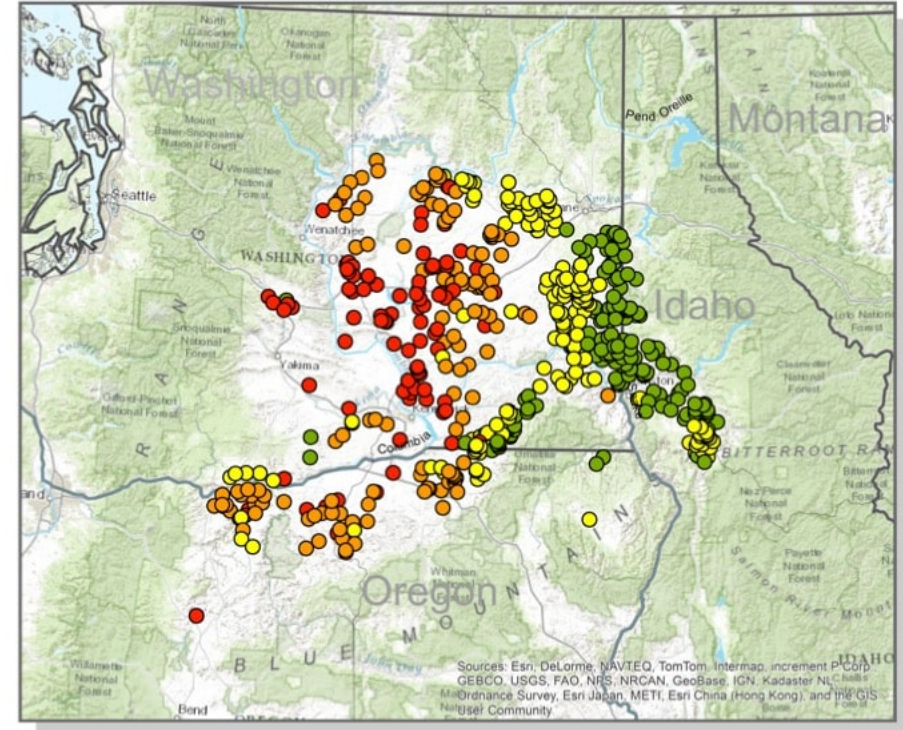


Stat Atlas Data

- I used three datasets as part of this analysis.
 1. AE classes for 2012, which is a 56m pixel resolution grid, that was based off of cropland data layer information.
 2. A provided Ag producer survey from 2012, which was in spreadsheet form. (n = 900).
 3. a shape file with geocoded locations for the **900** survey respondents.
 4. **518** respondents actually fell within one of the four classes.

Overview: Ag Producer Survey Respondents coded by agroeco classification for 2012



Legend

Ag Producer Survey

- Annual Crop
- Crop Fallow Transition
- Crop Fallow
- Irrigated

Total survey respondents: 900.
Total respondents falling within one of the four classes: 518

This map contains survey data from 2012 to assess how social, economic, and climatic factors affect your onfarm decisions. The survey is part of a larger study funded by USDA-NIFA. More info @ <http://www.reacchpna.org>

This material is based upon work that is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award number 2011-68002-30191.



0 25 50 100 Miles



Date: 11/5/2016

AEC regions (56m grid) for 2012 are dissolved into 4 stable classes:

1. Irrigated
2. Crop-Fallow
3. Crop Fallow Transition
4. Annual Crop

1. The AEC layer for 2012 was acquired, with four stable classes for the region
2. The AEC 2012 layer was provided in a 56m pixel grid format. This dataset was converted to a polygon format with the four classes applied to all polygons.
3. The Ag producer survey, after geocoding, amounts to a point shapefile with 900 geocoded records across the REACCH study region, with each respondents answers attached to that geocoded location.
4. This 900 point shapefile was then used in a spatial join technique, to apply the features of all points to their associated polygon region for AEC 2012.

AEC 2012 is converted from a grid to a multi part polygon

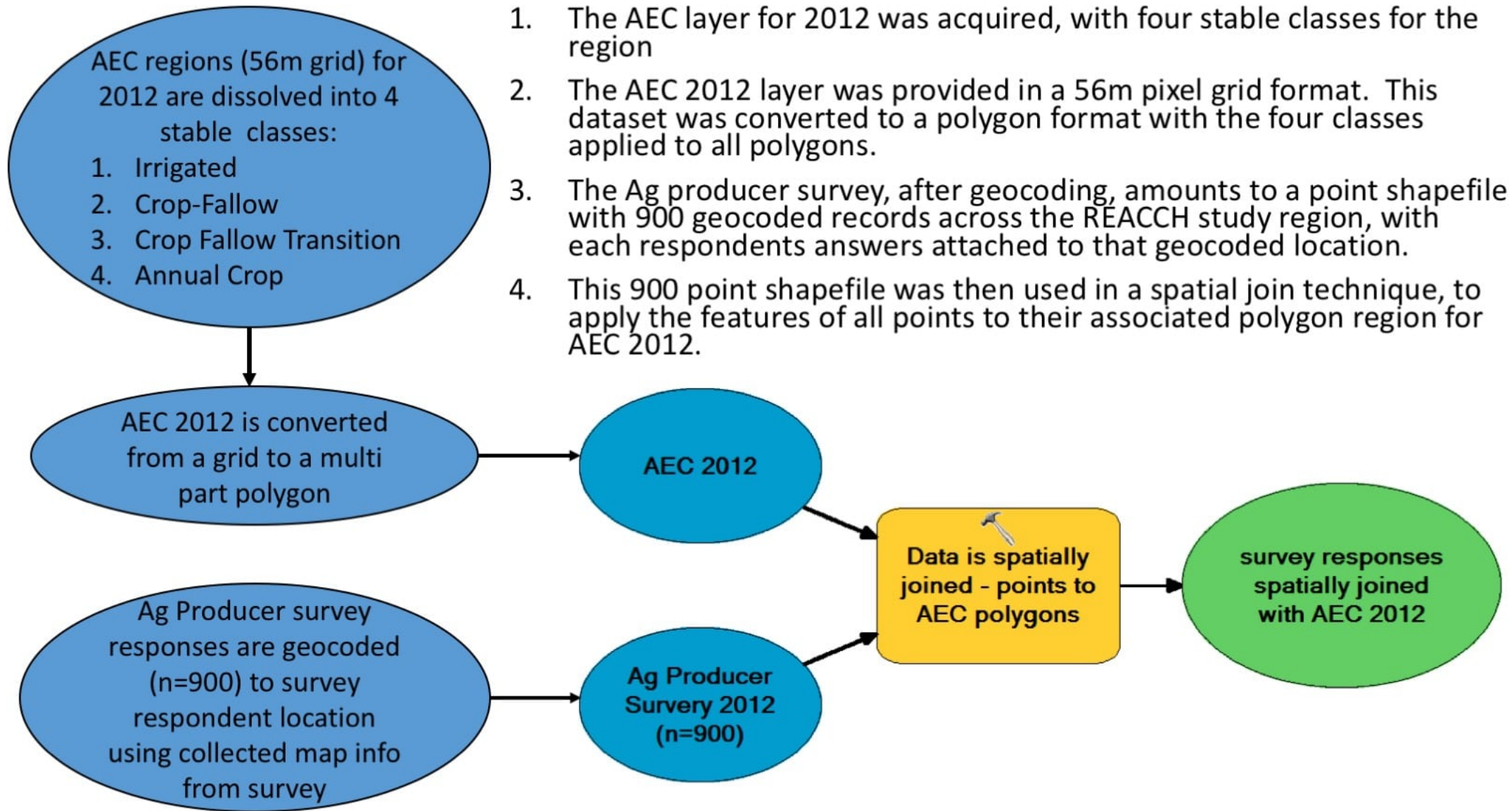
AEC 2012

Ag Producer survey responses are geocoded (n=900) to survey respondent location using collected map info from survey

Ag Producer Survey 2012 (n=900)

Data is spatially joined - points to AEC polygons

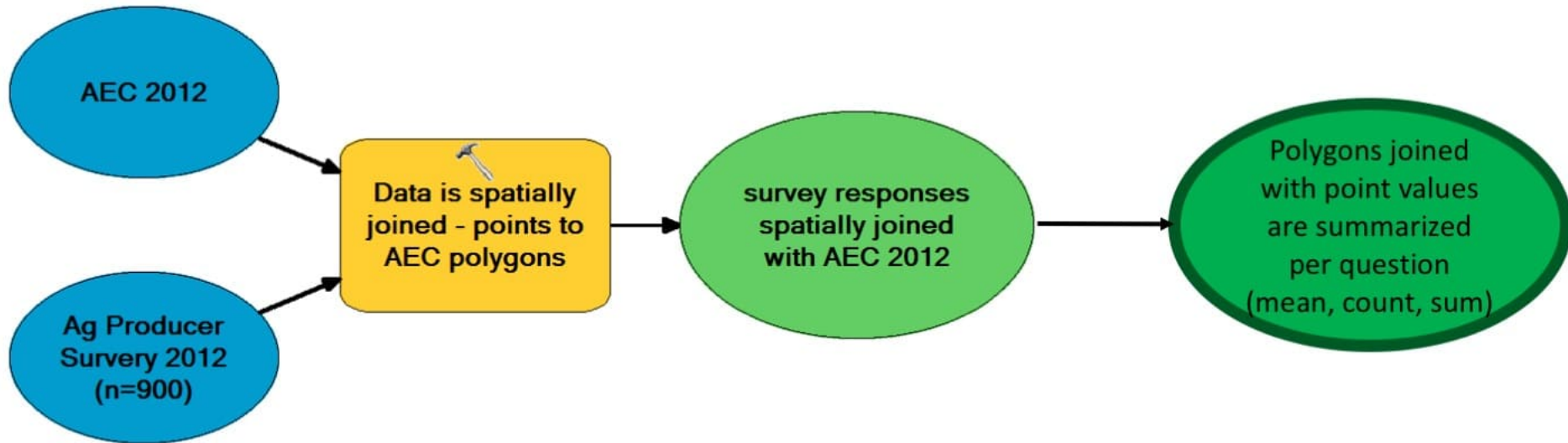
survey responses spatially joined with AEC 2012



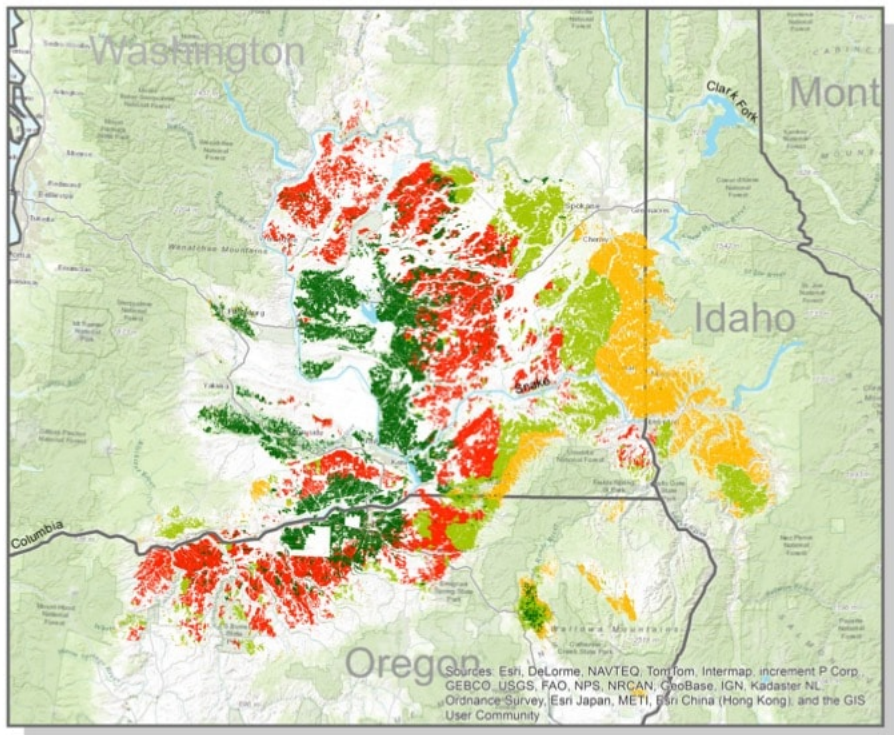
Final methodology steps

When joining the Ag producer survey responses to the AEC polygons, a variety of inferential statistic techniques can be used, depending upon the question.

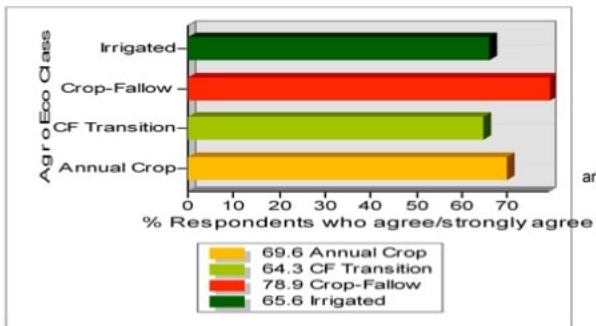
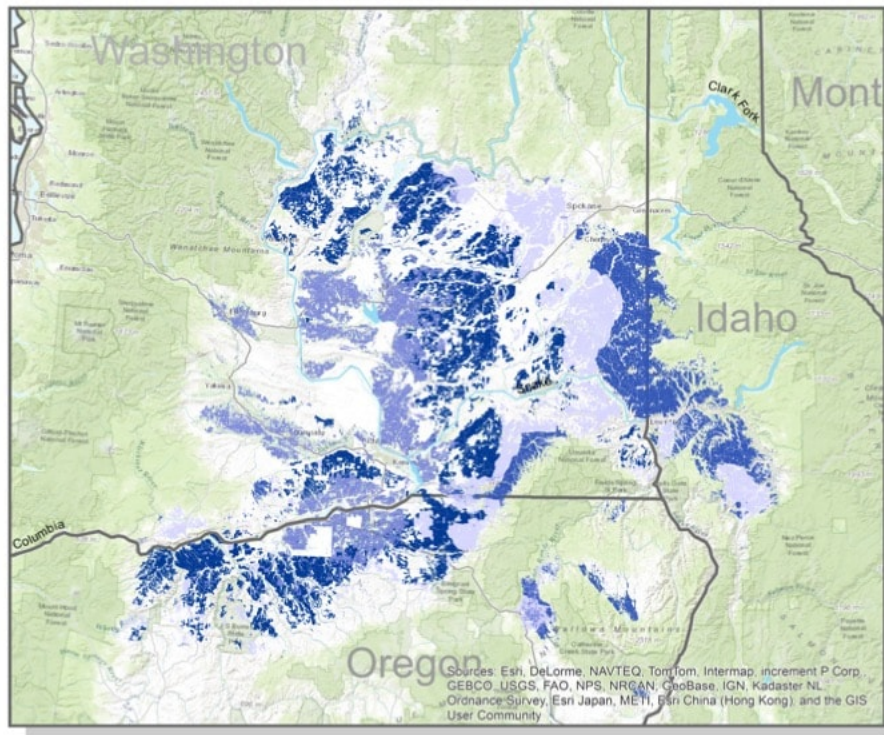
- Some questions needed a mean value
- Some questions needed a count and sum value – to create percentage breakdowns per AEC region



Map #1: I consider myself to be an aggressive adopter of conservation practices



Map #1: I consider myself to be an aggressive adopter of conservation practices



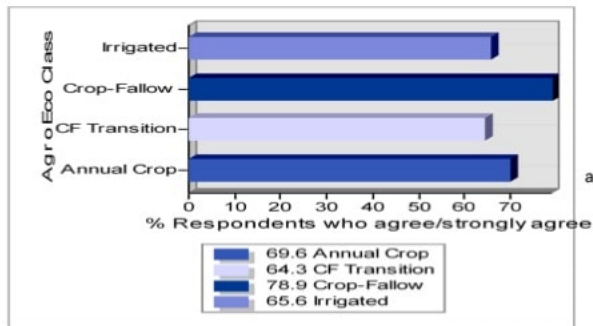
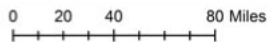
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Total survey respondents: n=900.
Total survey respondents within 4 class area: n=518



Date: 11/6/2016



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