Examining the State Level Impact of Extension's Actions in Community and Economic Development MICHAEL JOHN DOUGHERTY 2015 NACDEP CONFERENCE



Extension has been formally involved in community and economic development for almost half a century.

The professionalization of this work occurred in the 1960s (Ayers et al., 2005) as programs arose in "community resource development" (University of Maine, n.d.).

Presently, community and economic development is one of six major areas for Extension work (USDA, 2014).

The Extension professional literature on developmentrelated activities can be divided into two tracks.

One is a general discussions of purpose of or capacity for such efforts (e.g., Davidson, 1975; Weber, 1987; Urbanowitz and Wilcox, 2013).

The other is an examination of the technical processes or tools used in such an undertaking (e.g., Lloyd, 1995; Barta and Woods, 2002; Sharp et al., 2011).

General evaluations of development-related Extension programming appear to be non-existent

Early suggestions for evaluation focused on local or programmatic level (Henderson and Bond, 1966).

Evaluations discussions have continued to focus on the local or programmatic level at the present time (e.g. Conglose, 2000; Estrada, 2005; Bowen-Ellzey et al., 2013).

It is readily apparent Extension's efforts in community development and economic development have made impacts at the local level.

However, there has been scant investigations into whether these efforts combine to have a substantial impact at the state level.

This is important because it is at that level that policy – and funding – decisions primarily are made.

This exploratory research seeks to examine the statelevel impact of Extension programming in Community Development and Economic Development.

The hypothesis is that states with more active Extension programming in Community Development and Economic Development will have fared better than other states (where Extension has been less active).

Perform tests by comparing conditions in the states.

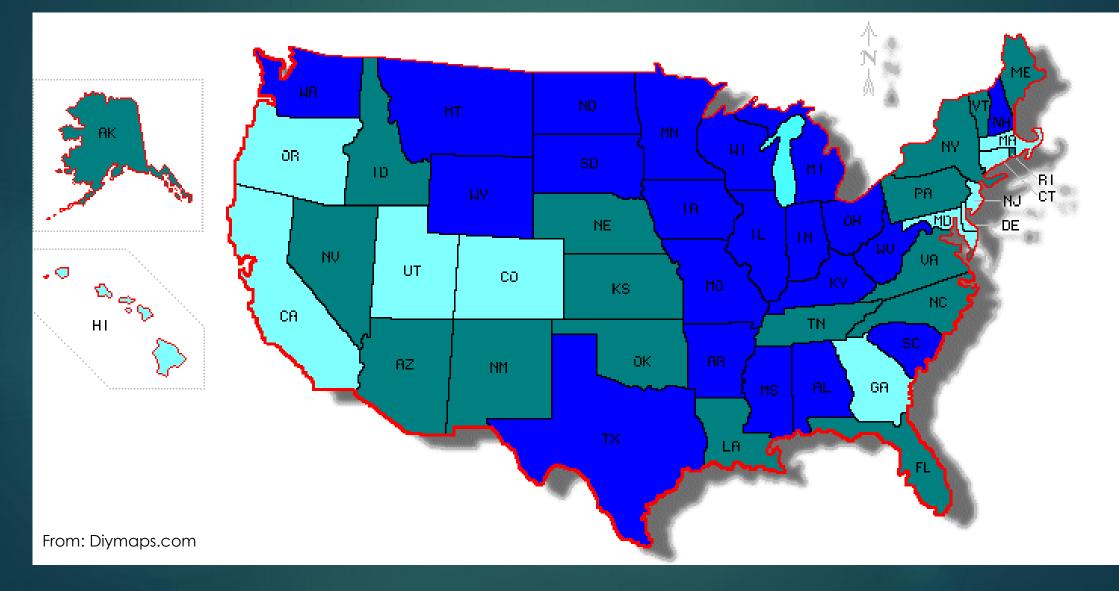
#### Responses (Dependent Variables)

- Population Change 2010-2013
- MMHI 2013 and MMHI Change 2010-2013
- Poverty Rate 2013 and Poverty Rate Change 2010-2013
- Establishments Per Capita 2013 and Establishments PC Change 2010-2013
- Employment Per Capita 2013 and Employment PC Change 2010-2013
- Annual Payroll Per Capita 2013 and Annual Payroll PC Change 2010-2013
- Unemployment Rate 2013 and Unemployment Rate Change 2010-2013
- Focus on Indicators to Link to CD or ED Efforts
- Used in Studies with County-Level Unit of Analysis

Factors (Independent Variables):
 Priority of CRED-Related Activity

- 21 states appeared to be a Primary Activity or Major Area
- 18 states appeared to be a Secondary Activity or Minor Area
- 11 states appeared to be a Limited Activity or Not an Area
- Source: Current (2015) Website Review

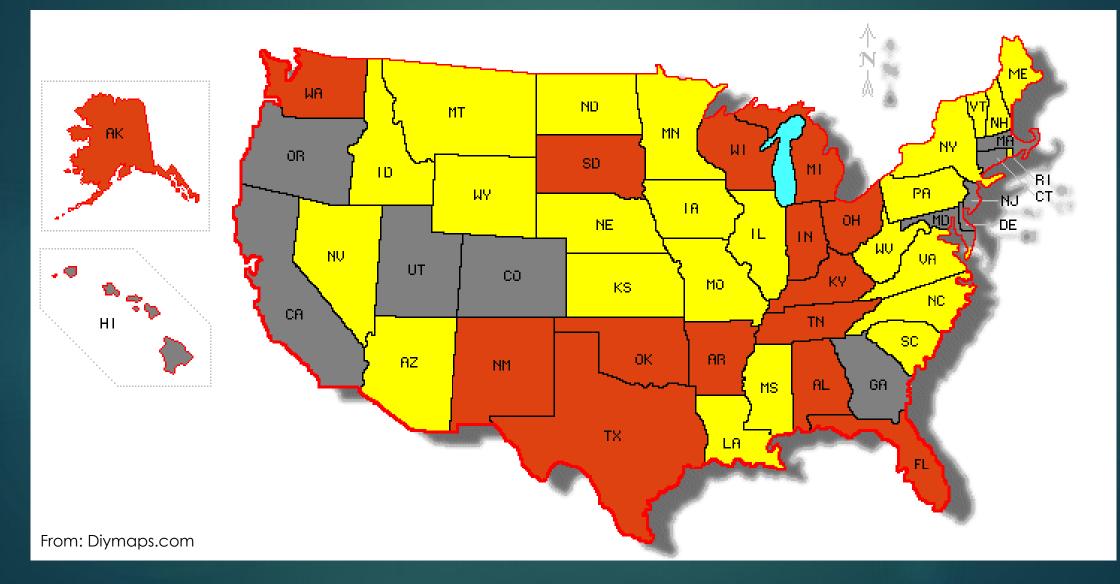
## Study Process: Priority (Scope)



Factors (Independent Variables): Focus of CRED-Related Activity

- 26 states appeared to Focus more on Community Development
- 13 states appeared to Focus more on Economic Development
- 11 states appeared to have Neither (too limited an activity)
- Source: Current (2015) Website Review

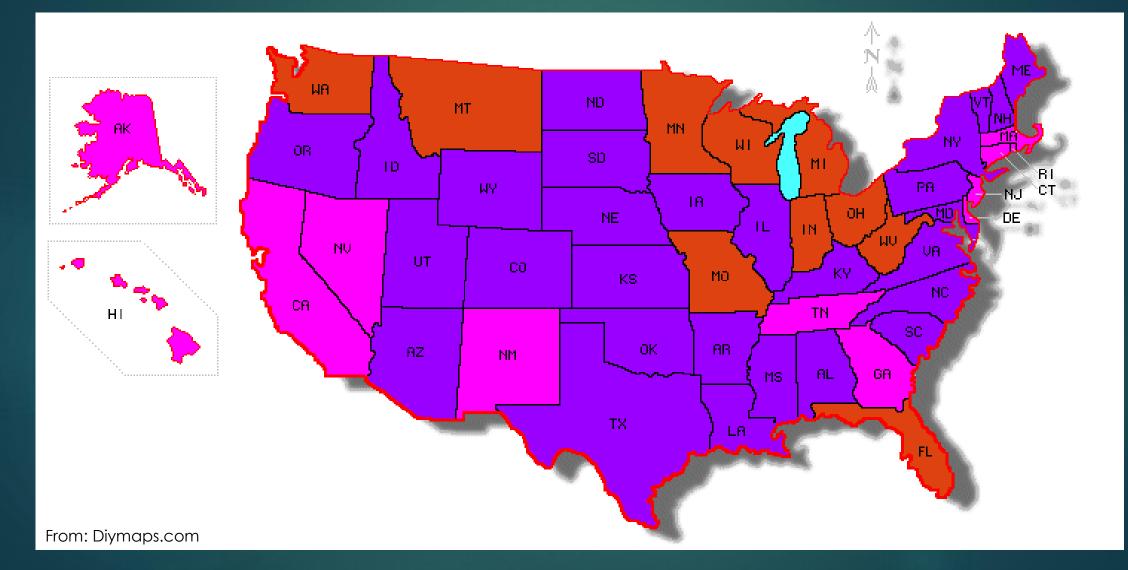
## Study Process: Focus (CD or ED)



Factors (Independent Variables):
 NACDEP Membership

- 10 States classified as Large to Very Large (8 or more Members)
- > 28 States classified as Small to Medium (2 to 7 Members)
- 12 States classified as None to Very Limited (0 to 1 Members)
- Source: 2013 Membership Roster

### Study Process: NACDEP Members



#### Analysis of Variance

- Examines Differences between Groups of Data
- Used One-way ANOVA with 95% Confidence Interval
- ► Three Sets of Analysis: Each Factor compared to 13 Responses

Software: Minitab 16

### Analysis with Expected Results

- States with NACDEP Members (more than Limited) had lower Unemployment Rate
- ▶ p=0.036
- ▶  $R^2(adj) = 9.52\%$ 
  - No/Limited Membership
  - Small Membership
  - Medium/Large Membership
- = 7.63 % unemployment
- = 6.29 % unemployment
- = 6.89 % unemployment

### Analysis with Expected Results

- States with Many NACDEP members (8 or more) had Greater Change in Unemployment Rate
- ▶ p = 0.014
- ▶ R<sup>2</sup>(adj)=12.98%
  - No/Limited Membership
  - Small Membership
  - Medium/Large Membership
- = -20.13 % change
- = -21.79 % change
- = -28.16 % change

- States where CRED-related Activities are any Priority (Primary or Secondary) had a Lower MMHI
- ▶ p = 0.001
- ▶ R<sup>2</sup>(adj)=21.01%
  - Not a Priority

- = \$59,819
- Secondary Priority
- Primary Priority

= \$50,525 = \$50,400

- States where CRED-related Activities are any Priority (Primary or Secondary) had a Lower Payroll Per Capita
- ▶ p = 0.025
- ▶ R<sup>2</sup>(adj)=10.86%
  - ► Not a Priority
  - Secondary Priority
  - Primary Priority

= \$16,006 = \$15,946

= \$19,197

- States with Focused Activities in Community Development or Economic Development had a Lower MMHI
- ▶ p = 0.001
- ▶ R<sup>2</sup>(adj)=23.46%
  - Limited Activity

- = \$59,819
- CD-Focused Activity = \$51,542
- ED-Focused Activity
- = \$48723

- States with Focused Activities in Community Development or Economic Development had Lower Payroll Per Capita
- ▶ p = 0.018
- ▶ R<sup>2</sup>(adj)=12.20%
  - Limited Activity
  - CD-Focused Activity = \$16,330
  - ED-Focused Activity
- = \$15,404

= \$19,197

### Discussion

The Results – the Expected and Unanticipated – both may be saying the same thing: that Extension works in Community Development and Economic Development in places where it is needed (and needed more).

Lower Unemployment Rate and Greater Unemployment Rate Change (Reduction) vis-à-vis higher NACDEP membership shows how programming is directed and is helping in those places where jobs are needed the most.

### Discussion

 Lower Income (MMHI) vis-à-vis Priority Area or Focus Area shows that those states where Extension working on development-related issues have greater needs

 in this case the need to overcome an income deficit.

 Lower Payroll Per Capita vis-à-vis Priority Area or Focus Area shows that those states where Extension working on development-related issues have greater needs

 in this case the need to overcome a payroll deficit.

# Cautions on the Study

#### Snapshot in Time

- ► Fluid Process
- Impacts Take Time

#### Structure of Factors

- Analysis of Websites (Date, Process, Definitions)
- Changes in Extension (Operations, Structure)
- NACDEP Membership Fluctuations

# Cautions on the Study

#### Response Variables

- Selected Based on Experience with Local Entities
- Extension Framework Indicators Could be Used

#### Exploratory Nature

- First Step to Start Conversation
- Findings Represent Beginning of Process, Not an End
- Unclear if Unit of Analysis Change Appropriate

## Conclusions

There appears to be at least some limited support for the hypothesis that Extension Work in Community Development and Economic Development can make a difference at a macro-level.

There appears to be some evidence that Extension Work in Community Development and Economic Development is being done where it is needed most – masking at least some of its overall impact.

Additional research is needed for clarification.