

# Shocks, social protection and resilience: Evidence from Ethiopia

USAID Resilience Evidence Forum

E. Knippenberg<sup>1</sup>    J. Hoddinott<sup>2</sup>

<sup>1</sup>Department of Applied Economics  
Cornell University

<sup>2</sup>Professor of Food and Nutrition Economics and Policy  
Cornell University

October 2, 2017

# Resilience and Vulnerability

- *Vulnerability*: Initial minus post-shock consumption levels
- *Resilience*: Time to fully recover to pre-shock consumption

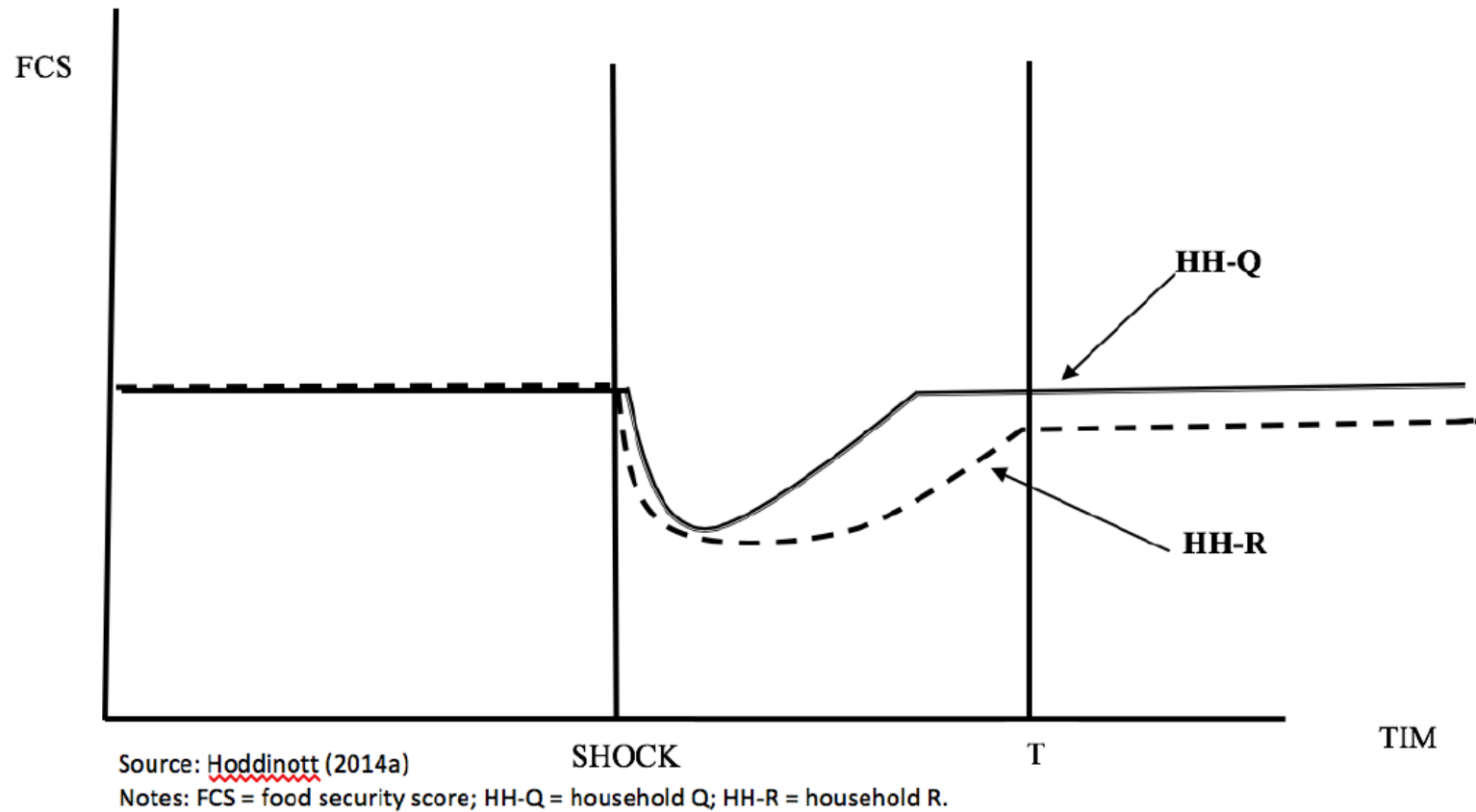


Figure: Consumption Shocks and Recovery Trajectory

## Variables

- $X_{it} = \text{PSNP Payment}$ : Treatment, payments received in cash or kind for public works, weighted by locally constructed price index. In 100 birr increments (about 5 USD).
- $Y_{it} = \text{MonthsFoodSecure}$ : Number of months household did not report experiencing hunger. Provides a proxy for food security.
- $Z_{it} = \text{Drought}$ : self-reported binary variable reflecting exposure to drought.

# Bouncing Back

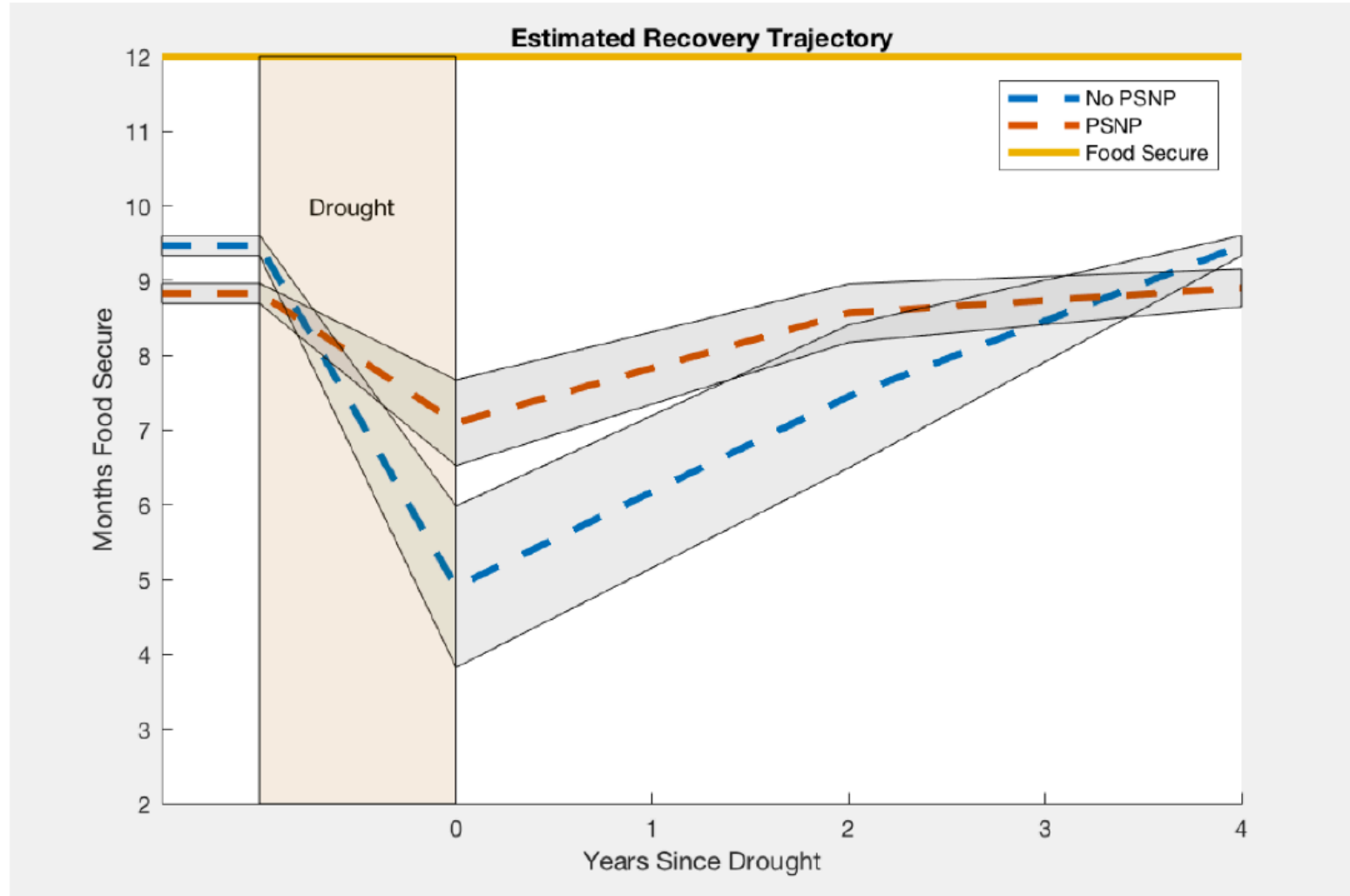


Figure: PSNP and non-PSNP post-drought recovery trajectories from mean level of welfare

# Heterogeneous effects

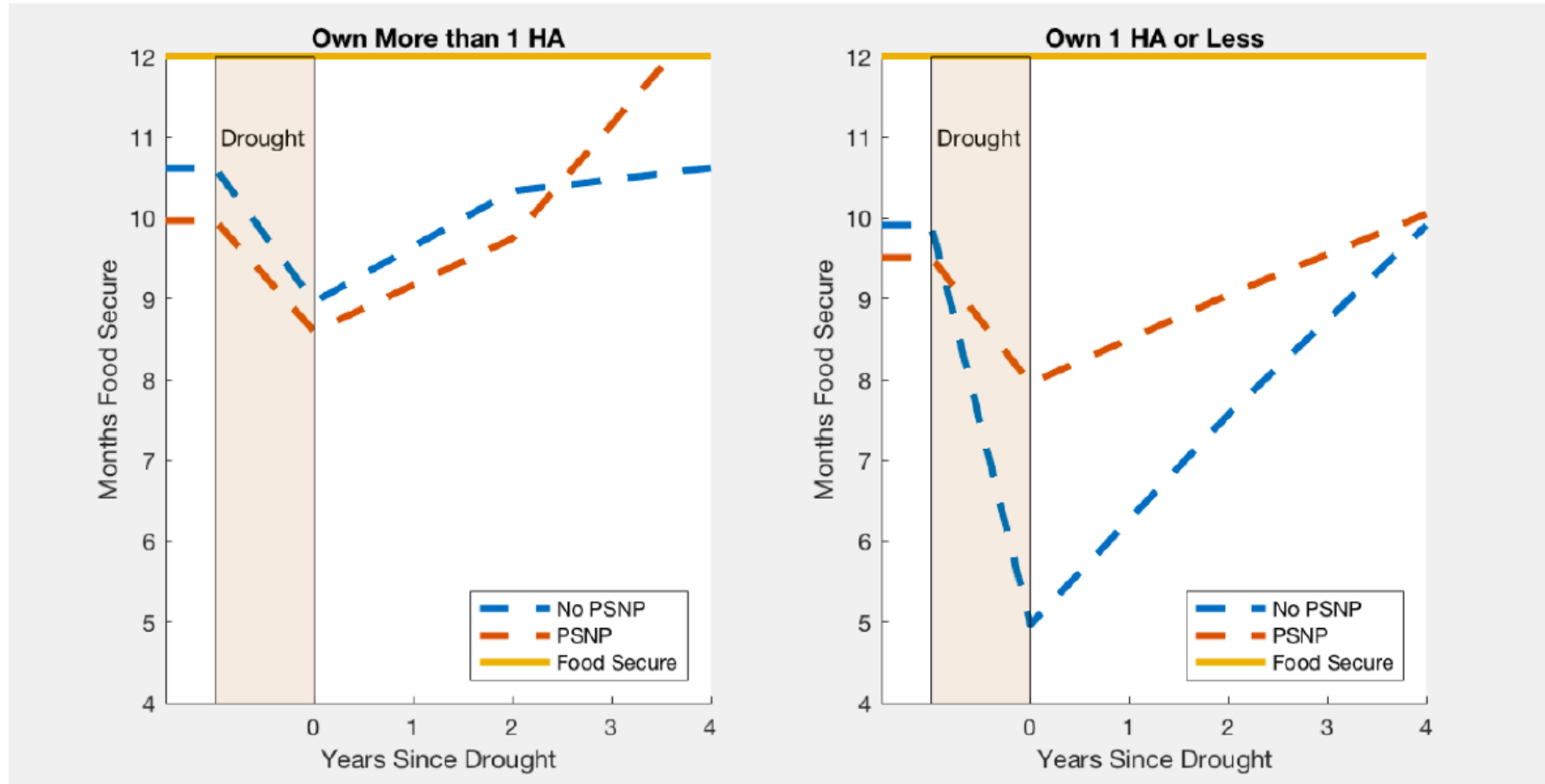


Figure: Post-drought recovery trajectories disaggregated by land ownership