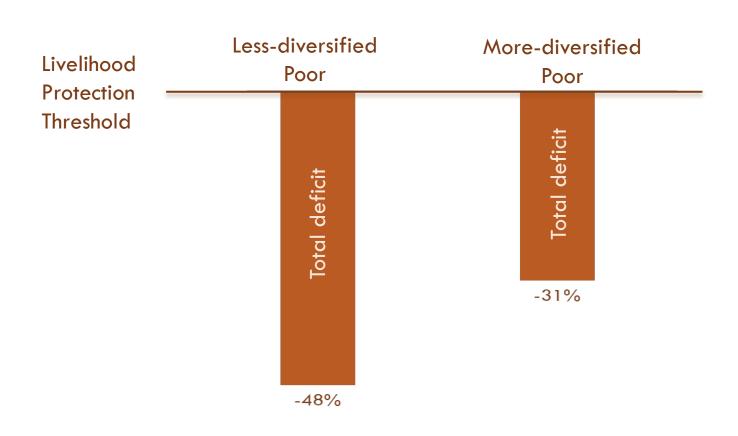
- 50% of ref. year production for maize
- 60% of ref. year production for sorghum/millet/teff/barley/pulses

Market problem specification

- 150% increase in food prices
- 75% drop in livestock prices
- 60% of harvest labor wages
- 90% of migratory labor
- 90% of construction labor

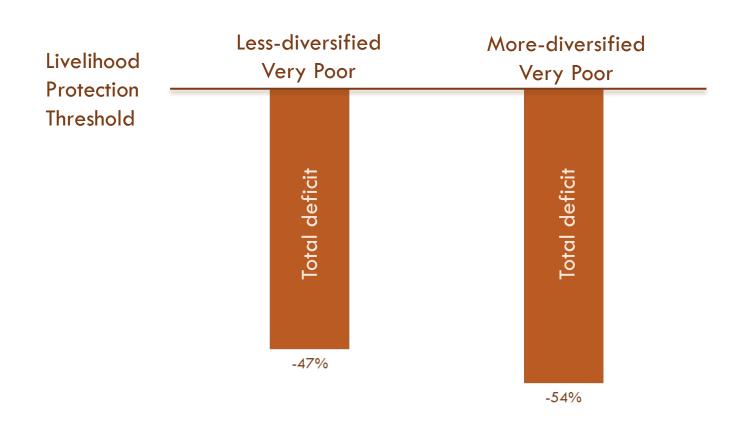
Off-farm diversification in Tigray increases resilience for poor households....

Results of Drought Analysis



...but not for very poor households

Results of Drought Analysis



The 'resilience effect' of diversification varies by wealth group and it varies from livelihood zone to livelihood zone.

How each component of the livelihood system links to the specific drought effects is critical – not just the degree of diversification.

Conclusions

Mapping the demand side of the off-farm equation is critical.

The costs (immediate and hidden) associated with off-farm diversification need to be factored in.

Understanding the links between households within a community helps us leverage existing relationships to build resilience.

The 'resilience effect' of diversification will vary by wealth group and livelihood zone.

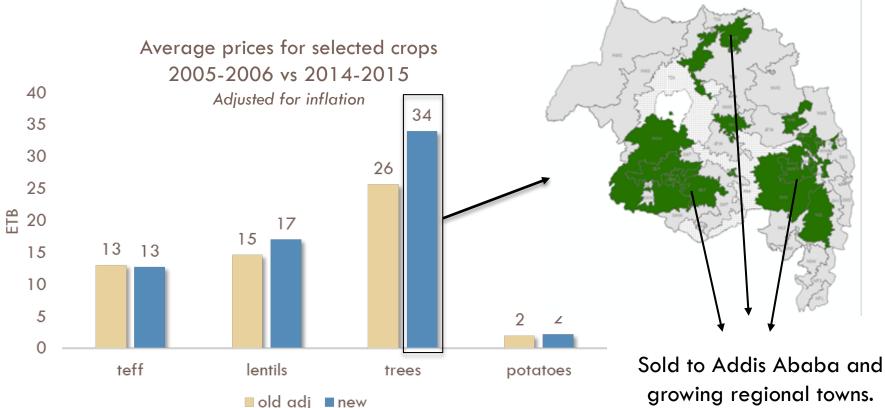
Thank you



Changing urban demand helps determine the logic of intensifying on-farm activities.

Intensification of on-farm income (tree cultivation) has been a smart move in many areas of Tigray.

Areas in Amhara where sales of poles from eucalyptus trees now generates the highest crop-related cash income.



The link between urban demand and rural households is critical for building resilience.

Intensifying on-farm activities can help build resilience if the income sources are relatively hazard-proof, and they are linked to urban markets.