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Cognitive Droughts:

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ABSTRACT: This paper tests whether uncertainty about future rainfall affects farmers' decision-making through organitive band. Behavioral theories predict that rainfall risk could impose a psychological tax on farmers, leading to material consequences at all times and across all states of nature, even within decisions unrelated to consumption smoothing, and even when negative minfall shocks do not materialize down the line. Using a novel technology to run lab experiments in the field, we combine recent rainfall shocks and survey experiments to test the effects of minfall risk on farmers' organition, and find that it decreases farmers' attention, memory and impulse control, and increases their susceptibility to a variety of behavioral biases. In theory, insumor could unique those effects by afterstaining the material consequences of rainfall risk. To test this hypothesis, we randomly assign offices of an index insurance product, and find that it does not afflict farmers' cognitive load. These results suggest that farmers' assisty might be relatively difficult to allevine.

This version: January 19th, 2016

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<sup>1</sup> We see heavily indebted to the invaluable guidance of Sondhil Mullioinsthus, Nathun Nann, Edward Glasver, and Gantum Rao. This paper also benefited for on comments a waview sugge from Mire Albato, Mullioined Callon, Paule Cotta, Divid Laibnen, Biyue Millett, Diana Moreira, Jonan Nationai, Manthew Rabin, Mortin Rottenberg, Frank Schibach, Andrei Shleifer, Lawra Tencco, and Jack Willis. We also thank participants of semions at Harward, IPA Researcher Gathering on Financial Behavior 2010, and NELDC 2015. All avantaling corers are one. This succeeds was supported by the genesosity of the Yale Savings and Popureous Research Fund at Insovations for Powerty Action (IPA), quantized by a grant from the Bill & Mullioid Ganci Foundation, and by the Courte for Competitive Advantage (CAGE) at the University of Warwick. The pilot study that helped us with the nearch design was funded by the Harward Lab for Economic Applications and Policy (LEAP) and by the Centre for Competitive Advantage (CAGE) at the University of Warwick.

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## **Insurance Against Cognitive Droughts**

This paper tests whether uncertainty about future rainfall affects farmers' decision-making through cognitive load. Behavioral theories predict that rainfall risk could impose a psychological tax on farmers, leading to material consequences at all times and across all states of nature, even within decisions unrelated to consumption smoothing, and even when negative rainfall shocks do not materialize down the line. Using a novel technology to run lab experiments in the field, we combine recent rainfall shocks and survey experiments to test the effects of rainfall risk on farmers' cognition, and find that it decreases farmers' attention, memory and impulse control, and increases their susceptibility to a variety of behavioral biases. In theory, insurance could mitigate those effects by alleviating the material consequences of rainfall risk. To test this hypothesis, we randomly assign offers of an index insurance product, and find that it does not affect farmers' cognitive load. These results



suggest that farmers' anxiety might be relatively difficult to alleviate.

January 19, 2016