

Jared P. Hutchins

CONTACT INFORMATION	Department of Agricultural and Applied Economics University of Wisconsin-Madison 427 Lorch Street, 311 Taylor Hall Madison, WI 53706	678-994-8178 jhutchins@wisc.edu jhutchinswisc.github.io
------------------------	---	--

EDUCATION	University of Wisconsin-Madison , Madison, WI Ph.D., Agricultural and Applied Economics, <i>Expected</i> : 2020 <i>Primary Field</i> : Agricultural Economics, Production Economics American University , Washington, DC B.S., Economics, May 2013
-----------	--

JOB MARKET PAPER	“Milked for All They Are Worth: Analyzing Livestock Mortality Costs in a Dynamic Discrete Choice Model”
---------------------	--

This paper examines animal replacement behavior for over 1,000 Wisconsin dairy farms during the period 2011-2014 and analyzes the rationale for high replacement rates. I model the replacement decision using a dynamic discrete choice model and incorporate unplanned mortality as a source of uncertainty that drives farmers to replace dairy cows before they maximize production. The empirical model incorporates cow and herd heterogeneity in mortality rates to back out the implied cost of cow mortality. Using the conditional choice probability method, I estimate the cost of mortality at 1,800 USD per death, 800 dollars more than estimates based on simulation studies. Utilizing farm size heterogeneity, I also find that mortality costs are three times higher on small dairies than on larger ones. In a counterfactual estimation, dairy farmers were willing to pay 1,300 USD to eliminate mortality risk completely for first year dairy cows. These results suggest that genetic selection in U.S. dairy favors relatively large farms given that declining health disproportionately affects small dairies.

WORKING PAPERS	“Production Credit Associations and Agricultural Productivity Change in the United States, 1920-1940” 2018 <i>with Brent Hueth</i>
-------------------	---

We study the impact of Production Credit Associations (PCAs) during the decade-long period shortly after their introduction as one component of the 1916 Federal Farm Loan Act. Using county distances to PCAs as a proxy for cost of access to credit, we examine the effects of credit expansion on county-level crop yield, crop revenue, and input use. Despite serving only about 7% of U.S. farmers during the period we study, we estimate that counties 100 kilometers closer to a PCA had roughly 10% higher crop revenue per acre. We also find that counties closer to PCA locations experienced significantly higher growth rates in tractor and fertilizer utilization, relative to more distant counties. In years prior to the arrival of PCAs, farms in relatively close-by counties earn on average less revenue and use fewer purchased inputs than farms in counties further away. This relationship *reverses* in subsequent years, suggesting that the mechanism for identifying PCA locations targeted less well-off counties.

	“Supply Response in Dairy Farming: Evidence from Monthly, Cow-Level Data” 2018 <i>with Brent Hueth</i>
--	--

Supply response on dairy farms to milk price and ration cost are almost always found to be small in the short run. Such studies, however, are usually done at the herd and quarterly level where the mechanisms of supply response cannot be distinguished. Using a monthly, animal level data set, we analyze supply response at the animal level which isolates the intensive margin response, that is use of more inputs, subject to the production process. In our empirical analysis of over ten million animal records, we reject the null hypothesis of no response, finding that milk price and slaughter price do indeed explain deviations from the Wood lactation curve. In particular, we find that milk price lagged two months and slaughter prices have the most explanatory power at the level of the lactation curve.

CURRENT PROJECTS	<p>“Willingness to Pay for Breeding Technology: Evidence from A Survey of Senegalese Dairy Farmers” <i>with Karen Marshall and Ayao Missohou</i></p> <p>“Quantifying Heterogeneous Returns to Genetic Selection: Evidence from Wisconsin Dairies” <i>with Brent Hueth and Guilherme Rosa</i></p>	
PROFESSIONAL EXPERIENCE	<p>Research Assistant Department of Agricultural and Applied Economics University of Wisconsin-Madison Supervisor: Brent Hueth</p> <p>Consultant Inter-American Development Bank Washington, DC</p> <p>Research Intern Inter-American Development Bank Washington, DC Supervisor: Paul Winters</p> <p>Document Management Intern Wage and Hour Division, U.S. Department of Labor Washington, DC Supervisor: Dan Daly</p> <p>Research Intern Fundación América Solidaria Santiago, Chile</p>	<p>May 2015 to present</p> <p>December 2018 to May 2019</p> <p>Janaury to May 2013</p> <p>May 2012 to August 2013</p> <p>August to December 2011</p>
TEACHING EXPERIENCE	<p>Shepherd’s Cross with Njala University Small Ruminant Animal Husbandry and Herd Health Instructor and Facilitator</p> <p>University of Wisconsin-Madison AAE 322 Commodity Markets with Xiaodong Du Teaching Assistant</p> <p>Dominico American Society of Queens Basic English ESL Instructor</p>	<p>March 2019 Njala, Sierra Leone</p> <p>Spring 2017 Madison, WI</p> <p>May to July 2011 New York, NY</p>
AWARDS AND HONORS	<p>Best Paper Presentation, PhD Student Research Colloquium Agricultural and Applied Economics University of Wisconsin-Madison</p> <p>Barbara and Thomas Lyon Scholarship UW Center for Cooperatives Agricultural and Applied Economics University of Wisconsin-Madison</p>	<p>December 2017</p> <p>May 2017</p>
CONFERENCE PRESENTATIONS	<p>“Quantifying Heterogeneous Returns to Genetic Selection: Evidence from Wisconsin Dairies” Paper presented at NBER conference on Economics of Research and Innovation in Agriculture</p>	<p>May 2019 Washington, DC</p>

“Production Credit Associations and Agricultural
Productivity Change in the United States, 1920-1940”
Paper presented at NC-1177 Conference

October 2018
St. Louis, MO

“Supply Response in Dairy Farming:
Evidence from Monthly Cow-Level Data”
Poster presented at AAEA Annual Meeting

July 2018
Washington, DC

SERVICE

Student Research Colloquium Coordinator
Agricultural and Applied Economics
University of Wisconsin - Madison

September 2018 - May 2019
Madison, WI

Contributor to **econtools**
Econometrics Python Package
<https://github.com/dmsul/econtools>

LANGUAGES

English, Spanish
Python, Stata, R, Latex, Git, Matlab, SQL, Unix Shell

REFERENCES

Brent Hueth (Advisor)
Associate Professor
Agricultural and Applied Economics
University of Wisconsin-Madison

608-890-0924
hueth@wisc.edu

Jean-Paul Chavas
Anderson-Bascom Professor
Agricultural and Applied Economics
University of Wisconsin-Madison

608-261-1944
jchavas@wisc.edu

Xiadong Du (Teaching)
Associate Professor
Agricultural and Applied Economics
University of Wisconsin-Madison

608-262-4069
xdu23@wisc.edu