



Make it Rain

Weather index insurance protects farmers against losses from extreme weather and facilitates investment in their farms, but randomized evaluations in South Asia and sub-Saharan Africa have shown low demand for these products at market prices, suggesting the need for alternative approaches.

Key Findings:

Without substantial subsidies, take-up of insurance was low. Large discounts increased take-up substantially, and interventions designed to increase financial literacy or reduce basis risk also had positive effects. However, at market prices, take-up was in the range of 6–18 percent, which cannot sustain unsubsidized markets.

Insured farmers were more likely to plant riskier but higher-yielding crops. In the three studies that measured changes in farmer behavior, farmers who felt protected against weather risks shifted production toward crops that were more sensitive to weather but more



profitable on average.

While self-sustaining markets for weather index insurance have not emerged, finding ways to address weather risk remains a priority for agricultural development. Some possibilities are improving index quality, providing subsidized insurance, selling insurance to institutions, and exploring other risk-mitigating technologies, such as irrigation and stress-tolerant crops.

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