Futures Prices and Risk Hedging in Gujarat, India

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Sector(s): Finance

Fieldwork: Centre for Micro Finance (CMF)

Location: Gujarat, India

Sample: 108 villages in 4 districts of Gujarat

Target group: Farmers

Outcome of interest: Market access

Intervention type: Information Pricing and fees

Partner organization(s): Self-Employed Women's Association (SEWA)

In low and middle-income countries, the risks that result from price uncertainty pose serious threats to farmers and traders. Researchers conducted a randomized evaluation to measure the impact of a crop price awareness program on reducing price uncertainty and promoting forward-looking planting decisions among farmers in India.

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In the liberalized economies of developing countries, the risks arising from price uncertainty are being increasingly borne by farmers and traders, rather than by consumers or the government. Prices are subject to variations that can be unpredictable, and the direct and indirect costs of such uncertainty are significant. For households that depend on agriculture and associated activities for their subsistence, price risk can present an obstacle to the accumulation of assets which could potentially improve productivity, and help families to exit poverty. Several factors could potentially mitigate the effect which price uncertainty has on farmers, including financial literacy and a better understanding of past and current prices. However, little is known about the specific effects that these mechanisms can have on the economic outcomes of traders and farmers.

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A majority of India’s population depends on agriculture and associated activities for their livelihood. The sector sustains the better part of the country’s demand for grains, oil, seeds, livestock feed, and increasingly non-food products for the production of biofuels. The production of these commodities relies on information from input and output markets, climate, and other economic factors such as global markets, substitutes, and commodity prices. Good information about these factors is needed to ensure stable production and pricing, but few farmers in Gujarat have access to this information.

Futures markets play an important role in price discovery, and combined with up-to-date spot prices, may allow farmers to make more informed planting decisions, reducing uncertainty and allowing for better planting decisions. Better price information may also allow farmers to better time their harvest, and facilitate negotiation with intermediaries.



A farmer in India

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The Futures Prices Information project was designed and developed to help farmers manage price risk, by providing them with information on two types of prices—futures and spot prices. Since 2007, SEWA and the project team have disseminated crop price information through posting on village boards to more than 50 villages in the state of Gujarat, India, in an effort to reduce price risk and promote forward-looking planting decisions among farmers. Prices were posted by sending them via text message to a designated "price poster" in each village. In addition to providing futures and spot prices for three main crops (cotton, castor, and guar seed), the organizations worked together to train villagers on how to use futures prices for their benefit, through a two-hour interactive training session, which included a 25-minute video made by the project team.

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Study ongoing; results forthcoming.