Quantifying the role of forests in poverty alleviation

Preliminary results from the PEN dataset

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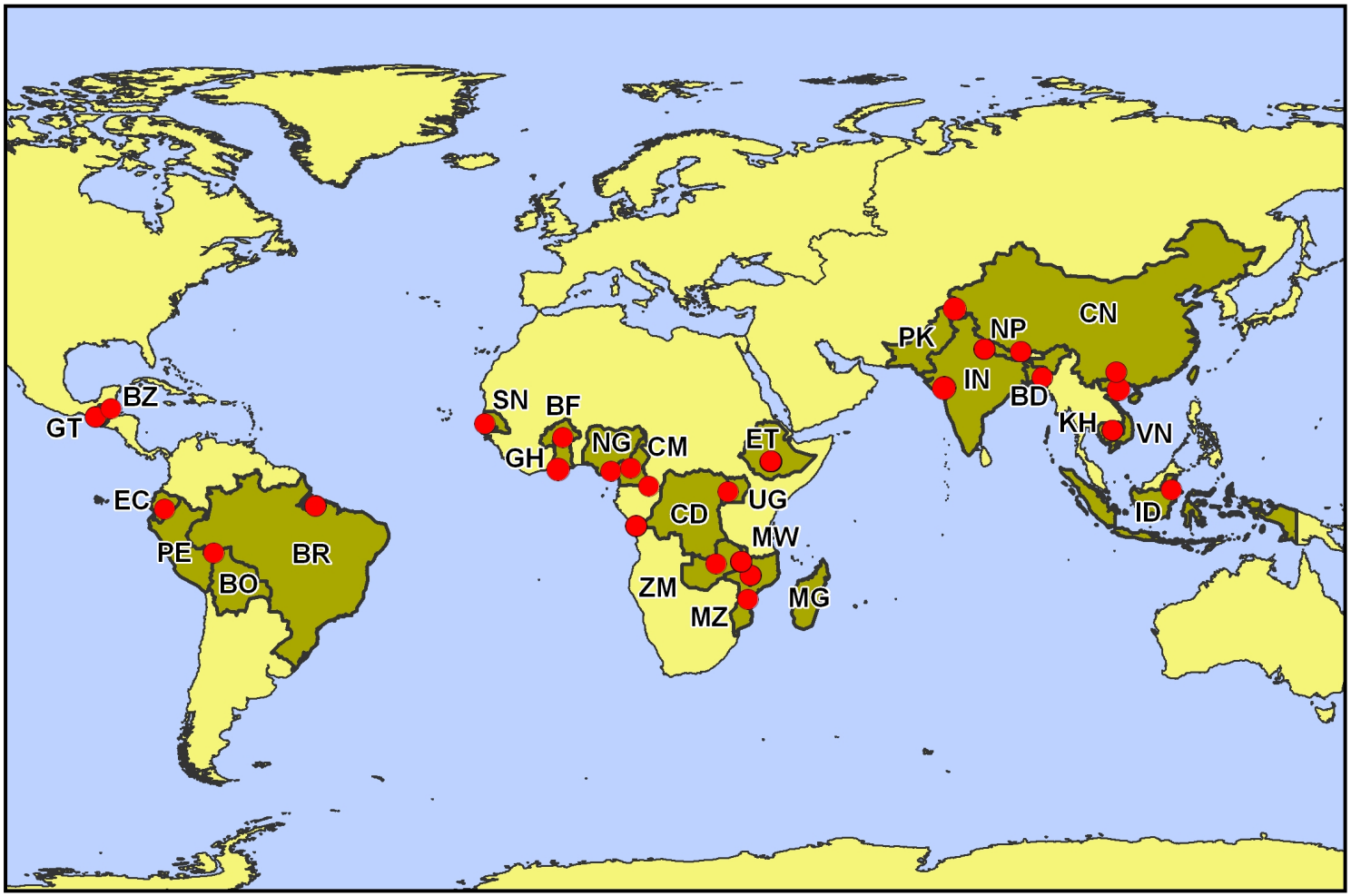
[2]CIFOR

IUFRO 2010: Wednesday, 25 August

Outline

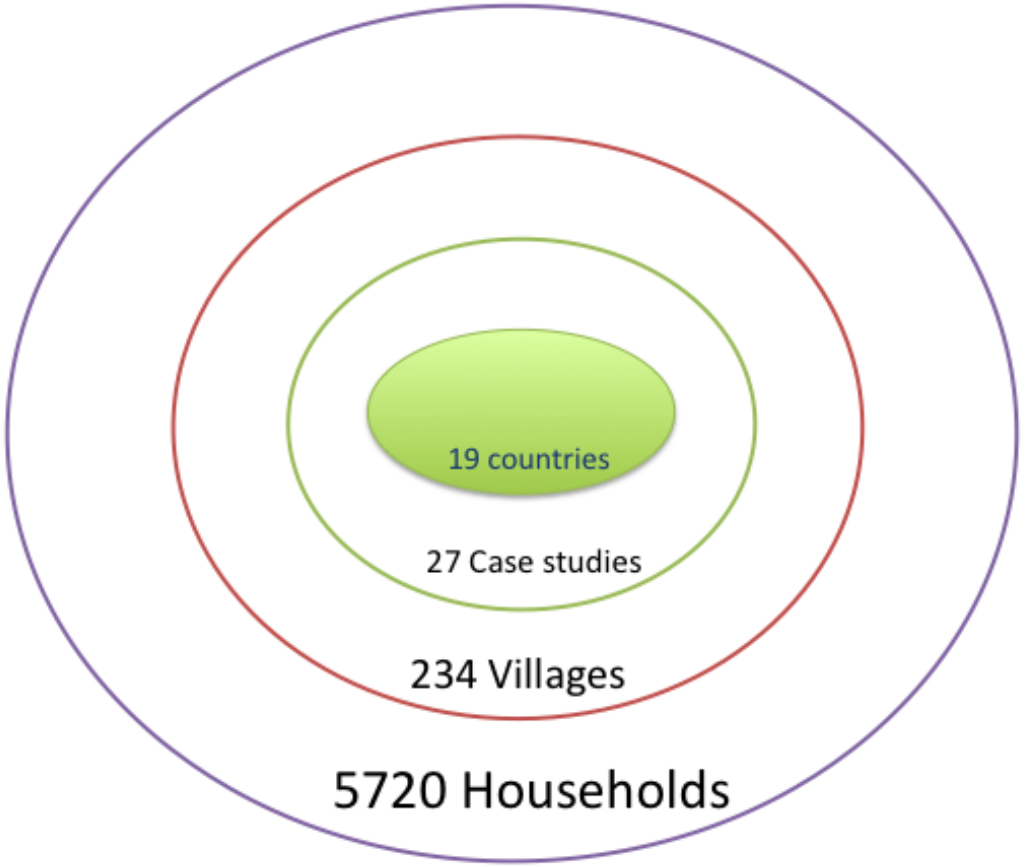
1. Background
2. Income results
3. Looking for explanations
4. Preliminary findings

The PEN World -full



CIFOR PEN
Poverty and Environment Network

The PEN World -partial



Household Characteristics

Characteristic	
Household size	5.8
Household head education	3.9
Household head age	49.7
% Male Headed Households	90.4

Data and Methods

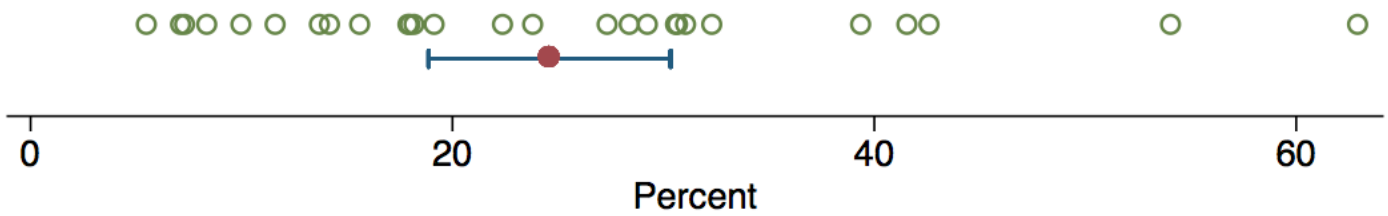
Data

- Surveys: 4 quarterly income, 2 annual, 2 village
- Analysis restricted to households with data 4 quarters.
- Income adjusted by household size.
- Work in progress: missing prices, attrition.

Income categories

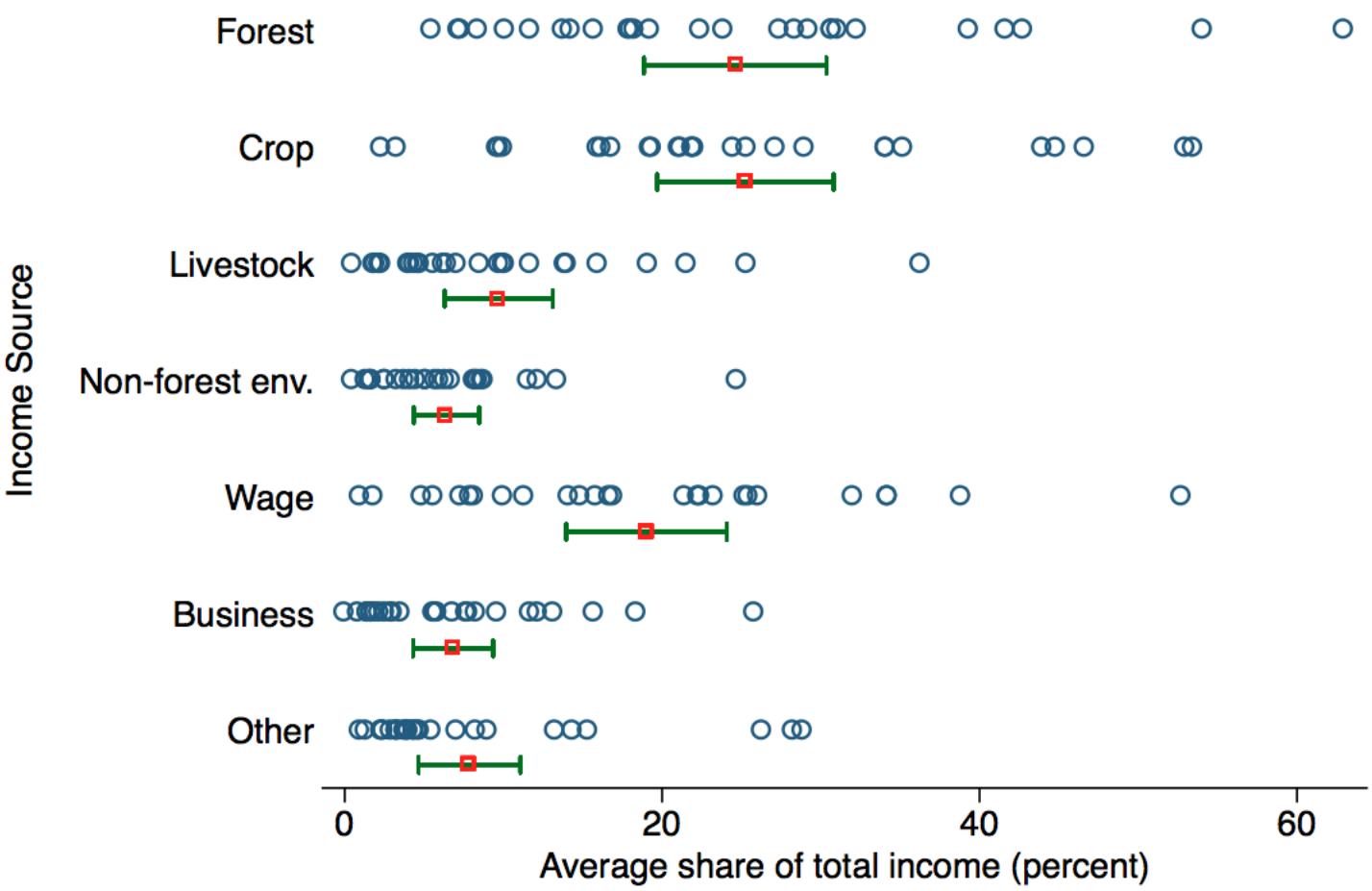
- Forest: direct, derived, payments for forest services.
- Non forest environmental: aquaculture, fish, other env.
- *Wage*, *Business*, *Crop*, *Livestock*, and *Other*.

Forest reliance = forest income share



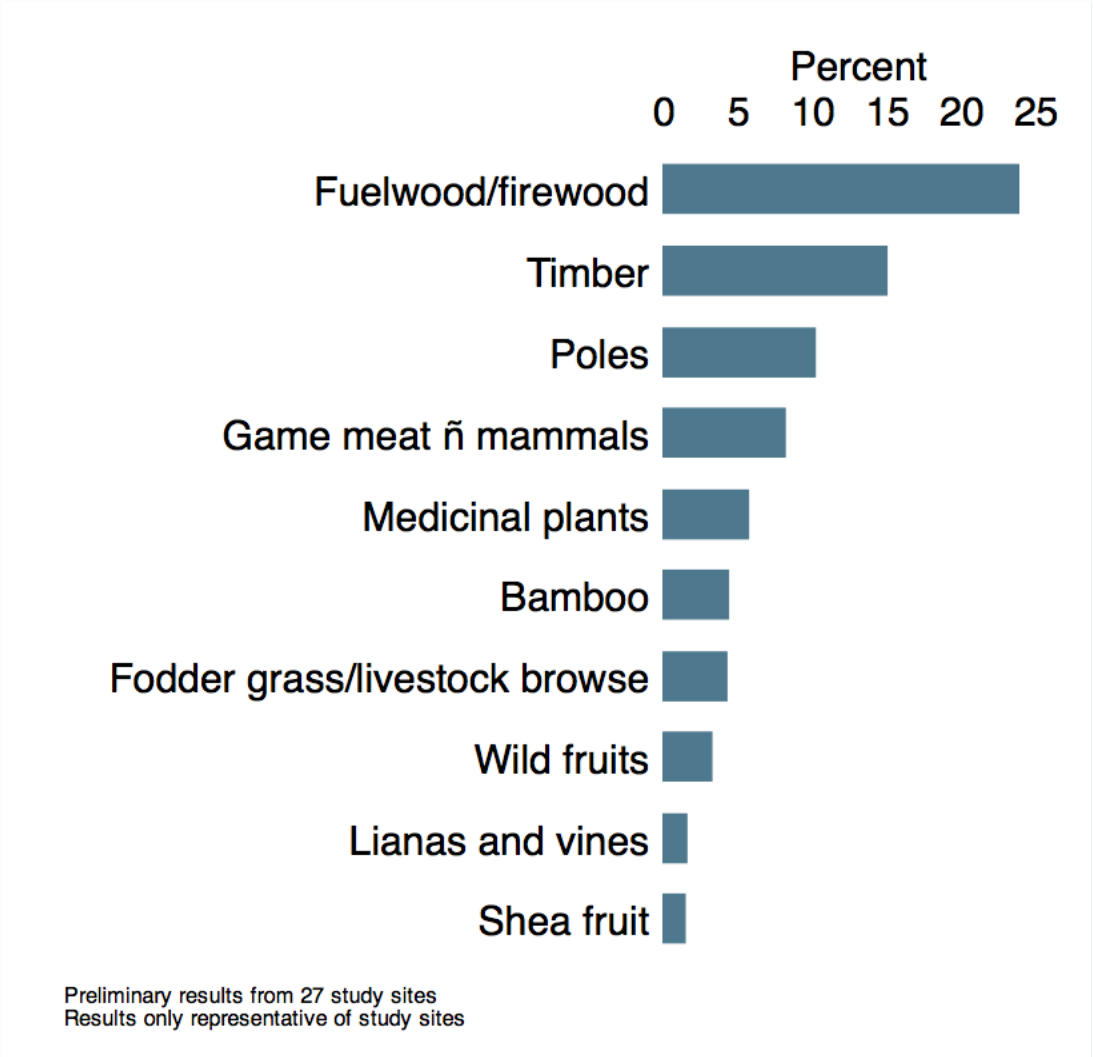
Preliminary results from 27 study sites (represented by the circles)
Results only representative of study sites

Forest reliance relative to other sources

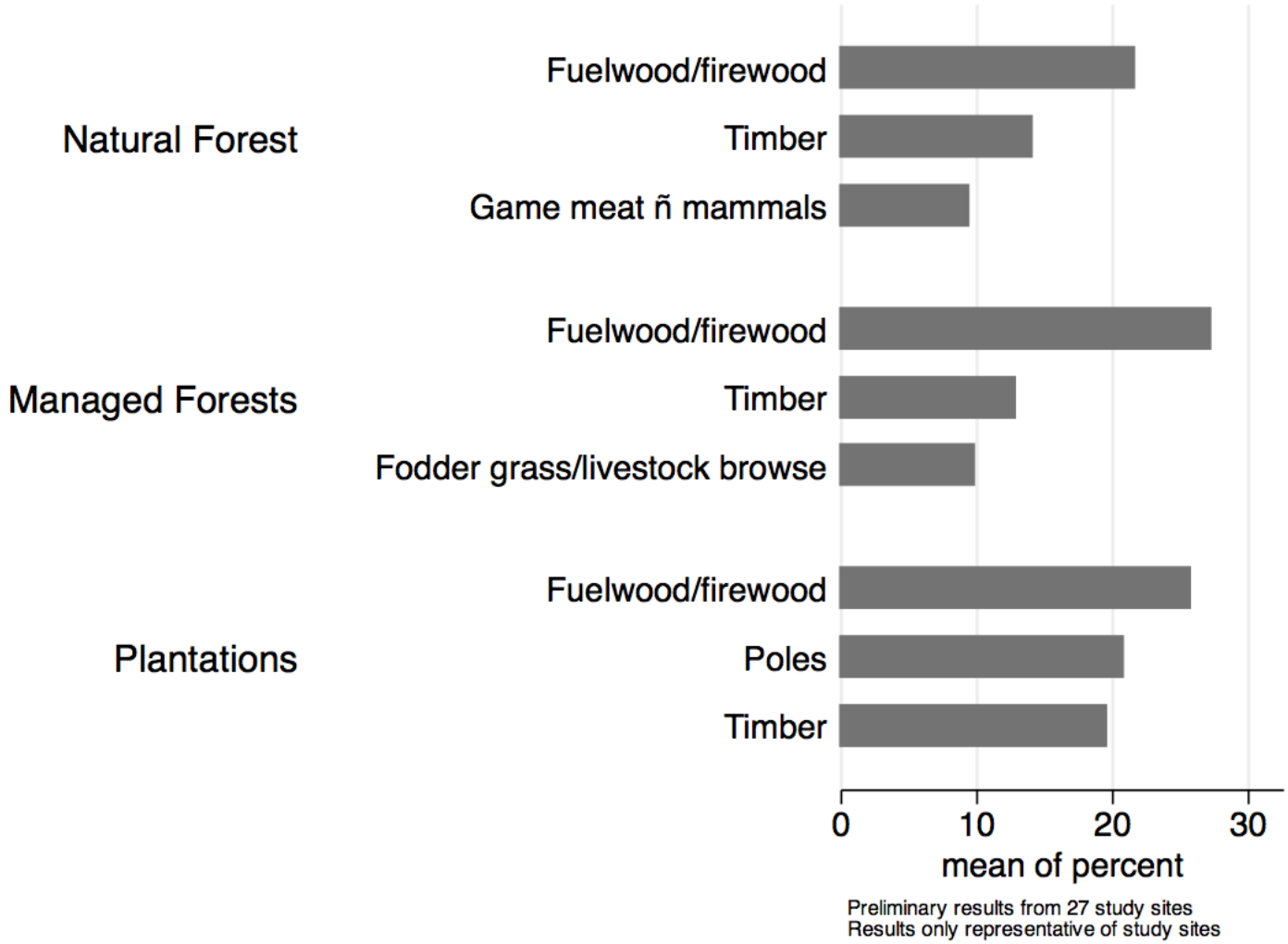


Preliminary results from 27 study sites (represented by the circles)
Results only representative of study sites

Most important forest products (village)

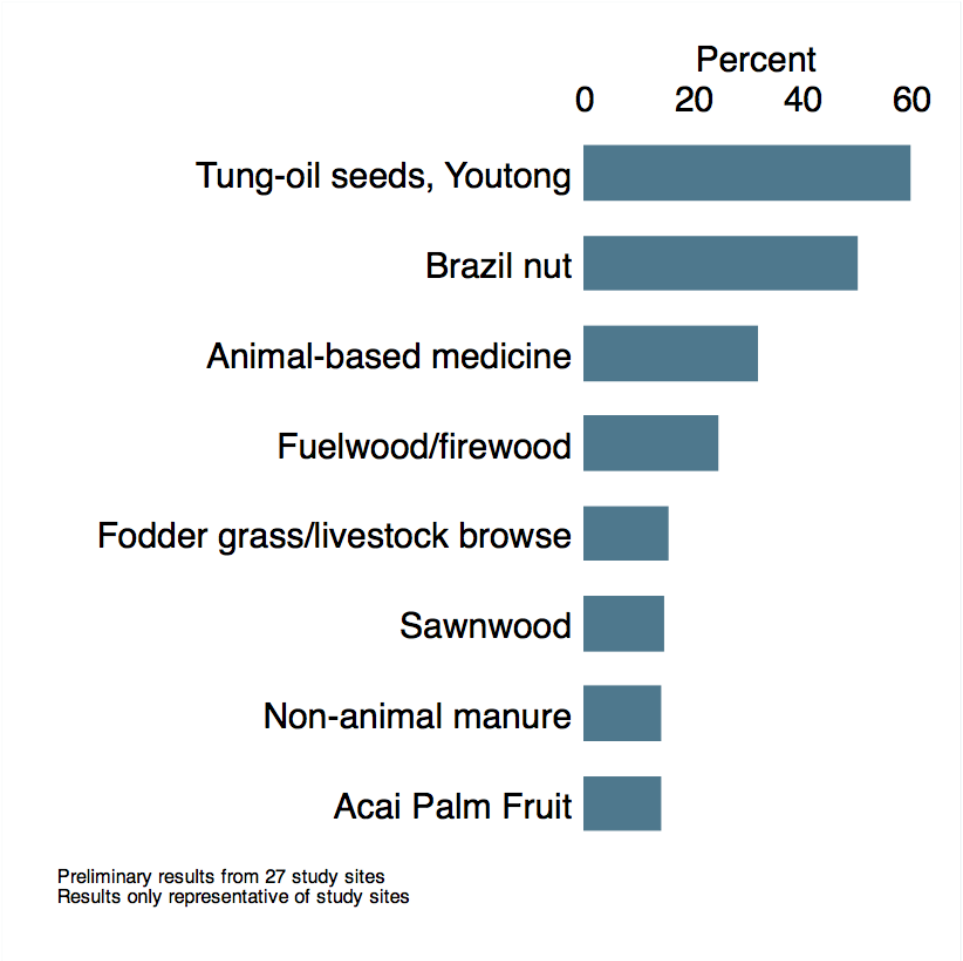


Most important forest products by forest type (village)



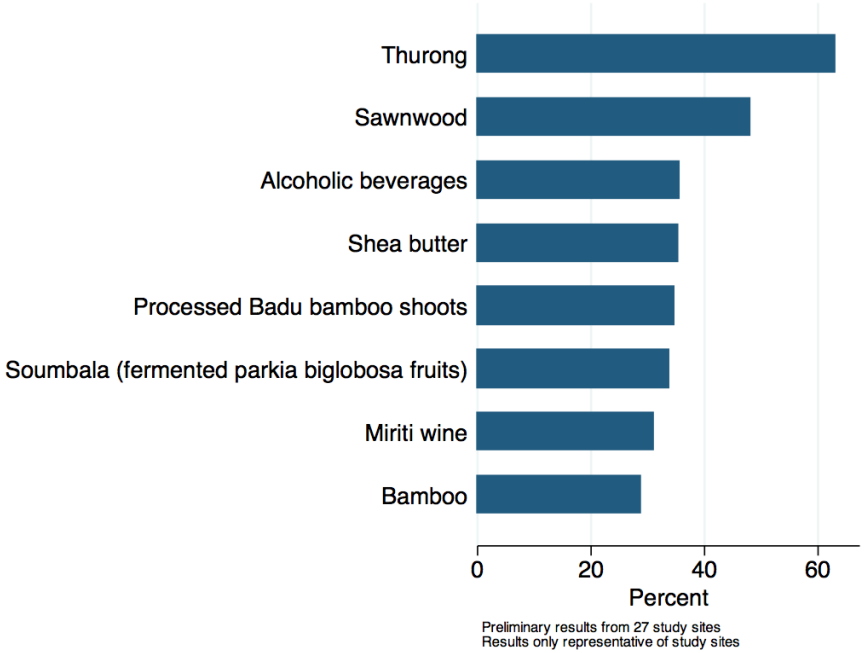
Important direct forest products (household)

% contribution to sector income



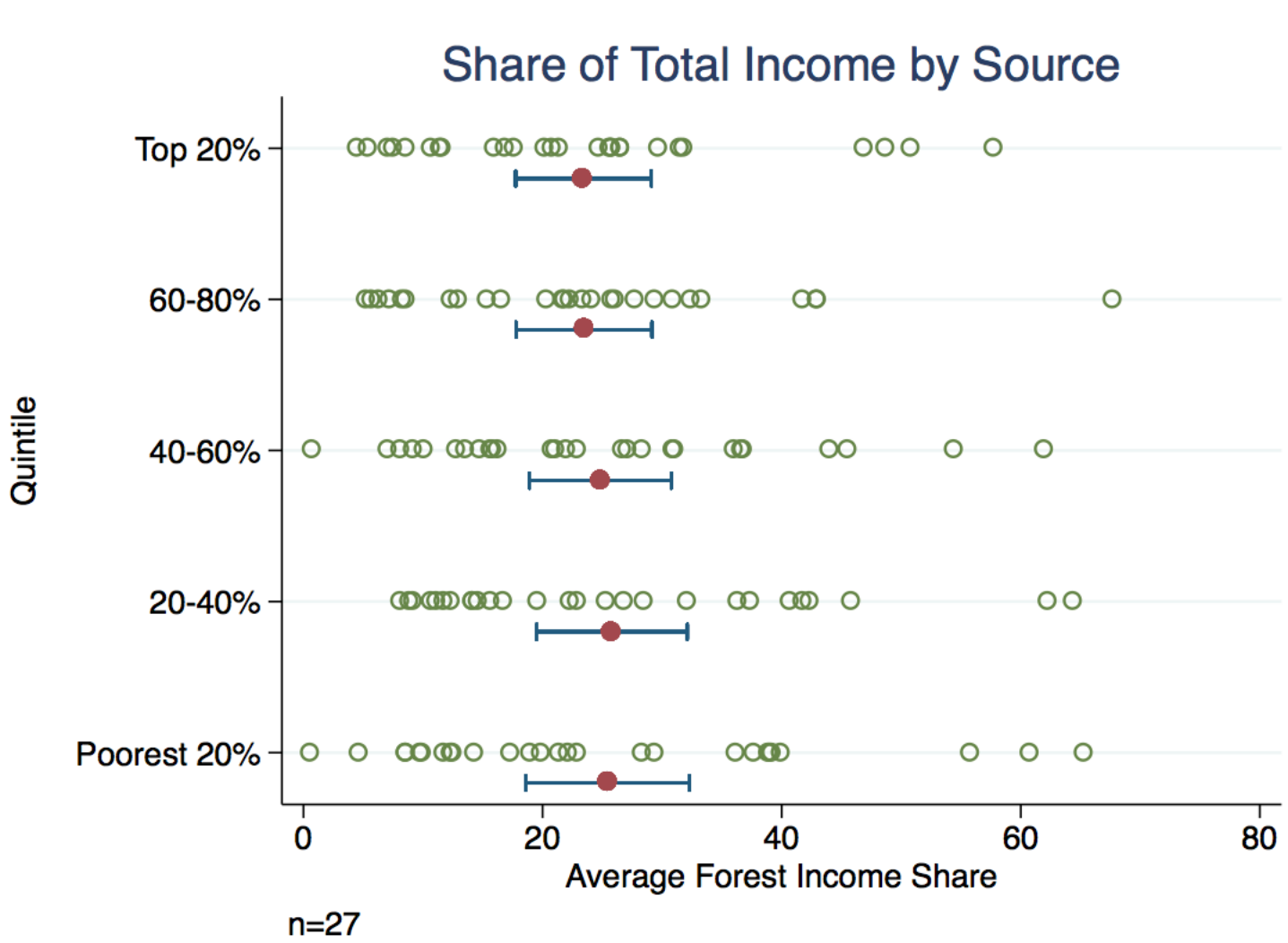
Product	Count
Tung-oil seeds, Youtong	99
Brazil nut	537
Animal-based medicine	64
Fuelwood/firewood	13824
Fodder grass/livestock browse	882
Sawnwood	156
Non-animal manure	265
Acai Palm Fruit	505

Important forest derived products (household)

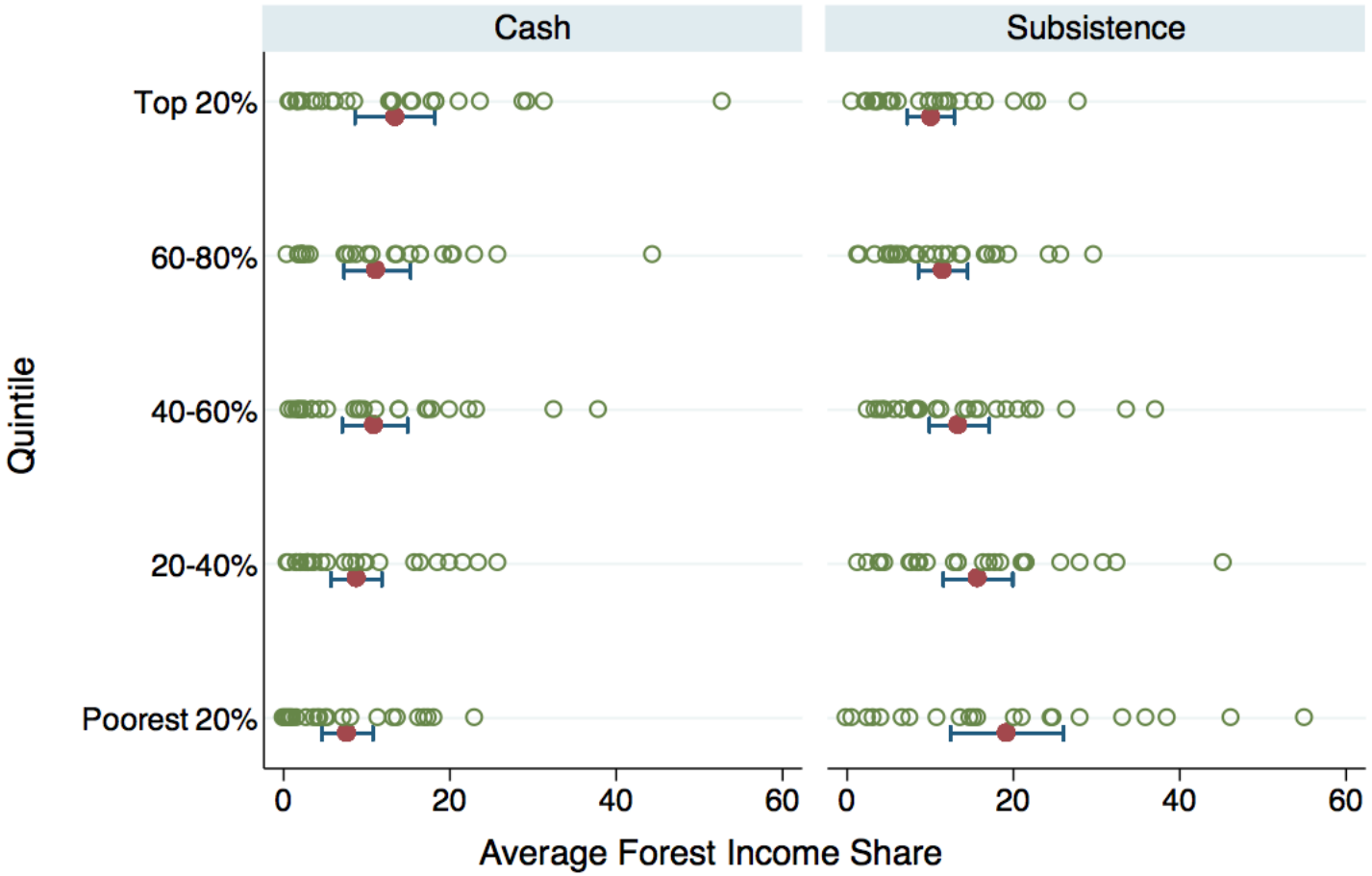


Product	Count
Thurong	96
Sawnwood	1138
Alcoholic beverages	71
Shea butter	303
Processed Badu bamboo shoots	186
Soumbala	476
Miriti wine	13
Bamboo	1

Forest reliance by income quintile



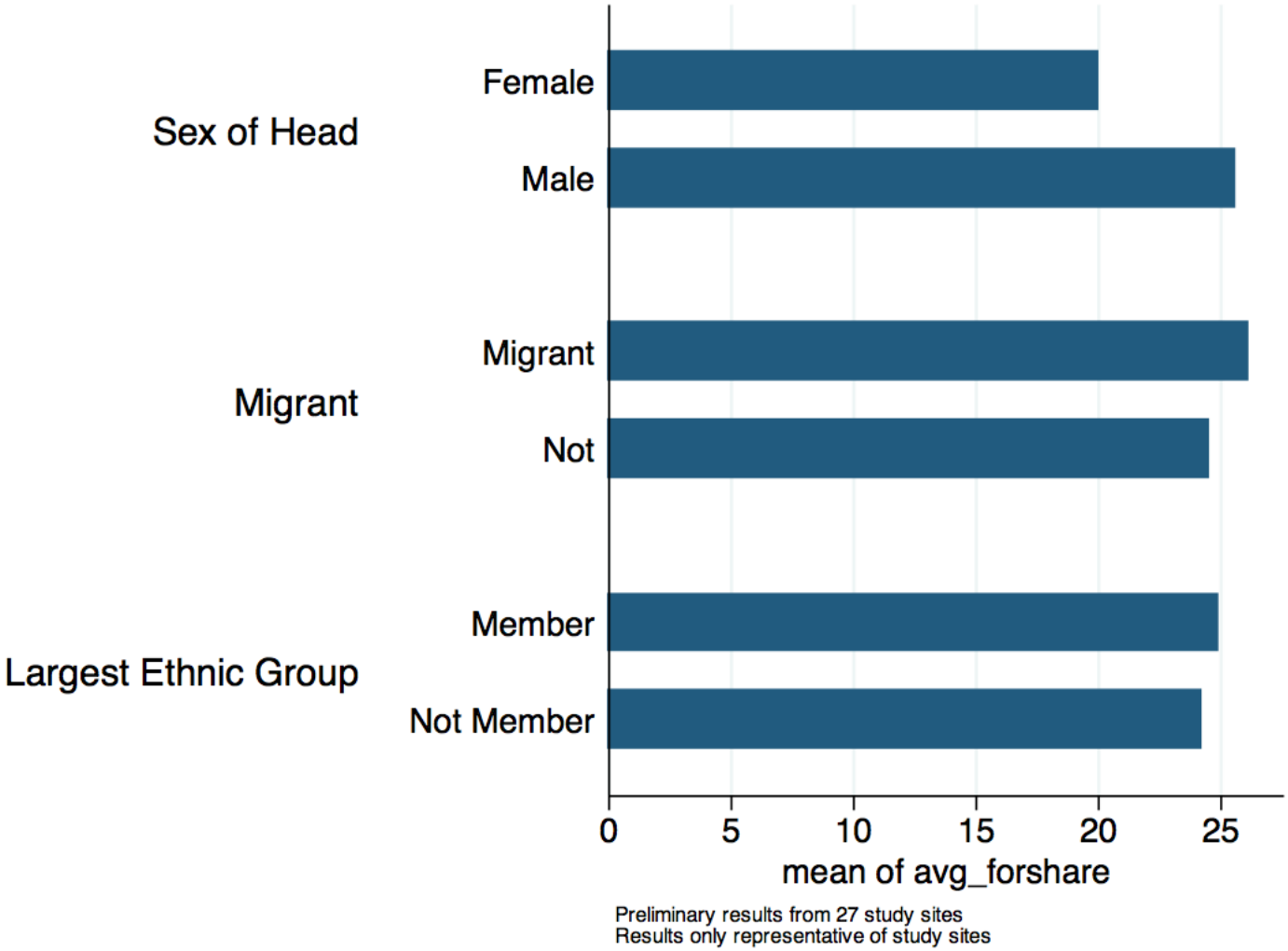
Forest reliance by income quintile- disaggregated



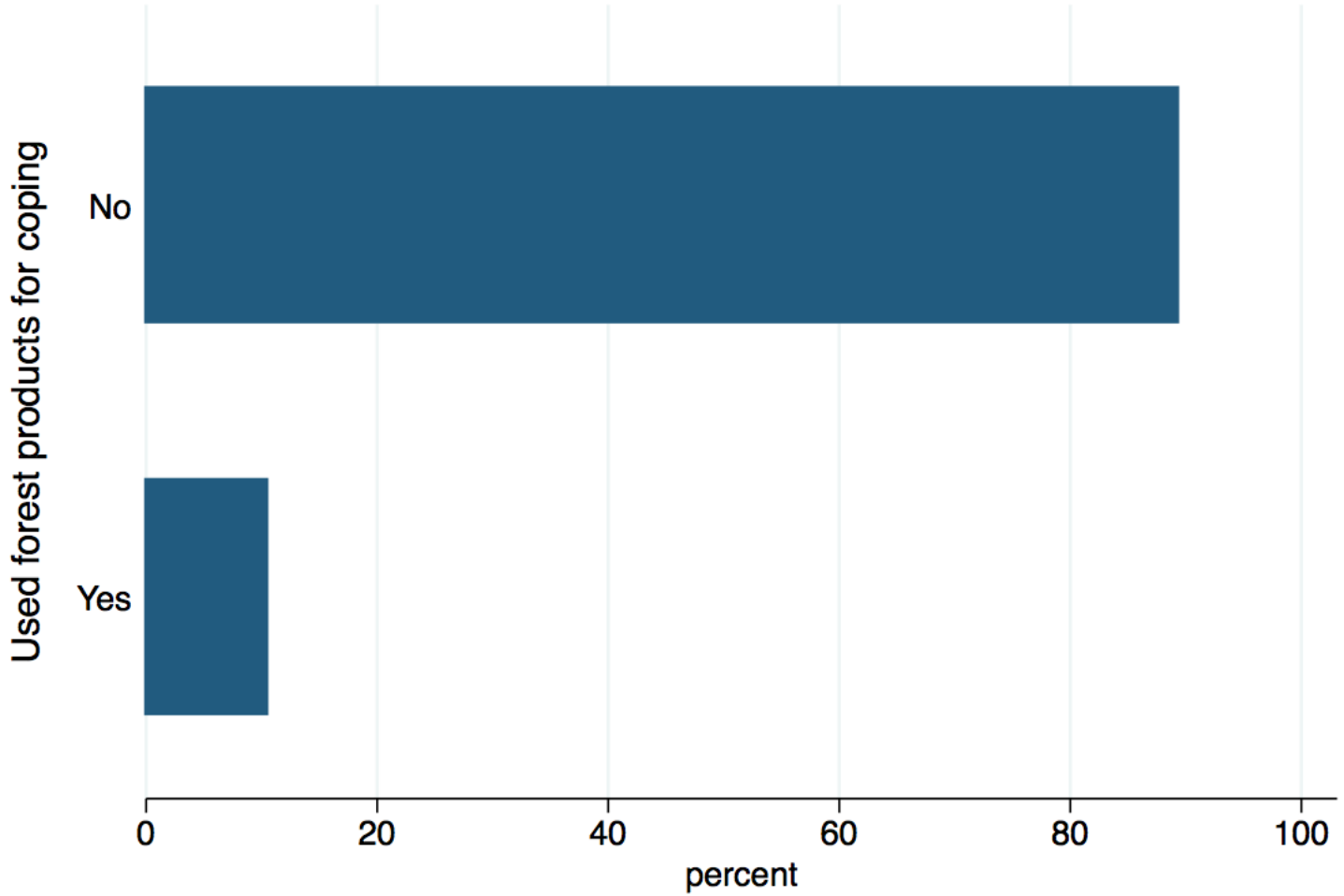
Graphs by Income Category

Preliminary results from 27 study sites (represented by the circles)
Results only representative of study sites

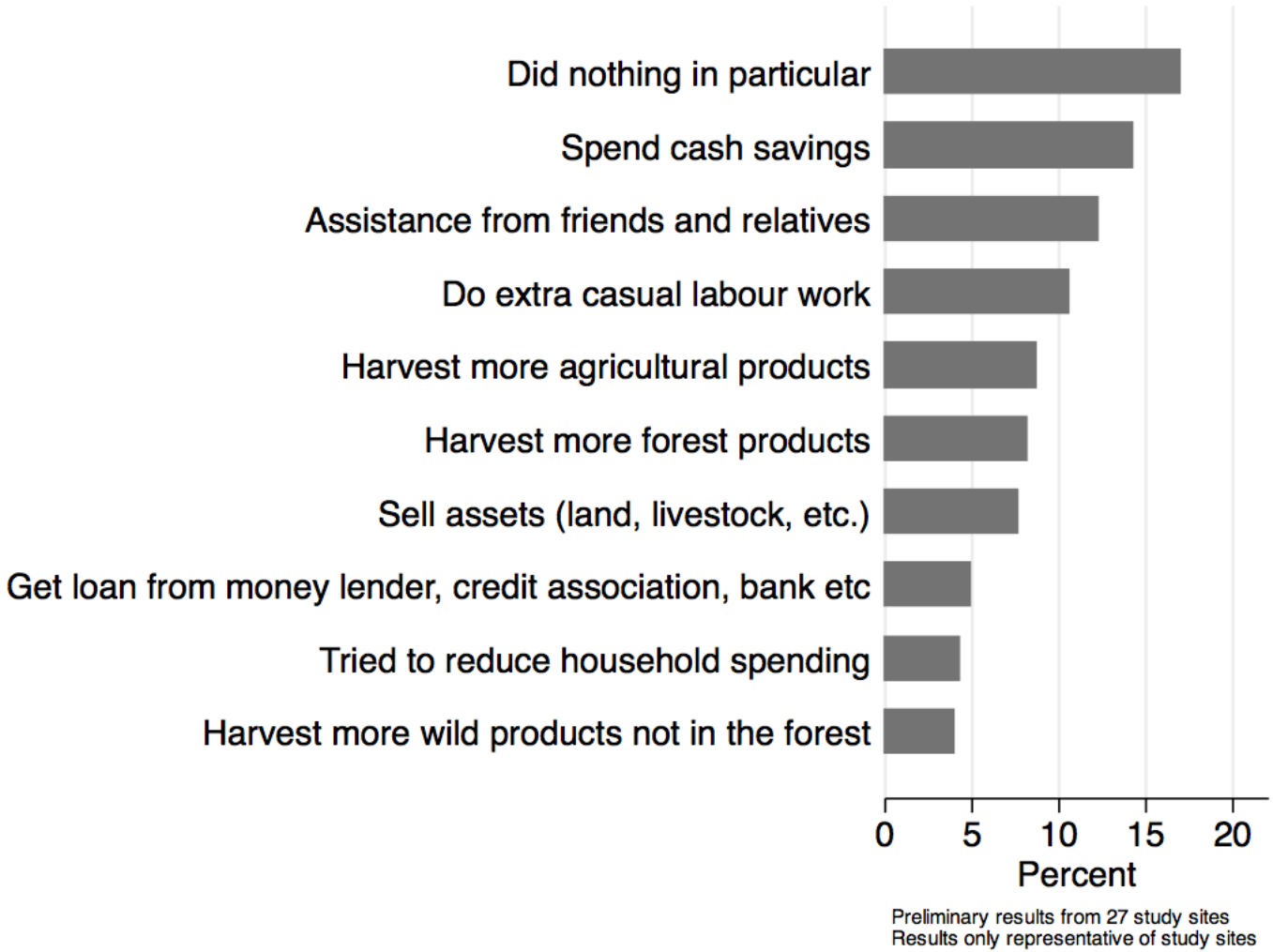
Forest reliance by group



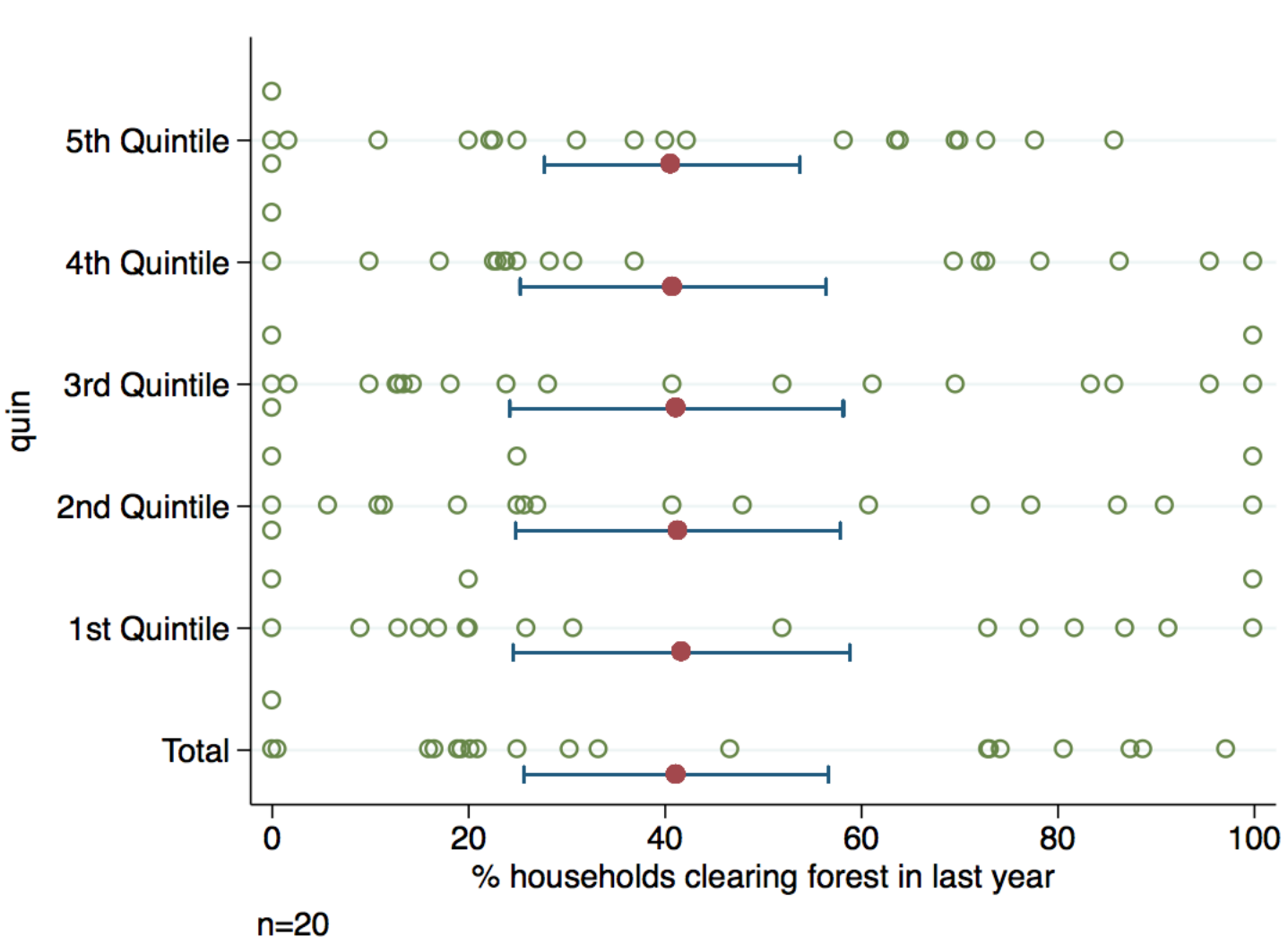
Use of forest income as a crisis coping strategy



Other crisis coping mechanism



Forest clearance in the last year



Some preliminary findings

Confirmed

- Forest income matters. On average 20-25 % share
- High reliance is linked to valuable cash crops
- More analysis is needed

Modified

- Subsistence for the poor, cash for the rich?
- Some seasonal gap filling

New

- In general, forest reliance doesn't vary much across inc. groups
- Forests role as a safety net exaggerated?

Acknowledgments

- PEN Partners
- PEN resource persons
- ESRC-DFID, DANIDA, IFS