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## A Machine Learning Method of Determining Causal Inference applied to Shifts in Voting Preferences between 2012-2016

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**Abstract.** This research investigates the application of machine learning techniques to assist in the execution of a synthetic control model. This model was performed to analyze counties within the United States that showed a voter shift from a majority of Democratic voter share to Republican between the 2012 and 2016 election cycles. The following study applies two steps of machine learning analysis. The first, which is the *treatment discovery process*, leverages a Random Forest to evaluate feature importance. The second step was the execution of the synthetic control model with two predictor variable lists. The first was the *parametric* method: a hand curated predictor variable list based on domain knowledge. The second was the *non-parametric* method: all available predictor (descriptive) variables were used. The Random Forest treatment discovery process resulted in two uncommon variables applied as treatment effects: WIC women enrollment and a decrease of vegetable farm acreage. The opportunity to research these atypical treatment variables allows for the potential of surfacing counterfactual arguments for further research. The use of the *parametric* and *non-parametric* methods offers a system of comparison for the research in this paper. The result from the decrease in vegetable farm acreage treatment variable was negative for the non-parametric model. However, the parametric model did show strong statistical evidence towards a treatment effect from the decrease in farm acreage. It is likely that the decrease in vegetable farm acreage is a proxy for poverty or a population density metric. These data results suggest that this model was likely suffering from omitted variable bias for representation of one or both of these metrics in the predictor variable list. The WIC women enrollment treatment variable investigation resulted in the synthetic control model having difficulty in forming a synthetic control comparison. These results suggest there is a fundamental difference between those counties used to create the synthetic control and the other counties that saw a treatment effect. Additional research needs to be performed, and it could result in a different application of the data for use in a synthetic control model. The results of this study, while not surfacing causal inference, did open questions for further research. Given the opportunity these joined causal inference and machines learning practices could continue and potential offer assistance to traditional causal modeling methods. Allowing researchers to understand data and relationships between the data more intimately, theoretically allowing for new causal inferences to be discovered.

## 1 Introduction

Much of traditional machine learning does not attempt to address causality. Recently there has been a great deal of work bridging causality and the machine learning communities. We continue that trend by utilizing both traditional machine learning techniques and tools for determining causal inference. This is a productive technique because when a causal mechanism can be identified, the model being built has the potential for stronger guarantees and greater interpretability. Causal analysis offers a more robust analysis such as the potential to evaluate the hypothetical result had a treatment not been applied. In this research we consider the election prediction methods and utilize causal modeling tools in conjunction with machine learning to evaluate previously undetected relationships.

The original motivating question of this research is the directional shift of voting in 2012 to 2016. The data for this study includes changes from 2012 to the 2016 presidential election and counties that deviated in large vote changes with treatments of interest. This shift in voter choice in counties can be dramatic and there are quite a few inquiries into why and how that shift occurred. However, in their article, Sances offers perspective on how often counties can switch and found it was not deeply abnormal that several hundred counties that voted for Obama in 2012 than voted for Trump in 2016 [1]. One major point of interest in the changes between 2012 and 2016 described by Sances and by Campbell was the important factor of the subpopulation of white voters without college education [2][1]. Both sources continue to cite other experts in the field of election forecasting who found white voters with no college education a deciding swing in the 2016 election, having previously voted as a group more for Obama in 2012. All these factors including education were essential factors in our research, for building a saturated set of factors to measure treatment effects against.

Many factors contribute to the outcomes of public elections and voter behavior. Predicting voter behavior is highly sought after, and entire industries of voting and electoral psychology have evolved to understand elections [3]. Traditional variables leveraged in predictions for a presidential or congressional outcome often consist of many categories such as: economic indicators, ideological preference, biographical information of candidates, incumbency, and approval rating of the president [4]. These all fall into characteristics about the candidate and competitor in combination with economic and cultural factor. Another common method used is poll dampening which combines the poll data and allows the lowering of forecasting mistakes [5]. Regression models and Bayesian statistics are used for current political candidates to determine the position of different voting groups. Additionally, common predictors are the presidential approval rating and a public opinion poll variable. Bayesian statistics comes into play to estimate the posterior distribution of what will be considered the true proportion of voters expected to vote in each state for each represented party [6]. These traditional methods are not robust to shifting prediction variables between observed time periods. When there is a fundamental change to an

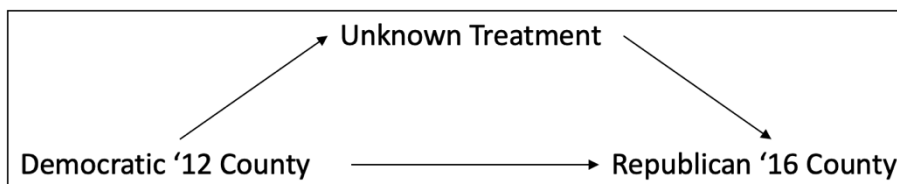
environment's underlying variables those models can no longer be applied to the data for prediction [7].

These statistics are a descriptive analysis showing the correlation between variables. When these prediction methods are used there is no investigation into potential treatment effects that could be causing a changing dependent variable. This means these models cannot provide researchers with the opportunity to imply causal inference. This study uses a synthetic control process for the framework of a casual method. The synthetic control practice is the process of comparing an observed treated unit to a synthetic control object. This synthetic object is built with weighted descriptor variables of importance as they relate to the observed treated unit. The synthetic control method requires an identified treatment variable in the algorithm. The synthetic control approach is often used with data that has been thoroughly researched with an identified treatment for investigation.

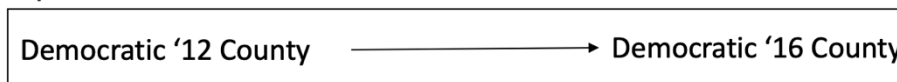
This paper raises the idea of evaluating uncommon variables as applied treatments to evaluate a causal relationship that moves past the traditional descriptive statistics. As researchers with less domain knowledge, we created and executed a *treatment discovery process*. This was to see if Random Forest could be utilized for treatment variable identification. In theory, this would allow for future researchers to use higher volumes of atypical treatment discoveries that could identify new variables that describe different causal mechanisms. These potential new causal mechanisms would be previously undiscovered and would open new research questions for industry experts.

Some treatments of interest identified in this study surrounded food safety and support. The treatment variable would be classified as the cause for a county's shift from a Democratic to a Republican outcome from the '12 to '16 election cycles. Through the *treatment discovery process* the variables identified for potential treatments were: *Special Supplemental Nutrition Program for Women, Infants, and Children* (WIC) and the change in vegetable farm acreage.

#### Observed Behavior



#### Synthetic Control



**Fig 1.** Representing the investigation for the treatment causing the Democratic to Republican voter share change between the 2012 to 2016 election cycles. Note the unknown treatment that

will drive the applied treatment discovery. See more details in section 4 *Method*.

The synthetic control method traditionally uses highly researched and hand curated predictor variables. This is called a *parametric* method for predictor variable selection. This means industry experts leverage domain knowledge to identify the independent variables with correlative relationships for use in the synthetic control process. From a machine learning perspective this was another opportunity for the application of algorithms in order to help researchers utilize additional data. This could give future researchers the ability to use all available descriptive data for prediction algorithms instead of a subset of variables. The *non-parametric* method allows for a much less manual process for predictor variable selection. Hypothetically, with more data being used and less manual oversight, hypothetically, researchers could surface new causal mechanisms.

The full and condensed *non-parametric method* results of the vegetable farm acreage treatment models showed no evidence of a causal effect. This implies that the change (decrease) in vegetable farm acreage did not have causal relationships with the Democratic to Republican voter share change in the observed county. In contrary, the full and condensed *parametric* methods for the vegetable farm acreage treatment effect model did display a causal effect on the synthetic control county. This is interesting because it introduces a line of questioning into what could be causing the *parametric* method to show a treatment effect while the *non-parametric* method did not. One possible explanation for this that would require additional research would be to study if the decrease in vegetable farm acreage is standing as a proxy for poverty or population density. This would mean the *parametric* method is possibly suffering from omitted variables bias in the predictor variable list.

The full and condensed *parametric method* results showed a failure to create a synthetic control county for comparison to the observed county. This means the 25% quantile group of counties used to create the synthetic control were uniquely different than the remaining 75% of counties not selected to contribute to the donor pool for synthetic county creation. When there is a strong difference in descriptive variables between the treated and untreated groups the synthetic control algorithm cannot properly build and execute a synthetic control unit. This means there is further research to be done into those counties and the underlying data to understand why the synthetic control method would not work for building our control group. Additional research questions to pursue would be to identify the descriptor variable differences and review the data for omitted variable bias. This research question could represent its own study and would help to understand the fundamental differences causing the failure of a synthetic control creation.

The biggest challenge presented was finding potential treatment variables. The data collected by the U.S. Census Bureau made it easy to identify those descriptor traits that could be used as independent variables. However, atypical variables for the *treatment discovery process* with the same granularity were difficult to obtain. Overall, the research did not identify new casual mechanisms, the variables selected either indicated no treatment effect or failure to produce a synthetic control. However,

in executing our methods we moved into a much deeper understanding of these data. The research presented the opportunity to run down multiple other research paths: understanding potential omitted variable bias of our *parametric* method, a foundation to execute other potential treatment variables, and an alteration to our *treatment selection process* to be inclusive of both our potential treatments and predictor variables when identifying variables of importance. These methods used could assist in evolving the traditional synthetic control method by allowing researchers to identify potential treatments and predictor variables with machine learning techniques.

## 2 Background

Many socio-economic factors contribute to voting trends in the US. As the United States becomes more divided secondary societal traits may surface as a better voting indication for a neighborhood, city, or state than traditional explanatory and predictor identifying characteristics of a geography. Ideologies affecting voter results are a new area of research for economic analysts [8]. It is difficult to measure a voter's ideologies outside of religious affiliation, however, examining different secondary societal factors can help group individuals in commonalities and/or ideologies otherwise overlooked. This can entail variables across a wide spectrum, such as most visited websites, common sexual fetish searches, and church attendance.

### 2.1 Causality Literature Review

#### 2.1.1 Causality in the Economic Domain

Economists who attempt to understand and predict events during any change of key environmental factors rely on structural causal models. In many cases, these changes are new or updated policies that will be implemented [7]. There currently exist various and well-developed tools for experimental and observational studies that estimate causal effects. In most cases a causal inference study encompasses a problem question, such as: if a political party executes a new minimum wage policy, how will it affect the economy? The issue has been stated by Holland as there is no way to observe individuals' same state with both the old and new minimum wage policy [7]. Many social science problems have a combination of prediction and causal inferences [7]. It to study both of these side by side and produce results that help have insight into a researcher's problem. At the core of evaluating causal and correlative metrics, it is essential to distinctly study and treat these metrics differently when attempting to elevate both the estimation and inference [7]. For an economist review and model. Athey (2015) argues that mathematics should be different between the predictive and causal metrics that are collected and modeled [7]. Athey (2015) also attempts to

combine causal inference and machine learning to get the best of both worlds when evaluating the prediction and causal results. The ability to create a cross validation process is one of the biggest challenges for this model creation.

Measures of uncertainty are often called point estimates or a standard error [9]. Different measures of uncertainty depend directly on the models that are leveraged. Ad hoc tools can lead to speculation and concerns around reporting uncertainty in this domain. Athey and Imbens (2015) attack this issue by presenting an alternative method in gauging the sensitivity of standard errors. They recommend replacing the standard measurements of sensitivity with a “scalar measure of the sensitivity of the estimates to a range of alternative models” [9]. Once this measure has been put into place the different models are then individually estimated. The proposed strength measurement for this would be the standard deviation of the previously outlined scalar measure. Additionally, they propose splitting the population samples into two subsamples on a covariate value. Once this is done, estimating each subsamples’ mode and then combining those results to create an estimate of the overall causal effect.

It will be important for researchers to judge sensitivity metrics accordingly in a base causal model. When considering the methods previous researchers have used, a similar adoption of scalar metrics used alongside standard deviations and subsections of populations would produce a robust study with results that could stand up against speculation.

Transportability is the issue of needing to be able to extrapolate findings across domains that differ in their causal characteristics [10]. This issue exists across all scientific study because any experiment’s results are then transposed onto a larger population for application, where conditions will always differ. Bareinboim and Pearl (2016) were able to defend their position that even though sample populations will be different, it is still possible to draw causal inference and apply it to a large population by leveraging “experimental knowledge from the source population” [10]. Bareinboim and Pearl outlined the solution to transportability as leveraging graphical and algorithmic criteria for deciding transportability; “fusion in nonparametric models”. They also suggested automated procedures for extracting transport formulas outlining what would need to be collected in all of the underlying studies; and lastly, some way to assure when the algorithm fails, fusions will also fail and therefore prevents that data merge despite a large sample size (which is often used as an excuse to move past assumptions) [10].

Predictive models for election campaigns from congressional positions to the presidential election can be easily built and compared against each other. It has been observed that the models themselves vary in accuracy and Mean Absolute Error (MAE), however, their output overall is very similar [8]. Quinn found in his comparison that while the more simplistic kNN model came ahead with accuracy, the random forest model triumphed when considering the MAE. When comparing these two types of models to a super learner model, the super learner model outperformed the individual models in both accuracy and MAE. However, it is important to

recognize that the super learner model combines results to create a final model, and therefore, insight into different variable importance is not available [8].

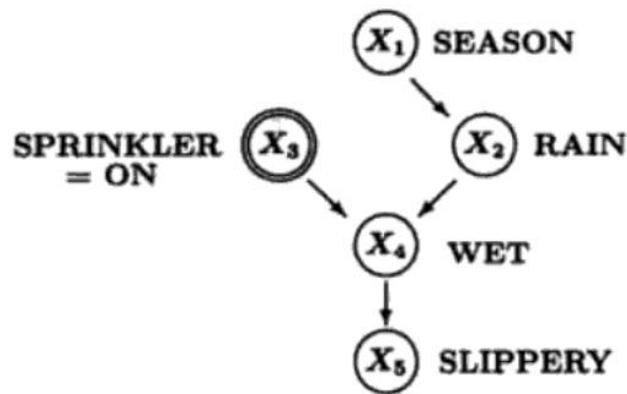
Structural models built and used for US congressional campaigns allow for the visibility into the system that produced the vote results that are analyzed. This allows researchers to determine the causal impact of differing metrics [8]. Quinn evaluated the effect of candidate campaign expenditures, incumbency, and voter registration on final vote share for US congressional campaigns. Each factor offering significant effects on final vote share and political choice in final vote choices [8]. Additionally, and uniquely, causal modeling allows for counterfactuals arguments to be developed based on what the results of the structural causal models return. In the case of Quinn, they were able to reveal republicans had multiple opportunities where they could have increased campaign spending by a small amount and a victory in an otherwise lost district becomes more likely than a case with less campaign spending [8]. This insight is an example of something that would only be possible through structural causal modeling.

### 2.1.2 Causality with Graphical Models

In *The Book of Why: The New Science of Cause and Effect*, Pearl discusses the true differences between correlation and causation to explain the true meaning of causality. He argues that it has a role in revolutionizing science and will revolutionize artificial intelligence and machine learning [11]. The author discusses using “causal inference” in the Computer Science domain to address seemingly straightforward questions encountered in everyday life. At the root of the answer to these questions is the idea of causal inference. Through real-world examples such as the beginning of vaccination, Pearl explores various causal inference techniques and shows how causal inference can be used to better understand why things are the way they are [11].

In *Causal Inference in Statistics: A Primer*, Pearl et al. (2016) builds a statistical basis to causal modeling that allows generation of insights related to causality otherwise not explored in general statistical models. Pearl introduces structural causal models as a framework that allows a model to declare that if X in any way appears to influence Y's value, one can say X is a causal variable of Y [12][13]. Pearl in his more rigorous causality also explains these concepts including a graphical causal model. Graphical causal models are an essential tool to understanding causal relationships that can and do inhabit the data of interest. One example below from causality, demonstrates how multiple variables can influence a depict results/conclusion, and several of those variables as transient causal variables. For example, in **Fig. 2** below the season of an area can influence the likelihood of rain which itself then influences whether a sidewalk is wet.



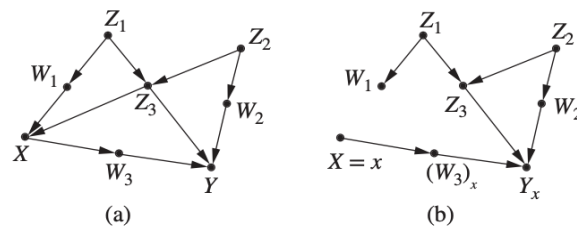


**Fig 2.** Figure 1.4 from Pearl's *Causality 2/e*, demonstrating a graphical causal model [13].

Pearl posits there is a ladder of causality, whereby statistical models move from association or correlation at the lowest rung to the level of intervention in a subject finally to the highest level of causality of a counterfactual. At the lowest rung association or correlation is simply the understanding that when X variable occurs, Y also occurs at some expected probability. Whether there is any causation between the two variables is out of the question at the level of association alone, there is no model or question of causation to test when dealing with associations between variables.

At the level of intervention, the extent of an intervention on one variable can be tested on other variables. Intervention is often exemplified by the gold standard of many areas of study, the randomized controlled experiment.

Counterfactuals are one of the most powerful tools for understanding and working with causality. Counterfactuals are based on the logical underpinnings of a human ability to compare outcomes that did not occur if some different action had been taken. Using these same graphical causal models shown below, effects can be hypothesized if an intervention to set X to a value influences resulting variables. Counterfactuals in causal models may result in research and outcomes to posit potential causal models without access to an ability to intervene. Given a limit to observational data and the nature of the causal models being explored, understanding how counterfactual models will interact with the data in this research will be essential to interpreting outcomes.



**Fig 3.** Figure 1.4 from Pearl's *Causality 2/e*, demonstrating a graphical causal model [13].

. “Illustrating the graphical reading of counterfactuals. (a) The original model. (b) The modified model  $M_x$  in which the node labeled  $Y_x$  represents the potential outcome  $Y$  predicated on  $X = x$ ” [12].

### 2.1.3 Causality in Machine Learning

In his discussion of causality for machine learning, Schölkopf discusses the approach and place of causal modeling in machine learning [14]. Schölkopf relies on a focus of causal models explored and demonstrated plainly by Pearl [11][12][13]. In their exploration of human rights treaty ratification, Nguyen works within some of these ideas in the use of machine learning techniques with causal models. They explored structural causal models based on factors and time allowing past events of a variable  $Y$  caused by  $X$  then affect  $X$  in a later time period [15]. With models in place, they used substitution estimation and targeted maximum likelihood estimation based on Machine Learning techniques to estimate causal effect.

In the estimators using targeted maximum likelihood estimation (TMLE), they were able to use a breadth of machine learning tools including GLMnet, GAMs, random forests, and Extreme Gradient Boosting (XGboost) techniques to build results in the case of detailed causal estimates of how countries ratified treaties on human rights in the United Nations [15].

## 2.2 Voting Factor Backgrounds

Many factors have a causal relationship in terms of how voters act. In the current literature, there are a variety of factors that can affect both voter turnout and voter choice. Understanding these factors is the lynchpin to this research, unlike other projects in the realm of machine learning, much of the upcoming work is based on assumptions built on the research laid out below.

Before the choice of votes, whether or not a voter shows up to vote, is an important step that is not removed from the causal structure explored in this research. In their text *Who Votes Now? Demographics, Issues, Inequality, and Turnout in the United States*, Leighley and Nagler offer an important perspective on this behavior. They first argue that large portions of the US populace are unable to vote. In 2008 more than one percent of the otherwise eligible voter population was unable to vote due to disenfranchisement after conviction of a felony. In 2008, over eight percent of the voting-age population were non-citizens [16]. Among those eligible it is rare to see voter turnout of above 60% of able voters among a presidential election, other midterm elections or local elections have even more extreme decreased turnout. While there is not the expectation that this claim can always hold true, it is a fair margin on the periods of interest. Understanding the factors that lead this subpopulation to vote when others do not is as important as understanding who receives these votes. In his book, *Red State, Blue State, Rich State, Poor State*, Andrew Gelman agrees and cites Nagler and Leighley and argues that with 100% turnout, democrats would have a small advantage, meaning they make up a larger portion of nonvoting populations [17].

Among demographics, one of the starkest differences noted is between the poor and rich, where low-income Americans vote at a rate of less than 50%, while high-income Americans vote at rates of nearly 80% in presidential election years [16]. In addition, Gelman persuasively argues the income can vastly change the dynamic of which political party a voter will choose [17]. Where high-income earners will by and large vote for Republicans whereas lower-income earners vote for Democrats. The primary focus of Gelman's book is that this trend and lies in contrast to the fact that rich localities and states will vote for Democrats over Republicans. Gelman explores how income can be an important factor but is complicated by other socioeconomic factors that builds the more intricate picture of voting behavior.

Racial identity also influences those who turn out to vote with non-Hispanic white voters turning out more than black voters by a decent margin until recently when both voted at similar rates in 2008. Hispanic and other racial groups vote at much lower rates than white and black voters even as recently as 2008. Age is another important indicator of voter turnout with for the most part, the younger a voter is, the less likely they are to vote until voters become quite senior in their high seventies, they began to decline in voter participation. Finally, the authors noted the most educated voters voted at higher rates than less educated. The only major category that does not have an extreme difference is gender; with women having a slightly higher voting turnout than men [16]. However, sources agree there is a stark difference in gendered preference of voting parties. This difference is magnified in importance in the intersection of the urban and rural divide along gendered lines. Schwartz offers some complication in the ideas of race in America. In her writing on cultural heritage in voting preferences in 2016 asserts that while America may present itself as a melting pot of homogeneity, the cultural heritage many have through recent even generational immigration can affect a person's lens of the world and therefore voting behavior [18]. This racial dynamic persists by the normally simple categories of race captured in the American census. This work investigated and found that social behaviors such

as hostile sexism, authoritarian parenting choices, and an orientation towards social dominance predicted preferences of voting for Donald Trump over Hilary Clinton in the 2016 presidential election. These findings suggested that the impact of culture from heritage countries beyond America or the norms and values brought from ancestors old or recent through immigration is a significant component of voting decisions [18]. While not a specific point of exploration in this research, it is an important detail in discussion of race in voting preferences. Data sources built out of the census do not offer the level of cultural detail discussed by this author and those intricacies can be lost in broader racial categories that are the limit of this data.

However, intrinsic characteristics of the voters themselves demonstrated by Gelman, Schwartz, and others are not the entire picture of voting behavior. Berinsky and Lenz (2010) explore the causal link between education and participation in the voting process [19]. While others such as Gelman offer evidence of education's role in predicting voter behavior this is a mere association link that is offered while Berinsky and Lenz attempt to build a causal link between education and political participation. There is strong ongoing evidence that education is associated with political participation [16]. However, in their analysis, Berinsky and Lenz did not find strong evidence of education causing increased participation rates by using the Vietnam War draft as an event of study [19]. They found while there was a large increase in educational attainment in order to avoid the draft, which was an outside force that forced additional education, yet the additional political participation was not increased as a result of this change [19]. Nevertheless, education is an important associative factor to consider as this causal model research continues.

Events outside of voter characteristics also have roles to play. In his exploration of incumbency advantages, David Lee offers a regression discontinuity analysis to demonstrate how incumbents hold a huge advantage regardless of other circumstances [20]. This experiment also offers perspective on the creation of a pseudo experimental model that can be designed with observational election data.

### **2.3 Election Forecasting**

Election forecasting is a rich field from which to draw experience and evidence of the efficacy of factors that influence voting habits. Overall, the major goals of election forecasting diverge from the questions of interest in this paper. Where election forecasts predict with a focus on variables most associated with election outcomes, this research focuses on causal links in those outcomes. In his paper on the practices and principles of election forecasting, Lewis-Beck describes these features that define election forecasting [21]. In their wrap-up of the 2016 presidential election, Campbell et al. analyze the efficacy of various poll techniques and forecasts during that election. Overall, most models in the 2016 presidential election performed extraordinarily well sometimes dozens of days before the election in predicting an accurate national vote percentage [2]. While the forecast techniques alone do not offer a causal perspective to build this research off of, they offer a strong foundation of factors to consider in the models this research uses.

### 3 Data

The hypothesis proposed centers around investigating causal relationships between secondary societal factors and voter trends. The mechanism of this investigation is a synthetic control causal model. This research leverages two methodologies for predictor variables selection, traditional: parametric, and nontraditional: nonparametric. In order to execute the nonparametric process a variety of data to effectively build the models for prediction to test the casual treatment. These data sets can be divided into two categories: election results/voter trend data, making up the target variable for prediction; as well as a large variety of socio-economic indicators to build a comprehensive picture of a county that will act as the independent variables.

The election result/voter trends data was procured from the MIT Election Data and Science Lab (MEDSL). The data includes presidential election results from 2000 – 2012 on a county level. The variables contained in this dataset are year, state, state\_po, county, FIPS, office, candidate, party, candidatevotes, and totalvotes. The candidatevotes variable was transformed into percentage Republican and percentage Democrat for each county and election year. In the working data set the percentage Republican or Democrat act as the dependent variable and the data set in limited to the 2012 and 2016 election years.

X's:

The X variables that act as the base of the data set are demographic (DP03 table) and economic (DP05 table) data from the American Community Survey that is conducted by the U.S. Census Bureau. In the working data set the 2012 and 2016 editions of the American Community Survey were joined to the 2012 and 2016 election results data set, respectively. This provides a robust data set of 200 different demographic and economic estimators for 3116 counties for both 2012 and 2016 along with each county's respective Republican and Democratic percentage vote distribution.

The goal is to then explore the causation of these voter trends through causal modeling to a variety of other secondary factors. The focus of secondary societal factors narrowed in on a source of food environment factors produced by the department of agriculture. This corpus of factors encompassed a wide variety of factors that as an overall group produce a thorough visual of the food access and health through food access picture across the United States at the county level. Factors include:

- Distribution of restaurants of various types and distance to average resident.
- Availability of several types of stores, including traditional groceries, super-stores and convenience stores.
- Access to food sources of all types, restaurants, stores etc.
- Social benefits, access and use of benefits such as SNAP and WIC
- Local sources of food through local farms, farmers markets and other direct source

### 3.1 Data Prep

The main data sets worked with throughout this paper are the 2012 and 2016 versions of the DP03 and DP05 tables of the American Community Survey (ACS), provided by the United States Census Bureau. The 2012 and 2016 versions of the ACS are not perfectly identical and contain column names that are confusing and difficult to work with. These two datasets need to be identical in order to work in our methodology. Each column was renamed to be easy to understand and only columns that were in both the 2012 and 2016 data sets were kept. Each dataset contains the same columns and column names with a “\_2012” or “\_2016” appended to the end of each column name for the 2012 and 2016 dataset, respectively. Another issue with each data set is that the values within each column are aggregate numbers. For example, County X has a male population of 30,000. For standardization of all datasets, and to be able to reach the goal of comparing counties to each other, the values within each column need to be percentages. Therefore, each column that contained a numerical estimate of the population that fit that column description was converted into a percentage of the total population of the county. For example, if the total population of County X then the value for the male population variable described earlier would be 50% instead of 30,000. Several variables contain values representing a mean or median dollar amount. These variables were converted into a percentile ranking among each of the counties in the dataset. The total population variable for each data set was also converted into a percentile.

The dataset to build the target variable in this paper includes the 2008, 2012 and 2016 presidential election voting results by county. These datasets were manipulated to isolate each county name, the county FIPS code, the Republican voting percentage, democrat voting percent, and total votes casted. There is a row per county for each dataset. These variables in the 2012 and 2016 election results voting data are joined into the 2012 and 2016 ACS datasets, respectively.

The final results of this data preparation are a 2012 and 2016 dataset with identical columns from the DP03 and DP05 ACS tables as well as the identified variables from the election results voting dataset. Each dataset contains 3116 records with each record representing a county. This dataset is used throughout the method section.

The dataset used to identify treatment variables is the food environment atlas provided by the department of agriculture in its most current iteration as of early 2021. The variables in the food environment atlas includes several categories of variables addressing accessibility of food sources, access to food assistance measures, local sources of food available, and other availabilities of food given the location at hand. To build the set of treatment variables that was explored, a random forest model was built on only this set of variables to predict the target variable of difference in difference of republican vote share over election cycles.

## 3.2 Data Descriptions

Given our wide range of variables, an overview of summary statistics for each of our variables is available in the appendix. Readers can refer to the appendix for **Fig 9.1** for variable summaries for ACS 2012 dataset, **Fig 9.2** for variable summaries for ACS 2016 dataset and **Fig 9.3** for variable summaries for the food environment atlas.

The non-parametric model used a large list of 105 variables to build the model. That list is available for reference as **Fig 9.4**. The parametric model used significantly less variables and descriptions of these variables can be found below in section 3.2.4.

### 3.2.1 Dependent Variable

The dependent variable in all major models is a difference of republican vote share from previous election vote share values. This is built off of the vote counts for republican presidential candidates in the elections of 2008, 2012 and 2016.

**Table 1.** Summary Statistics for Republican

Measure	2012 Vote Difference	2016 Vote Difference	Difference in Differences
Mean	2.78	3.67	3.22
Standard Deviation	3.36	5.72	4.71
Minimum	-10.29	-37.62	-37.62
First Quartile	0.68	0.65	0.66
Median	2.54	3.67	3.00
Third Quartile	4.70	7.24	5.76
Max	28.37	23.12	28.37

In order to stabilize for natural shifts in political weather over election cycles we chose to evaluate our dependent variable on the difference in vote share for a county over election cycles. Therefore our 2012 vote difference variable, shown with summary statistics in **Table 1** below in the first column and **Fig 4**, is representative of the difference in republican vote share by county between the 2008 and 2012 elections with a positive value indicating an increase in vote share between election cycles. Similarly the 2016 vote difference is a measure of the difference between the 2012 and 2016 election and the distribution of this variable can be observed in **Fig 5**.

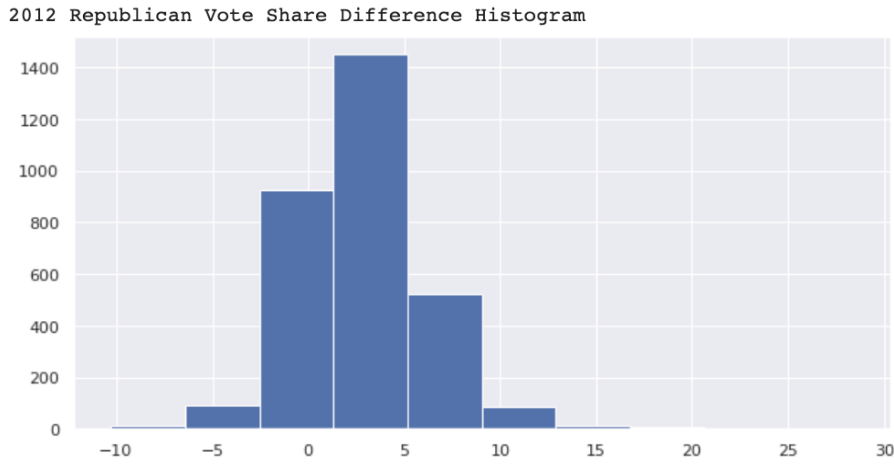


Fig 4. Republican Vote Share Distribution Difference from 2008 to 2012

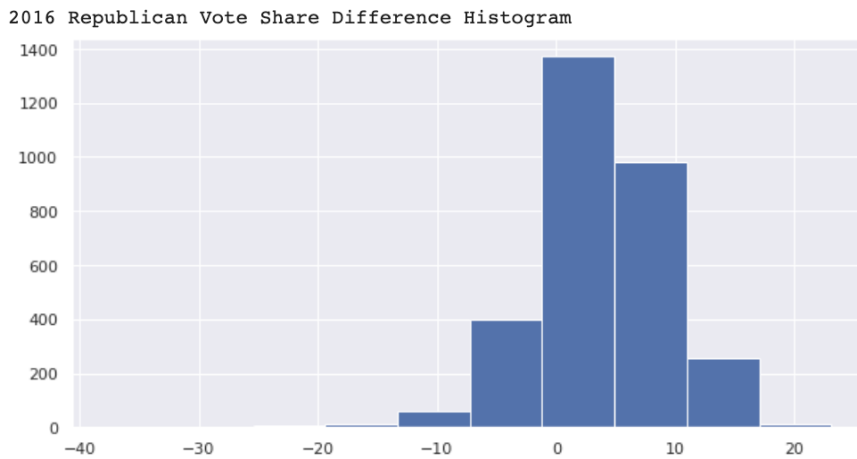


Fig 5. Republican Vote Share Distribution Difference from 2012 to 2016

These two vote difference variables were used to calculate our final dependent variable we used to measure treatment effect in our counties. The difference of differences in republican vote share in 2016 is a stable measure that demonstrates how, relatively to 2012 changes in republican vote share changed in a county. It can be explored with summary statistics in the third column of **Table 1** and its distribution can be observed in **Fig 5**.



It is quite clear when investigating the distribution of our dependent variable we expect most counties to have a relative change of a positive value, which indicates that republican vote share increased relatively for the county at hand in the 2016 election. It will not be unexpected to find counties with large increases of vote share towards the Republican candidate, but ideally, strong treatment effects will demonstrate themselves in counties at the edges of our distributions compared to the synthetic build. While we originally began this research with the intention of searching for causal effects of counties moving towards increase in Republican vote share and how this manifested in the 2016 election, our final analysis was the focus on a causal effect of any direction in our data.

### 3.2.3 Non-Parametric Model Variables

We used over one hundred variables in our non-parametric model, distributed over several types of categories. These categories include variables related to age, sex, race, education, occupation, income, commuting and voting behavior. This saturated variable set is listed completely in **Fig 9.4** in the appendix. Other variables described, including the parametric model chosen variables does exist in the non-parametric variable set.

The variable list includes the dependents of difference in Republican vote share over election cycles. The treatment effect is measured by the change in difference of Republican vote share over election cycles.

### 3.2.4 Parametric Model Variables

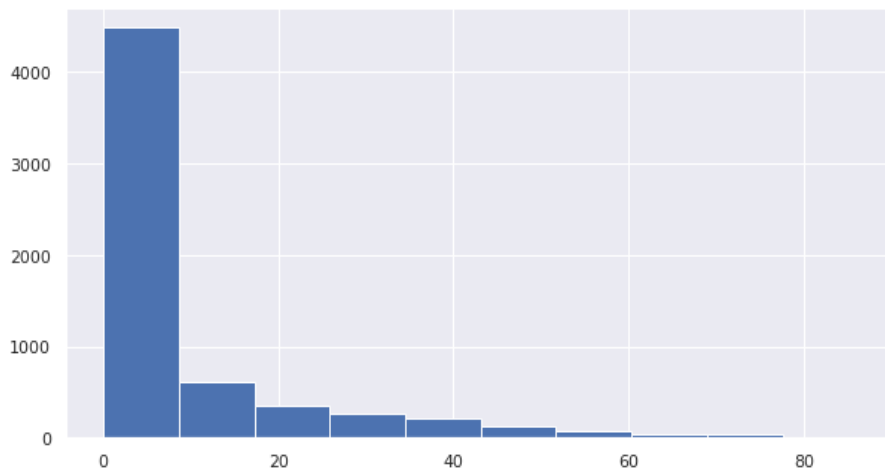
The seven variables chosen for the parametric model based on domain knowledge are listed in summary below in **Table 2**.

**Table 2.** Summary Statistics for Parametric Chosen Variables

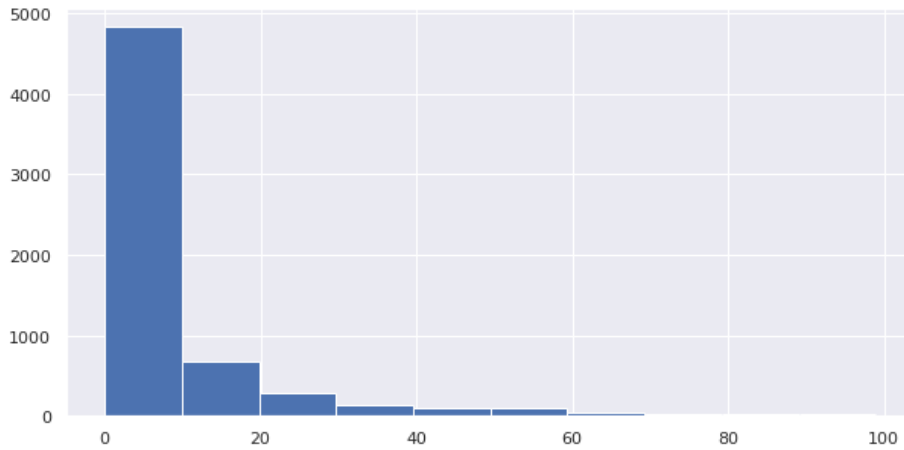
<b>Measure</b>	<b>Black Population</b>	<b>Hispanic or Latino Population</b>	<b>Median Nonfamily Income</b>	<b>Male – Some College</b>
<b>Mean</b>	9.08	8.66	50.83	29.28
<b>Standard Deviation</b>	14.59	13.49	28.02	5.95
<b>Minimum</b>	0.00	0.00	1.02	6.2
<b>First Quartile</b>	0..58	1.76	26.65	25.39

<b>Median</b>	2.20	3.51	50.79	29.34
<b>Third Quartile</b>	10.44	8.76	75.03	33.16
<b>Max</b>	86.20	98.96	100	60.28

<b>Measure</b>	<b>Rural</b>	<b>Total Vote</b>	<b>2012 Republican Vote Share</b>
<b>Mean</b>	59.40	57.09	61.46
<b>Standard Deviation</b>	31.48	9.73	15.35
<b>Minimum</b>	0.00	15.21	4.09
<b>First Quartile</b>	34.39	50.72	52.07
<b>Median</b>	60.59	57.25	63.49
<b>Third Quartile</b>	88.54	63.59	72.93
<b>Max</b>	100.00	116.93	96.03

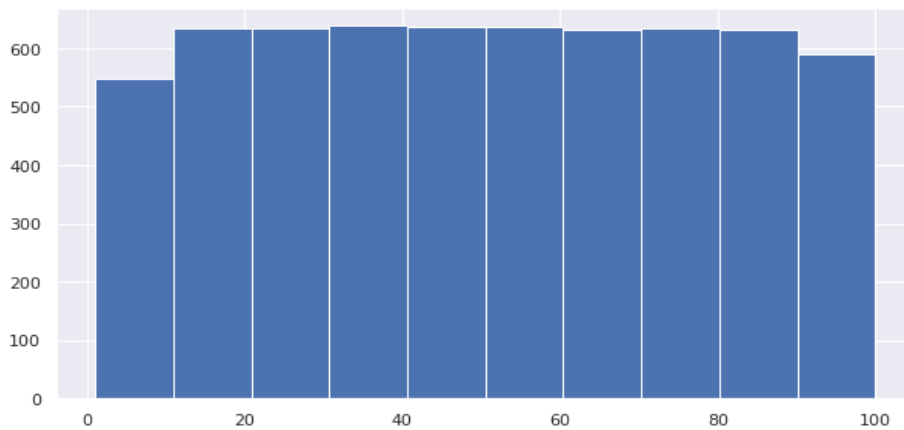


**Fig 6.** Black or African American Proportion of County Histogram



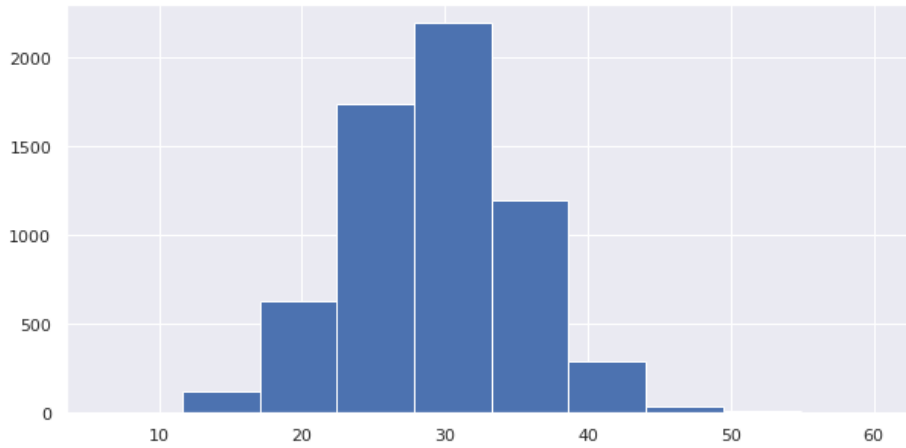
**Fig 7.** Hispanic or Latino of Any Race Proportion of County Histogram

Most counties have a very low population of black and Hispanic residents. Both racial subgroups demonstrate similar skew in distribution and in summary statistics. Only a small subset of counties have a majority population from either of the racial subgroups. Despite their similarities, both represent different patterns and behaviors in demographics across counties in the country.



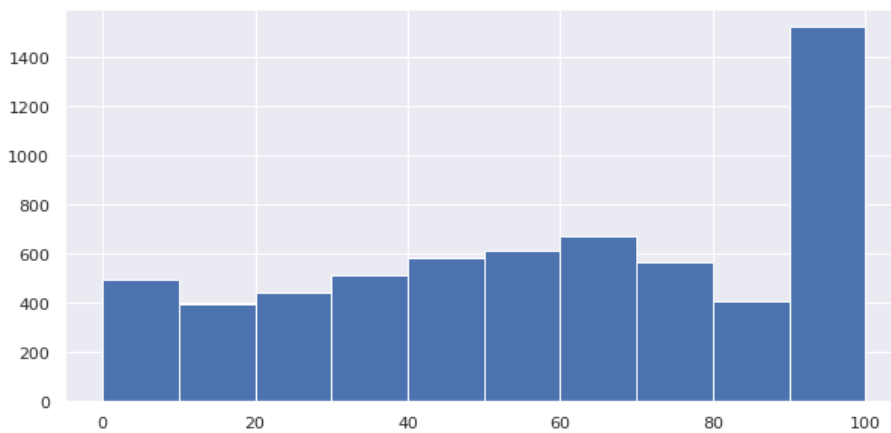
**Fig 8.** Median Nonfamily income histogram

The distribution of median income of nonfamily households is fairly uniform, it has the potential to be one of the least indicative variables in this chosen parametric variable set. However, median income is an important indicator of the economic reality of the county at hand and essential for model analysis.



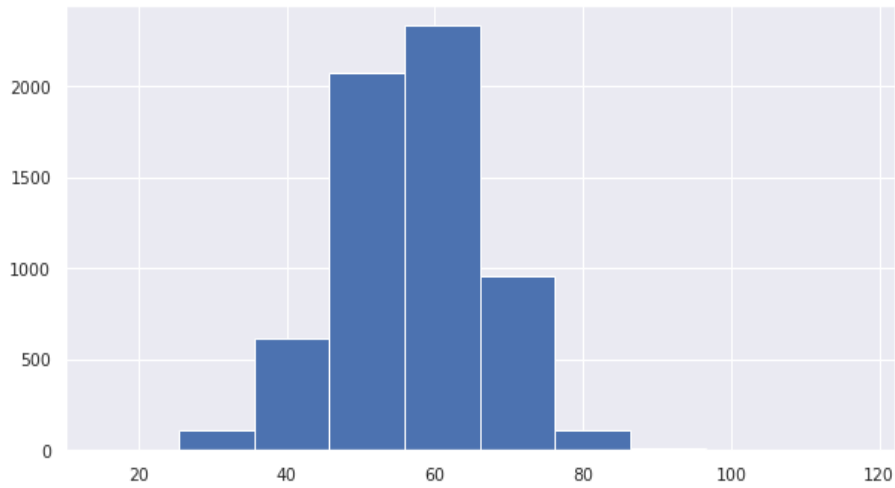
**Fig 9.** Some college Male Proportion Histogram

In further discussion in section **2.2 Voting Factor Backgrounds** the importance of education as a factor of vote choice is discussed. In addition, men with some college education was an important subgroup of relevance to the 2016 electoral outcome. The distribution is normal with a peak at around 30% of the subpopulation of the county.



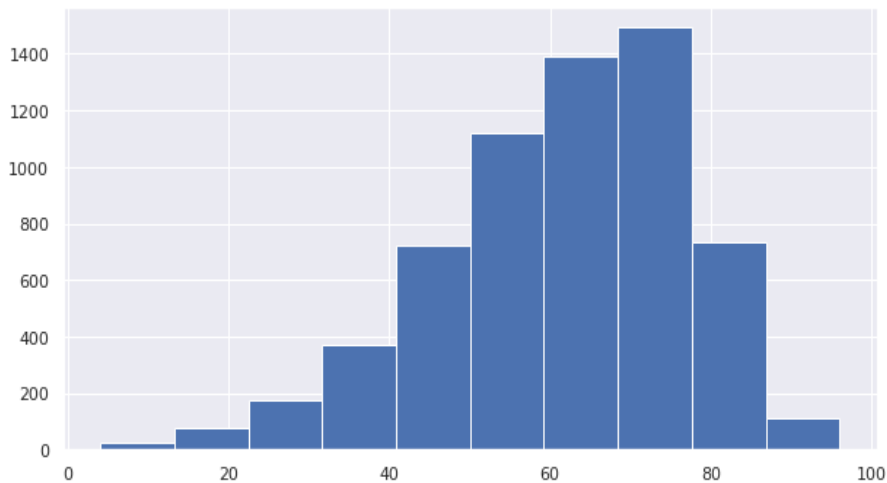
**Fig 10.** Rural Population Histogram

Rural population proportion is essential to understanding the density of our counties and the feature rural, with the distribution above. Overall, the distribution is subtly normal with a large spike at high levels of rural distribution. This indicates we have a large proportion of counties that are almost entirely rural.



**Fig 11.** Total Vote Histogram

The total vote variable is an indicator of the proportion of a county population that voted in the 2012 election. We have a small number of counties with voting proportions above 100%, given that the census sourced data is an estimate and voters maybe new residents, we can assume the volatility of populations



**Fig 12.** Past republican share histogram.

The final variable in the parametric variable set is the republican vote share from the 2012 election. This variable provides an underlying set of information for the partisan

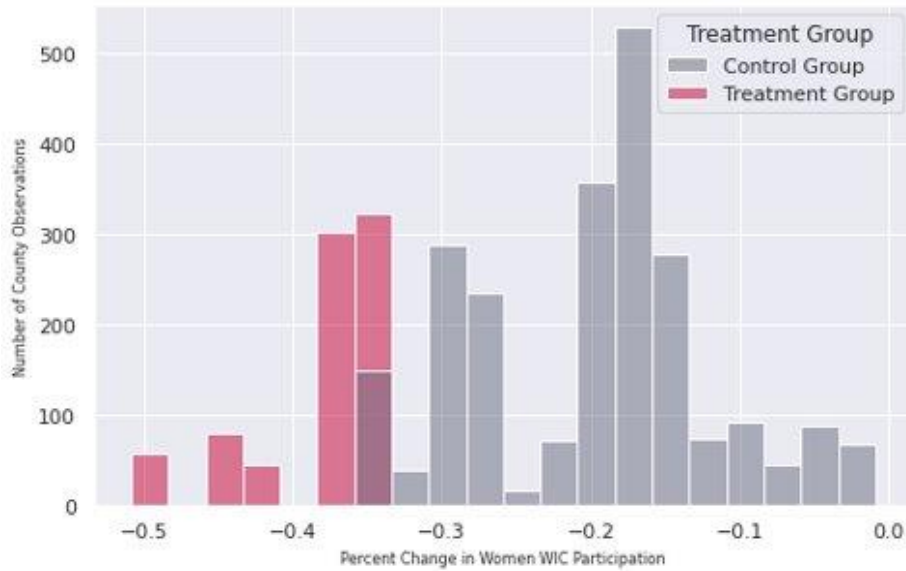
makeup of the county in 2012. Many counties have high proportions of Republican vote but few counties have low proportion or close to 100% proportion.

### 3.2.4 Treatment Variables

The selected treatments we investigated for effects in our difference in Republican vote share. The first treatment is the percent change in WIC enrollment by women in a county from 2014 to 2016. The second treatment of interest listed is percent change in vegetable farm acreage from 2007 to 2012.

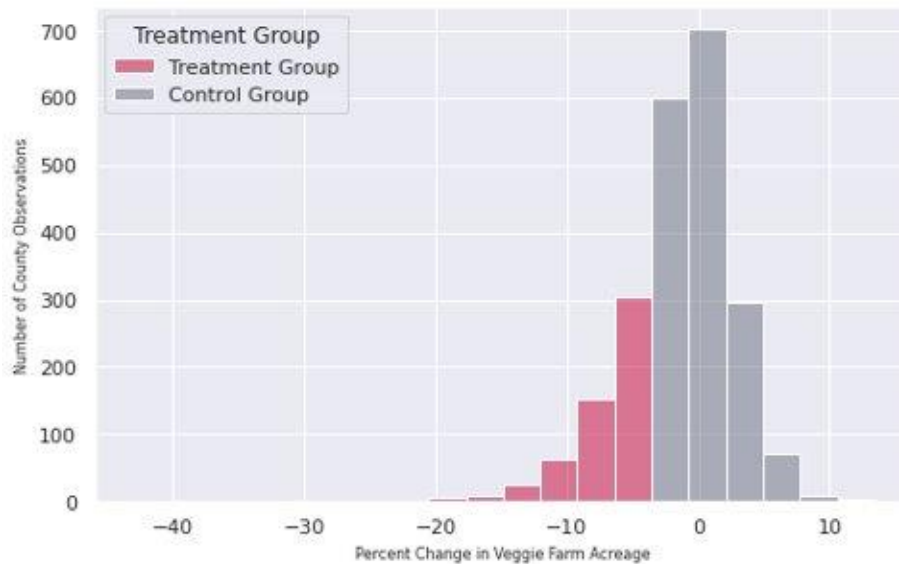
**Table 3.** Summary Statistics for Treatment Variables

<b>Measure</b>	<b>WIC Women Enrollment 2014-2016</b>	<b>Vegetable Farm Acreage 2007 - 2012</b>
<b>Mean</b>	-0.24	-1.45
<b>Standard Deviation</b>	0.11	4.23
<b>Minimum</b>	-0.51	-43.11
<b>First Quartile</b>	-0.34	-3.57
<b>Median</b>	-0.22	-0.88
<b>Third Quartile</b>	-0.17	1.28
<b>Max</b>	-0.01	13.40



**Fig 13.** WIC Women Participation Distribution

As seen above, the WIC women enrollment measure has universally declined across all counties in the given time frame. Our chosen metric of a treated county included all counties in the bottom quartile of the change in enrollment. Those counties are highlighted in red above, and indicate a relatively large decrease in WIC enrollment in the women of the county at hand. The multi modal distribution of this variable is indicative that counties are not all changing equally and there is potential for regional differences of this variable.



**Fig 14 .Vegetable Farm Distribution**

Unlike WIC women enrollment, the vegetable farm distribution is single modal and distributed normally with slightly more counties having a decrease in farm acreage. The treatment was defined in red above, as those counties in the bottom quartile of percent change in acreage.

## 4 Method

### 4.1 Causal Models & Synthetic Control

In the research process we performed an evaluation of causal model methods to identify where machine learning techniques could be applied. The best performing method to determine causal inference is a random sampling and random assignment of treatment experimental design. When there is a treatment effect in this experimental framework, then researchers can imply causal inference. This type of experiment design can be costly and ethically questionable for real life applications.

Since the random sampling and random assignment design is difficult to apply statistics has developed casual tools that can be leveraged instead of this challenging study design. One of these tools is regression discontinuity. Regression discontinuity compares treatment and control subjects who have, what appear to be, the same observed characteristics. This makes the regression tool powerful when the



confounding variables are accounted in the model [22]. In the case of this voter share behavior study, it would be uncommon for the confounding variables to be similar enough to use the regression discontinuity model.

The difference-in-difference method is another tool that can also be used in order to imply causal inference when random sample/random assignment research design isn't available. This is a powerful tool and is often used to analyze naturally occurring events. This type of method requires the variables have a fixed relationship over time. Since election voter share results often are a result of population movements, education level changes, etc. [22], this method would not be a good fit for our proposed research question.

The synthetic control method was another reviewed causal model process for application of machine learning techniques. The synthetic control process assigns weighted variables for determining both predictor variables ( $v$  vector) and the variables of importance for creating a synthetic control ( $w$  vector). With these weighted vectors the synthetic control model is robust and can account for the effects of confounding variables changing overtime. Election voter shifts often have changing elements that contribute to the election results. Therefore, the synthetic control process is the most appropriate for this paper's analysis.

In the absence of a random sample / random assignment experiment design, synthetic control methods have become widely used and popularized with researchers in economics and social sciences. The synthetic control method is founded on the concept that using a combination of unaffected populations for a control object creates stronger and a more appropriate comparison when comparing to an observed treated population. In other words, the synthetic control method is used when there is an effort to evaluate the effect of a treatment (or intervention) by creating a hypothetical counterfactual control group in a comparative case study. Abadie states that "synthetic control methodology seeks to formalize the selection of the comparison units using a data-driven procedure" [23]. This data propelled procedure generates an opportunity for quantitative inference when researchers are leveraging comparative case studies.

#### 4.1.1 Weights

The synthetic control methodology requires weights to be assigned to individual subjects within a group that's average represents the counterfactual reality in which treatment was not received. These are called the  $W$  vector weights. The  $W$  vector weights must be nonnegative and equal one and are contingent on the additional weights that indicate the power of the chosen predictor variables. The predictor variables weights are the  $V$  vector weights. In order to create the weighted sum, researchers must compare outcomes and explanatory variables in the pre-treatment period of the potential counterfactual counties to the same variables in the pre-treatment period of the treated county.

There are many ways in which to choose weights, including subjectively. Another way, and preferred way, is to choose weights from all possible matrices to minimize the resulting mean squared prediction error (MSPE). Lastly, to assign weights is through a form of cross-validation which has a goal of preventing overfitting. However, this method results in penalizations for the number of variables being analyzed and the selected potential control groups. In this study the weighting method is automatically handled through the algorithm in the Synth package we used.

If the  $V$  vector weights result in the synthetic and control counties vector's matching closely, then the synthetic control model will allow for insight into the potential treatment effect. If the  $V$  vector weights appear very different this could result in the inability of the algorithm to create an effective synthetic control county. This means the treatment cannot be analyzed as a causal effect with the current descriptor variables used to create the counterfactual county in the research.

#### 4.1.2 Assumptions

When using the synthetic control method there are a series of assumptions that must be met to move forward with modeling. First, no similar change can be present in the counterfactual control group during the time frame of the examined treatments on the affected group. Second, the treatment that occurs in the affected group cannot have any implications on the counterfactual control group. Lastly, the variables that are leveraged to form the weights in the counterfactual control group must be the same and/or similar to those variables available to the studied treatment group.

#### 4.1.3 Procedure

These are the standard steps to complete a synthetic control model. We leveraged the Synth package in R in order to allow us to complete large portions of this processes automatically with minimal manual effort. The detail for each step can be found in the appendix **List 9.1**.

1. Identify dataset
2. Identify counterfactual units for synthetic control and weight of importance assignment ( $W$  vector).
3. Select the method for determining and assign predictor weights ( $V$  vector).
4. Assessment of the pretreatment period
5. Placebo tests on counties in the potential counterfactual group
6. Sensitivity tests to allow for further analysis of the integrity of the results

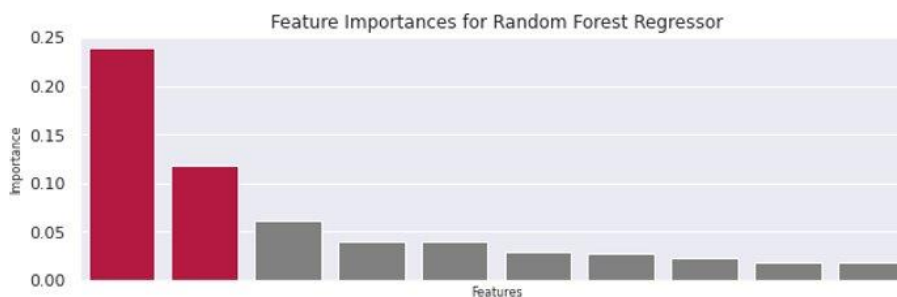
#### 4.1.4 Synth Package

The study leverages the Synth package in R. The Synth package requires the identification of a treatment variables and predictor variables to be used in the algorithm. A conclusive treatment effect is shown by an obvious divergence from the prediction of county election results at the time of treatment from the counterfactual county. The following sections give more background on the *treatment discovery methods*; as well as details surrounding the *parametric* and *non-parametric* predictor variable selection methods leveraged in order to complete the data requirements for the Synth package.

## 4.2 Treatment Discovery Method

Conventional methods for the synthetic control model use treatment variables that have been selection through a rigorous research process. Data is carefully selected and fitted to the synthetic control model and then tested for results. In the absence of sound domain knowledge this research is an attempt to help alleviate the amount of time needed to research those data and allow industry scholars devices that help them to leverage large volumes of data and reach conclusions more easily.

In this study our treatment variable was the unknown variable and therefore open for discovery. The most difficult part of obtaining potential treatments was identifying data that had been collected at the same granularity as our research data being used: U.S. Census Bureau county data. We were able to obtain those data for food safety at the desired level with the Food Environment Atlas from the U.S. Department of Agriculture. With these data we moved forward with a Random Forest variable importance identification. Below in **Fig 15** we depict those highest variables of importance, WIC women enrollment and vegetable farm acreage change when compared to the dependent variable: change in Republican voter share. The full variable importance outcome can be found in **Fig 9.5**.



**Fig 15.** The two highest variables of importance surfaced by the Random Forest Regressor were the vegetable farm acreage change and WIC women enrollment. The vegetable farm acreage change being of the highest importance.

These two features of importance will now be referred to as the treatment variables being studied for causal inference. Once both variables had been identified they were merged with the base dataset at the county level. Our full dataset now contains all descriptive variables of U.S. counties and the WIC women enrollment and change in vegetable farm acreage.

Using these treatment variables, we assigned each county to either a treatment or a control group based on the distribution of the treatment variable, this is depicted in these data with a binary indication of 1 or 0 respectively. Those that were identified as treated were selected by identifying those counties that were in the bottom 25% distribution of the data. For all counties that were assigned a 1 based on their quartile placement we aggregated that county into a single observed treatment county.

The final dataset contained:

- All descriptor variables of counties from census data
- Treatment identification for WIC women
  - a. Pre and post treatment effect
- Treatment identification for decrease in vegetable farm acreage
  - a. Pre and post treatment effect
- Dependent variable: Republican voter share

These full datasets can be viewed in **Fig 9.4** of the appendix.

### 4.3 Model Types

Two research methods were leveraged in these efforts. In order to test our new *treatment discovery method*, the research included a *parametric* predictor variable method against a *non-parametric* method. A *parametric* method is a traditional method used by industry researchers to curate the predictor variable list through domain knowledge. The *non-parametric* method is the approach to use all available descriptive variables as independent variables and allow the synthetic control algorithm to weight all independent variables systematically. At most, the researcher removes logically irrelevant and duplicate variables by hand. Allowing the algorithm to perform most of the work.

These different model types served as logical results checks against each other. Since this paper presented two new methods: *treatment variable discovery* and *non-parametric* predictor variable selection; a traditional parametric method allows for checks of results to determine potential errors in the new methodologies. With results that seemed to indicate a causal effect in the parametric method, research questions

surfaced about what could cause the difference in treatment effects between the two model types.

While working through the necessary methods the need for a more condensed method in order to run tests was necessary. Due to the high costs of processing time, we moved forward with breaking each model into a condensed version to allow easy checks of data and algorithm execution. The condensed method of each of model types uses the top 10% of the W vector weights produced to identify weighted importance between those potential donor counties. This reduces the number of weighted counties from 2300 to 230. Allowing for faster run times for testing and comparison of results.

#### 4.3.1 *Non-Parametric Approach*

The *non-parametric* approach is executing the synthetic control model with all possible potential predictor variables for weighting. This includes over 100 independent variables for consideration and weighting by the algorithm. This allows for the grouping of similar counties on many different factors, that would otherwise be omitted in the traditional *parametric* method. The Synth package creates and weights the predictor variables and identifies these values as a V vector. This process is different than traditional synthetic control studies due to its less selective nature of predictive variables.

There can be a benefit of using a larger set of variables, as opposed to using a small subset in the *parametric* approach, is that deeper relationships and similarities between counties can be surfaced. It would be extremely difficult to accurately group and compare similar counties based on 100 factors by looking at each county using the *parametric* method. Additionally, the *non-parametric* method allows for tighter clusters of counties that reflect a higher degree of similarity. Having groupings of counties as similar as possible is key to our methodology of leveraging machine learning algorithms. These tightly related groups offer a broader reach of investigative predictors and treatments.

Our hypothesis is that allowing a large list of independent variables to be leveraged could result in a more sounds predictor variable list as well as synthetic control results. This hypothesis is coupled with the goal to support and potentially broaden traditional research methods of causal inference with strong machine learning practices.

In the full *non-parametric* model, the research here leverages a list of 2300 counties as a donor pool for the creation of the counterfactual control county. In the condensed *non-parametric* model this research leverages only the top 10% of W vector weighted counties to contribute to the donor pool for the creation of the counterfactual control county. The condensed *non-parametric* model was created to save computing resources. Additionally, it offered insight into a comparison study between using all

data available rather than data that appears to be related through descriptive statistical analysis.

A full list of those counties used for our condensed and full non-parametric methods can be found in the appendix for the vegetable farm acreage treatment **Fig 9.6- 9.9** and for WIC women enrollment **Fig 9.14 - 9.18**.

### 4.3.2 *Parametric Approach*

As previously stated, the *parametric* approach is when researchers use industry knowledge to manually pair down and specifically select the predictor variables for use in the synthetic control algorithm. There are commonly leveraged variables for prediction algorithms across industries. When implementing an election prediction algorithm common variable leveraged in industry are: economic indicators, candidates' biographical information, approval ratings, and incumbency [4]. The variables to select within these categories are limited. These limitations are around what themes are being examined and also by a researcher's experience. The parametric method focuses on a small handful of variables where there is evidence of efficacy.

Variables of use include variables that speak to important racial factors, income factors in the county of interest, educational attainments, and indicators of the county size. For racial factors, the first variable included is the percentage of the population that self identifies as Black. The second racial factor is the combined percentage of the population that is Hispanic or Latino. Both racial factors are highly predictive of voter outcomes, as both racial groups while not entirely homogenous indicate regular and reliable voting preferences [16][17][18]. The income factor of choice is median family income. Income is a highly predictive factor of voting tendencies. Income for a family can be more indicative of the financial situation for families within the county overall and predictive of voting trends [17]. County urbanization as a measure of the population by the amount of land in a county offers a measure of how rural, urban, or suburban a county is. This measurement of urbanization is important because, despite previous factors of racial indicators and income, voters in different levels of urbanization and socialization have different voting patterns [17]. Educational attainment through a measure of adults with some college or more education is the next variable chosen. Educational attainment is a highly predictive factor for both participation in politics often through voting and how those votes will be chosen [17][19]. Finally, a voter turnout metric as a proportion of eligible voters is a key variable for this model. Voter turnout is an important indicator of outcomes as voter choice and how likely they are to vote are correlated outcomes [16][17].

To execute the *parametric* method, we selected those predictor variables based on industry standard that can be found in the below **Table 4**. The Synth package then creates and weights the predictor variables and identifies these values as a V vector. Including a parametric method allows this research to retain a checks system for the

heavy machine-driven techniques: *treatment discovery process* and *non-parametric* variable prediction execution.

In the full *parametric* model, the research here leverages a list of 2300 counties as a donor pool for the creation of the counterfactual control county. In the condensed *parametric* model this research leverages only the top 10% of W vector weighted counties to contribute to the donor pool for the creation of the counterfactual control county. The condensed *parametric* model was created to save computing resources. A full list of those counties used for our condensed and full parametric methods can be found in the appendix for the vegetable farm acreage treatment **Fig 9.10 - 9.13** and for WIC women enrollment **Fig 9.19 - 9.22**.

#### 4.4.3 Model Predictor Variables Comparison

The predictor variables chosen for the *non-parametric* and *parametric* methods are compared below in **Table 4**. We note that the predictor variables for the *parametric* method all fall within the categories that are contained within the *non-parametric* method. Our hypothesis being the ability to leverage all variables in a machine learning algorithm will be able to assist traditional researching in no longer having to apply as much front end research effort on predictor variable selection to be able to create and execute a synthetic control model. The full *non-parametric* variable predictor list can be reference in the appendix in **Fig 9.4**.

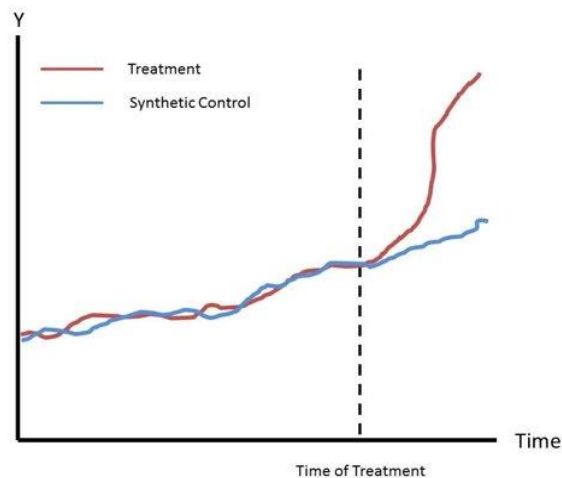
**Table 4.** Parametric Predictor Variables versus Non-Parametric Predictor Variable Categories

Parametric Predictors	Non-Parametric Predictor Categories
Voter turnout	Race
Republican voting %	Age
Rural pop &	Gender
Male some college %	Education
Median non-family income %	Income
Hispanic %	Occupation
Black %	Voting

#### 4.4 Dependent Variable & Results Interpretation

The dependent variable of measurement is the difference in Republican voter share from 2016-1012 subtracted from the difference in Republican voter share in 2008-2012. This is a difference-in-difference measurement for the dependent variable. Difference-in-difference dependent variables allow for more data to be included in the evaluation. If there is a common trend or shift happening to all the counties; for example, increase in Republican voter share, then that trend would be surfaced. As researchers we want to surface the most extreme trends. Using the difference-in-difference measurement for the dependent variable allows us to accomplish this.

Result interpretation is measuring the path of an observed object against a synthetic control's path. A synthetic control model takes place during pre-treatment and post-treatment time frames. The observed treatment object and the synthetic control object will show a near identical path during the pre-treatment time frame. After the treatment has been applied the graph will depict the path of the observed object as compared to the path of the synthetic control object. If there was a treatment effect these two paths will deviate from one another. If there is no deviation, then there is no treatment effect and subsequently no implied causal relationship between the treatment variable and dependent variable. **Fig 16** displays an example of a true result in treatment effect and implied causal inference.



**Fig 16.** Above we depict an examples of a synthetic control model showing a deviation from the observed treatment unit after the identified time of treatment. This result indicates a causal effect from the treatment.



## 5 Results

### 5.1 Prior Research

Previous research has been sparse regarding synthetic control causal models paired with machine learning to execute a treatment variable selection and predictor variable lists. We hypothesized leveraging machine learning algorithms within a traditional synthetic control framework could result in having a higher efficacy compared to only traditional causal models. Furthermore, we sought out ways to use machine learning practices to evolve the synthetic control method to make it more powerful for those researchers who lack customary domain knowledge for execution of their algorithms. With the inclusiveness of the research and methods contained within this paper we hope there are benefits from both sides of the research.

### 5.2 Model Results

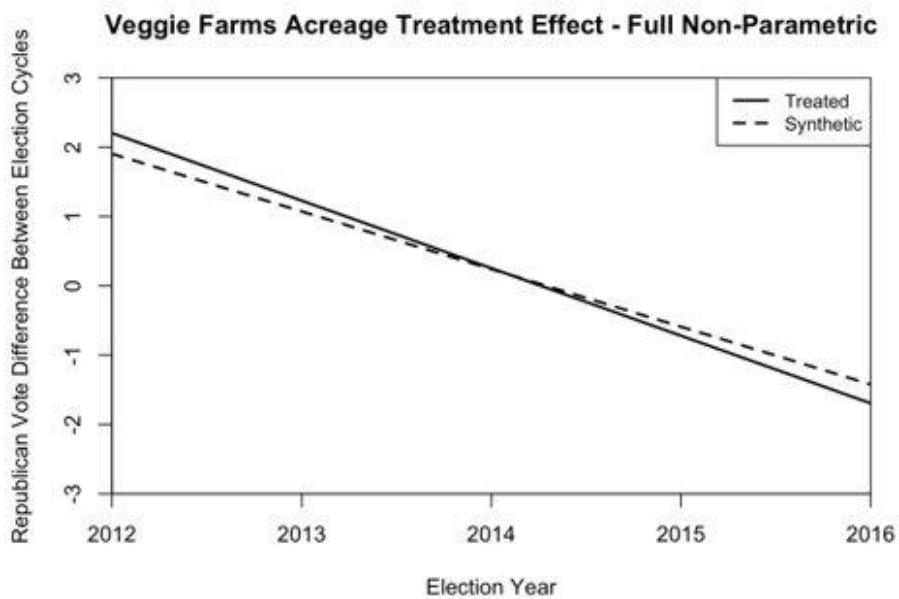
The below results explore various synthetic control model implementations with potential treatment variable: vegetable farm acreage and WIC women enrollment. The dependent variable is the difference-in-difference of Republican voter share from 2012 to 2016. This is calculated by the subtraction of the difference of Republican voter share from 2012-2016 from the different in Republican voter share between 2008-2012. This means those counties that result in a negative number in 2016 are showing an increase in Republican voter share. Subsequently, those counties that result in a positive number in 2016 indicate a larger share of Democratic voter share.

#### 5.2.1 Vegetable Farms Acreage Treatment Variable

These data and models explore the possibility of a percent change in the total acreage of vegetable farms within a county from 2007 to 2012 potentially causing a treatment effect resulting in an increase of Republican voter share between the 2012 and 2016 election cycles. These models explore the relationships between an observed treated county and a synthetic version of the treatment county. The observed county is an aggregate of each observation that falls in the bottom 25% of the distribution on the percent change in acreage of vegetable farms treatment variable distribution. In the full models the synthetic is made up of the other 75% of observations with differing weights determined by the synthetic control model. In the condensed models the synthetic county is made up of the top 10% of counties (~230) instead of the entirety of the 75%.

### 5.2.1.1 Vegetable Farm Acreage: Full Non-Parametric

The full *non-parametric* model did not show any significant difference between the treated (observed county) and the synthetic control. The outcome for both the synthetic and observed counties is negative. This means these data show there was a larger Republican voter share in 2016 than in 2012 for both counties. This indicates a false result or data depicts there is no evidence of a causal relationship between a large decrease in the acreage of vegetable farms and increased Republican voter share.



**Fig 17.** The full *non-parametric* model run with all possible control counties and all possible predictors does not show clear separation between the aggregated treatment county and the synthetic control county.

The  $W$  vector for the full *non-parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 5.** Top 10  $W$  Vector Weights for Donor Counties for Full *Non-Parametric* Model for Decrease Vegetable Farm Acreage

County	$W$ Weight
Carroll County, Georgia	0.072

Dakota County, Minnesota	0.061
Cochise County, Arizona	0.044
Kent County, Michigan	0.036
Jefferson Parish, Louisiana	0.035
DeKalb County, Illinois	0.033
Clermont County, Ohio	0.031
Harford County, Maryland	0.029
Pike County, Georgia	0.026
Blaine County, Idaho	0.025

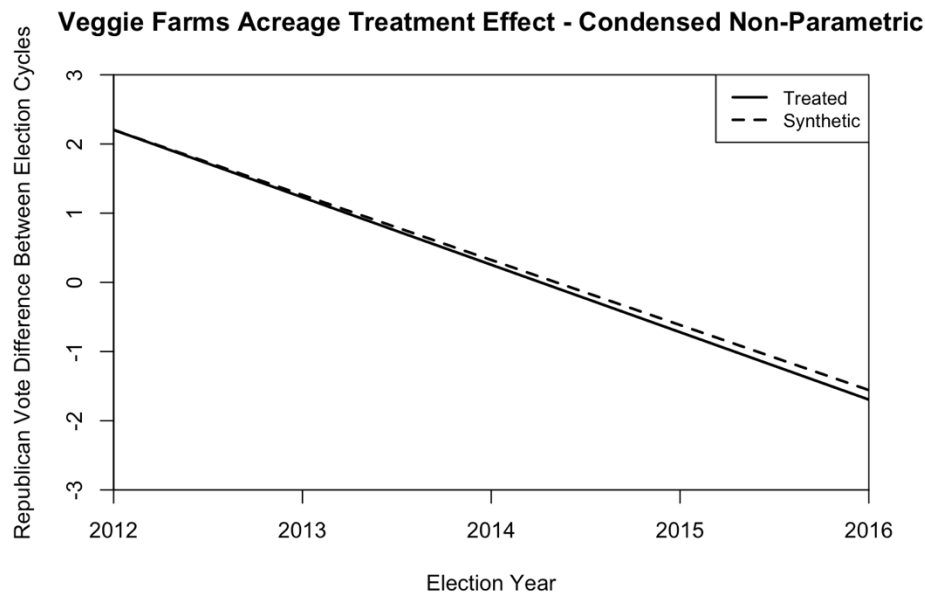
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Full reference can be found in **Fig 9.6** in the appendix.

The  $V$  vector for the full *non-parametric* model depicts those weights that have been assigned to the predictor variables in order to drive the synthetic control model's prediction algorithm. All  $V$  weights in this model were equally weighted at 0.01. Full reference can be found in **Fig 9.7** in the appendix.

### 5.2.1.2 Vegetable Farm Acreage: Condensed *Non-Parametric*

The condensed *non-parametric* model did not show any significant difference between the treated (observed county) and the synthetic control. The outcome for both the synthetic and observed counties is negative. This means these data show there was a larger Republican voter share in 2016 than in 2012 for both counties. This indicates a false result or data depicts there is no evidence of a causal relationship between a large decrease in the acreage of vegetable farms and increased Republican voter share.



**Fig 18.** The condensed *non-parametric* model run with a subset of control counties and all possible predictors does not show clear separation between the aggregated treatment county and the synthetic control county.

The  $W$  vector for the condensed *non-parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 6.** Top 10  $W$  Vector Weights for Donor Counties for Condensed *Non-Parametric* Model for Decrease Vegetable Farm Acreage

County	$W$ Weight
Atkinson County, Georgia	0.062
Bent County, Colorado	0.056
Appling County, Georgia	0.050
Barnwell County, South Carolina	0.049
Ashland County, Wisconsin	0.042
Bell County, Kentucky	0.038
Ashtabula County, Ohio	0.035

Benton County, Indiana	0.030
Barbour County, Alabama	0.028
Bamberg County, South Carolina	0.027

Full reference table can be found in **Fig 9.8** in the appendix.

The V vector for the condensed *non-parametric* model depicts those weights that have been assigned to the predictor variables in order to drive the synthetic control model's prediction algorithm. The below table depicts the top 10 weights for the predictor variables.

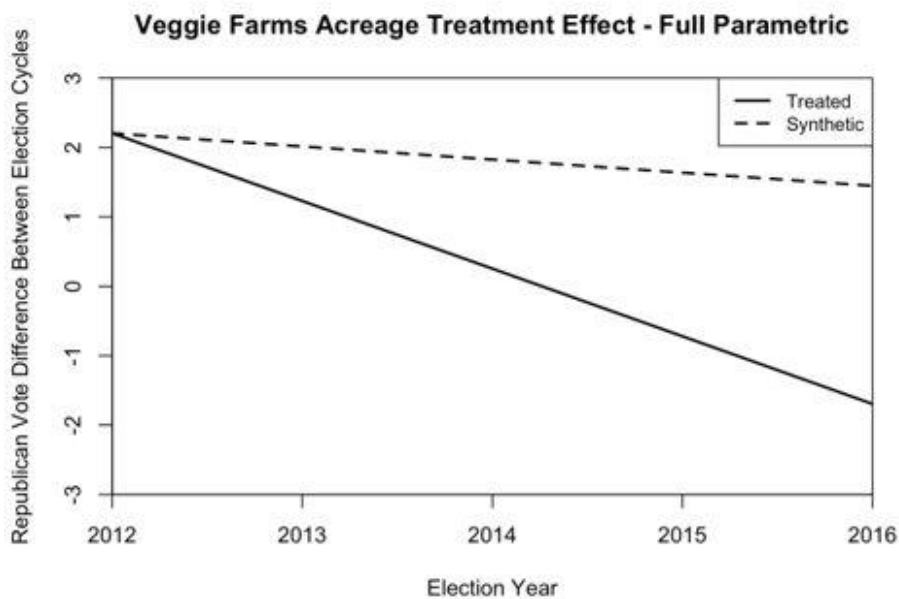
**Table 7.** Top 10 V Vector Weights for Prediction Variables for Condensed *Non-Parametric* Model for Decrease Vegetable Farm Acreage

County	V Weight
American Indian and Alaska Native	0.114
Industry Other Services Except Public Administration	0.082
Hispanic or Latino of Any Race – Cuban	0.057
Income Over 200K	0.044
In Labor Force – Armed Forces	0.036
Age 25 – 44	0.032
Mean Travel Time to Work	0.031
Service Occupations	0.029
Occupation – Management, Business, Science and Arts	0.021
Ages 10 – 19	0.020

Full reference table can be found in **Fig 9.9** in the appendix.

### 5.2.1.3 Vegetable Farm Acreage: Full *Parametric*

The full *parametric* model run with all possible control counties and a subset of manually selected predictor variables does show a significant difference between the treated (observed county) and the synthetic control. The outcome for the synthetic county is positive. This means the data indicates there would have been a larger Democratic voter share in 2016 than 2012 given the absent of the treatment: decrease in vegetable farm acreage. This indicates a true result or data depicts there is statistically significant evidence of a causal relationship between a large decrease in the acreage of vegetable farms and increased Republican voter share.



**Fig 19.** The full *parametric* model run with all possible control counties and a subset of manually selected predictor variables does show clear separation between the aggregated treatment county and the synthetic control county.

The  $W$  vector for the full *parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 8.** Top 10  $W$  Vector Weights for Donor Counties for Full *Parametric* Model for Decrease Vegetable Farm Acreage

County	$W$ Weight
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Virginia Beach County, Virginia	0.121
Grant County, Kansas	0.108
Kings County, California	0.052
Waukesha County, Wisconsin	0.018
St. Charles Parish, Louisiana	0.010
Fayette County, Georgia	0.009
Dakota County, Minnesota	0.007
Macon County, Alabama	0.005
York County, Virginia	0.005
Anoka County, Minnesota	0.004

Full reference table can be found in **Fig 9.10** in the appendix

The  $V$  vector for the full *parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm. In the below table the top 10 weights for the predictor variables.

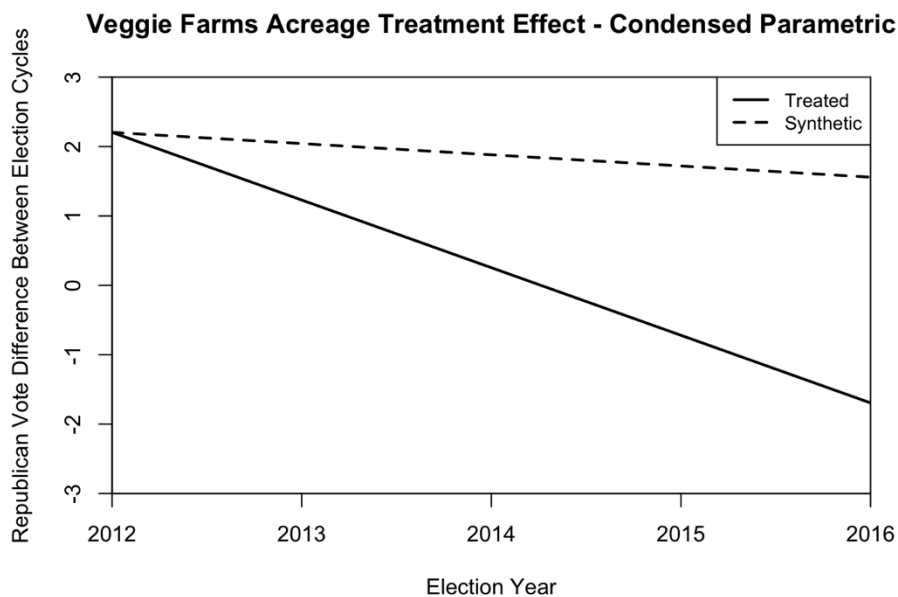
**Table 9.** Top 10  $V$  Vector Weights for Prediction Variables for Full *Parametric* Model for Decrease Vegetable Farm Acreage

Predictor	V Weight
One Race Black or African American	0.130
Hispanic or Latino of any Race	0.153
Median Non-family Income Dollars	0.130
Male Education Some College or Associates	0.139
Rural	0.139
Voter Turnout	0.153
Republican Vote Percentage	0.157

Full reference can be found in **Fig 9.11** in the appendix.

### 5.2.1.4 Vegetable Farm Acreage: Condensed *Parametric*

The condensed *parametric* model run with all possible control counties and a subset of manually selected predictor variables does show a significant difference between the treated (observed county) and the synthetic control. The outcome for the synthetic county is positive. This means the data indicates there would have been a larger Democratic voter share in 2016 than 2012 given the absent of the treatment: decrease in vegetable farm acreage. This indicates a true result or data depicts there is statistically significant evidence of a causal relationship between a large decrease in the acreage of vegetable farms and increased Republican voter share.



**Fig 20.** The condensed *parametric* model run with all possible control counties and a subset of manually selected predictor variables does show clear separation between the aggregated treatment county and the synthetic control county.

The W vector for the condensed *parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 10.** Top 10 W Vector Weights for Donor Counties for Condensed *Parametric* Model for Decrease Vegetable Farm Acreage

County	W Weight
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Caribou County, Idaho	0.126
Bay County, Michigan	0.098
Cloud County, Kansas	0.030
Florence County, South Carolina	0.015
Fond du Lac County, Wisconsin	0.013
Harford County, Maryland	0.011
Butler County, Nebraska	0.010
Butler County, Ohio	0.010
Effingham County, Illinois	0.008
Benton County, Oregon	0.008

Full reference table can be found in **Fig 9.12** in the appendix.

The V vector for the condensed *parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm. In the below table the top 10 weights for the predictor variables.

**Table 11.** Top 10 V Vector Weights for Prediction Variables for Condensed Parametric Model for Decrease Vegetable Farm Acreage

Predictor	V Weight
One Race Black or African American	0.661
Hispanic or Latino of any Race	0.109
Median Non-family Income Dollars	0.008
Male Education Some College or Associates	0.053
Rural	0.027
Voter Turnout	0.140
Republican Vote Percentage	0.002

Full reference can be found in **Fig 9.13** in the appendix.

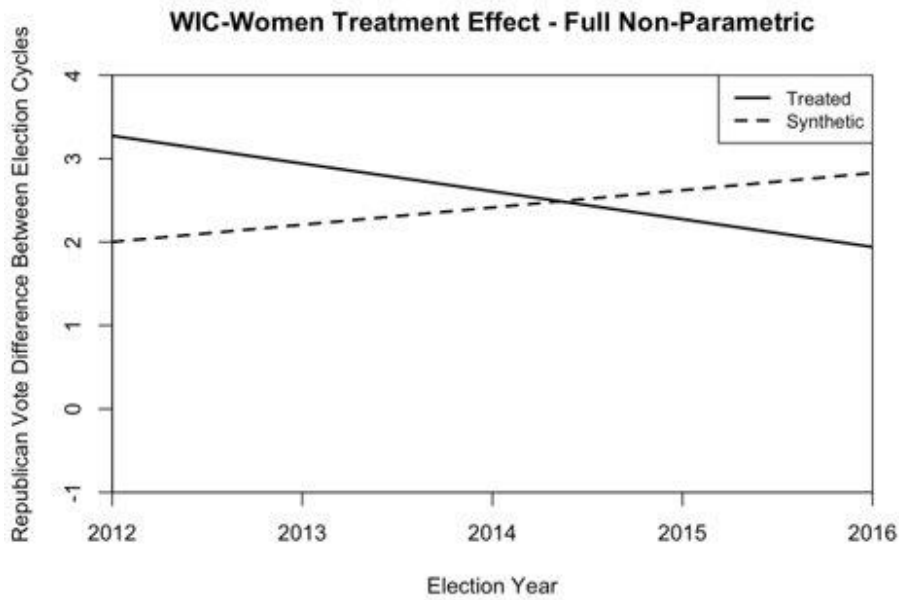
## 5.2.2 WIC-Women Treatment Variable

These data and models explore the possibility of a percent change in the participation of women in the WIC program within a county from 2007 to 2012 potentially causing a treatment effect resulting in an increase of Republican voter share between the 2012 and 2016 election cycles. These models explore the relationships between an observed treated county and a synthetic version of the treatment county. The observed county is an aggregate of each observation that falls in the bottom 25% of the distribution on the percent change in acreage of vegetable farms treatment variable distribution. In the full models the synthetic is made up of the other 75% of observations with differing weights determined by the synthetic control model. In the condensed models the synthetic county is made up of the top 10% of counties (~230) instead of the entirety of the 75%.

In every model below we saw a separation in starting points of the synthetic control and observed treated county. There are varying degrees of separation, however, it did occur in all models. The severity of separation of the starting points indicates the severity in which the synthetic control algorithm had difficulty in creating a proper synthetic control county. When there is a failure for the synthetic control algorithm to create a control object, then any treatment effect observed may not be considered statistically viable results.

### 5.2.2.1 WIC-Women: Full *Non-Parametric*

The full *non-parametric* model failed to create a viable synthetic control county for comparison to the treated (observed) county. This is depicted below in **Fig 21** showing a clear separation of the starting voter shared difference in 2012 between control and treated counties. The outcome of this model is not sound for statistical analysis or implication of causal inference.



**Fig 21.** The full *non-parametric* model run with all possible control counties and all possible predictor variables shows the synthetic control algorithm was not able to create a viable synthetic control county.

The *W* vector for the full *non-parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 12.** Top 10 *W* Vector Weights for Donor Counties for Full *Non-Parametric* Model for WIC Women Enrollment Treatment Effect

County	W Weight
Morgan County, Colorado	0.084
Otero County, Colorado	0.073
Hall County, Georgia	0.051
Yakima County, Washington	0.041
Newton County, Indiana	0.037
Harper County, Oklahoma	0.036
Weld County, Colorado	0.030

McClain County, Oklahoma	0.028
Clark County, Nevada	0.026
Pleasants County, West Virginia	0.023

Full reference can be found in **Fig 9.14** in the appendix.

The V vector for the full *non-parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm. In the case of this model where synthetic control failed to create a strong synthetic control the V vectors were all evenly weight at 0.1. The full reference table can be found in **Fig 9.15** in the appendix.

When the synthetic control model fails to create a comparable synthetic control object, the synthetic estimated values for the counties will fail to match the treatment estimated values that were observed. The top 10 comparisons of estimators of the treated versus the control county can be found below.

**Table 13.** Top 10 Synthetic Estimator Compared to Actual Observed Values

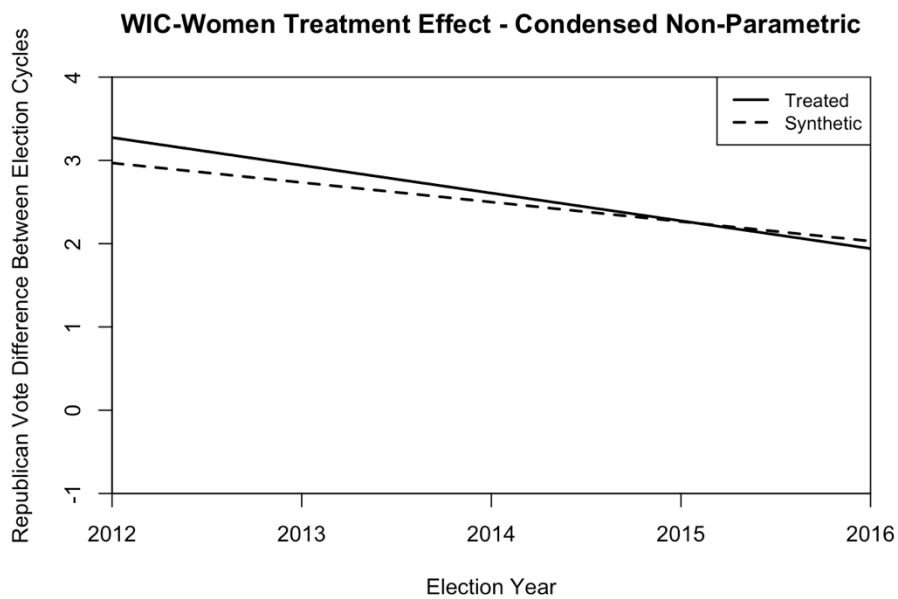
Predictor	Treated Value	Synthetic Estimator	Difference (Absolute Value)
Median Earnings for Male Full Time Workers	48.949	47.564	1.385
Per Capita Income Dollars	48.789	47.914	0.875
Rural Population Percentage	56.416	55.687	0.729
Voter Turnout	52.999	53.668	0.669
Median Age Years	47.888	47.256	0.632
Urban Population Percentage – Urbanized Areas	16.474	17.104	0.630
Median Non-family Income Dollars	50.545	51.017	0.472
Hispanic or Latino of Any Race – Mexican	15.652	15.184	0.468
One Race – Black or African American	5.841	5.376	0.465

Mean Travel Time To Work – Minutes (Percentile)	44.239	43.798	0.441
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Full table of estimated values between the synthetic control county and treated observed county can be found in **Fig 9.16** in the appendix.

### 5.2.2.2 WIC-Women: Condensed *Non-Parametric*

The condensed *non-parametric* model did not show any significant difference between the treated (observed county) and the synthetic control. There was a slight variation of starting points, however this variation is low so we move forward with interpretation of the model. The outcome for both the synthetic and observed counties is negative. This means these data show there was a larger Republican voter share in 2016 than in 2012 for both counties. This indicates a false result or data depicts there is no evidence of a causal relationship between women WIC enrollment and increased Republican voter share.



**Fig 22.** The condensed *non-parametric* model run with all possible control counties and all possible predictors does not show clear separation between the aggregated treatment county and the synthetic control county.

The W vector for the condensed *non-parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor

county. The below table depicts the top 10 weights for the potential donors.

**Table 14.** Top 10 W Vector Weights for Donor Counties for Condensed *Non-Parametric* Model for WIC Women Enrollment Treatment Effect

County	W Weight
Black Hawk County, Iowa	0.078
Beckham County, Oklahoma	0.075
Harper County, Oklahoma	0.048
Beaver County, Pennsylvania	0.048
Bergen County, New Jersey	0.044
Bartholomew County, Indiana	0.042
Bertie County, North Carolina	0.040
Benton County, Minnesota	0.039
Barren County, Kentucky	0.036
Benson County, North Dakota	0.034

Full reference can be found in **Fig 9.16** in the appendix.

The V vector for the condensed *non-parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm.

**Table 15.** Top 10 V Vector Weights for Prediction Variables for Condensed *Non-Parametric* Model for WIC Women Enrollment Treatment Effect

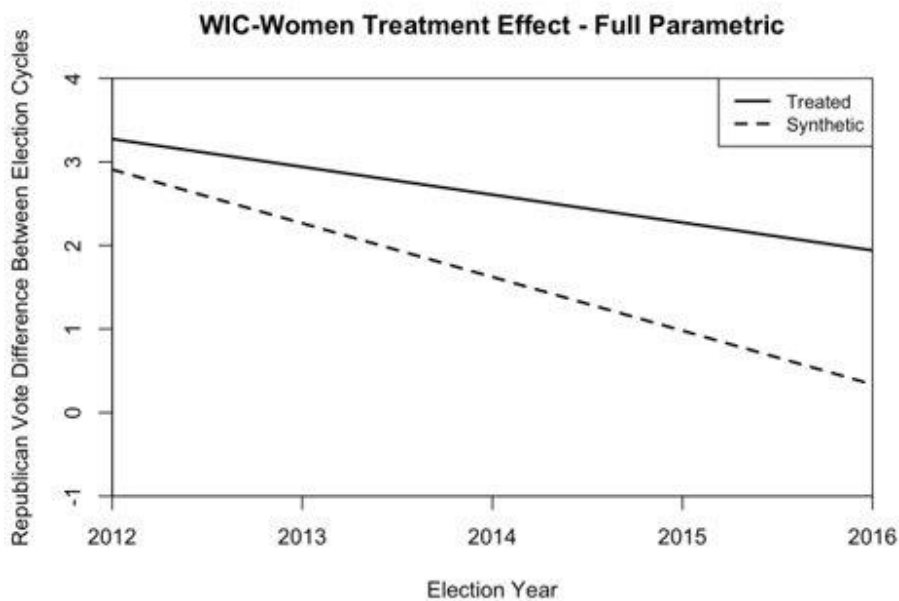
Predictor	V Weight
Voter Turnout	0.070
Hispanic or Latino of Any Race – Mexican	0.063
Median Earnings for Male Full Time Workers	0.046
Income 100K – 200K	0.044

Households with Public Assistance Income	0.039
Other Race	0.035
Hispanic or Latino of Any Race – Cuban	0.035
No Health Insurance Coverage	0.031
Service Occupation	0.027
Hispanic or Latino of Any Race	0.026

Full reference table can be found in **Fig 9.15** in the appendix.

### 5.2.2.3 WIC-Women: Full *Parametric*

The full *parametric* model failed to create a viable synthetic control county for comparison to the treated (observed) county. This is depicted below in **Fig 23** showing a clear separation of the starting voter shared difference in 2012 between control and treated counties. The outcome of this model is not sound for statistical analysis or implication of causal inference.



**Fig 23.** The full *parametric* model run with all possible control counties and all possible predictor variables shows the synthetic control algorithm was not able to create a viable synthetic control county.

The *W* vector for the full *parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. The below table depicts the top 10 weights for the potential donors.

**Table 16.** Top 10 *W* Vector Weights for Donor Counties for Full *Parametric* Model for WIC Women Enrollment Treatment Effect

County	<i>W</i> Vector
Adams County, Washington	0.121
Sanpete County, Utah	0.089
Costilla County, Colorado	0.024
Crowley County, Colorado	0.016
Texas County, Oklahoma	0.015
Beaver County, Oklahoma	0.007
Alamosa County, Colorado	0.005
Thomas County, Nebraska	0.005
Colfax County, Nebraska	0.003
Echols County, Georgia	0.003

Full reference can be found in **Fig 9.18** in the appendix.

The *V* vector for the full *parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm. The top 10 *V* vectors can be seen below in **Table 17**.

When the synthetic control model fails to create a comparable synthetic control object, the synthetic estimated values for the counties will fail to match the treatment estimated values that were observed. This is depicted by different starting points for the synthetic and control counties in the above **Fig 23**. The full reference table of these compared estimator values can be found in the appendix **Fig 9.23**.

**Table 17.** Top 10 *V* Vector Weights for Prediction Variables for Full *Parametric* Model for WIC Women Enrollment Treatment Effect

Predictor	<i>V</i> Weight
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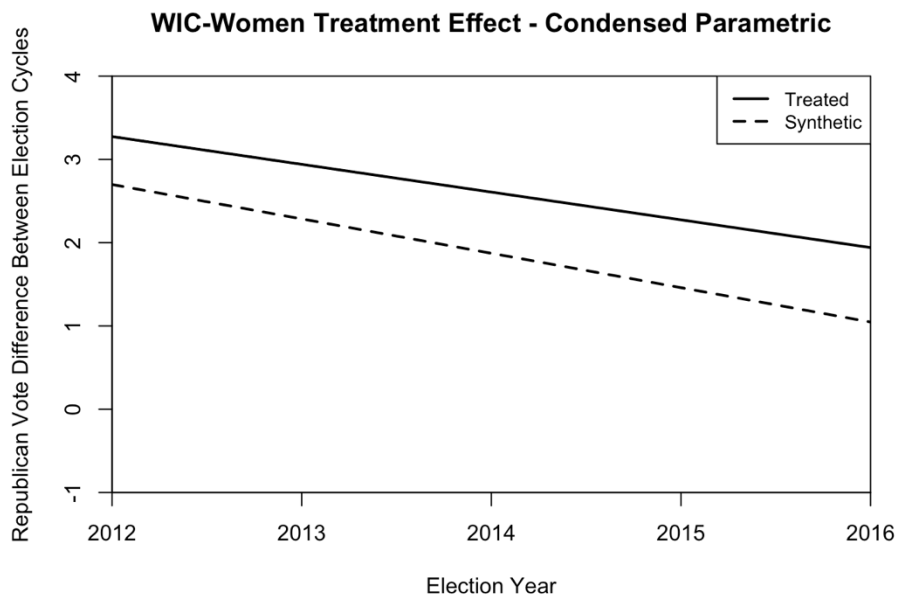


One Race Black or African American	0.004
Hispanic or Latino of any Race	0.447
Median Non-family Income Dollars	0.001
Male Education Some College or Associates	0.420
Rural	0.034
Voter Turnout	0.094
Republican Vote Percentage	0.000

The full reference table can be found in **Fig 9.19** in the appendix.

#### 5.2.2.4 WIC-Women: Condensed *Parametric*

The condensed *parametric* model failed to create a viable synthetic control county for comparison to the treated (observed) county. This is depicted below in **Fig 24** showing a clear separation of the starting voter shared difference in 2012 between control and treated counties. The outcome of this model is not sound for statistical analysis or implication of causal inference.



**Fig 24.** The condensed *parametric* model run with a subset of control counties and a subset of manually selected predictor variables shows the synthetic control algorithm was not able to create a viable synthetic control county.

The W vector for the condensed *parametric* model will show those weights that have been assigned to all donor counties in order to design the synthetic control donor county. In the below table the top 10 weights for the potential donors.

**Table 18.** Top 10 W Vector Weights for Donor Counties for Condensed *Parametric* Model for WIC Women Enrollment Treatment Effect

County	W Weight
Glades County, Florida	0.080
Dixon County, Nebraska	0.029
Piute County, Utah	0.023
Bergen County, New Jersey	0.018
Benton County, Arkansas	0.010
Saguache County, Colorado	0.009
Carroll County, Arkansas	0.009
Jefferson County, Oklahoma	0.008
Prowers County, Colorado	0.007
Richmond County, New York	0.006

Full reference can be found in **Fig 9.20** in the appendix.

The V vector for the condensed *parametric* model will show those weights that have been assigned to all predictor variables in order to drive the synthetic control model's prediction algorithm. The top 10 V vectors can be seen below in **Table 19**.

When the synthetic control model fails to create a comparable synthetic control object, the synthetic estimated values for the counties will fail to match the treatment estimated values that were observed. This is depicted by different starting points for the synthetic and control counties in the above **Fig 24**. The full reference table of these compared estimator values can be found in the appendix **Fig 9.24**.

**Table 19.** Top 10 V Vector Weights for Prediction Variables for Condensed Parametric Model for WIC Women Enrollment Treatment Effect

Predictor	V Weight
One Race Black or African American	0.225
Hispanic or Latino of any Race	0.165
Median Non-family Income Dollars	0.006
Male Education Some College or Associates	0.026
Rural	0.184
Voter Turnout	0.000
Republican Vote Percentage	0.395

Full reference can be found in **Fig 9.21** in the appendix.

## 6 Conclusions

Overall, our results offer no definitive proof of a strong causal treatment effect in our research. We are left with two potentially interesting treatments that show little evidence of providing true causal effect on voting behavior changes between 2012 and 2016. It was unexpected to see no effect. We hypothesized using a Random Forest for *treatment discovery process* would allow us to elevate those potential treatment variables. This result does however lead to more research questions, such as what potential omitted variables are causing the indication of an important observed relationship without resulting in a causal relationship.

We encountered difficulty during this research obtaining and matching data that would work for a treatment discovery. While we originally intended to pull together more culturally based potential treatments, it was more difficult to find and leverage this data at the granular level needed for this study. There is an opportunity for extended research in this arena. Being able to leverage atypical cultural variables for research and potentially discovering treatment effect could fuel new areas of research.

In our analysis we noted that those predictor variables being used were not incorporated into our *treatment discovery process*. For future research, we think our *treatment discovery process* would benefit from combining both the predictor variables and potential treatment variables in the Random Forest *treatment discovery* step. Ideally this would allow us to make sure we are not identifying a variable that

might be a proxy for another predictor variable, such as, poverty or population density. Such as we believe we did in our selected treatments during this research.

The concept of being able to train a model that can account for shifting predictor variables will allow engineers to create learning algorithms that can be the building blocks for artificial intelligence. We continued research for using both machine learning and traditional causal inference methods. Our hypothesis to power those traditional methods so that researchers have less manual overhead was neither proven nor disproven. The results presented new research questions, that when addressed, could potentially continue to bridge the gap between machine learning and causal inference.

## 6.1 Vegetable Farm Treatment

The vegetable farm acreage treatment was determined based on counties that had the most significant drop in vegetable farm acreage between 2007 and 2012. The *non-parametric* models, both the full and condensed, found essentially no difference between 2012 and 2016 vote differences. We hypothesized that those highly correlated variables raised by our Random Forest *treatment discovery process* would show a causal effect on the synthetic control county. Our hypothesis was neither proven nor disproven, but rather the results introduced new questions due to difference in results from our *parametric* and *non-parametric* models.

The difference in the results of the *parametric* and *non-parametric* methods was intriguing. The full and condensed *parametric* models showed a significant treatment effect of the decrease in vegetable farm acreage. This difference in model output raised many questions. The *parametric* models could be suffering from omitted variable bias. The decrease in vegetable farm acreage could be a proxy for poverty or population density. This would indicate the predictor variables used need to be assessed for the algorithm. While this may not be the most exciting outcome of our approach, it does demonstrate how parallel causal modeling processes offer further insight and evidence when making causal inferences.

## 6.2 WIC Women Participation Treatment

First our WIC Women variable explored was a treatment that was determined as counties that had the greatest drop in percent change of women enrolled in WIC benefits between 2014 and 2016. Differently stated, a lower enrollment of women in the WIC government program.

There is an overall trend for the failure of the synthetic control model properly building a strong synthetic control county was depicted through the results. As shown

in **Fig 21** through **Fig 24** we see the starting point of the synthetic control model differ between counties. In further analysis we see our estimators between the synthetic and control counties deviate from each other. These differences in estimators can be found in **Table 13**, and appendix **Fig 9.23**, **Fig 9.24**.

This result means the data suggests that of the 25% quantile group of donor counties were fundamentally different than the other 75% estimator values and resulting different graph starting points of the synthetic control and treated counties. The characteristics of the treatment county are outside the support of the donor units and therefore more investigation would need to be placed into why the quantiles of counties are so fundamentally different they could not power a true synthetic control method.

### 6.3 Ethics

From an ethical perspective there is a lot of ground to lose if machine learning algorithms are incorrect. Bias can be encoded in machine learning algorithms easily and extreme scaling of harmful outcomes. Similar biases can be propagated and coded into causal inference analysis. Causal inference especially offers causal explanations to behavior that can quickly fall to biases and stereotypical thought patterns if not rigorously defended against.

There could be a bad selection of weighted variables to build a counterfactual county. This is problematic, if the variables determined to properly mirror an observed county are incorrect a full class of individuals could be left out of the model. These peoples could effectively be a true indication of why the county would or would not deviate from the predicted causal reasoning. For these reasons all machine learning efforts must be created by and reviewed by persons of diverse and informed backgrounds. In particular, the research could argue those individuals who are performing the research should consistently include those individuals from the studied area, in order to capture those experiences that could eventually determine the outcome of a study. A good example study area where this would be an extreme and hurtful bias is in the evaluation of health policy. With the missing proper evaluation for all ethnic backgrounds, it could be devastating in the evaluation of useful health policies for providers, such as the synthetic control study performed on incentives provided to health care providers in the United Kingdom [24].

Another opportunity for there to be ethical disparities is if any research group decides to turn this methodology into an unsupervised learning scenario. As more machine learning becomes self-automated, it can move into dangerous territory as companies and groups prefer to have less manpower to accomplish more. In the case of synthetic causal modeling, the secondary societal metrics being collected needs to have human intervention. Without a true understanding of the secondary metrics are those of importance, there can be a divergence calculated that technically could not truly impact the results being studied.

## 7 Future Research

The integration of techniques from multiple disciplines offers difficulties and opportunities. Theoretically these combinations offer insights and scientific advancement that is more than the sum of their parts. An advantage of machine learning techniques is they offer efficient modeling practices. These procedures can introduce new dimensionality and potentially approach larger magnitudes of problems that otherwise were untouched. Econometrics and other social sciences offer a formal causal modeling framework that could potentially enjoyed unlimited growth when incorporating machine learning techniques. There are limitations for the machine learning algorithms as well. Traditional machine learning practices operating with no parametric guidelines have limited ability to be used to make causal determinations. Algorithms with little to no oversight of coding would also introduce bias and would be ethically questionable. Overall, this intersection that we have explored in our research offers rich opportunities in future causal research in any domain when properly executed with individuals of deep domain knowledge.

While our results did not point to significantly causal results with the selected treatments, there is opportunity for future research and usage of the *treatment discovery processes* outlined here. There are still opportunities for exploration in other dimensions of our question of interest where other causal factors could be discovered and measured in political choice and results.

Given the opportunity for future researchers we recognize the way we obtained our variables of importance may have an opportunity for improvement. The WIC women and vegetable farm acreage variables were used in the Random Forest alongside other variables of food safety without the predictor variables used for the synthetic control county construction. Given the opportunity to further study this *treatment discovery process* we would include those predictor variables within the potential treatment variable discovery to see if different, the same, or additional variables are raised in importance. This need for the adjustment of our process shows that a deeper understanding of data allows researchers to potentially identify areas of improvement allows those methods to evolve.

For future researchers we would proposition the analysis of secondary cultural factors for evaluation. The data we were able to surface for this study revolved around food safety for families as well as farming acreage. These data were easily attainable and mutable for analysis in the given time frame of this research project. Ideally this research would begin to branch out into those lesser explored areas of causality. In discussion some of the potential treatment effects we would have like to assess were:

- Positive sentiment news stories by candidate
- Negative sentiment news stories by candidate
- Trend analysis: raising trends both liberal and conservative among the populace during the voting period during each election cycle

- Difference in house of worship distribution
- Difference in house of worship attendance
- Difference in types of houses of worship
- Unintentionally information flow
- Difference in online data application activity
- Difference in pornography website volume

Future social and political science research can benefit from this specific line of questioning in causal inference. Incorporating machine learning techniques into traditional frameworks can allow for execution of larger and unexplored datasets. This could result in a deeper causal understanding of patterns we observe in the real world.

**Acknowledgments.** Christina Jenq, PhD, was a guiding light through the execution of this process. An expert in her field of labor economics she helped our research by assuring we were keeping within the bounds of causal statistical methods while still allowing us to run down our machine learning paths. Thank you for your time, guidance, and mentorship.

John Santerre, PhD. – Primary Capstone Advisor. Jacquelyn Cheun, PhD. – Capstone Professor. David Stroud, – Friend.

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## 9 Appendix

Fig 9.1. Summary Values for All Chosen Variables in ACS 2012

	count	mean	std	min	25%	50%	75%	max
Year	3109.0	2012.000000	0.000000	2012.000000	2012.000000	2012.000000	2012.000000	2012.000000
Total population	3109.0	50.065518	28.957378	0.062093	24.961192	49.860292	75.318224	100.000000
Female	3109.0	50.039207	2.314027	23.529412	49.569487	50.474077	51.174593	57.668094
Median age years	3109.0	50.813853	28.799032	0.031046	26.404843	51.598882	75.923626	100.000000
One race_White	3109.0	84.281859	16.147654	3.551853	77.738316	90.645448	95.932794	100.000000
One race_Black or African American	3109.0	9.059290	14.620592	0.000000	0.543057	2.122833	10.438269	86.193982
One race_American Indian and Alaska Native	3109.0	1.587135	6.406432	0.000000	0.152860	0.321896	0.761138	95.673463
One race_Asian_Asian Indian	3109.0	0.212118	0.585874	0.000000	0.000000	0.026505	0.196772	13.080225
One race_Asian_Chinese	3109.0	0.212593	0.661023	0.000000	0.000000	0.056338	0.211042	21.157034
One race_Asian_Filipino	3109.0	0.172613	0.455493	0.000000	0.000000	0.063206	0.180203	10.088385
One race_Asian_Other Asian	3109.0	0.286277	0.533905	0.000000	0.013487	0.123719	0.331520	10.122160
One race_Native Hawaiian and Other Pacific Islander	3109.0	0.055396	0.140401	0.000000	0.000000	0.000000	0.049235	2.060699
One race_Some other race	3109.0	1.994530	3.410266	0.000000	0.282342	0.767389	2.162499	35.211243
Two or more races_White and Black or African American	3109.0	0.449377	0.400845	0.000000	0.161360	0.363954	0.642758	3.748782
Two or more races_White and American Indian and Alaska Native	3109.0	0.805091	1.402392	0.000000	0.261679	0.448398	0.817012	21.065546
Two or more races_White and Asian	3109.0	0.212092	0.280321	0.000000	0.011696	0.129543	0.304178	3.486185
Two or more races_Black or African American and American Indian and Alaska Native	3109.0	0.057634	0.119635	0.000000	0.000000	0.007517	0.063337	1.790900
Hispanic or Latino of any race	3109.0	8.332597	13.316649	0.000000	1.592868	3.286541	8.319792	98.324628
Hispanic or Latino of any race_Mexican	3109.0	6.371561	11.871639	0.000000	0.931016	2.023187	5.575384	96.506357
Hispanic or Latino of any race_Puerto Rican	3109.0	0.454240	1.212396	0.000000	0.018362	0.160308	0.408517	25.997320
Hispanic or Latino of any race_Cuban	3109.0	0.120689	0.711577	0.000000	0.000000	0.021835	0.102438	33.950663
_Total housing units	3109.0	50.190262	28.953471	0.031046	25.023285	50.170754	75.411363	100.000000
In labor force_Civilian labor force_Employed	3109.0	90.935801	4.296372	29.900280	88.834476	91.384839	93.627216	100.000000
In labor force_Civilian labor force_Unemployed	3109.0	8.575773	3.718511	0.000000	6.116146	8.310351	10.660943	26.798561
In labor force_Armed Forces	3109.0	0.488426	2.245762	0.000000	0.000000	0.092851	0.246923	66.422562
Females 16 years and over	3109.0	50.395420	2.737918	23.529412	49.828307	50.934421	51.735179	59.943921
_COMMUTING TO WORK_Car, truck, or van -- drove alone	3109.0	78.485698	6.853093	6.745506	75.893283	79.720789	82.742668	93.922652
_COMMUTING TO WORK_Car, truck, or van -- carpooled	3109.0	10.978290	2.937481	0.000000	9.023747	10.562284	12.564767	28.687415
_COMMUTING TO WORK_Public transportation excluding taxicab	3109.0	0.960166	3.034182	0.000000	0.119159	0.352496	0.783761	60.820502
_COMMUTING TO WORK_Walked	3109.0	3.172186	2.690775	0.000000	1.489943	2.431681	4.023439	36.403509
_COMMUTING TO WORK_Worked at home	3109.0	4.849946	3.409723	0.000000	2.820922	4.027637	5.836331	49.184149
_COMMUTING TO WORK_Mean travel time to work minutes	3109.0	49.764751	28.507816	0.372555	25.333747	49.565352	74.200559	99.984477
_OCCUPATION_Management, business, science, and arts occupations	3109.0	30.478587	6.419537	11.795544	26.077412	29.454637	33.744380	68.077263
_OCCUPATION_Service occupations	3109.0	18.078168	3.601989	4.905660	15.750025	17.797310	19.905116	38.431201
_OCCUPATION_Sales and office occupations	3109.0	22.613395	3.364622	4.958678	20.600222	22.874219	24.918874	50.769231
_OCCUPATION_Natural resources, construction, and maintenance occupations	3109.0	13.093195	4.288995	1.893043	10.208350	12.546125	15.277520	45.510836
_OCCUPATION_Production, transportation, and material moving occupations	3109.0	15.736655	5.740716	1.503981	11.451049	15.367593	19.456067	36.016614
_INDUSTRY_Agriculture, forestry, fishing and hunting, and mining	3109.0	6.910636	7.480898	0.000000	1.806188	4.251701	9.163491	58.888889

	count	mean	std	min	25%	50%	75%	max
Rural	3109.0	59.392786	31.491297	0.000000	34.388606	60.586481	88.514983	100.000000
Male_Ed_Less_Than_High_School	3109.0	17.706686	7.584531	1.964286	12.026709	16.300362	22.447796	51.865972
Male_Ed_High_School_Graduated	3109.0	36.352158	7.504847	6.632099	31.497441	36.771982	41.559774	89.221538
Male_Ed_Some_College_Or_Associates	3109.0	28.844741	6.056629	6.200000	24.938334	28.903517	32.679759	60.284499
Male_Ed_Bachelors_Degree_Or_Higher	3109.0	17.097273	8.326187	0.000000	11.357221	15.091880	20.688418	72.687695
Female_Ed_Less_Than_High_School	3109.0	14.810213	6.371883	1.922581	10.089908	13.654927	18.813798	51.327625
Female_Ed_High_School_Graduated	3109.0	33.495045	6.616384	9.179900	29.225231	33.744238	38.018666	54.002257
Female_Ed_Some_College_Or_Associates	3109.0	33.249926	5.597143	10.925213	29.563609	33.164837	36.942686	62.985394
Female_Ed_Bachelors_Degree_Or_Higher	3109.0	18.444925	7.615386	2.633333	13.278661	16.746257	21.438976	68.971586
total_votes_x	3109.0	56.684154	9.887080	16.995551	50.226452	56.730796	63.415240	116.926070
republican_vote_percent_x	3109.0	59.611089	14.834035	5.977742	50.304195	60.781381	70.288066	95.862069
democrat_vote_percent_x	3109.0	38.410974	14.707971	3.448276	27.745525	37.128713	47.387068	93.386328
Age_0_To_9	3109.0	12.502348	2.244478	0.000000	11.159576	12.414445	13.688474	24.014005
Age_10_To_19	3109.0	13.564177	1.908183	0.000000	12.526333	13.570523	14.572389	25.152928
Age_20_To_24	3109.0	6.153913	2.569809	0.284900	4.881619	5.681682	6.733080	32.503577
Age_25_To_44	3109.0	23.716259	3.305583	9.544160	21.800766	23.671006	25.507385	45.882353
Age_45_To_64	3109.0	27.964116	3.267008	9.633297	26.305184	28.038098	29.627282	55.066079
Age_65_To_44	3109.0	16.099186	4.216332	4.078208	13.283208	15.711961	18.369839	44.515068
Income_0k_25k	3109.0	28.178297	8.245969	4.910984	22.622070	27.576792	33.284438	60.202840
Income_25k_50k	3109.0	27.115286	4.035337	9.231729	25.000000	27.481931	29.617834	47.297297
	<b>count</b>	<b>mean</b>	<b>std</b>	<b>min</b>	<b>25%</b>	<b>50%</b>	<b>75%</b>	<b>max</b>
Income_50k_75k	3109.0	18.774269	2.939429	7.019143	16.975780	18.817034	20.668693	30.781628
Income_75k_100k	3109.0	11.412082	2.840310	0.000000	9.546821	11.400111	13.317619	25.242718
Income_100k_200k	3109.0	12.276346	5.708010	1.736466	8.478134	11.063522	14.466450	41.665147
Income_Over_200k	3109.0	2.243720	2.158909	0.000000	1.071811	1.677327	2.615341	23.244801
vote_diff_rep	3109.0	2.778438	3.355790	-10.293992	0.677180	2.539924	4.699311	28.372146

Fig 9.2. Summary Values for All Chosen Variables in ACS 2016

	count	mean	std	min	25%	50%	75%	max
Year	3108.0	2016.000000	0.000000	2016.000000	2016.000000	2016.000000	2016.000000	2016.000000
Total population	3108.0	50.090330	28.965307	0.031056	24.961180	49.891304	75.318323	100.000000
Female	3108.0	49.976580	2.334395	21.513413	49.486519	50.430200	51.134737	58.499127
Median age years	3108.0	50.532157	28.986580	0.031056	25.108696	51.335404	75.714286	100.000000
One race_White	3108.0	83.768061	16.246553	4.641380	77.568707	90.133737	95.443898	100.000000
One race_Black or African American	3108.0	9.099714	14.568730	0.000000	0.627744	2.267671	10.397394	86.184910
One race_American Indian and Alaska Native	3108.0	1.644130	6.515314	0.000000	0.158501	0.340383	0.770121	93.037930
One race_Asian_Asian Indian	3108.0	0.244126	0.675371	0.000000	0.000000	0.043587	0.216560	14.739641
One race_Asian_Chinese	3108.0	0.246169	0.722377	0.000000	0.000000	0.073735	0.241226	21.213198
One race_Asian_Filipino	3108.0	0.194113	0.469310	0.000000	0.000000	0.086223	0.212371	10.388598
One race_Asian_Other Asian	3108.0	0.291687	0.561805	0.000000	0.019304	0.134748	0.332921	10.445273
One race_Native Hawaiian and Other Pacific Islander	3108.0	0.066657	0.177074	0.000000	0.000000	0.010770	0.059456	3.541578
One race_Some other race	3108.0	2.030541	3.777454	0.000000	0.286695	0.826958	2.221478	52.085506
Two or more races_White and Black or African American	3108.0	0.576477	0.489092	0.000000	0.229692	0.481852	0.799457	5.957447
Two or more races_White and American Indian and Alaska Native	3108.0	0.821648	1.302500	0.000000	0.280891	0.483066	0.868716	17.800504
Two or more races_White and Asian	3108.0	0.255618	0.308558	0.000000	0.037113	0.169577	0.359937	2.442845
Two or more races_Black or African American and American Indian and Alaska Native	3108.0	0.063141	0.136495	0.000000	0.000000	0.010947	0.069993	2.091978
Hispanic or Latino of any race	3108.0	8.984731	13.663319	0.000000	1.936969	3.819822	9.095675	98.958862

	count	mean	std	min	25%	50%	75%	max
Hispanic or Latino of any race_Mexican	3108.0	6.758686	12.168896	0.000000	1.108560	2.294631	6.003359	96.275076
Hispanic or Latino of any race_Puerto Rican	3108.0	0.517045	1.312320	0.000000	0.045913	0.202581	0.475042	30.462685
Hispanic or Latino of any race_Cuban	3108.0	0.147631	0.768049	0.000000	0.000000	0.037454	0.132094	35.668015
_Total housing units	3108.0	50.157728	28.955328	0.031056	25.023292	50.170807	75.411491	100.000000
In labor force_Civilian labor force_Employed	3108.0	92.537896	3.906911	31.894652	90.888444	93.037268	94.850077	100.000000
In labor force_Civilian labor force_Unemployed	3108.0	7.036170	3.232081	0.000000	4.924154	6.744613	8.705519	29.927415
In labor force_Armed Forces	3108.0	0.425934	2.153642	0.000000	0.000000	0.054909	0.175178	62.060954
Females 16 years and over	3108.0	50.289862	2.760161	21.132898	49.754410	50.840689	51.688659	59.894268
_COMMUTING TO WORK_Car, truck, or van -- drove alone	3108.0	79.588086	6.738126	6.036683	77.080800	80.862281	83.809381	93.296089
_COMMUTING TO WORK_Car, truck, or van -- carpooled	3108.0	10.126344	2.901325	0.000000	8.259401	9.742070	11.522824	30.372149
_COMMUTING TO WORK_Public transportation excluding taxicab	3108.0	0.948113	3.102460	0.000000	0.109194	0.332519	0.768072	61.760340
_COMMUTING TO WORK_Walked	3108.0	3.074557	2.823537	0.000000	1.380962	2.289131	3.857370	36.912114
_COMMUTING TO WORK_Worked at home	3108.0	4.724383	3.136720	0.000000	2.848563	4.049143	5.679657	39.858491
_COMMUTING TO WORK_Mean travel time to work minutes	3108.0	49.793051	28.515099	0.496894	25.310559	49.798137	74.209075	100.000000
_OCCUPATION_Management, business, science, and arts occupations	3108.0	31.244669	6.485168	13.256785	26.912203	30.166000	34.670577	69.474095
_OCCUPATION_Service occupations	3108.0	18.191459	3.612625	4.850746	15.895673	17.851716	20.154363	37.716263
_OCCUPATION_Sales and office occupations	3108.0	21.977911	3.068495	7.619048	20.060368	22.208932	24.066825	33.876074
_OCCUPATION_Natural resources, construction, and maintenance occupations	3108.0	12.664606	4.178722	2.046332	9.794366	12.180084	14.793660	34.756098
_OCCUPATION_Production, transportation, and material moving occupations	3108.0	15.921355	5.759108	0.000000	11.595325	15.591570	19.572387	48.717949
_INDUSTRY_Agriculture, forestry, fishing and hunting, and mining	3108.0	6.893730	7.448694	0.000000	1.873497	4.310136	9.176218	59.294118
	count	mean	std	min	25%	50%	75%	max
_INDUSTRY_Construction	3108.0	7.166198	2.300678	0.000000	5.635287	6.865270	8.374516	22.522523
_INDUSTRY_Manufacturing	3108.0	12.320618	7.106180	0.000000	6.843021	11.519170	16.746861	48.258305
_INDUSTRY_Wholesale trade	3108.0	2.394488	1.196795	0.000000	1.683648	2.291548	3.000751	20.507000
_INDUSTRY_Retail trade	3108.0	11.416354	2.381784	1.219512	10.061634	11.489678	12.781562	30.923981
_INDUSTRY_Transportation and warehousing, and utilities	3108.0	5.414097	1.963942	0.000000	4.116361	5.104231	6.409551	22.548506
_INDUSTRY_Information	3108.0	1.406335	0.818905	0.000000	0.896356	1.320537	1.785265	15.751295
_INDUSTRY_Finance and insurance, and real estate and rental and leasing	3108.0	4.589047	1.875342	0.000000	3.413296	4.286497	5.441110	20.631673
_INDUSTRY_Professional, scientific, and management, and administrative and waste management services	3108.0	6.789392	3.274214	0.000000	4.648558	6.188017	8.289206	57.362100
_INDUSTRY_Educational services, and health care and social assistance	3108.0	23.113720	4.577212	2.564103	20.220674	22.818543	25.738396	45.549707
_INDUSTRY_Arts, entertainment, and recreation, and accommodation and food services	3108.0	8.242406	3.564859	0.000000	6.054242	7.840737	9.671718	34.937739
_INDUSTRY_Other services, except public administration	3108.0	4.695095	1.243321	0.000000	4.038880	4.676182	5.316139	13.249870
_INDUSTRY_Public administration	3108.0	5.558520	3.909585	0.000000	3.554408	4.734060	6.621234	33.956214
_CLASS OF WORKER_Private wage and salary workers	3108.0	74.997360	7.406059	29.805886	71.475869	76.312257	80.119342	88.546314
_CLASS OF WORKER_Government workers	3108.0	16.897831	6.025621	5.633803	12.803285	15.605660	19.709211	65.435191
_CLASS OF WORKER_Self-employed in own not incorporated business workers	3108.0	7.816780	3.845571	0.000000	5.295367	6.787230	9.203222	37.681159
_CLASS OF WORKER_Unpaid family workers	3108.0	0.288029	0.461683	0.000000	0.088525	0.174646	0.329644	9.674134
Total households	3108.0	50.201933	28.942872	0.031056	24.992236	50.139752	75.411491	100.000000
With earnings_Mean earnings dollars	3108.0	50.919856	28.129521	1.770186	26.638199	50.822981	75.163043	100.000000
With Social Security	3108.0	36.329642	7.180961	13.159959	31.978028	36.381550	40.782910	76.753373
With Social Security_Mean Social Security income dollars	3108.0	51.490024	28.090027	0.124224	27.290373	51.529503	75.791925	100.000000
	count	mean	std	min	25%	50%	75%	max
Year	3108.0	2016.000000	0.000000	2016.000000	2016.000000	2016.000000	2016.000000	2016.000000
Total population	3108.0	50.090330	28.965307	0.031056	24.961180	49.891304	75.318323	100.000000
Female	3108.0	49.976580	2.334395	21.513413	49.486519	50.430200	51.134737	58.499127
Median age years	3108.0	50.532157	28.986580	0.031056	25.108696	51.335404	75.714286	100.000000
One race_White	3108.0	83.766061	16.246553	4.641380	77.568707	90.133737	95.443898	100.000000
One race_Black or African American	3108.0	9.099714	14.568730	0.000000	0.627744	2.267671	10.397394	86.184910
One race_American Indian and Alaska Native	3108.0	1.644130	6.515314	0.000000	0.158501	0.340383	0.770121	93.037930
One race_Asian_Asian Indian	3108.0	0.244126	0.675371	0.000000	0.000000	0.043587	0.216560	14.739641
One race_Asian_Chinese	3108.0	0.246169	0.722377	0.000000	0.000000	0.073735	0.241226	21.213198
One race_Asian_Filipino	3108.0	0.194113	0.469310	0.000000	0.000000	0.086223	0.212371	10.388598
One race_Asian_Other Asian	3108.0	0.291687	0.561805	0.000000	0.019304	0.134748	0.332921	10.445273
One race_Native Hawaiian and Other Pacific Islander	3108.0	0.066657	0.177074	0.000000	0.000000	0.010770	0.059456	3.541578
One race_Some other race	3108.0	2.030541	3.777454	0.000000	0.286695	0.826958	2.221478	52.085506
Two or more races_White and Black or African American	3108.0	0.576477	0.489092	0.000000	0.229692	0.481852	0.799457	5.957447
Two or more races_White and American Indian and Alaska Native	3108.0	0.821648	1.302500	0.000000	0.280891	0.483066	0.868716	17.800504
Two or more races_White and Asian	3108.0	0.255618	0.308558	0.000000	0.037113	0.169577	0.359937	2.442845
Two or more races_Black or African American and American Indian and Alaska Native	3108.0	0.063141	0.136495	0.000000	0.000000	0.010947	0.089993	2.091978
Hispanic or Latino of any race	3108.0	8.984731	13.663319	0.000000	1.936969	3.819822	9.095675	98.958862



	count	mean	std	min	25%	50%	75%	max
Rural	3107.0	59.404142	31.482554	0.000000	34.392289	60.586481	88.558939	100.000000
Male_Ed_Less_Than_High_School	3108.0	15.948527	6.975557	1.111111	10.800625	14.552238	20.274057	50.281849
Male_Ed_High_School_Graduated	3108.0	36.442293	7.547222	7.236160	31.568916	36.902738	41.747020	60.693241
Male_Ed_Some_College_Or_Associates	3108.0	29.722453	5.811019	11.573808	25.877531	29.794692	33.587134	53.415608
Male_Ed_Bachelors_Degree_Or_Higher	3108.0	17.886727	8.655733	0.000000	11.918429	15.862272	21.708548	76.591333
Female_Ed_Less_Than_High_School	3108.0	13.080930	5.869935	0.564972	8.758816	12.034888	16.558674	51.546392
Female_Ed_High_School_Graduated	3108.0	32.771139	6.689920	7.679527	28.428676	32.957080	37.402070	54.075032
Female_Ed_Some_College_Or_Associates	3108.0	34.002740	5.310347	11.477869	30.444959	33.872790	37.491654	57.626997
Female_Ed_Bachelors_Degree_Or_Higher	3108.0	20.145191	7.968129	5.168326	14.647567	18.410760	23.719977	75.539967
total_votes_x	3107.0	57.506172	9.554425	15.209542	51.333026	57.758748	63.864482	111.889597
republican_vote_percent_x	3107.0	63.300400	15.648211	4.087474	54.481190	66.353383	74.915475	96.033403
democrat_vote_percent_x	3107.0	31.479741	15.197088	3.144654	20.332090	28.259529	39.845753	90.863822
Age_0_To_9	3108.0	12.174492	2.230508	0.934205	10.794812	12.077991	13.401651	24.583333
Age_10_To_19	3108.0	13.007090	1.958203	3.947368	11.914814	12.998952	14.043220	27.330870
Age_20_To_24	3108.0	6.398442	2.484022	0.405515	5.210778	5.929704	6.805136	32.475839
Age_25_To_44	3108.0	23.287280	3.297343	8.612848	21.309936	23.168682	25.047386	43.386763
Age_45_To_64	3108.0	27.500538	3.029633	9.038882	26.010747	27.697522	29.195219	47.368421
Age_65_To_44	3108.0	17.632158	4.448545	3.854570	14.820241	17.279327	19.937507	53.106375
Income_0k_25k	3108.0	26.789559	8.185129	5.523904	21.082624	26.070178	31.872048	60.076775
Income_25k_50k	3108.0	26.207193	3.993523	8.108108	24.140980	26.510652	28.737256	41.682510
	count	mean	std	min	25%	50%	75%	max
Income_50k_75k	3108.0	18.538098	2.790145	6.640106	16.797189	18.609110	20.303623	30.154799
Income_75k_100k	3108.0	11.662783	2.708898	1.255230	9.852195	11.851160	13.447357	32.432432
Income_100k_200k	3108.0	13.968941	5.807937	1.855895	10.022502	12.758682	16.717842	39.819600
Income_Over_200k	3108.0	2.833427	2.555323	0.000000	1.394061	2.140400	3.357976	25.315978
vote_diff_rep	3107.0	3.670384	5.720904	-37.618717	0.652689	3.666657	7.236847	23.116316

Fig 9.3. Summary Values for All Chosen Variables in Food Environment Atlas

	count	mean	std	min	25%	50%	75%	max
PCH_LACCESS_POP_10_15	3117.0	7180.008005	395567.600978	-100.000000	-10.913427	-0.062393	7.262080	2.208376e+07
PCH_LACCESS_LOWI_10_15	3115.0	7318.956973	400469.196436	-100.000000	-12.326384	3.486028	23.523422	2.234893e+07
PCH_LACCESS_HHNV_10_15	3129.0	33.050666	788.627219	-100.000000	-14.627232	4.694624	29.002172	4.319128e+04
PCH_LACCESS_SENIORS_10_15	3117.0	2080.536916	110784.762796	-100.000000	-10.898448	-0.015431	7.418184	6.181696e+06
PCH_REDEMP_SNAPS_12_16	2867.0	-19.919135	20.921085	-93.353948	-32.300036	-22.056440	-10.484279	4.059816e+02
PCH_SNAP_12_16	3143.0	-1.809516	1.445719	-4.865687	-2.932261	-1.708690	-1.128421	2.018162e+00
PCH_PC_SNAPBEN_10_15	3060.0	-4.899652	17.036711	-100.000000	-15.514554	-6.486179	3.875548	1.664940e+02
PCH_NSLP_09_15	3143.0	-0.853337	0.336877	-1.696861	-1.044790	-0.839693	-0.665073	5.297228e-01
PCH_SBP_09_15	3143.0	0.686508	0.546517	-0.133973	0.393056	0.650023	0.861912	4.236802e+00
PCH_SFSP_09_15	3143.0	0.094726	0.282311	-1.615046	-0.037384	0.115010	0.268521	8.492898e-01
PCH_PC_WIC_REDEMP_11_16	1808.0	-13.657880	37.025364	-91.425011	-21.788098	-13.089518	-5.098325	1.086538e+03
PCH_REDEMP_WICS_11_16	2983.0	7.153399	361.335418	-100.000000	-25.260587	-9.642964	8.939912	1.758218e+04
PCH_WIC_09_15	3143.0	-0.596962	0.477011	-2.491475	-0.654452	-0.513726	-0.366039	2.725820e-02
PCH_WICINFANTCHILD_14_16	3143.0	-1.760064	0.945662	-5.389021	-2.063717	-1.718969	-1.194306	2.039279e-01
PCH_WICWOMEN_14_16	3143.0	-0.243165	0.110194	-0.508514	-0.341807	-0.223055	-0.166891	-9.067857e-03
PCH_CACFP_12_17	3143.0	0.182121	0.275412	-0.414889	-0.003263	0.105849	0.351365	3.178517e+00
PCH_FDPIR_12_15	3136.0	0.167523	7.547701	-100.000000	0.000000	0.000000	0.000000	1.500000e+02
PCH_RECFA11_16	3000.0	1.030283	50.972792	-100.000000	-10.051020	0.000000	9.942748	6.000000e+02
PCH_RECFA11_16	3000.0	-0.095421	50.007496	-100.000000	-12.143966	0.000000	6.399759	6.264032e+02

	count	mean	std	min	25%	50%	75%	max
PCH_DIRSALES_FARMS_07_12	3019.0	16.374970	87.253374	-100.000000	-22.222222	1.244813	32.158385	1500.000000
PCH_DIRSALES_07_12	2684.0	54.254356	312.945962	-100.000000	-33.333333	5.228476	64.072719	11584.615380
PCH_PC_DIRSALES_07_12	2684.0	52.060417	298.835535	-100.000000	-34.627091	4.147232	60.743051	10822.169740
PCH_FMRKT_09_16	2587.0	37.576040	98.917037	-100.000000	0.000000	0.000000	50.000000	1600.000000
PCH_FMRKTPTH_09_16	2592.0	34.169579	94.458942	-100.000000	0.000000	0.000000	49.011977	1617.310053
PCH_VEG_FARMS_07_12	2793.0	22.926982	112.349444	-100.000000	-31.250000	0.000000	40.000000	1800.000000
PCH_VEG_ACRES_07_12	2060.0	59.202488	520.868530	-100.000000	-29.988167	6.666667	60.494643	22109.090910
PCH_VEG_ACRESPTH_07_12	2245.0	-1.455243	4.235496	-43.113542	-3.569768	-0.876435	1.284643	13.395686
PCH_FRESHVEG_FARMS_07_12	2779.0	23.495800	111.786688	-100.000000	-33.333333	0.000000	41.666667	1800.000000
PCH_FRESHVEG_ACRES_07_12	1052.0	18.542381	136.981782	-100.000000	-43.012120	-6.412130	38.591430	1933.333333
PCH_FRESHVEG_ACRESPTH_07_12	1052.0	16.824489	136.162559	-100.000000	-44.936097	-8.756606	35.878513	1888.417050
PCH_ORCHARD_FARMS_07_12	2720.0	7.151707	82.258592	-100.000000	-35.953125	-8.333333	27.010490	1000.000000
PCH_ORCHARD_ACRES_07_12	2021.0	25.075102	152.529453	-100.000000	-31.111111	-2.666667	37.751756	3712.500000
PCH_ORCHARD_ACRESPTH_07_12	2021.0	23.212938	152.147979	-100.000000	-33.064346	-4.677203	36.006781	3839.058815
PCH_BERRY_FARMS_07_12	2236.0	44.489972	135.947625	-100.000000	-32.000000	14.285714	77.777778	1700.000000
PCH_BERRY_ACRES_07_12	1273.0	55.564751	222.350972	-100.000000	-30.434783	4.317959	66.666667	4400.000000
PCH_BERRY_ACRESPTH_07_12	1273.0	51.712638	214.445841	-100.000000	-32.889169	3.166085	60.954730	4162.112815
PCH_SLHOUSE_07_12	2977.0	-5.474154	35.630188	-100.000000	0.000000	0.000000	0.000000	300.000000
PCH_GHVEG_FARMS_07_12	1201.0	94.129127	201.710230	-100.000000	-25.000000	50.000000	166.666667	1900.000000
PCH_GHVEG_SQFT_07_12	342.0	292.483990	1548.392983	-100.000000	5.759483	91.526644	247.556103	27641.176470
	count	mean	std	min	25%	50%	75%	max
vote_diff_rep	3107.0	3.670384	5.720904	-37.618717	0.652689	3.666657	7.236847	23.116316
	count	mean	std	min	25%	50%	75%	max
PCH_LACCESS_POP_10_15	3117.0	7180.008005	395567.600978	-100.000000	-10.913427	-0.062393	7.262080	2.208376e+07
PCH_LACCESS_LOW_10_15	3115.0	7318.956973	400469.196436	-100.000000	-12.326384	3.486028	23.523422	2.234893e+07
PCH_LACCESS_HHNV_10_15	3129.0	33.050666	788.627219	-100.000000	-14.627232	4.694624	29.002172	4.319128e+04
PCH_LACCESS_SENIORS_10_15	3117.0	2080.536916	110784.762796	-100.000000	-10.898448	-0.015431	7.418184	6.181696e+06
PCH_REDEMP_SNAPS_12_16	2867.0	-19.919135	20.921085	-93.353948	-32.300036	-22.056440	-10.484279	4.059816e+02
PCH_SNAP_12_16	3143.0	-1.809516	1.445719	-4.865687	-2.932261	-1.708690	-1.128421	2.018162e+00
PCH_PC_SNAPBEN_10_15	3060.0	-4.899652	17.036711	-100.000000	-15.514554	-6.486179	3.875548	1.664940e+02
PCH_NSLP_09_15	3143.0	-0.853337	0.336877	-1.696861	-1.044790	-0.839693	-0.665073	5.297228e-01
PCH_SBP_09_15	3143.0	0.686508	0.546517	-0.133973	0.393056	0.650023	0.861912	4.236802e+00
PCH_SFSP_09_15	3143.0	0.094726	0.282311	-1.615046	-0.037384	0.115010	0.268521	8.492898e-01
PCH_PC_WIC_REDEMP_11_16	1808.0	-13.657880	37.025364	-91.425011	-21.788098	-13.089518	-5.098325	1.086538e+03
PCH_REDEMP_WICS_11_16	2983.0	7.153399	361.335418	-100.000000	-25.260587	-9.642964	8.939912	1.758218e+04
PCH_WIC_09_15	3143.0	-0.596962	0.477011	-2.491475	-0.654452	-0.513726	-0.366039	2.725820e-02
PCH_WICINFANTCHILD_14_16	3143.0	-1.760064	0.945662	-5.389021	-2.063717	-1.718969	-1.194306	2.039279e-01
PCH_WICWOMEN_14_16	3143.0	-0.243165	0.110194	-0.508514	-0.341807	-0.223055	-0.166891	-9.067857e-03
PCH_CACFP_12_17	3143.0	0.182121	0.275412	-0.414889	-0.003263	0.105849	0.351365	3.178517e+00
PCH_FDPIR_12_15	3136.0	0.167523	7.547701	-100.000000	0.000000	0.000000	0.000000	1.500000e+02
PCH_RECFA_11_16	3000.0	1.030283	50.972792	-100.000000	-10.051020	0.000000	9.942748	6.000000e+02
PCH_RECFA_CPT_11_16	3000.0	-0.095421	50.007496	-100.000000	-12.143966	0.000000	6.399759	6.264032e+02

	count	mean	std	min	25%	50%	75%	max
PCH_DIRSALES_FARMS_07_12	3019.0	16.374970	87.253374	-100.000000	-22.222222	1.244813	32.158385	1500.000000
PCH_DIRSALES_07_12	2684.0	54.254356	312.945962	-100.000000	-33.333333	5.228476	64.072719	11584.615380
PCH_PC_DIRSALES_07_12	2684.0	52.060417	298.835535	-100.000000	-34.627091	4.147232	60.743051	10822.169740
PCH_FMRKT_09_16	2587.0	37.576040	98.917037	-100.000000	0.000000	0.000000	50.000000	1600.000000
PCH_FMRKTPTH_09_16	2592.0	34.169579	94.458942	-100.000000	0.000000	0.000000	49.011977	1617.310053
PCH_VEG_FARMS_07_12	2793.0	22.926982	112.349444	-100.000000	-31.250000	0.000000	40.000000	1800.000000
PCH_VEG_ACRES_07_12	2060.0	59.202488	520.868530	-100.000000	-29.988167	6.666667	60.494643	22109.090910
PCH_VEG_ACRESPTH_07_12	2245.0	-1.455243	4.235496	-43.113542	-3.569768	-0.876435	1.284643	13.395686
PCH_FRESHVEG_FARMS_07_12	2779.0	23.495800	111.786688	-100.000000	-33.333333	0.000000	41.666667	1800.000000
PCH_FRESHVEG_ACRES_07_12	1052.0	18.542381	136.981782	-100.000000	-43.012120	-6.412130	38.591430	1933.333333
PCH_FRESHVEG_ACRESPTH_07_12	1052.0	16.824489	136.162559	-100.000000	-44.936097	-8.756606	35.878513	1888.417050
PCH_ORCHARD_FARMS_07_12	2720.0	7.151707	82.258592	-100.000000	-35.953125	-8.333333	27.010490	1000.000000
PCH_ORCHARD_ACRES_07_12	2021.0	25.075102	152.529453	-100.000000	-31.111111	-2.666667	37.751756	3712.500000
PCH_ORCHARD_ACRESPTH_07_12	2021.0	23.212938	152.147979	-100.000000	-33.064346	-4.677203	36.006781	3839.058815
PCH_BERRY_FARMS_07_12	2236.0	44.489972	135.947625	-100.000000	-32.000000	14.285714	77.777778	1700.000000
PCH_BERRY_ACRES_07_12	1273.0	55.564751	222.350972	-100.000000	-30.434783	4.317959	66.666667	4400.000000
PCH_BERRY_ACRESPTH_07_12	1273.0	51.712638	214.445841	-100.000000	-32.889169	3.166085	60.954730	4162.112815
PCH_SLHOUSE_07_12	2977.0	-5.474154	35.630188	-100.000000	0.000000	0.000000	0.000000	300.000000
PCH_GHVEG_FARMS_07_12	1201.0	94.129127	201.710230	-100.000000	-25.000000	50.000000	166.666667	1900.000000
PCH_GHVEG_SQFT_07_12	342.0	292.483990	1548.392983	-100.000000	5.759483	91.526644	247.556103	27641.176470

	count	mean	std	min	25%	50%	75%	max
vote_diff_rep	3107.0	3.670384	5.720904	-37.618717	0.652689	3.666657	7.236847	23.116316

Fig 9.4. Summary Values for All Non-Parametric Chosen Variables

	count	mean	std	min	25%	50%	75%	max
Year	6217.0	2013.999678	2.000161	2012.000000	2012.000000	2012.000000	2016.000000	2016.000000
Total population	6217.0	50.077922	28.959015	0.031056	24.961192	49.875776	75.318224	100.000000
Female	6217.0	50.007898	2.324256	21.513413	49.525102	50.455131	51.152238	58.499127
Median age years	6217.0	50.673028	28.890962	0.031046	25.737349	51.335404	75.714286	100.000000
One race_White	6217.0	84.024001	16.197922	3.551853	77.681818	90.426855	95.661976	100.000000
One race_Black or African American	6217.0	9.079499	14.593528	0.000000	0.582656	2.195591	10.438269	86.193982
One race_American Indian and Alaska Native	6217.0	1.615628	6.460637	0.000000	0.155402	0.329521	0.764706	95.673463
One race_Asian_Asian Indian	6217.0	0.228120	0.632353	0.000000	0.000000	0.034663	0.208621	14.739641
One race_Asian_Chinese	6217.0	0.228378	0.692523	0.000000	0.000000	0.064949	0.227614	21.213198
One race_Asian_Filipino	6217.0	0.183361	0.462540	0.000000	0.000000	0.073484	0.198646	10.388598
One race_Asian_Other Asian	6217.0	0.288982	0.557830	0.000000	0.016200	0.127924	0.332431	10.445273
One race_Native Hawaiian and Other Pacific Islander	6217.0	0.061025	0.159876	0.000000	0.000000	0.004284	0.055448	3.541578
One race_Some other race	6217.0	2.012532	3.598273	0.000000	0.275000	0.797179	2.196193	52.085506
Two or more races_White and Black or African American	6217.0	0.512917	0.451602	0.000000	0.191642	0.418755	0.728379	5.957447
Two or more races_White and American Indian and Alaska Native	6217.0	0.813368	1.353292	0.000000	0.270124	0.464935	0.846884	21.065546
Two or more races_White and Asian	6217.0	0.233851	0.295554	0.000000	0.024453	0.148372	0.332060	3.486185
Two or more races_Black or African American and American Indian and Alaska Native	6217.0	0.060387	0.128360	0.000000	0.000000	0.009160	0.067374	2.091978
Hispanic or Latino of any race	6217.0	8.658611	13.493925	0.000000	1.761879	3.507414	8.756817	98.958862

	count	mean	std	min	25%	50%	75%	max
Hispanic or Latino of any race_Mexican	6217.0	6.565092	12.021754	0.000000	1.012820	2.167512	5.790885	96.506357
Hispanic or Latino of any race_Puerto Rican	6217.0	0.485637	1.263627	0.000000	0.031551	0.179263	0.440320	30.462685
Hispanic or Latino of any race_Cuban	6217.0	0.134158	0.740410	0.000000	0.000000	0.028578	0.116488	35.668015
_Total housing units	6217.0	50.173997	28.952075	0.031046	25.023285	50.170754	75.411363	100.000000
In labor force_Civilian labor force_Employed	6217.0	91.736720	4.183385	29.900280	89.781402	92.249637	94.366099	100.000000
In labor force_Civilian labor force_Unemployed	6217.0	7.806096	3.567611	0.000000	5.430307	7.460945	9.754479	29.927415
In labor force_Armed Forces	6217.0	0.457185	2.200237	0.000000	0.000000	0.072691	0.209240	66.422562
Females 16 years and over	6217.0	50.342649	2.749346	21.132898	49.793585	50.884533	51.704429	59.943921
_COMMUTING TO WORK_Car, truck, or van -- drove alone	6217.0	79.036804	6.817637	6.036683	76.446281	80.339027	83.297030	93.922652
_COMMUTING TO WORK_Car, truck, or van -- carpoled	6217.0	10.552386	2.950147	0.000000	8.607481	10.158014	12.082750	30.372149
_COMMUTING TO WORK_Public transportation excluding taxicab	6217.0	0.954140	3.068265	0.000000	0.113122	0.343671	0.775901	61.760340
_COMMUTING TO WORK_Walked	6217.0	3.123380	2.758155	0.000000	1.431640	2.350585	3.945300	36.912114
_COMMUTING TO WORK_Worked at home	6217.0	4.787175	3.276427	0.000000	2.837665	4.038809	5.772889	49.184149
_COMMUTING TO WORK_Mean travel time to work minutes	6217.0	49.778899	28.509167	0.372555	25.310559	49.565352	74.208075	100.000000
_OCCUPATION_Management, business, science, and arts occupations	6217.0	30.861566	6.483274	11.795544	26.487428	29.806875	34.185606	69.474095
_OCCUPATION_Service occupations	6217.0	18.134804	3.607465	4.850746	15.812204	17.825654	20.037987	38.431201
_OCCUPATION_Sales and office occupations	6217.0	22.295704	3.235372	4.958678	20.306029	22.533100	24.508334	50.769231
_OCCUPATION_Natural resources, construction, and maintenance occupations	6217.0	12.878935	4.239307	1.893043	10.029804	12.360733	15.044248	45.510836
_OCCUPATION_Production, transportation, and material moving occupations	6217.0	15.828990	5.750197	0.000000	11.528150	15.455807	19.521343	48.717949
_INDUSTRY_Agriculture, forestry, fishing and hunting, and mining	6217.0	6.902184	7.464220	0.000000	1.839055	4.275947	9.171313	59.294118
	count	mean	std	min	25%	50%	75%	max
_INDUSTRY_Construction	6217.0	7.331474	2.371626	0.000000	5.767617	6.995966	8.569132	23.484070
_INDUSTRY_Manufacturing	6217.0	12.276006	7.013109	0.000000	6.833656	11.484165	16.763640	48.258305
_INDUSTRY_Wholesale trade	6217.0	2.435069	1.192019	0.000000	1.708880	2.338227	3.055556	20.507000
_INDUSTRY_Retail trade	6217.0	11.427652	2.405289	0.000000	10.110086	11.500869	12.817774	30.923981
_INDUSTRY_Transportation and warehousing, and utilities	6217.0	5.428907	2.003068	0.000000	4.126938	5.110069	6.410256	26.776860
_INDUSTRY_Information	6217.0	1.449791	0.841695	0.000000	0.923564	1.351845	1.836242	15.751295
_INDUSTRY_Finance and insurance, and real estate and rental and leasing	6217.0	4.652983	1.917449	0.000000	3.461202	4.345127	5.519802	22.767070
_INDUSTRY_Professional, scientific, and management, and administrative and waste management services	6217.0	6.649164	3.226192	0.000000	4.551084	6.035416	8.155457	57.362100
_INDUSTRY_Educational services, and health care and social assistance	6217.0	23.013534	4.607568	2.564103	20.130973	22.657826	25.562252	48.451818
_INDUSTRY_Arts, entertainment, and recreation, and accommodation and food services	6217.0	8.080518	3.537491	0.000000	5.931987	7.626076	9.502141	44.244004
_INDUSTRY_Other services, except public administration	6217.0	4.704831	1.249764	0.000000	4.027956	4.684173	5.339557	13.333333
_INDUSTRY_Public administration	6217.0	5.647885	3.160711	0.000000	3.586108	4.791392	6.722201	33.956214
_CLASS OF WORKER_Private wage and salary workers	6217.0	74.242237	7.669653	27.956989	70.664928	75.605001	79.496261	88.546314
_CLASS OF WORKER_Government workers	6217.0	17.340757	6.127882	5.633803	13.127572	16.197032	20.129470	65.435191
_CLASS OF WORKER_Self-employed in own not incorporated business workers	6217.0	8.131403	4.079207	0.000000	5.461184	7.042146	9.610541	38.472419
_CLASS OF WORKER_Unpaid family workers	6217.0	0.285603	0.470121	0.000000	0.080308	0.168726	0.324832	11.852704
Total households	6217.0	50.208636	28.940892	0.031046	25.023285	50.139708	75.411363	100.000000
With earnings_Mean earnings dollars	6217.0	50.911356	28.128654	1.707544	26.614907	50.822728	75.155280	100.000000
With Social Security	6217.0	35.370070	7.125975	11.848753	30.939194	35.539260	39.899236	76.753373
With Social Security_Mean Social Security income dollars	6217.0	51.480027	28.100464	0.124185	27.227569	51.552313	75.814964	100.000000



	count	mean	std	min	25%	50%	75%	max
With retirement income	6217.0	19.358793	5.076345	0.000000	15.922987	19.217614	22.553880	51.659171
With Supplemental Security Income	6217.0	5.621193	2.889843	0.000000	3.674669	5.068282	6.966815	25.289751
With cash public assistance income	6217.0	2.433156	1.585097	0.000000	1.485342	2.159656	3.036267	30.650407
With Food Stamp/SNAP benefits in the past 12 months	6217.0	13.514114	6.483557	0.000000	8.792012	12.735327	17.263823	54.706685
Families	6217.0	67.425980	5.299451	41.021580	64.405605	67.566901	70.666206	89.054888
Median family income dollars	6217.0	50.925199	28.066487	1.708075	26.645963	50.838509	75.162993	100.000000
Mean family income dollars	6217.0	50.910111	28.101886	2.111801	26.583851	50.807453	75.162993	100.000000
Per capita income dollars	6217.0	50.924479	28.070149	1.180124	26.637690	50.916149	75.124224	100.000000
Nonfamily households	6217.0	32.574020	5.299451	10.945112	29.333794	32.433099	35.594395	58.978420
Median nonfamily income dollars	6217.0	50.829453	28.022089	1.024845	26.645963	50.791680	75.031056	100.000000
Mean nonfamily income dollars	6217.0	50.783941	28.059741	0.776156	26.552795	50.745342	74.976715	100.000000
Median earnings for male full-time, year-round workers dollars	6217.0	50.912499	28.048070	0.248447	26.653213	50.853772	75.093168	100.000000
Civilian noninstitutionalized population	6217.0	97.381536	4.112341	40.677966	97.720798	98.671096	99.085456	100.000000
With health insurance coverage_With private health insurance	6217.0	64.885678	10.742530	16.069924	57.882632	65.732218	72.701556	92.855030
With health insurance coverage_With public coverage	6217.0	35.479437	8.014178	10.149966	30.007292	35.480360	40.821013	66.281233
No health insurance coverage	6217.0	13.619275	5.546746	2.117647	9.529433	12.994967	16.840178	46.588694
Civilian noninstitutionalized population under 18 years	6217.0	23.476115	3.448116	0.000000	21.440000	23.436468	25.299294	41.540287
Civilian noninstitutionalized population 18 to 64 years	6217.0	59.878195	3.546616	34.563462	57.854804	59.849913	61.680059	94.117647
Urban_Inside urbanized areas	6216.0	18.546115	33.374155	0.000000	0.000000	0.000000	17.669855	100.000000
Urban_Inside urban clusters	6216.0	22.055423	23.432656	0.000000	0.000000	16.093985	39.526149	100.000000

	count	mean	std	min	25%	50%	75%	max
Rural	6216.0	59.398462	31.484394	0.000000	34.388606	60.586481	88.536961	100.000000
Male_Ed_Less_Than_High_School	6217.0	16.827748	7.338721	1.111111	11.312072	15.451427	21.353581	51.865972
Male_Ed_High_School_Graduated	6217.0	36.397218	7.525590	6.632099	31.533577	36.836388	41.632983	89.221538
Male_Ed_Some_College_Or_Associates	6217.0	29.283526	5.950844	6.200000	25.395851	29.342313	33.159787	60.284499
Male_Ed_Bachelors_Degree_Or_Higher	6217.0	17.491936	8.501019	0.000000	11.689237	15.499533	21.123216	76.591333
Female_Ed_Less_Than_High_School	6217.0	13.945711	6.186332	0.564972	9.324687	12.827531	17.712403	51.546392
Female_Ed_High_School_Graduated	6217.0	33.133151	6.662553	7.679527	28.836755	33.380675	37.734324	54.075032
Female_Ed_Some_College_Or_Associates	6217.0	33.626273	5.468187	10.925213	29.980989	33.469480	37.226592	62.985394
Female_Ed_Bachelors_Degree_Or_Higher	6217.0	19.294921	7.839338	2.633333	13.920180	17.564219	22.682835	75.539967
total_votes_x	6216.0	57.095031	9.730132	15.209542	50.717372	57.245024	63.589010	116.926070
republican_vote_percent_x	6216.0	61.455151	15.356414	4.087474	52.067471	63.488299	72.933240	96.033403
democrat_vote_percent_x	6216.0	34.946473	15.349660	3.144654	23.354675	32.920656	44.518845	93.386328
Age_0_To_9	6217.0	12.338447	2.243323	0.000000	10.995770	12.236755	13.522981	24.583333
Age_10_To_19	6217.0	13.285678	1.953162	0.000000	12.176109	13.277993	14.330140	27.330870
Age_20_To_24	6217.0	6.276158	2.530040	0.284900	5.047170	5.807826	6.768792	32.503577
Age_25_To_44	6217.0	23.501804	3.308163	8.612848	21.553714	23.419732	25.273793	45.882353
Age_45_To_64	6217.0	27.732364	3.158840	9.038882	26.133350	27.861534	29.418433	55.066079
Age_65_To_44	6217.0	16.865549	4.400899	3.854570	13.960987	16.493235	19.316202	53.106375
Income_0k_25k	6217.0	27.484039	8.244248	4.910984	21.823111	26.856946	32.535628	60.202840
Income_25k_50k	6217.0	26.661313	4.039766	8.108108	24.543564	26.977897	29.142687	47.297297

	count	mean	std	min	25%	50%	75%	max
Income_50k_75k	6217.0	18.656202	2.867973	6.640106	16.895522	18.732724	20.471281	30.781628
Income_75k_100k	6217.0	11.537413	2.777999	0.000000	9.705698	11.630427	13.389457	32.432432
Income_100k_200k	6217.0	13.122507	5.819593	1.736466	9.186124	11.947898	15.736719	41.665147
Income_Over_200k	6217.0	2.538526	2.383523	0.000000	1.218750	1.906135	2.993379	25.315978
vote_diff_rep	6216.0	3.224268	4.710304	-37.618717	0.661673	2.996110	5.755905	28.372146

**List 9.1.** Synthetic Control Process Detail

1. Research, identify and evaluate data set for the predictors and outcome variable.
  - Predictor variables should affect election trend outcomes before and after treatment.
  - Include predictor variables in lagged format with original predictors. The lagged variables can be chosen based on if they accentuate the trend of the outcome before a treatment.
  - Determine the pre-treatment year or range. In the case of election trending evaluations it would be before a selected county had flipped from Democrat to Republican in the 2016 election.
2. Identify the potential counterfactual counties to create the hypothetical control county.
  - States that are considered in the ‘donor’ group must have variables of predictors that are closely related to the values of the treated county before the treatment.
  - The values of the counterfactual control county must have values of the predictors that fall in an average and cannot be the highest or lowest extremes.
  - Any counties that can be determined to have had a similar treatment must be excluded from the potential ‘donor’ group of counties.
3. Select the method for determining predictor weights.
  - Ideal weights will lessen the synthetic’s mean squared prediction error.
  - Cross-validation method is another way to achieve this but there is the standard way that is preferred and considered “safe”.
4. Assessment of the pretreatment period and *goodness of fit* (a statistical hypothesis test to see how well sample data fit a distribution from a population with a normal distribution) of the counterfactual control county.
  - It is important to evaluate the outcome path of the counterfactual control county during the pretreatment period. This can be done by reviewing the appearance of the treated county after the period marker change and the score of the root mean squared prediction error.
  - Judge the predictor weights to establish the predictor variables have power in explaining the outcome

- Overview of the state of weights to determine if similarities between the potential counterfactual counties and the treated county.
  - Consider, it could be more important for the trend of the outcome of the treated an counterfactual counties to be similar than the averages of the counties be similar.

If the fit of the model reflects a poor result in the *goodness of fit* test, then there are steps you can take to start to evaluate the fit issue.

- Lagging all variables to test the change in the *goodness of fit* test
5. To further mimic the randomized assignment model, the completion of placebo tests on counties in the potential counterfactual group allows researchers to evaluate the significance of the results for the county that underwent treatment.
    - Substantiation there is evidence the treatment had an effect on the country is measured as: the posttreatment difference between the treated county and the counterfactual control county is larger than the difference for th most of the placebo counties.
    - Confirmation of significance can be indicative of an effect instead of a full rejection of the null hypothesis.
  6. Round out the study with sensitivity tests to allow for further analysis of the integrity of the results.

**Fig 9.5.** Variable Importance List from Random Forest Regressor

<b>Predictor</b>
One Race Black or African American
Hispanic or Latino of any Race
Median Non-family Income Dollars
Male Education Some College or Associates
Rural
Voter Turnout
Republican Vote Percentage

**Fig 9.6** Veg Farm Acreage: Full Non-parametric W weight list

<b>County</b>	<b>W Weight</b>
Abbeville County, South Carolina	0.000
Accomack County, Virginia	0.000
Adair County, Iowa	0.000
Adair County, Kentucky	0.000
Adair County, Missouri	0.000
Adair County, Oklahoma	0.000
Adams County, Illinois	0.000
Adams County, Indiana	0.000
Adams County, Nebraska	0.000
Adams County, Ohio	0.000
Adams County, Pennsylvania	0.000
Adams County, Wisconsin	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000
Albany County, New York	0.000
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, Illinois	0.000
Alexander County, North Carolina	0.000
Alger County, Michigan	0.000
Allamakee County, Iowa	0.000
Allegan County, Michigan	0.000
Allegany County, Maryland	0.000

Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Allegheny County, Pennsylvania	0.000
Allen County, Indiana	0.000
Allen County, Kentucky	0.000
Allen Parish, Louisiana	0.000
Allendale County, South Carolina	0.000
Alpena County, Michigan	0.000
Amador County, California	0.000
Amelia County, Virginia	0.000
Amherst County, Virginia	0.000
Amite County, Mississippi	0.000
Anderson County, Kansas	0.006
Anderson County, Kentucky	0.000
Anderson County, Tennessee	0.000
Anderson County, Texas	0.000
Andrew County, Missouri	0.000
Androscoggin County, Maine	0.000
Angelina County, Texas	0.004
Anoka County, Minnesota	0.000
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000
Appanoose County, Iowa	0.000
Appling County, Georgia	0.000

Aransas County, Texas	0.000
Arenac County, Michigan	0.000
Armstrong County, Pennsylvania	0.000
Aroostook County, Maine	0.000
Ashe County, North Carolina	0.005
Ashland County, Ohio	0.000
Ashland County, Wisconsin	0.000
Ashley County, Arkansas	0.000
Ashtabula County, Ohio	0.000
Asotin County, Washington	0.000
Atchison County, Kansas	0.000
Athens County, Ohio	0.000
Atkinson County, Georgia	0.000
Atlantic County, New Jersey	0.000
Atoka County, Oklahoma	0.000
Attala County, Mississippi	0.000
Audrain County, Missouri	0.000
Auglaize County, Ohio	0.000
Augusta County, Virginia	0.000
Avery County, North Carolina	0.024
Avoyelles Parish, Louisiana	0.000
Bacon County, Georgia	0.000
Bailey County, Texas	0.000
Baker County, Florida	0.000
Baker County, Georgia	0.000

Baker County, Oregon	0.000
Baldwin County, Georgia	0.000
Ballard County, Kentucky	0.000
Baltimore County, Maryland	0.000
Bamberg County, South Carolina	0.000
Baraga County, Michigan	0.000
Barbour County, Alabama	0.000
Barnstable County, Massachusetts	0.000
Barnwell County, South Carolina	0.000
Barren County, Kentucky	0.000
Barron County, Wisconsin	0.000
Barry County, Michigan	0.000
Bates County, Missouri	0.000
Bath County, Kentucky	0.000
Bath County, Virginia	0.000
Baxter County, Arkansas	0.000
Bay County, Michigan	0.000
Bayfield County, Wisconsin	0.000
Beaufort County, North Carolina	0.000
Beaver County, Pennsylvania	0.000
Beaverhead County, Montana	0.000
Bedford County, Pennsylvania	0.000
Belknap County, New Hampshire	0.000
Bell County, Kentucky	0.000
Belmont County, Ohio	0.000

Bennington County, Vermont	0.000
Bent County, Colorado	0.000
Benton County, Indiana	0.000
Benton County, Iowa	0.000
Benton County, Minnesota	0.007
Benton County, Mississippi	0.000
Benton County, Missouri	0.000
Benton County, Oregon	0.018
Benton County, Tennessee	0.000
Benzie County, Michigan	0.000
Bergen County, New Jersey	0.000
Berks County, Pennsylvania	0.000
Berkshire County, Massachusetts	0.000
Berrien County, Michigan	0.000
Bertie County, North Carolina	0.000
Bibb County, Alabama	0.000
Bienville Parish, Louisiana	0.000
Black Hawk County, Iowa	0.000
Bladen County, North Carolina	0.000
Blaine County, Idaho	0.025
Blaine County, Montana	0.000
Blair County, Pennsylvania	0.000
Bland County, Virginia	0.000
Bledsoe County, Tennessee	0.000
Blount County, Alabama	0.000



Blount County, Tennessee	0.000
Bolivar County, Mississippi	0.000
Bond County, Illinois	0.000
Bonner County, Idaho	0.000
Boone County, Arkansas	0.000
Boone County, Illinois	0.000
Boone County, Iowa	0.000
Botetourt County, Virginia	0.000
Boundary County, Idaho	0.000
Bourbon County, Kansas	0.000
Bourbon County, Kentucky	0.000
Bowie County, Texas	0.000
Box Butte County, Nebraska	0.000
Boyd County, Kentucky	0.000
Boyle County, Kentucky	0.000
Bracken County, Kentucky	0.000
Bradford County, Florida	0.000
Bradford County, Pennsylvania	0.000
Bradley County, Arkansas	0.000
Branch County, Michigan	0.000
Breathitt County, Kentucky	0.000
Breckinridge County, Kentucky	0.000
Bremer County, Iowa	0.000
Bristol County, Massachusetts	0.000
Bristol County, Rhode Island	0.000

Brooks County, Georgia	0.000
Brooks County, Texas	0.000
Broome County, New York	0.000
Brown County, Indiana	0.000
Brown County, Minnesota	0.000
Brown County, Ohio	0.000
Brown County, Texas	0.000
Brunswick County, Virginia	0.000
Buchanan County, Missouri	0.000
Buckingham County, Virginia	0.000
Bucks County, Pennsylvania	0.000
Buffalo County, Wisconsin	0.000
Bullock County, Alabama	0.000
Bureau County, Illinois	0.000
Burke County, Georgia	0.000
Burke County, North Carolina	0.000
Burlington County, New Jersey	0.000
Burnett County, Wisconsin	0.000
Burt County, Nebraska	0.000
Butler County, Alabama	0.000
Butler County, Kansas	0.000
Butler County, Kentucky	0.000
Butler County, Missouri	0.000
Butler County, Nebraska	0.000
Butler County, Ohio	0.000

Butler County, Pennsylvania	0.000
Butte County, California	0.000
Cabell County, West Virginia	0.000
Caddo Parish, Louisiana	0.000
Calaveras County, California	0.000
Caldwell County, Kentucky	0.000
Caldwell County, Missouri	0.000
Caldwell County, North Carolina	0.000
Caledonia County, Vermont	0.000
Calhoun County, Alabama	0.000
Calhoun County, Arkansas	0.000
Calhoun County, Illinois	0.000
Calhoun County, Iowa	0.000
Calhoun County, Michigan	0.000
Calhoun County, Mississippi	0.000
Calhoun County, West Virginia	0.000
Callahan County, Texas	0.000
Callaway County, Missouri	0.000
Calvert County, Maryland	0.000
Cambria County, Pennsylvania	0.000
Camden County, New Jersey	0.000
Cameron County, Pennsylvania	0.000
Cameron Parish, Louisiana	0.000
Camp County, Texas	0.000
Campbell County, Kentucky	0.000

Campbell County, Tennessee	0.000
Campbell County, Virginia	0.000
Cannon County, Tennessee	0.000
Cape May County, New Jersey	0.000
Carbon County, Montana	0.000
Carbon County, Pennsylvania	0.000
Carbon County, Utah	0.000
Caribou County, Idaho	0.000
Carlton County, Minnesota	0.000
Caroline County, Maryland	0.000
Carroll County, Arkansas	0.000
Carroll County, Georgia	0.072
Carroll County, Indiana	0.000
Carroll County, Iowa	0.000
Carroll County, Kentucky	0.000
Carroll County, Maryland	0.000
Carroll County, Mississippi	0.000
Carroll County, Missouri	0.000
Carroll County, New Hampshire	0.000
Carroll County, Ohio	0.000
Carroll County, Tennessee	0.000
Carroll County, Virginia	0.000
Carter County, Kentucky	0.000
Carter County, Missouri	0.000
Carter County, Oklahoma	0.000

Carter County, Tennessee	0.000
Cascade County, Montana	0.000
Casey County, Kentucky	0.000
Cass County, Illinois	0.000
Cass County, Indiana	0.000
Cass County, Iowa	0.000
Cass County, Michigan	0.000
Cass County, Nebraska	0.000
Cass County, Texas	0.000
Caswell County, North Carolina	0.000
Catawba County, North Carolina	0.000
Cattaraugus County, New York	0.000
Cavalier County, North Dakota	0.000
Cayuga County, New York	0.000
Cecil County, Maryland	0.000
Cedar County, Iowa	0.000
Cedar County, Missouri	0.000
Cedar County, Nebraska	0.000
Cerro Gordo County, Iowa	0.000
Chambers County, Alabama	0.000
Chariton County, Missouri	0.000
Charlevoix County, Michigan	0.000
Charlotte County, Florida	0.000
Charlotte County, Virginia	0.000
Chase County, Nebraska	0.000

Chattooga County, Georgia	0.000
Chautauqua County, New York	0.000
Cheatham County, Tennessee	0.002
Cheboygan County, Michigan	0.000
Chemung County, New York	0.000
Chenango County, New York	0.000
Cherokee County, Alabama	0.000
Cherokee County, Kansas	0.000
Cherokee County, North Carolina	0.000
Cherokee County, South Carolina	0.000
Cherokee County, Texas	0.000
Cheshire County, New Hampshire	0.000
Chester County, South Carolina	0.000
Chester County, Tennessee	0.000
Chesterfield County, South Carolina	0.000
Cheyenne County, Nebraska	0.000
Chickasaw County, Iowa	0.000
Chickasaw County, Mississippi	0.000
Chilton County, Alabama	0.007
Chippewa County, Michigan	0.000
Chippewa County, Minnesota	0.000
Chippewa County, Wisconsin	0.000
Chittenden County, Vermont	0.010
Choctaw County, Alabama	0.000
Choctaw County, Mississippi	0.000

Choctaw County, Oklahoma	0.000
Chowan County, North Carolina	0.000
Christian County, Illinois	0.000
Christian County, Kentucky	0.014
Churchill County, Nevada	0.000
Citrus County, Florida	0.000
Claiborne County, Mississippi	0.000
Claiborne County, Tennessee	0.000
Claiborne Parish, Louisiana	0.000
Clallam County, Washington	0.000
Clare County, Michigan	0.000
Clarendon County, South Carolina	0.000
Clarion County, Pennsylvania	0.000
Clark County, Arkansas	0.000
Clark County, Illinois	0.000
Clark County, Kentucky	0.000
Clark County, Ohio	0.000
Clark County, Wisconsin	0.000
Clarke County, Alabama	0.000
Clarke County, Mississippi	0.000
Clarke County, Virginia	0.000
Clatsop County, Oregon	0.000
Clay County, Georgia	0.000
Clay County, Indiana	0.000
Clay County, Kansas	0.000

Clay County, Kentucky	0.000
Clay County, Mississippi	0.000
Clay County, Nebraska	0.000
Clay County, North Carolina	0.000
Clay County, South Dakota	0.006
Clay County, Texas	0.000
Clayton County, Iowa	0.000
Clearfield County, Pennsylvania	0.000
Cleburne County, Alabama	0.000
Clermont County, Ohio	0.031
Cleveland County, North Carolina	0.000
Clinton County, Illinois	0.000
Clinton County, Indiana	0.000
Clinton County, Iowa	0.000
Clinton County, Kentucky	0.000
Clinton County, Michigan	0.000
Clinton County, Missouri	0.000
Clinton County, New York	0.000
Clinton County, Ohio	0.000
Clinton County, Pennsylvania	0.000
Cloud County, Kansas	0.000
Coahoma County, Mississippi	0.000
Cochise County, Arizona	0.044
Cocke County, Tennessee	0.000
Codington County, South Dakota	0.000



Coffee County, Tennessee	0.000
Coffey County, Kansas	0.000
Colbert County, Alabama	0.000
Cole County, Missouri	0.022
Coles County, Illinois	0.000
Colleton County, South Carolina	0.000
Colorado County, Texas	0.000
Columbia County, Arkansas	0.000
Columbia County, Florida	0.000
Columbia County, New York	0.000
Columbia County, Oregon	0.000
Columbia County, Pennsylvania	0.000
Columbia County, Wisconsin	0.000
Columbiana County, Ohio	0.000
Columbus County, North Carolina	0.000
Colusa County, California	0.006
Comanche County, Texas	0.000
Conecuh County, Alabama	0.000
Conejos County, Colorado	0.000
Conway County, Arkansas	0.000
Cook County, Georgia	0.000
Cook County, Illinois	0.000
Cooke County, Texas	0.000
Cooper County, Missouri	0.000
Coos County, New Hampshire	0.000

Coos County, Oregon	0.000
Coosa County, Alabama	0.000
Copiah County, Mississippi	0.000
Cortland County, New York	0.000
Coshocton County, Ohio	0.000
Costilla County, Colorado	0.000
Cotton County, Oklahoma	0.000
Covington County, Alabama	0.000
Covington County, Mississippi	0.000
Cowley County, Kansas	0.000
Cowlitz County, Washington	0.000
Craig County, Virginia	0.000
Crawford County, Arkansas	0.010
Crawford County, Indiana	0.000
Crawford County, Kansas	0.000
Crawford County, Missouri	0.000
Crawford County, Ohio	0.000
Crawford County, Pennsylvania	0.000
Crawford County, Wisconsin	0.000
Crenshaw County, Alabama	0.000
Crisp County, Georgia	0.000
Crittenden County, Kentucky	0.000
Crockett County, Tennessee	0.000
Cross County, Arkansas	0.000
Crow Wing County, Minnesota	0.000

Cullman County, Alabama	0.000
Cumberland County, Illinois	0.000
Cumberland County, Kentucky	0.000
Cumberland County, Maine	0.000
Cumberland County, New Jersey	0.000
Currituck County, North Carolina	0.015
Curry County, Oregon	0.000
Custer County, Nebraska	0.000
Cuyahoga County, Ohio	0.000
Dakota County, Minnesota	0.061
Dakota County, Nebraska	0.000
Dale County, Alabama	0.000
Dallas County, Alabama	0.000
Dallas County, Missouri	0.000
Darke County, Ohio	0.000
Darlington County, South Carolina	0.000
Dauphin County, Pennsylvania	0.000
Davidson County, North Carolina	0.000
Davie County, North Carolina	0.000
Daviess County, Kentucky	0.000
Daviess County, Missouri	0.000
Davis County, Iowa	0.000
Dawson County, Nebraska	0.000
De Soto Parish, Louisiana	0.000
DeKalb County, Alabama	0.000

DeKalb County, Illinois	0.033
DeKalb County, Indiana	0.000
Fluvanna County, Virginia	0.017
Fond du Lac County, Wisconsin	0.000
Forest County, Pennsylvania	0.000
Forrest County, Mississippi	0.016
Franklin County, Alabama	0.000
Franklin County, Georgia	0.000
Franklin County, Indiana	0.000
Franklin County, Iowa	0.000
Franklin County, Kansas	0.000
Franklin County, Kentucky	0.000
Franklin County, Maine	0.000
Franklin County, Massachusetts	0.000
Franklin County, Mississippi	0.000
Franklin County, Missouri	0.000
Franklin County, New York	0.000
Franklin County, Tennessee	0.000
Franklin County, Texas	0.000
Franklin County, Vermont	0.000
Franklin County, Virginia	0.000
Franklin Parish, Louisiana	0.000
Freeborn County, Minnesota	0.000
Freestone County, Texas	0.000
Fremont County, Colorado	0.000

Fremont County, Idaho	0.012
Fremont County, Iowa	0.000
Fulton County, Illinois	0.000
Fulton County, Indiana	0.000
Fulton County, New York	0.000
Fulton County, Ohio	0.000
Fulton County, Pennsylvania	0.000
Gadsden County, Florida	0.000
Gage County, Nebraska	0.000
Gallatin County, Kentucky	0.000
Gallia County, Ohio	0.000
Garland County, Arkansas	0.000
Garrard County, Kentucky	0.000
Garrett County, Maryland	0.000
Garvin County, Oklahoma	0.000
Gasconade County, Missouri	0.000
Geauga County, Ohio	0.000
Gem County, Idaho	0.000
Genesee County, Michigan	0.000
Genesee County, New York	0.000
Geneva County, Alabama	0.000
Gentry County, Missouri	0.000
Georgetown County, South Carolina	0.000
Gibson County, Indiana	0.000
Gibson County, Tennessee	0.000

Gila County, Arizona	0.000
Gilchrist County, Florida	0.000
Giles County, Tennessee	0.000
Giles County, Virginia	0.000
Gilmer County, Georgia	0.000
Glacier County, Montana	0.000
Gladwin County, Michigan	0.000
Glenn County, California	0.000
Gloucester County, New Jersey	0.000
Gloucester County, Virginia	0.000
Goliad County, Texas	0.001
Goochland County, Virginia	0.000
Goodhue County, Minnesota	0.000
Gooding County, Idaho	0.000
Grady County, Georgia	0.000
Grafton County, New Hampshire	0.000
Graham County, North Carolina	0.000
Grainger County, Tennessee	0.000
Grand Forks County, North Dakota	0.000
Grant County, Arkansas	0.000
Grant County, Indiana	0.000
Grant County, Kansas	0.016
Grant County, Kentucky	0.000
Grant County, New Mexico	0.000
Grant County, West Virginia	0.000

Grant County, Wisconsin	0.000
Granville County, North Carolina	0.000
Gratiot County, Michigan	0.000
Graves County, Kentucky	0.000
Grays Harbor County, Washington	0.000
Grayson County, Kentucky	0.000
Grayson County, Texas	0.000
Grayson County, Virginia	0.000
Green County, Kentucky	0.000
Green County, Wisconsin	0.000
Green Lake County, Wisconsin	0.000
Greenbrier County, West Virginia	0.000
Greene County, Alabama	0.000
Greene County, Indiana	0.000
Greene County, New York	0.000
Greene County, North Carolina	0.000
Greene County, Ohio	0.000
Greene County, Pennsylvania	0.000
Greene County, Tennessee	0.000
Greensville County, Virginia	0.000
Greenup County, Kentucky	0.000
Greenwood County, South Carolina	0.000
Grimes County, Texas	0.000
Grundy County, Missouri	0.000
Grundy County, Tennessee	0.000

Guadalupe County, New Mexico	0.000
Guernsey County, Ohio	0.000
Hale County, Alabama	0.000
Hale County, Texas	0.025
Halifax County, North Carolina	0.000
Halifax County, Virginia	0.000
Hamilton County, Florida	0.000
Hamilton County, Illinois	0.000
Hamilton County, Iowa	0.000
Hamilton County, Nebraska	0.000
Hamilton County, New York	0.000
Hamilton County, Ohio	0.000
Hampden County, Massachusetts	0.000
Hampshire County, Massachusetts	0.000
Hampshire County, West Virginia	0.000
Hampton County, South Carolina	0.000
Hancock County, Georgia	0.000
Hancock County, Kentucky	0.000
Hancock County, Maine	0.000
Hancock County, Ohio	0.000
Hancock County, Tennessee	0.000
Hancock County, West Virginia	0.000
Hanover County, Virginia	0.000
Hanson County, South Dakota	0.000
Haralson County, Georgia	0.000



Hardee County, Florida	0.000
Hardeman County, Tennessee	0.000
Hardin County, Iowa	0.000
Hardin County, Tennessee	0.000
Harford County, Maryland	0.029
Harrison County, Indiana	0.000
Harrison County, Iowa	0.000
Harrison County, Kentucky	0.000
Harrison County, Missouri	0.000
Harrison County, Ohio	0.000
Harrison County, West Virginia	0.000
Hart County, Georgia	0.000
Hart County, Kentucky	0.000
Hartford County, Connecticut	0.000
Harvey County, Kansas	0.000
Haskell County, Oklahoma	0.000
Hawkins County, Tennessee	0.000
Haywood County, North Carolina	0.000
Haywood County, Tennessee	0.000
Heard County, Georgia	0.000
Hempstead County, Arkansas	0.000
Henderson County, Illinois	0.000
Henderson County, Kentucky	0.000
Henderson County, Tennessee	0.000
Henderson County, Texas	0.000

Hendry County, Florida	0.015
Henry County, Alabama	0.000
Henry County, Illinois	0.000
Henry County, Indiana	0.000
Henry County, Iowa	0.000
Henry County, Kentucky	0.000
Henry County, Missouri	0.000
Henry County, Ohio	0.000
Henry County, Tennessee	0.000
Henry County, Virginia	0.000
Herkimer County, New York	0.000
Hernando County, Florida	0.000
Hertford County, North Carolina	0.000
Hickman County, Tennessee	0.000
Hidalgo County, New Mexico	0.000
Highland County, Ohio	0.000
Highland County, Virginia	0.000
Highlands County, Florida	0.000
Hill County, Montana	0.000
Hill County, Texas	0.000
Hillsborough County, New Hampshire	0.002
Hillsdale County, Michigan	0.000
Hinds County, Mississippi	0.000
Hocking County, Ohio	0.000
Hockley County, Texas	0.014

Holmes County, Florida	0.000
Holmes County, Mississippi	0.000
Holmes County, Ohio	0.010
Hopkins County, Kentucky	0.000
Hopkins County, Texas	0.000
Hot Spring County, Arkansas	0.000
Houghton County, Michigan	0.000
Houston County, Minnesota	0.000
Howard County, Iowa	0.000
Howard County, Missouri	0.000
Howard County, Nebraska	0.000
Howell County, Missouri	0.000
Hudspeth County, Texas	0.000
Hughes County, Oklahoma	0.000
Humboldt County, California	0.012
Humphreys County, Mississippi	0.000
Humphreys County, Tennessee	0.000
Hunt County, Texas	0.000
Hunterdon County, New Jersey	0.000
Huntingdon County, Pennsylvania	0.000
Huntington County, Indiana	0.000
Huron County, Michigan	0.000
Huron County, Ohio	0.000
Hutchinson County, South Dakota	0.000
Hyde County, North Carolina	0.000

Iberia Parish, Louisiana	0.000
Iberville Parish, Louisiana	0.000
Independence County, Arkansas	0.000
Indiana County, Pennsylvania	0.000
Ingham County, Michigan	0.000
Ionia County, Michigan	0.000
Iosco County, Michigan	0.000
Iowa County, Wisconsin	0.000
Iron County, Michigan	0.000
Iron County, Wisconsin	0.000
Irwin County, Georgia	0.000
Isabella County, Michigan	0.000
Isanti County, Minnesota	0.000
Island County, Washington	0.000
Isle of Wight County, Virginia	0.000
Itasca County, Minnesota	0.000
Itawamba County, Mississippi	0.000
Izard County, Arkansas	0.000
Jack County, Texas	0.000
Jackson County, Alabama	0.000
Jackson County, Arkansas	0.000
Jackson County, Florida	0.000
Jackson County, Illinois	0.005
Jackson County, Indiana	0.000
Jackson County, Iowa	0.000

Jackson County, Kansas	0.000
Jackson County, Kentucky	0.000
Jackson County, Michigan	0.000
Jackson County, Minnesota	0.000
Jackson County, Mississippi	0.016
Jackson County, Missouri	0.013
Jackson County, Ohio	0.000
Jackson County, Oregon	0.000
Jackson County, Tennessee	0.000
Jackson County, West Virginia	0.000
Jackson County, Wisconsin	0.000
Jackson Parish, Louisiana	0.000
Jasper County, Georgia	0.000
Jasper County, Indiana	0.000
Jasper County, Iowa	0.000
Jasper County, Mississippi	0.000
Jasper County, Missouri	0.000
Jasper County, Texas	0.000
Jefferson County, Alabama	0.015
Jefferson County, Arkansas	0.000
Jefferson County, Florida	0.000
Jefferson County, Georgia	0.000
Jefferson County, Indiana	0.000
Jefferson County, Iowa	0.000
Jefferson County, Kansas	0.000

Jefferson County, Missouri	0.000
Jefferson County, Ohio	0.000
Jefferson County, Oklahoma	0.000
Jefferson County, Pennsylvania	0.000
Jefferson County, Texas	0.000
Jefferson County, Washington	0.000
Jefferson County, Wisconsin	0.000
Jefferson Davis County, Mississippi	0.000
Jefferson Davis Parish, Louisiana	0.000
Jefferson Parish, Louisiana	0.035
Jennings County, Indiana	0.000
Jo Daviess County, Illinois	0.000
Johnson County, Arkansas	0.000
Johnson County, Georgia	0.000
Johnson County, Kentucky	0.000
Johnson County, Tennessee	0.000
Johnston County, Oklahoma	0.000
Jones County, Iowa	0.000
Jones County, Mississippi	0.000
Jones County, Texas	0.000
Josephine County, Oregon	0.000
Juniata County, Pennsylvania	0.000
Kalkaska County, Michigan	0.000
Kanabec County, Minnesota	0.000
Kanawha County, West Virginia	0.000

Kandiyohi County, Minnesota	0.000
Kankakee County, Illinois	0.000
Kay County, Oklahoma	0.000
Keith County, Nebraska	0.000
Kemper County, Mississippi	0.000
Kennebec County, Maine	0.000
Kenosha County, Wisconsin	0.000
Kent County, Maryland	0.000
Kent County, Michigan	0.036
Kent County, Rhode Island	0.000
Kenton County, Kentucky	0.000
Keokuk County, Iowa	0.000
Kewaunee County, Wisconsin	0.000
Kidder County, North Dakota	0.000
King and Queen County, Virginia	0.000
Kingfisher County, Oklahoma	0.000
Kingman County, Kansas	0.000
Kings County, California	0.000
Kittson County, Minnesota	0.000
Klamath County, Oregon	0.000
Knox County, Illinois	0.000
Knox County, Indiana	0.000
Knox County, Kentucky	0.000
Knox County, Maine	0.000
Knox County, Missouri	0.000

Knox County, Nebraska	0.000
Knox County, Ohio	0.000
Koochiching County, Minnesota	0.000
Kosciusko County, Indiana	0.000
Kossuth County, Iowa	0.000
La Paz County, Arizona	0.000
LaGrange County, Indiana	0.000
LaPorte County, Indiana	0.000
LaSalle County, Illinois	0.000
LaSalle Parish, Louisiana	0.000
Labette County, Kansas	0.000
Lackawanna County, Pennsylvania	0.000
Laclede County, Missouri	0.000
Lafayette County, Missouri	0.000
Lafayette County, Wisconsin	0.000
Lafourche Parish, Louisiana	0.000
Lake County, California	0.000
Lake County, Illinois	0.004
Lake County, Indiana	0.000
Lake County, Montana	0.000
Lake County, Ohio	0.000
Lamar County, Alabama	0.000
Lamar County, Georgia	0.000
Lamar County, Texas	0.000
Lampasas County, Texas	0.018



Lancaster County, Virginia	0.000
Langlade County, Wisconsin	0.000
Lapeer County, Michigan	0.000
Larue County, Kentucky	0.000
Lassen County, California	0.000
Lauderdale County, Alabama	0.000
Lauderdale County, Mississippi	0.000
Lauderdale County, Tennessee	0.000
Laurel County, Kentucky	0.000
Laurens County, Georgia	0.000
Laurens County, South Carolina	0.000
Lawrence County, Alabama	0.000
Lawrence County, Arkansas	0.000
Lawrence County, Illinois	0.000
Lawrence County, Indiana	0.000
Lawrence County, Kentucky	0.000
Lawrence County, Mississippi	0.000
Lawrence County, Missouri	0.000
Lawrence County, Ohio	0.000
Lawrence County, Pennsylvania	0.000
Lawrence County, South Dakota	0.000
Lawrence County, Tennessee	0.000
Le Flore County, Oklahoma	0.000
Le Sueur County, Minnesota	0.000
Leake County, Mississippi	0.000

Lee County, Arkansas	0.000
Lee County, Georgia	0.000
Lee County, Illinois	0.000
Lee County, Iowa	0.000
Lee County, Kentucky	0.000
Lee County, South Carolina	0.000
Lee County, Texas	0.000
Lee County, Virginia	0.000
Leelanau County, Michigan	0.000
Lenawee County, Michigan	0.000
Lenoir County, North Carolina	0.000
Leon County, Texas	0.000
Letcher County, Kentucky	0.000
Levy County, Florida	0.000
Lewis County, Kentucky	0.000
Lewis County, Missouri	0.000
Lewis County, New York	0.000
Lewis County, Tennessee	0.000
Lewis County, Washington	0.000
Lewis County, West Virginia	0.000
Liberty County, Texas	0.000
Licking County, Ohio	0.000
Limestone County, Texas	0.000
Lincoln County, Arkansas	0.000
Lincoln County, Kentucky	0.000

Lincoln County, Maine	0.000
Lincoln County, Mississippi	0.000
Lincoln County, Oklahoma	0.000
Lincoln County, Oregon	0.000
Lincoln County, Tennessee	0.000
Lincoln County, Washington	0.000
Lincoln County, West Virginia	0.000
Lincoln County, Wisconsin	0.000
Linn County, Missouri	0.000
Litchfield County, Connecticut	0.000
Little River County, Arkansas	0.000
Live Oak County, Texas	0.000
Livingston County, Illinois	0.000
Livingston County, Kentucky	0.000
Livingston County, Michigan	0.000
Livingston County, New York	0.000
Logan County, Arkansas	0.000
Logan County, Colorado	0.000
Logan County, Kentucky	0.000
Logan County, Ohio	0.000
Logan County, West Virginia	0.000
Lorain County, Ohio	0.000
Los Angeles County, California	0.021
Louisa County, Iowa	0.000
Love County, Oklahoma	0.000

Lowndes County, Alabama	0.000
Lowndes County, Mississippi	0.000
Lucas County, Iowa	0.000
Lucas County, Ohio	0.000
Luna County, New Mexico	0.000
Lunenburg County, Virginia	0.000
Luzerne County, Pennsylvania	0.000
Lycoming County, Pennsylvania	0.000
Lyon County, Kansas	0.000
Lyon County, Kentucky	0.000
Macomb County, Michigan	0.000
Macon County, Alabama	0.000
Macon County, Georgia	0.000
Macon County, Illinois	0.000
Macon County, Missouri	0.000
Macon County, North Carolina	0.000
Macoupin County, Illinois	0.000
Madison County, Arkansas	0.000
Madison County, Florida	0.000
Madison County, Georgia	0.000
Madison County, Illinois	0.000
Madison County, Indiana	0.000
Madison County, Montana	0.000
Madison County, Nebraska	0.000
Madison County, New York	0.000

Madison County, North Carolina	0.000
Madison County, Ohio	0.000
Madison County, Tennessee	0.000
Madison County, Virginia	0.000
Madison Parish, Louisiana	0.000
Magoffin County, Kentucky	0.000
Mahaska County, Iowa	0.000
Mahoning County, Ohio	0.000
Major County, Oklahoma	0.000
Malheur County, Oregon	0.000
Manistee County, Michigan	0.000
Manitowoc County, Wisconsin	0.000
Marathon County, Wisconsin	0.000
Marengo County, Alabama	0.000
Maries County, Missouri	0.000
Marinette County, Wisconsin	0.000
Marion County, Alabama	0.000
Marion County, Florida	0.000
Marion County, Illinois	0.000
Marion County, Iowa	0.000
Marion County, Kentucky	0.000
Marion County, Mississippi	0.000
Marion County, Ohio	0.000
Marion County, South Carolina	0.000
Marion County, West Virginia	0.000

Mariposa County, California	0.000
Marlboro County, South Carolina	0.000
Marquette County, Michigan	0.000
Marquette County, Wisconsin	0.000
Marshall County, Illinois	0.000
Marshall County, Indiana	0.000
Marshall County, Iowa	0.000
Marshall County, Kentucky	0.000
Marshall County, Minnesota	0.000
Marshall County, Mississippi	0.000
Marshall County, West Virginia	0.000
Martin County, Kentucky	0.000
Martin County, Minnesota	0.000
Mason County, Illinois	0.000
Mason County, Kentucky	0.000
Mason County, Michigan	0.000
Mason County, Washington	0.000
Mason County, West Virginia	0.000
Massac County, Illinois	0.000
Matagorda County, Texas	0.000
Mathews County, Virginia	0.000
Mayes County, Oklahoma	0.004
McCook County, South Dakota	0.001
McCracken County, Kentucky	0.000
McCulloch County, Texas	0.000

McCurtain County, Oklahoma	0.000
McDonald County, Missouri	0.000
McDonough County, Illinois	0.000
McDowell County, North Carolina	0.000
McDuffie County, Georgia	0.000
McHenry County, Illinois	0.000
McIntosh County, Oklahoma	0.000
McKean County, Pennsylvania	0.000
McLean County, Kentucky	0.000
McLeod County, Minnesota	0.000
McMinn County, Tennessee	0.000
McNairy County, Tennessee	0.000
McPherson County, Kansas	0.000
Meade County, Kentucky	0.000
Mecklenburg County, Virginia	0.000
Medina County, Ohio	0.000
Meeker County, Minnesota	0.000
Meigs County, Ohio	0.000
Meigs County, Tennessee	0.000
Menard County, Illinois	0.000
Mendocino County, California	0.000
Menifee County, Kentucky	0.000
Menominee County, Michigan	0.000
Mercer County, Kentucky	0.000
Mercer County, New Jersey	0.000

Mercer County, Ohio	0.000
Mercer County, Pennsylvania	0.000
Mercer County, West Virginia	0.000
Meriwether County, Georgia	0.000
Merrimack County, New Hampshire	0.000
Metcalfe County, Kentucky	0.000
Miami County, Indiana	0.000
Miami County, Kansas	0.000
Miami County, Ohio	0.000
Middlesex County, Connecticut	0.000
Midland County, Michigan	0.000
Mifflin County, Pennsylvania	0.000
Milam County, Texas	0.000
Mille Lacs County, Minnesota	0.000
Miller County, Arkansas	0.000
Miller County, Missouri	0.003
Mills County, Iowa	0.000
Milwaukee County, Wisconsin	0.000
Mineral County, West Virginia	0.000
Missaukee County, Michigan	0.000
Mississippi County, Arkansas	0.000
Mississippi County, Missouri	0.000
Mitchell County, Georgia	0.000
Mitchell County, Iowa	0.000
Mitchell County, North Carolina	0.000



Mobile County, Alabama	0.000
Modoc County, California	0.000
Moniteau County, Missouri	0.000
Monmouth County, New Jersey	0.000
Monroe County, Alabama	0.000
Monroe County, Kentucky	0.000
Monroe County, Michigan	0.000
Monroe County, Mississippi	0.000
Monroe County, Missouri	0.000
Monroe County, New York	0.000
Monroe County, Ohio	0.000
Monroe County, Pennsylvania	0.000
Monroe County, Tennessee	0.000
Monroe County, West Virginia	0.000
Monroe County, Wisconsin	0.000
Montague County, Texas	0.000
Montcalm County, Michigan	0.000
Montezuma County, Colorado	0.000
Montgomery County, Alabama	0.000
Montgomery County, Arkansas	0.000
Montgomery County, Georgia	0.000
Montgomery County, Illinois	0.000
Montgomery County, Indiana	0.000
Montgomery County, Kansas	0.000
Montgomery County, Mississippi	0.000

Montgomery County, New York	0.000
Montgomery County, North Carolina	0.000
Montgomery County, Ohio	0.000
Montgomery County, Pennsylvania	0.000
Montour County, Pennsylvania	0.000
Montrose County, Colorado	0.000
Moore County, Tennessee	0.000
Mora County, New Mexico	0.000
Morehouse Parish, Louisiana	0.000
Morgan County, Alabama	0.000
Morgan County, Colorado	0.000
Morgan County, Georgia	0.000
Morgan County, Illinois	0.000
Morgan County, Indiana	0.000
Morgan County, Kentucky	0.000
Morgan County, Missouri	0.000
Morgan County, Ohio	0.000
Morgan County, Tennessee	0.000
Morgan County, West Virginia	0.000
Morris County, New Jersey	0.023
Morris County, Texas	0.000
Morrison County, Minnesota	0.000
Morrow County, Ohio	0.000
Morrow County, Oregon	0.000
Moultrie County, Illinois	0.000

Mower County, Minnesota	0.000
Muhlenberg County, Kentucky	0.000
Murray County, Georgia	0.000
Muscatine County, Iowa	0.000
Muskegon County, Michigan	0.000
Muskingum County, Ohio	0.000
Muskogee County, Oklahoma	0.000
Nash County, North Carolina	0.000
Natchitoches Parish, Louisiana	0.000
Navajo County, Arizona	0.000
Navarro County, Texas	0.000
Nelson County, Virginia	0.000
Nemaha County, Nebraska	0.000
Neosho County, Kansas	0.000
Neshoba County, Mississippi	0.000
Nevada County, Arkansas	0.000
Nevada County, California	0.000
New Castle County, Delaware	0.000
New Haven County, Connecticut	0.000
New London County, Connecticut	0.000
Newaygo County, Michigan	0.000
Newberry County, South Carolina	0.000
Newport County, Rhode Island	0.000
Newton County, Arkansas	0.000
Newton County, Indiana	0.000

Newton County, Mississippi	0.000
Newton County, Missouri	0.000
Newton County, Texas	0.000
Nez Perce County, Idaho	0.000
Niagara County, New York	0.000
Nicholas County, Kentucky	0.000
Nicholas County, West Virginia	0.000
Nicollet County, Minnesota	0.000
Noble County, Indiana	0.000
Noble County, Oklahoma	0.000
Nodaway County, Missouri	0.000
Norman County, Minnesota	0.000
Northampton County, North Carolina	0.000
Northampton County, Pennsylvania	0.000
Northampton County, Virginia	0.000
Northumberland County, Pennsylvania	0.000
Northumberland County, Virginia	0.000
Nottoway County, Virginia	0.000
Noxubee County, Mississippi	0.000
O'Brien County, Iowa	0.000
Oakland County, Michigan	0.000
Obion County, Tennessee	0.000
Ocean County, New Jersey	0.000
Oceana County, Michigan	0.000
Oconee County, South Carolina	0.000

Oconto County, Wisconsin	0.000
Ogemaw County, Michigan	0.000
Ogle County, Illinois	0.000
Oglethorpe County, Georgia	0.000
Ohio County, Kentucky	0.000
Ohio County, West Virginia	0.000
Okfuskee County, Oklahoma	0.000
Okmulgee County, Oklahoma	0.000
Oneida County, New York	0.000
Oneida County, Wisconsin	0.000
Onondaga County, New York	0.000
Ontario County, New York	0.000
Orange County, Indiana	0.000
Orange County, New York	0.000
Orange County, Texas	0.000
Orange County, Vermont	0.000
Orangeburg County, South Carolina	0.000
Oregon County, Missouri	0.000
Orleans County, New York	0.000
Orleans County, Vermont	0.000
Osage County, Kansas	0.000
Osage County, Missouri	0.000
Osage County, Oklahoma	0.000
Osceola County, Michigan	0.000
Oscoda County, Michigan	0.000

Oswego County, New York	0.000
Otero County, Colorado	0.000
Otoe County, Nebraska	0.000
Otsego County, Michigan	0.000
Otsego County, New York	0.000
Ottawa County, Kansas	0.000
Ottawa County, Michigan	0.000
Ottawa County, Ohio	0.000
Otter Tail County, Minnesota	0.000
Ouachita County, Arkansas	0.000
Ouachita Parish, Louisiana	0.013
Outagamie County, Wisconsin	0.000
Owen County, Indiana	0.000
Owen County, Kentucky	0.000
Owsley County, Kentucky	0.000
Owyhee County, Idaho	0.000
Oxford County, Maine	0.000
Ozark County, Missouri	0.000
Ozaukee County, Wisconsin	0.000
Page County, Iowa	0.000
Palo Alto County, Iowa	0.000
Palo Pinto County, Texas	0.000
Panola County, Mississippi	0.000
Panola County, Texas	0.000
Park County, Montana	0.000

Parke County, Indiana	0.000
Parmer County, Texas	0.000
Pasquotank County, North Carolina	0.000
Passaic County, New Jersey	0.000
Patrick County, Virginia	0.000
Paulding County, Ohio	0.000
Pawnee County, Kansas	0.000
Payette County, Idaho	0.000
Pearl River County, Mississippi	0.011
Pecos County, Texas	0.000
Pembina County, North Dakota	0.000
Pendleton County, Kentucky	0.000
Pendleton County, West Virginia	0.000
Penobscot County, Maine	0.000
Peoria County, Illinois	0.000
Pepin County, Wisconsin	0.000
Perry County, Alabama	0.000
Perry County, Arkansas	0.000
Perry County, Illinois	0.000
Perry County, Kentucky	0.000
Perry County, Mississippi	0.000
Perry County, Missouri	0.000
Perry County, Ohio	0.000
Perry County, Pennsylvania	0.000
Perry County, Tennessee	0.000

Person County, North Carolina	0.000
Pettis County, Missouri	0.000
Phelps County, Missouri	0.000
Phillips County, Arkansas	0.000
Piatt County, Illinois	0.000
Pickaway County, Ohio	0.000
Pickens County, Alabama	0.000
Pickens County, Georgia	0.000
Pickens County, South Carolina	0.000
Pickett County, Tennessee	0.000
Pierce County, Wisconsin	0.000
Pike County, Georgia	0.026
Pike County, Illinois	0.000
Pike County, Indiana	0.000
Pike County, Mississippi	0.000
Pike County, Missouri	0.000
Pike County, Ohio	0.000
Pine County, Minnesota	0.000
Piscataquis County, Maine	0.000
Pittsburg County, Oklahoma	0.000
Pittsylvania County, Virginia	0.000
Pleasants County, West Virginia	0.000
Plumas County, California	0.000
Plymouth County, Iowa	0.000
Plymouth County, Massachusetts	0.000



Pocahontas County, West Virginia	0.000
Poinsett County, Arkansas	0.000
Polk County, Arkansas	0.000
Polk County, Georgia	0.000
Polk County, Minnesota	0.000
Polk County, Missouri	0.000
Polk County, North Carolina	0.000
Polk County, Tennessee	0.000
Polk County, Texas	0.000
Polk County, Wisconsin	0.000
Pondera County, Montana	0.000
Pope County, Minnesota	0.000
Portage County, Ohio	0.000
Portage County, Wisconsin	0.000
Porter County, Indiana	0.000
Posey County, Indiana	0.000
Pottawatomie County, Oklahoma	0.001
Pottawattamie County, Iowa	0.000
Potter County, Pennsylvania	0.000
Powell County, Kentucky	0.000
Power County, Idaho	0.000
Poweshiek County, Iowa	0.000
Powhatan County, Virginia	0.000
Preble County, Ohio	0.000
Prentiss County, Mississippi	0.000

Presidio County, Texas	0.000
Presque Isle County, Michigan	0.000
Preston County, West Virginia	0.000
Price County, Wisconsin	0.000
Providence County, Rhode Island	0.000
Pueblo County, Colorado	0.000
Pulaski County, Georgia	0.000
Pulaski County, Indiana	0.000
Pulaski County, Kentucky	0.000
Pushmataha County, Oklahoma	0.000
Putnam County, Florida	0.000
Putnam County, Indiana	0.000
Putnam County, New York	0.000
Putnam County, Ohio	0.000
Putnam County, West Virginia	0.017
Quitman County, Mississippi	0.000
Racine County, Wisconsin	0.000
Rains County, Texas	0.000
Raleigh County, West Virginia	0.000
Ralls County, Missouri	0.000
Randolph County, Alabama	0.000
Randolph County, Arkansas	0.000
Randolph County, Illinois	0.000
Randolph County, Missouri	0.000
Randolph County, North Carolina	0.000

Randolph County, West Virginia	0.000
Rapides Parish, Louisiana	0.000
Rappahannock County, Virginia	0.000
Ravalli County, Montana	0.000
Ray County, Missouri	0.000
Red River County, Texas	0.000
Red River Parish, Louisiana	0.000
Red Willow County, Nebraska	0.000
Redwood County, Minnesota	0.000
Refugio County, Texas	0.000
Reno County, Kansas	0.000
Rensselaer County, New York	0.000
Renville County, Minnesota	0.000
Republic County, Kansas	0.000
Reynolds County, Missouri	0.000
Rice County, Minnesota	0.000
Richland County, Ohio	0.000
Richland County, Wisconsin	0.000
Richland Parish, Louisiana	0.000
Richmond County, Georgia	0.000
Richmond County, North Carolina	0.000
Rio Grande County, Colorado	0.000
Ripley County, Indiana	0.000
Ritchie County, West Virginia	0.000
Roane County, Tennessee	0.000

Roane County, West Virginia	0.000
Roanoke County, Virginia	0.000
Roberts County, South Dakota	0.000
Robertson County, Kentucky	0.000
Robertson County, Texas	0.000
Rock County, Wisconsin	0.000
Rock Island County, Illinois	0.000
Rockcastle County, Kentucky	0.000
Rockingham County, New Hampshire	0.000
Rockingham County, North Carolina	0.000
Roscommon County, Michigan	0.000
Ross County, Ohio	0.000
Rowan County, Kentucky	0.000
Rowan County, North Carolina	0.000
Runnels County, Texas	0.000
Rusk County, Wisconsin	0.000
Russell County, Kentucky	0.000
Russell County, Virginia	0.000
Rutherford County, North Carolina	0.000
Rutland County, Vermont	0.000
Sabine County, Texas	0.000
Sabine Parish, Louisiana	0.000
Sac County, Iowa	0.000
Sagadahoc County, Maine	0.000
Saginaw County, Michigan	0.000

Saguache County, Colorado	0.000
Salem County, New Jersey	0.000
Saline County, Illinois	0.000
Saline County, Kansas	0.000
Saline County, Missouri	0.000
Saline County, Nebraska	0.000
Saluda County, South Carolina	0.000
Sampson County, North Carolina	0.000
San Augustine County, Texas	0.000
San Juan County, New Mexico	0.024
San Juan County, Washington	0.000
San Miguel County, Colorado	0.000
San Miguel County, New Mexico	0.000
San Patricio County, Texas	0.004
Sanborn County, South Dakota	0.000
Sanders County, Montana	0.000
Sandusky County, Ohio	0.000
Sangamon County, Illinois	0.000
Sanilac County, Michigan	0.000
Saratoga County, New York	0.000
Sauk County, Wisconsin	0.000
Saunders County, Nebraska	0.000
Sawyer County, Wisconsin	0.000
Schenectady County, New York	0.000
Schoharie County, New York	0.000

Schoolcraft County, Michigan	0.000
Schuyler County, New York	0.000
Schuylkill County, Pennsylvania	0.000
Scioto County, Ohio	0.000
Scotland County, Missouri	0.008
Scotland County, North Carolina	0.000
Scott County, Arkansas	0.000
Scott County, Indiana	0.000
Scott County, Mississippi	0.000
Scott County, Missouri	0.000
Scott County, Virginia	0.000
Scotts Bluff County, Nebraska	0.000
Screven County, Georgia	0.000
Searcy County, Arkansas	0.000
Sebastian County, Arkansas	0.000
Seminole County, Georgia	0.000
Seminole County, Oklahoma	0.000
Seneca County, New York	0.000
Seneca County, Ohio	0.000
Sevier County, Utah	0.018
Sharp County, Arkansas	0.000
Shasta County, California	0.000
Shawano County, Wisconsin	0.000
Shawnee County, Kansas	0.000
Sheboygan County, Wisconsin	0.000

Shelby County, Indiana	0.000
Shelby County, Iowa	0.000
Shelby County, Ohio	0.000
Shelby County, Tennessee	0.000
Shelby County, Texas	0.000
Shenandoah County, Virginia	0.000
Sheridan County, North Dakota	0.000
Shiawassee County, Michigan	0.000
Sibley County, Minnesota	0.000
Sierra County, New Mexico	0.000
Simpson County, Kentucky	0.000
Simpson County, Mississippi	0.000
Sioux County, Iowa	0.005
Siskiyou County, California	0.000
Skagit County, Washington	0.000
Smith County, Mississippi	0.000
Smith County, Tennessee	0.000
Smyth County, Virginia	0.000
Snyder County, Pennsylvania	0.000
Socorro County, New Mexico	0.000
Solano County, California	0.000
Somerset County, Maine	0.000
Somerset County, Maryland	0.000
Somerset County, New Jersey	0.000
Somerset County, Pennsylvania	0.000

Southampton County, Virginia	0.000
Spalding County, Georgia	0.000
Spencer County, Indiana	0.000
St. Charles Parish, Louisiana	0.000
St. Clair County, Illinois	0.000
St. Clair County, Michigan	0.000
St. Clair County, Missouri	0.000
St. Francis County, Arkansas	0.000
St. Francois County, Missouri	0.000
St. Helena Parish, Louisiana	0.000
St. James Parish, Louisiana	0.000
St. John the Baptist Parish, Louisiana	0.000
St. Joseph County, Indiana	0.000
St. Joseph County, Michigan	0.000
St. Landry Parish, Louisiana	0.000
St. Lawrence County, New York	0.000
St. Louis County, Minnesota	0.000
St. Louis County, Missouri	0.000
St. Martin Parish, Louisiana	0.000
Stanislaus County, California	0.018
Stanly County, North Carolina	0.000
Stanton County, Nebraska	0.000
Stark County, Illinois	0.000
Stark County, Ohio	0.000
Ste. Genevieve County, Missouri	0.000



Stearns County, Minnesota	0.000
Steele County, Minnesota	0.000
Stephenson County, Illinois	0.000
Steuben County, Indiana	0.000
Steuben County, New York	0.000
Stevens County, Minnesota	0.000
Stevens County, Washington	0.000
Stewart County, Tennessee	0.000
Stoddard County, Missouri	0.000
Stokes County, North Carolina	0.000
Stone County, Arkansas	0.000
Stone County, Missouri	0.000
Strafford County, New Hampshire	0.000
Suffolk County, New York	0.000
Sullivan County, Indiana	0.000
Sullivan County, Missouri	0.000
Sullivan County, New Hampshire	0.000
Sullivan County, New York	0.000
Sullivan County, Pennsylvania	0.000
Sullivan County, Tennessee	0.000
Summers County, West Virginia	0.000
Summit County, Ohio	0.000
Sumter County, Alabama	0.000
Sumter County, Georgia	0.000
Sumter County, South Carolina	0.000

Surry County, North Carolina	0.000
Surry County, Virginia	0.000
Susquehanna County, Pennsylvania	0.000
Sussex County, New Jersey	0.000
Sussex County, Virginia	0.000
Sutter County, California	0.000
Swain County, North Carolina	0.000
Swift County, Minnesota	0.000
Swisher County, Texas	0.000
Switzerland County, Indiana	0.000
Talbot County, Georgia	0.000
Talbot County, Maryland	0.000
Talladega County, Alabama	0.000
Tallahatchie County, Mississippi	0.000
Tallapoosa County, Alabama	0.000
Tama County, Iowa	0.000
Taos County, New Mexico	0.000
Tate County, Mississippi	0.000
Taylor County, Georgia	0.000
Taylor County, Kentucky	0.000
Taylor County, West Virginia	0.000
Taylor County, Wisconsin	0.000
Tazewell County, Illinois	0.000
Tazewell County, Virginia	0.000
Tehama County, California	0.000

Telfair County, Georgia	0.000
Terry County, Texas	0.000
Teton County, Montana	0.000
Texas County, Missouri	0.000
Thomas County, Georgia	0.000
Thomas County, Kansas	0.000
Tift County, Georgia	0.000
Tillamook County, Oregon	0.000
Tioga County, New York	0.000
Tioga County, Pennsylvania	0.000
Tippah County, Mississippi	0.000
Tipton County, Indiana	0.000
Tishomingo County, Mississippi	0.000
Todd County, Minnesota	0.000
Tolland County, Connecticut	0.000
Tompkins County, New York	0.000
Toombs County, Georgia	0.000
Traill County, North Dakota	0.000
Transylvania County, North Carolina	0.000
Trempealeau County, Wisconsin	0.000
Treutlen County, Georgia	0.000
Trigg County, Kentucky	0.000
Trimble County, Kentucky	0.000
Trinity County, California	0.000
Trinity County, Texas	0.000

Tripp County, South Dakota	0.000
Trumbull County, Ohio	0.000
Tucker County, West Virginia	0.000
Tuolumne County, California	0.000
Turner County, Georgia	0.000
Tuscarawas County, Ohio	0.000
Tuscola County, Michigan	0.000
Twiggs County, Georgia	0.000
Tyler County, Texas	0.000
Tyler County, West Virginia	0.000
Tyrrell County, North Carolina	0.000
Ulster County, New York	0.000
Umatilla County, Oregon	0.000
Unicoi County, Tennessee	0.000
Union County, Arkansas	0.000
Union County, Florida	0.000
Union County, Georgia	0.000
Union County, Illinois	0.000
Union County, Kentucky	0.000
Union County, Mississippi	0.000
Union County, Pennsylvania	0.000
Union County, South Carolina	0.000
Union County, Tennessee	0.000
Union Parish, Louisiana	0.000
Upshur County, West Virginia	0.000

Upson County, Georgia	0.000
Uvalde County, Texas	0.000
Valley County, Idaho	0.000
Van Buren County, Iowa	0.000
Van Buren County, Michigan	0.000
Van Wert County, Ohio	0.000
Van Zandt County, Texas	0.000
Vance County, North Carolina	0.000
Vanderburgh County, Indiana	0.000
Venango County, Pennsylvania	0.000
Vermilion County, Illinois	0.000
Vermilion Parish, Louisiana	0.000
Vernon County, Missouri	0.000
Vernon County, Wisconsin	0.000
Vigo County, Indiana	0.000
Vinton County, Ohio	0.000
Virginia Beach city, Virginia	0.015
Volusia County, Florida	0.000
Wabash County, Indiana	0.000
Wabasha County, Minnesota	0.000
Wabaunsee County, Kansas	0.000
Wahkiakum County, Washington	0.000
Waldo County, Maine	0.000
Walker County, Alabama	0.000
Walker County, Georgia	0.000

Wallowa County, Oregon	0.000
Walsh County, North Dakota	0.000
Walthall County, Mississippi	0.000
Walworth County, Wisconsin	0.000
Wapello County, Iowa	0.000
Warren County, Georgia	0.000
Warren County, Illinois	0.000
Warren County, New Jersey	0.000
Warren County, New York	0.000
Warren County, North Carolina	0.000
Warren County, Pennsylvania	0.000
Warren County, Tennessee	0.000
Waseca County, Minnesota	0.000
Washburn County, Wisconsin	0.000
Washington County, Alabama	0.000
Washington County, Georgia	0.000
Washington County, Idaho	0.000
Washington County, Illinois	0.000
Washington County, Indiana	0.000
Washington County, Iowa	0.000
Washington County, Kansas	0.000
Washington County, Kentucky	0.000
Washington County, Maine	0.000
Washington County, Maryland	0.000
Washington County, Missouri	0.000

Washington County, Nebraska	0.000
Washington County, New York	0.000
Washington County, North Carolina	0.000
Washington County, Ohio	0.000
Washington County, Oklahoma	0.000
Washington County, Pennsylvania	0.000
Washington County, Rhode Island	0.000
Washington County, Vermont	0.000
Washington County, Virginia	0.000
Washington County, Wisconsin	0.000
Washington Parish, Louisiana	0.000
Washtenaw County, Michigan	0.023
Watonwan County, Minnesota	0.000
Waukesha County, Wisconsin	0.000
Waupaca County, Wisconsin	0.000
Waushara County, Wisconsin	0.000
Wayne County, Georgia	0.000
Wayne County, Indiana	0.000
Wayne County, Iowa	0.000
Wayne County, Kentucky	0.000
Wayne County, Michigan	0.000
Wayne County, Mississippi	0.000
Wayne County, Missouri	0.000
Wayne County, New York	0.000
Wayne County, Ohio	0.000

Wayne County, Pennsylvania	0.000
Wayne County, Tennessee	0.000
Wayne County, Utah	0.001
Wayne County, West Virginia	0.000
Weakley County, Tennessee	0.000
Webster County, Georgia	0.000
Webster County, Iowa	0.000
Webster County, Mississippi	0.000
Webster County, Missouri	0.000
Webster County, Nebraska	0.000
Webster County, West Virginia	0.000
Webster Parish, Louisiana	0.000
Wells County, Indiana	0.000
Wells County, North Dakota	0.000
West Carroll Parish, Louisiana	0.000
West Feliciana Parish, Louisiana	0.000
Westchester County, New York	0.000
Westmoreland County, Pennsylvania	0.000
Westmoreland County, Virginia	0.000
Wetzel County, West Virginia	0.000
Wexford County, Michigan	0.000
Wharton County, Texas	0.004
Wheatland County, Montana	0.000
White County, Illinois	0.000
White County, Indiana	0.000



White County, Tennessee	0.000
Whiteside County, Illinois	0.000
Whitley County, Indiana	0.000
Whitley County, Kentucky	0.000
Wilcox County, Alabama	0.000
Wilcox County, Georgia	0.000
Wilkes County, Georgia	0.000
Wilkes County, North Carolina	0.000
Wilkinson County, Georgia	0.000
Wilkinson County, Mississippi	0.000
Will County, Illinois	0.006
Willacy County, Texas	0.000
Williams County, Ohio	0.000
Williamsburg County, South Carolina	0.000
Williamson County, Illinois	0.000
Wilson County, Kansas	0.000
Windham County, Connecticut	0.000
Windham County, Vermont	0.000
Windsor County, Vermont	0.000
Winn Parish, Louisiana	0.000
Winnebago County, Illinois	0.000
Winnebago County, Wisconsin	0.000
Winneshiek County, Iowa	0.000
Winona County, Minnesota	0.000
Winston County, Alabama	0.000

Winston County, Mississippi	0.000
Wirt County, West Virginia	0.000
Wise County, Virginia	0.000
Wolfe County, Kentucky	0.000
Wood County, Ohio	0.000
Wood County, Texas	0.000
Wood County, West Virginia	0.000
Wood County, Wisconsin	0.000
Woodbury County, Iowa	0.000
Woodford County, Illinois	0.000
Woodford County, Kentucky	0.000
Woodruff County, Arkansas	0.000
Woods County, Oklahoma	0.000
Woodward County, Oklahoma	0.000
Worcester County, Maryland	0.000
Worcester County, Massachusetts	0.003
Worth County, Georgia	0.000
Worth County, Iowa	0.000
Wright County, Missouri	0.000
Wyandotte County, Kansas	0.000
Wyoming County, New York	0.000
Wyoming County, Pennsylvania	0.000
Wythe County, Virginia	0.000
Yadkin County, North Carolina	0.000
Yalobusha County, Mississippi	0.000

Yancey County, North Carolina	0.000
Yates County, New York	0.000
Yavapai County, Arizona	0.000
Yell County, Arkansas	0.000
Yellow Medicine County, Minnesota	0.000
York County, Maine	0.000
York County, Pennsylvania	0.000
York County, Virginia	0.009
Yuba County, California	0.000
Yuma County, Colorado	0.000
Zavala County, Texas	0.001

**Fig 9.7** Veg Farm Acreage: Full Non-parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
Total population	0.01
Female	0.01
Median age years	0.01
One race White	0.01
One race Black or African American	0.01
One race American Indian and Alaska Native	0.01
One race Asian Indian	0.01
One race Asian Chinese	0.01
One race Asian Filipino	0.01
One race Asian Other Asian	0.01
One race Native Hawaiian and Other Pacific Islander	0.01

One race Some other race	0.01
Two or more races White and Black or African American	0.01
Two or more races White and American Indian and Alaska Native	0.01
Two or more races White and Asian	0.01
Two or more races Black or African American and American Indian and Alaska Native	0.01
Hispanic or Latino of any race	0.01
Hispanic or Latino of any race Mexican	0.01
Hispanic or Latino of any race Puerto Rican	0.01
Hispanic or Latino of any race Cuban	0.01
X Total housing units	0.01
In labor force Civilian labor force Employed	0.01
In labor force Civilian labor force Unemployed	0.01
In labor force Armed Forces	0.01
Females 16 years and over	0.01
X COMMUTING TO WORK Car truck or van drove alone	0.01
X COMMUTING TO WORK Car truck or van carpooled	0.01
X COMMUTING TO WORK Public transportation excluding taxicab	0.01
X COMMUTING TO WORK Walked	0.01
X COMMUTING TO WORK Worked at home	0.01
X COMMUTING TO WORK Mean travel time to work minutes	0.01
X OCCUPATION Management business science and arts occupations	0.01

X OCCUPATION Service occupations	0.01
X OCCUPATION Sales and office occupations	0.01
X OCCUPATION Natural resources construction and maintenance occupations	0.01
X OCCUPATION Production transportation and material moving occupations	0.01
X INDUSTRY Agriculture forestry fishing and hunting and mining	0.01
X INDUSTRY Construction	0.01
X INDUSTRY Manufacturing	0.01
X INDUSTRY Wholesale trade	0.01
X INDUSTRY Retail trade	0.01
X INDUSTRY Transportation and warehousing and utilities	0.01
X INDUSTRY Information	0.01
X INDUSTRY Finance and insurance and real estate and rental and leasing	0.01
X INDUSTRY Professional scientific and management and administrative and waste management services	0.01
X INDUSTRY Educational services and health care and social assistance	0.01
X INDUSTRY Arts entertainment and recreation and accommodation and food services	0.01
X INDUSTRY Other services except public administration	0.01
X INDUSTRY Public administration	0.01
X CLASS OF WORKER Private wage and salary workers	0.01
X CLASS OF WORKER Government workers	0.01
X CLASS OF WORKER Self employed in own not incorporated business workers	0.009

X CLASS OF WORKER Unpaid family workers	0.01
Total households	0.01
With earnings Mean earnings dollars	0.01
With Social Security	0.01
With Social Security Mean Social Security income dollars	0.01
With retirement income	0.01
With Supplemental Security Income	0.01
With cash public assistance income	0.01
With Food Stamp SNAP benefits in the past 12 months	0.01
Families	0.01
Median family income dollars	0.01
Mean family income dollars	0.01
Per capita income dollars	0.01
Nonfamily households	0.01
Median nonfamily income dollars	0.01
Mean nonfamily income dollars	0.01
Median earnings for male full time year round workers dollars	0.01
Civilian noninstitutionalized population	0.01
With health insurance coverage With private health insurance	0.01
With health insurance coverage With public coverage	0.01
No health insurance coverage	0.01
Civilian noninstitutionalized population under 18 years	0.01
Civilian noninstitutionalized population 18 to 64 years	0.01
Urban Inside urbanized areas	0.01

Urban Inside urban clusters	0.01
Rural	0.01
Male Ed Less Than High School	0.01
Male Ed High School Graduated	0.01
Male Ed Some College Or Associates	0.01
Male Ed Bachelors Degree Or Higher	0.01
Female Ed Less Than High School	0.01
Female Ed High School Graduated	0.01
Female Ed Some College Or Associates	0.01
Female Ed Bachelors Degree Or Higher	0.01
total votes x	0.01
republican vote percent x	0.01
democrat vote percent x	0.01
Age 0 To 9	0.01
Age 10 To 19	0.01
Age 20 To 24	0.01
Age 25 To 44	0.01
Age 45 To 64	0.01
Age 65 To 44	0.01
Income 0k 25k	0.01
Income 25k 50k	0.01
Income 50k 75k	0.01
Income 75k 100k	0.01
Income 100k 200k	0.01
Income Over 200k	0.01

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**Fig 9.8** Veg Farm Acreage: Condensed Non-parametric W weight list

<b>County</b>	<b>W Weight</b>
Atkinson County, Georgia	0.062
Bent County, Colorado	0.056
Appling County, Georgia	0.050
Barnwell County, South Carolina	0.049
Ashland County, Wisconsin	0.042
Bell County, Kentucky	0.038
Ashtabula County, Ohio	0.035
Benton County, Indiana	0.030
Barbour County, Alabama	0.028
Bamberg County, South Carolina	0.027
Appanoose County, Iowa	0.023
Barren County, Kentucky	0.023
Bay County, Michigan	0.023
Bayfield County, Wisconsin	0.023
Baldwin County, Georgia	0.022
Barron County, Wisconsin	0.022
Atoka County, Oklahoma	0.021
Attala County, Mississippi	0.021
Scotland County, Missouri	0.020
Augusta County, Virginia	0.020



Baker County, Georgia	0.020
Bennington County, Vermont	0.020
Adair County, Iowa	0.019
Beaverhead County, Montana	0.019
Anoka County, Minnesota	0.017
Bailey County, Texas	0.017
Barnstable County, Massachusetts	0.017
Avoyelles Parish, Louisiana	0.013
Ballard County, Kentucky	0.012
Arenac County, Michigan	0.011
Ashley County, Arkansas	0.010
Audrain County, Missouri	0.009
Baltimore County, Maryland	0.009
Benton County, Tennessee	0.009
Athens County, Ohio	0.008
Baker County, Oregon	0.008
Bath County, Kentucky	0.007
Benton County, Missouri	0.007
Atlantic County, New Jersey	0.006
Baker County, Florida	0.006
Benton County, Mississippi	0.006
Aransas County, Texas	0.005
Aroostook County, Maine	0.005
Bacon County, Georgia	0.005
Auglaize County, Ohio	0.004

Barry County, Michigan	0.004
Beaver County, Pennsylvania	0.004
Bedford County, Pennsylvania	0.004
DeKalb County, Illinois	0.003
Lake County, Illinois	0.003
Anderson County, Texas	0.003
Atchison County, Kansas	0.003
Baraga County, Michigan	0.003
Los Angeles County, California	0.002
Benton County, Iowa	0.002
Benzie County, Michigan	0.002
Dakota County, Minnesota	0.001
Kent County, Michigan	0.001
Clermont County, Ohio	0.001
Harford County, Maryland	0.001
Blaine County, Idaho	0.001
Hale County, Texas	0.001
Washtenaw County, Michigan	0.001
Lampasas County, Texas	0.001
Fluvanna County, Virginia	0.001
Jackson County, Mississippi	0.001
Currituck County, North Carolina	0.001
Jefferson County, Alabama	0.001
Jackson County, Missouri	0.001
Humboldt County, California	0.001

Pearl River County, Mississippi	0.001
Chittenden County, Vermont	0.001
Crawford County, Arkansas	0.001
York County, Virginia	0.001
Benton County, Minnesota	0.001
Ashe County, North Carolina	0.001
Hillsborough County, New Hampshire	0.001
Goliad County, Texas	0.001
Pottawatomie County, Oklahoma	0.001
Accomack County, Virginia	0.001
Adair County, Kentucky	0.001
Adair County, Missouri	0.001
Adair County, Oklahoma	0.001
Adams County, Illinois	0.001
Adams County, Wisconsin	0.001
Albany County, New York	0.001
Alexander County, Illinois	0.001
Allamakee County, Iowa	0.001
Allegan County, Michigan	0.001
Allen County, Indiana	0.001
Allendale County, South Carolina	0.001
Alpena County, Michigan	0.001
Anderson County, Kentucky	0.001
Armstrong County, Pennsylvania	0.001
Ashland County, Ohio	0.001

Asotin County, Washington	0.001
Bates County, Missouri	0.001
Bath County, Virginia	0.001
Baxter County, Arkansas	0.001
Beaufort County, North Carolina	0.001
Belknap County, New Hampshire	0.001
Belmont County, Ohio	0.001
Bergen County, New Jersey	0.001
Carroll County, Georgia	0.000
Cochise County, Arizona	0.000
Jefferson Parish, Louisiana	0.000
Pike County, Georgia	0.000
Avery County, North Carolina	0.000
San Juan County, New Mexico	0.000
Morris County, New Jersey	0.000
Cole County, Missouri	0.000
Benton County, Oregon	0.000
Sevier County, Utah	0.000
Stanislaus County, California	0.000
Putnam County, West Virginia	0.000
Forrest County, Mississippi	0.000
Grant County, Kansas	0.000
Hendry County, Florida	0.000
Virginia Beach city, Virginia	0.000
Christian County, Kentucky	0.000

Hockley County, Texas	0.000
Ouachita Parish, Louisiana	0.000
Fremont County, Idaho	0.000
Holmes County, Ohio	0.000
Chilton County, Alabama	0.000
Anderson County, Kansas	0.000
Clay County, South Dakota	0.000
Colusa County, California	0.000
Will County, Illinois	0.000
Jackson County, Illinois	0.000
Sioux County, Iowa	0.000
Angelina County, Texas	0.000
Mayes County, Oklahoma	0.000
San Patricio County, Texas	0.000
Wharton County, Texas	0.000
Miller County, Missouri	0.000
Worcester County, Massachusetts	0.000
Cheatham County, Tennessee	0.000
McCook County, South Dakota	0.000
Wayne County, Utah	0.000
Zavala County, Texas	0.000
Abbeville County, South Carolina	0.000
Adams County, Indiana	0.000
Adams County, Nebraska	0.000
Adams County, Ohio	0.000

Adams County, Pennsylvania	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, North Carolina	0.000
Alger County, Michigan	0.000
Allegany County, Maryland	0.000
Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Allegheny County, Pennsylvania	0.000
Allen County, Kentucky	0.000
Allen Parish, Louisiana	0.000
Amador County, California	0.000
Amelia County, Virginia	0.000
Amherst County, Virginia	0.000
Amite County, Mississippi	0.000
Anderson County, Tennessee	0.000
Andrew County, Missouri	0.000
Androscoggin County, Maine	0.000
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000

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**Fig 9.9** Veg Farm Acreage: Condensed Non-parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
Total population	0.003
Female	0.006
Median age years	0.005
One race White	0.002
One race Black or African American	0.007
One race American Indian and Alaska Native	0.114
One race Asian Asian Indian	0.007
One race Asian Chinese	0.003
One race Asian Filipino	0.000
One race Asian Other Asian	0.006
One race Native Hawaiian and Other Pacific Islander	0.012
One race Some other race	0.003
Two or more races White and Black or African American	0.000
Two or more races White and American Indian and Alaska Native	0.012
Two or more races White and Asian	0.003
Two or more races Black or African American and American Indian and Alaska Native	0.002
Hispanic or Latino of any race	0.003
Hispanic or Latino of any race Mexican	0.005
Hispanic or Latino of any race Puerto Rican	0.006
Hispanic or Latino of any race Cuban	0.057
X Total housing units	0.004
In labor force Civilian labor force Employed	0.005
In labor force Civilian labor force Unemployed	0.006

In labor force Armed Forces	0.036
Females 16 years and over	0.004
X COMMUTING TO WORK Car truck or van drove alone	0.010
X COMMUTING TO WORK Car truck or van carpooled	0.017
X COMMUTING TO WORK Public transportation excluding taxicab	0.001
X COMMUTING TO WORK Walked	0.001
X COMMUTING TO WORK Worked at home	0.001
X COMMUTING TO WORK Mean travel time to work minutes	0.031
X OCCUPATION Management business science and arts occupations	0.021
X OCCUPATION Service occupations	0.029
X OCCUPATION Sales and office occupations	0.003
X OCCUPATION Natural resources construction and maintenance occupations	0.008
X OCCUPATION Production transportation and material moving occupations	0.000
X INDUSTRY Agriculture forestry fishing and hunting and mining	0.002
X INDUSTRY Construction	0.006
X INDUSTRY Manufacturing	0.000
X INDUSTRY Wholesale trade	0.002
X INDUSTRY Retail trade	0.007
X INDUSTRY Transportation and warehousing and utilities	0.006
X INDUSTRY Information	0.004



X INDUSTRY Finance and insurance and real estate and rental and leasing	0.002
X INDUSTRY Professional scientific and management and administrative and waste management services	0.005
X INDUSTRY Educational services and health care and social assistance	0.006
X INDUSTRY Arts entertainment and recreation and accommodation and food services	0.001
X INDUSTRY Other services except public administration	0.082
X INDUSTRY Public administration	0.008
X CLASS OF WORKER Private wage and salary workers	0.005
X CLASS OF WORKER Government workers	0.012
X CLASS OF WORKER Self employed in own not incorporated business workers	0.012
X CLASS OF WORKER Unpaid family workers	0.004
Total households	0.004
With earnings Mean earnings dollars	0.001
With Social Security	0.003
With Social Security Mean Social Security income dollars	0.003
With retirement income	0.010
With Supplemental Security Income	0.011
With cash public assistance income	0.009
With Food Stamp SNAP benefits in the past 12 months	0.011
Families	0.015
Median family income dollars	0.012
Mean family income dollars	0.009
Per capita income dollars	0.005

Nonfamily households	0.015
Median nonfamily income dollars	0.000
Mean nonfamily income dollars	0.013
Median earnings for male full time year round workers dollars	0.002
Civilian noninstitutionalized population	0.008
With health insurance coverage With private health insurance	0.001
With health insurance coverage With public coverage	0.004
No health insurance coverage	0.013
Civilian noninstitutionalized population under 18 years	0.001
Civilian noninstitutionalized population 18 to 64 years	0.001
Urban Inside urbanized areas	0.002
Urban Inside urban clusters	0.000
Rural	0.012
Male Ed Less Than High School	0.000
Male Ed High School Graduated	0.006
Male Ed Some College Or Associates	0.008
Male Ed Bachelors Degree Or Higher	0.013
Female Ed Less Than High School	0.007
Female Ed High School Graduated	0.006
Female Ed Some College Or Associates	0.010
Female Ed Bachelors Degree Or Higher	0.003
total votes x	0.007
republican vote percent x	0.005
democrat vote percent x	0.012

Age 0 To 9	0.020
Age 10 To 19	0.020
Age 20 To 24	0.004
Age 25 To 44	0.032
Age 45 To 64	0.001
Age 65 To 44	0.003
Income 0k 25k	0.001
Income 25k 50k	0.009
Income 50k 75k	0.004
Income 75k 100k	0.011
Income 100k 200k	0.009
Income Over 200k	0.044

**Fig 9.10** Veg Farm Acreage: Full Parametric W weight list

<b>County</b>	<b>W Weight</b>
Abbeville County, South Carolina	0.000
Accomack County, Virginia	0.000
Adair County, Iowa	0.000
Adair County, Kentucky	0.000
Adair County, Missouri	0.000
Adair County, Oklahoma	0.000
Adams County, Illinois	0.001
Adams County, Indiana	0.000
Adams County, Nebraska	0.001
Adams County, Ohio	0.000

Adams County, Pennsylvania	0.000
Adams County, Wisconsin	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000
Albany County, New York	0.001
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, Illinois	0.000
Alexander County, North Carolina	0.000
Alger County, Michigan	0.000
Allamakee County, Iowa	0.000
Allegan County, Michigan	0.000
Allegany County, Maryland	0.000
Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Allegheny County, Pennsylvania	0.001
Allen County, Indiana	0.001
Allen County, Kentucky	0.000
Allen Parish, Louisiana	0.000
Allendale County, South Carolina	0.000
Alpena County, Michigan	0.000
Amador County, California	0.001
Amelia County, Virginia	0.000
Amherst County, Virginia	0.000
Amite County, Mississippi	0.000

Anderson County, Kansas	0.000
Anderson County, Kentucky	0.001
Anderson County, Tennessee	0.000
Anderson County, Texas	0.000
Andrew County, Missouri	0.000
Androscoggin County, Maine	0.000
Angelina County, Texas	0.001
Anoka County, Minnesota	0.004
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000
Appanoose County, Iowa	0.000
Appling County, Georgia	0.000
Aransas County, Texas	0.001
Arenac County, Michigan	0.000
Armstrong County, Pennsylvania	0.000
Aroostook County, Maine	0.000
Ashe County, North Carolina	0.000
Ashland County, Ohio	0.000
Ashland County, Wisconsin	0.000
Ashley County, Arkansas	0.000
Ashtabula County, Ohio	0.000
Asotin County, Washington	0.001
Atchison County, Kansas	0.000
Athens County, Ohio	0.000

Atkinson County, Georgia	0.000
Atlantic County, New Jersey	0.001
Atoka County, Oklahoma	0.000
Attala County, Mississippi	0.000
Audrain County, Missouri	0.000
Auglaize County, Ohio	0.001
Augusta County, Virginia	0.000
Avery County, North Carolina	0.000
Avoyelles Parish, Louisiana	0.000
Bacon County, Georgia	0.000
Bailey County, Texas	0.000
Baker County, Florida	0.000
Baker County, Georgia	0.000
Baker County, Oregon	0.000
Baldwin County, Georgia	0.000
Ballard County, Kentucky	0.000
Baltimore County, Maryland	0.001
Bamberg County, South Carolina	0.000
Baraga County, Michigan	0.000
Barbour County, Alabama	0.000
Barnstable County, Massachusetts	0.001
Barnwell County, South Carolina	0.000
Barren County, Kentucky	0.000
Barron County, Wisconsin	0.000
Barry County, Michigan	0.000

Bates County, Missouri	0.000
Bath County, Kentucky	0.000
Bath County, Virginia	0.000
Baxter County, Arkansas	0.000
Bay County, Michigan	0.001
Bayfield County, Wisconsin	0.000
Beaufort County, North Carolina	0.000
Beaver County, Pennsylvania	0.001
Beaverhead County, Montana	0.000
Bedford County, Pennsylvania	0.000
Belknap County, New Hampshire	0.000
Bell County, Kentucky	0.000
Belmont County, Ohio	0.000
Bennington County, Vermont	0.000
Bent County, Colorado	0.000
Benton County, Indiana	0.000
Benton County, Iowa	0.000
Benton County, Minnesota	0.001
Benton County, Mississippi	0.000
Benton County, Missouri	0.000
Benton County, Oregon	0.001
Benton County, Tennessee	0.000
Benzie County, Michigan	0.000
Bergen County, New Jersey	0.001
Berks County, Pennsylvania	0.001

Berkshire County, Massachusetts	0.000
Berrien County, Michigan	0.000
Bertie County, North Carolina	0.000
Bibb County, Alabama	0.000
Bienville Parish, Louisiana	0.000
Black Hawk County, Iowa	0.001
Bladen County, North Carolina	0.000
Blaine County, Idaho	0.001
Blaine County, Montana	0.000
Blair County, Pennsylvania	0.000
Bland County, Virginia	0.000
Bledsoe County, Tennessee	0.000
Blount County, Alabama	0.000
Blount County, Tennessee	0.001
Bolivar County, Mississippi	0.000
Bond County, Illinois	0.000
Bonner County, Idaho	0.000
Boone County, Arkansas	0.000
Boone County, Illinois	0.001
Boone County, Iowa	0.000
Botetourt County, Virginia	0.001
Boundary County, Idaho	0.000
Bourbon County, Kansas	0.000
Bourbon County, Kentucky	0.000
Bowie County, Texas	0.001



Box Butte County, Nebraska	0.001
Boyd County, Kentucky	0.000
Boyle County, Kentucky	0.001
Bracken County, Kentucky	0.000
Bradford County, Florida	0.000
Bradford County, Pennsylvania	0.000
Bradley County, Arkansas	0.000
Branch County, Michigan	0.000
Breathitt County, Kentucky	0.000
Breckinridge County, Kentucky	0.000
Bremer County, Iowa	0.000
Bristol County, Massachusetts	0.000
Bristol County, Rhode Island	0.001
Brooks County, Georgia	0.000
Brooks County, Texas	0.000
Broome County, New York	0.000
Brown County, Indiana	0.000
Brown County, Minnesota	0.001
Brown County, Ohio	0.000
Brown County, Texas	0.001
Brunswick County, Virginia	0.000
Buchanan County, Missouri	0.001
Buckingham County, Virginia	0.000
Bucks County, Pennsylvania	0.001
Buffalo County, Wisconsin	0.000

Bullock County, Alabama	0.000
Bureau County, Illinois	0.000
Burke County, Georgia	0.000
Burke County, North Carolina	0.000
Burlington County, New Jersey	0.001
Burnett County, Wisconsin	0.000
Burt County, Nebraska	0.000
Butler County, Alabama	0.000
Butler County, Kansas	0.001
Butler County, Kentucky	0.000
Butler County, Missouri	0.000
Butler County, Nebraska	0.001
Butler County, Ohio	0.001
Butler County, Pennsylvania	0.001
Butte County, California	0.001
Cabell County, West Virginia	0.000
Caddo Parish, Louisiana	0.001
Calaveras County, California	0.000
Caldwell County, Kentucky	0.000
Caldwell County, Missouri	0.000
Caldwell County, North Carolina	0.000
Caledonia County, Vermont	0.000
Calhoun County, Alabama	0.001
Calhoun County, Arkansas	0.000
Calhoun County, Illinois	0.000

Calhoun County, Iowa	0.000
Calhoun County, Michigan	0.000
Calhoun County, Mississippi	0.000
Calhoun County, West Virginia	0.000
Callahan County, Texas	0.001
Callaway County, Missouri	0.000
Calvert County, Maryland	0.001
Cambria County, Pennsylvania	0.000
Camden County, New Jersey	0.001
Cameron County, Pennsylvania	0.000
Cameron Parish, Louisiana	0.000
Camp County, Texas	0.000
Campbell County, Kentucky	0.001
Campbell County, Tennessee	0.000
Campbell County, Virginia	0.000
Cannon County, Tennessee	0.000
Cape May County, New Jersey	0.001
Carbon County, Montana	0.000
Carbon County, Pennsylvania	0.000
Carbon County, Utah	0.001
Caribou County, Idaho	0.001
Carlton County, Minnesota	0.000
Caroline County, Maryland	0.000
Carroll County, Arkansas	0.000
Carroll County, Georgia	0.001

Carroll County, Indiana	0.000
Carroll County, Iowa	0.000
Carroll County, Kentucky	0.000
Carroll County, Maryland	0.001
Carroll County, Mississippi	0.000
Carroll County, Missouri	0.000
Carroll County, New Hampshire	0.000
Carroll County, Ohio	0.000
Carroll County, Tennessee	0.000
Carroll County, Virginia	0.000
Carter County, Kentucky	0.000
Carter County, Missouri	0.000
Carter County, Oklahoma	0.000
Carter County, Tennessee	0.000
Cascade County, Montana	0.001
Casey County, Kentucky	0.000
Cass County, Illinois	0.000
Cass County, Indiana	0.000
Cass County, Iowa	0.000
Cass County, Michigan	0.000
Cass County, Nebraska	0.001
Cass County, Texas	0.000
Caswell County, North Carolina	0.000
Catawba County, North Carolina	0.001
Cattaraugus County, New York	0.000

Cavalier County, North Dakota	0.000
Cayuga County, New York	0.000
Cecil County, Maryland	0.001
Cedar County, Iowa	0.000
Cedar County, Missouri	0.000
Cedar County, Nebraska	0.000
Cerro Gordo County, Iowa	0.001
Chambers County, Alabama	0.000
Chariton County, Missouri	0.000
Charlevoix County, Michigan	0.000
Charlotte County, Florida	0.001
Charlotte County, Virginia	0.000
Chase County, Nebraska	0.001
Chattooga County, Georgia	0.000
Chautauqua County, New York	0.000
Cheatham County, Tennessee	0.000
Cheboygan County, Michigan	0.000
Chemung County, New York	0.000
Chenango County, New York	0.000
Cherokee County, Alabama	0.000
Cherokee County, Kansas	0.000
Cherokee County, North Carolina	0.000
Cherokee County, South Carolina	0.000
Cherokee County, Texas	0.000
Cheshire County, New Hampshire	0.000

Chester County, South Carolina	0.000
Chester County, Tennessee	0.000
Chesterfield County, South Carolina	0.000
Cheyenne County, Nebraska	0.002
Chickasaw County, Iowa	0.000
Chickasaw County, Mississippi	0.000
Chilton County, Alabama	0.000
Chippewa County, Michigan	0.000
Chippewa County, Minnesota	0.000
Chippewa County, Wisconsin	0.000
Chittenden County, Vermont	0.000
Choctaw County, Alabama	0.000
Choctaw County, Mississippi	0.000
Choctaw County, Oklahoma	0.000
Chowan County, North Carolina	0.000
Christian County, Illinois	0.000
Christian County, Kentucky	0.001
Churchill County, Nevada	0.002
Citrus County, Florida	0.000
Claiborne County, Mississippi	0.000
Claiborne County, Tennessee	0.000
Claiborne Parish, Louisiana	0.000
Clallam County, Washington	0.001
Clare County, Michigan	0.000
Clarendon County, South Carolina	0.000

Clarion County, Pennsylvania	0.000
Clark County, Arkansas	0.000
Clark County, Illinois	0.000
Clark County, Kentucky	0.000
Clark County, Ohio	0.001
Clark County, Wisconsin	0.000
Clarke County, Alabama	0.000
Clarke County, Mississippi	0.000
Clarke County, Virginia	0.000
Clatsop County, Oregon	0.001
Clay County, Georgia	0.000
Clay County, Indiana	0.000
Clay County, Kansas	0.001
Clay County, Kentucky	0.000
Clay County, Mississippi	0.000
Clay County, Nebraska	0.000
Clay County, North Carolina	0.000
Clay County, South Dakota	0.000
Clay County, Texas	0.001
Clayton County, Iowa	0.000
Clearfield County, Pennsylvania	0.000
Cleburne County, Alabama	0.000
Clermont County, Ohio	0.001
Cleveland County, North Carolina	0.000
Clinton County, Illinois	0.001

Clinton County, Indiana	0.000
Clinton County, Iowa	0.000
Clinton County, Kentucky	0.000
Clinton County, Michigan	0.001
Clinton County, Missouri	0.000
Clinton County, New York	0.000
Clinton County, Ohio	0.000
Clinton County, Pennsylvania	0.000
Cloud County, Kansas	0.001
Coahoma County, Mississippi	0.000
Cochise County, Arizona	0.001
Cocke County, Tennessee	0.000
Codington County, South Dakota	0.001
Coffee County, Tennessee	0.000
Coffey County, Kansas	0.000
Colbert County, Alabama	0.000
Cole County, Missouri	0.001
Coles County, Illinois	0.001
Colleton County, South Carolina	0.000
Colorado County, Texas	0.000
Columbia County, Arkansas	0.000
Columbia County, Florida	0.000
Columbia County, New York	0.000
Columbia County, Oregon	0.001
Columbia County, Pennsylvania	0.000



Columbia County, Wisconsin	0.000
Columbiana County, Ohio	0.000
Columbus County, North Carolina	0.000
Colusa County, California	0.001
Comanche County, Texas	0.000
Conecuh County, Alabama	0.000
Conejos County, Colorado	0.000
Conway County, Arkansas	0.000
Cook County, Georgia	0.000
Cook County, Illinois	0.001
Cooke County, Texas	0.001
Cooper County, Missouri	0.000
Coos County, New Hampshire	0.000
Coos County, Oregon	0.000
Coosa County, Alabama	0.000
Copiah County, Mississippi	0.000
Cortland County, New York	0.000
Coshocton County, Ohio	0.000
Costilla County, Colorado	0.000
Cotton County, Oklahoma	0.000
Covington County, Alabama	0.000
Covington County, Mississippi	0.000
Cowley County, Kansas	0.001
Cowlitz County, Washington	0.001
Craig County, Virginia	0.000

Crawford County, Arkansas	0.000
Crawford County, Indiana	0.000
Crawford County, Kansas	0.000
Crawford County, Missouri	0.000
Crawford County, Ohio	0.000
Crawford County, Pennsylvania	0.000
Crawford County, Wisconsin	0.000
Crenshaw County, Alabama	0.000
Crisp County, Georgia	0.000
Crittenden County, Kentucky	0.000
Crockett County, Tennessee	0.000
Cross County, Arkansas	0.000
Crow Wing County, Minnesota	0.000
Cullman County, Alabama	0.000
Cumberland County, Illinois	0.000
Cumberland County, Kentucky	0.000
Cumberland County, Maine	0.000
Cumberland County, New Jersey	0.000
Currituck County, North Carolina	0.000
Curry County, Oregon	0.000
Custer County, Nebraska	0.001
Cuyahoga County, Ohio	0.001
Dakota County, Minnesota	0.007
Dakota County, Nebraska	0.000
Dale County, Alabama	0.001

Dallas County, Alabama	0.000
Dallas County, Missouri	0.000
Darke County, Ohio	0.000
Darlington County, South Carolina	0.000
Dauphin County, Pennsylvania	0.001
Davidson County, North Carolina	0.000
Davie County, North Carolina	0.000
Daviess County, Kentucky	0.000
Daviess County, Missouri	0.000
Davis County, Iowa	0.000
Dawson County, Nebraska	0.001
De Soto Parish, Louisiana	0.000
DeKalb County, Alabama	0.000
DeKalb County, Illinois	0.001
DeKalb County, Indiana	0.000
DeKalb County, Missouri	0.000
DeKalb County, Tennessee	0.000
DeSoto County, Florida	0.000
DeWitt County, Texas	0.001
Deaf Smith County, Texas	0.000
Dearborn County, Indiana	0.001
Decatur County, Georgia	0.000
Decatur County, Indiana	0.000
Decatur County, Tennessee	0.000
Defiance County, Ohio	0.001

Del Norte County, California	0.000
Delaware County, Indiana	0.000
Delaware County, Iowa	0.000
Delaware County, New York	0.000
Delaware County, Oklahoma	0.000
Delta County, Colorado	0.000
Delta County, Michigan	0.000
Delta County, Texas	0.000
Dent County, Missouri	0.000
Des Moines County, Iowa	0.000
Deuel County, South Dakota	0.000
Dewey County, Oklahoma	0.000
Dickinson County, Michigan	0.000
Dillon County, South Carolina	0.000
Doddridge County, West Virginia	0.000
Dodge County, Georgia	0.000
Dodge County, Minnesota	0.001
Dodge County, Nebraska	0.001
Dodge County, Wisconsin	0.001
Doniphan County, Kansas	0.000
Donley County, Texas	0.000
Dooly County, Georgia	0.000
Door County, Wisconsin	0.000
Dorchester County, Maryland	0.000
Douglas County, Illinois	0.000

Douglas County, Minnesota	0.000
Douglas County, Missouri	0.000
Douglas County, Wisconsin	0.000
Drew County, Arkansas	0.000
Dubois County, Indiana	0.000
Dubuque County, Iowa	0.001
Dundy County, Nebraska	0.000
Dunklin County, Missouri	0.000
Dunn County, Wisconsin	0.000
Dutchess County, New York	0.001
East Baton Rouge Parish, Louisiana	0.002
East Feliciana Parish, Louisiana	0.000
Eastland County, Texas	0.001
Eaton County, Michigan	0.001
Echols County, Georgia	0.000
Edgar County, Illinois	0.000
Edgecombe County, North Carolina	0.000
Edgefield County, South Carolina	0.000
Edmonson County, Kentucky	0.000
Effingham County, Illinois	0.001
El Dorado County, California	0.002
Elbert County, Georgia	0.000
Elk County, Pennsylvania	0.000
Elkhart County, Indiana	0.001
Elmore County, Idaho	0.001

Emanuel County, Georgia	0.000
Emery County, Utah	0.001
Emmet County, Michigan	0.000
Erie County, New York	0.001
Erie County, Ohio	0.000
Erie County, Pennsylvania	0.000
Escambia County, Alabama	0.000
Escambia County, Florida	0.003
Essex County, Massachusetts	0.001
Essex County, New Jersey	0.001
Essex County, New York	0.000
Estill County, Kentucky	0.000
Etowah County, Alabama	0.001
Evangeline Parish, Louisiana	0.000
Evans County, Georgia	0.000
Fairfield County, Ohio	0.001
Falls County, Texas	0.000
Fannin County, Georgia	0.000
Fannin County, Texas	0.000
Faribault County, Minnesota	0.000
Fayette County, Alabama	0.000
Fayette County, Georgia	0.009
Fayette County, Illinois	0.000
Fayette County, Iowa	0.000
Fayette County, Ohio	0.000

Fayette County, Pennsylvania	0.000
Fayette County, West Virginia	0.000
Fentress County, Tennessee	0.000
Fergus County, Montana	0.001
Ferry County, Washington	0.000
Fillmore County, Minnesota	0.000
Fleming County, Kentucky	0.000
Florence County, South Carolina	0.001
Florence County, Wisconsin	0.000
Floyd County, Georgia	0.001
Floyd County, Indiana	0.001
Floyd County, Iowa	0.000
Floyd County, Kentucky	0.000
Floyd County, Texas	0.001
Fluvanna County, Virginia	0.000
Fond du Lac County, Wisconsin	0.001
Forest County, Pennsylvania	0.000
Forrest County, Mississippi	0.001
Franklin County, Alabama	0.000
Franklin County, Georgia	0.000
Franklin County, Indiana	0.000
Franklin County, Iowa	0.000
Franklin County, Kansas	0.001
Franklin County, Kentucky	0.001
Franklin County, Maine	0.000

Franklin County, Massachusetts	0.000
Franklin County, Mississippi	0.000
Franklin County, Missouri	0.000
Franklin County, New York	0.000
Franklin County, Tennessee	0.000
Franklin County, Texas	0.000
Franklin County, Vermont	0.000
Franklin County, Virginia	0.000
Franklin Parish, Louisiana	0.000
Freeborn County, Minnesota	0.000
Freestone County, Texas	0.001
Fremont County, Colorado	0.001
Fremont County, Idaho	0.001
Fremont County, Iowa	0.000
Fulton County, Illinois	0.000
Fulton County, Indiana	0.000
Fulton County, New York	0.000
Fulton County, Ohio	0.000
Fulton County, Pennsylvania	0.000
Gadsden County, Florida	0.000
Gage County, Nebraska	0.000
Gallatin County, Kentucky	0.000
Gallia County, Ohio	0.000
Garland County, Arkansas	0.001
Garrard County, Kentucky	0.000



Garrett County, Maryland	0.000
Garvin County, Oklahoma	0.000
Gasconade County, Missouri	0.000
Geauga County, Ohio	0.000
Gem County, Idaho	0.001
Genesee County, Michigan	0.001
Genesee County, New York	0.000
Geneva County, Alabama	0.000
Gentry County, Missouri	0.000
Georgetown County, South Carolina	0.000
Gibson County, Indiana	0.001
Gibson County, Tennessee	0.000
Gila County, Arizona	0.001
Gilchrist County, Florida	0.000
Giles County, Tennessee	0.000
Giles County, Virginia	0.000
Gilmer County, Georgia	0.000
Glacier County, Montana	0.000
Gladwin County, Michigan	0.000
Glenn County, California	0.001
Gloucester County, New Jersey	0.001
Gloucester County, Virginia	0.001
Goliad County, Texas	0.000
Goochland County, Virginia	0.000
Goodhue County, Minnesota	0.001

Gooding County, Idaho	0.001
Grady County, Georgia	0.000
Grafton County, New Hampshire	0.000
Graham County, North Carolina	0.000
Grainger County, Tennessee	0.000
Grand Forks County, North Dakota	0.001
Grant County, Arkansas	0.000
Grant County, Indiana	0.000
Grant County, Kansas	0.108
Grant County, Kentucky	0.000
Grant County, New Mexico	0.001
Grant County, West Virginia	0.000
Grant County, Wisconsin	0.000
Granville County, North Carolina	0.000
Gratiot County, Michigan	0.000
Graves County, Kentucky	0.000
Grays Harbor County, Washington	0.000
Grayson County, Kentucky	0.000
Grayson County, Texas	0.001
Grayson County, Virginia	0.000
Green County, Kentucky	0.000
Green County, Wisconsin	0.000
Green Lake County, Wisconsin	0.000
Greenbrier County, West Virginia	0.000
Greene County, Alabama	0.000

Greene County, Indiana	0.000
Greene County, New York	0.000
Greene County, North Carolina	0.000
Greene County, Ohio	0.002
Greene County, Pennsylvania	0.000
Greene County, Tennessee	0.000
Greensville County, Virginia	0.000
Greenup County, Kentucky	0.000
Greenwood County, South Carolina	0.000
Grimes County, Texas	0.000
Grundy County, Missouri	0.001
Grundy County, Tennessee	0.000
Guadalupe County, New Mexico	0.000
Guernsey County, Ohio	0.000
Hale County, Alabama	0.000
Hale County, Texas	0.001
Halifax County, North Carolina	0.000
Halifax County, Virginia	0.000
Hamilton County, Florida	0.000
Hamilton County, Illinois	0.000
Hamilton County, Iowa	0.000
Hamilton County, Nebraska	0.002
Hamilton County, New York	0.000
Hamilton County, Ohio	0.001
Hampden County, Massachusetts	0.001

Hampshire County, Massachusetts	0.000
Hampshire County, West Virginia	0.000
Hampton County, South Carolina	0.000
Hancock County, Georgia	0.000
Hancock County, Kentucky	0.000
Hancock County, Maine	0.000
Hancock County, Ohio	0.001
Hancock County, Tennessee	0.000
Hancock County, West Virginia	0.000
Hanover County, Virginia	0.002
Hanson County, South Dakota	0.001
Haralson County, Georgia	0.000
Hardee County, Florida	0.000
Hardeman County, Tennessee	0.000
Hardin County, Iowa	0.000
Hardin County, Tennessee	0.000
Harford County, Maryland	0.002
Harrison County, Indiana	0.000
Harrison County, Iowa	0.000
Harrison County, Kentucky	0.000
Harrison County, Missouri	0.000
Harrison County, Ohio	0.000
Harrison County, West Virginia	0.000
Hart County, Georgia	0.000
Hart County, Kentucky	0.000

Hartford County, Connecticut	0.001
Harvey County, Kansas	0.001
Haskell County, Oklahoma	0.000
Hawkins County, Tennessee	0.000
Haywood County, North Carolina	0.000
Haywood County, Tennessee	0.000
Heard County, Georgia	0.000
Hempstead County, Arkansas	0.000
Henderson County, Illinois	0.000
Henderson County, Kentucky	0.000
Henderson County, Tennessee	0.000
Henderson County, Texas	0.000
Hendry County, Florida	0.000
Henry County, Alabama	0.000
Henry County, Illinois	0.000
Henry County, Indiana	0.000
Henry County, Iowa	0.000
Henry County, Kentucky	0.000
Henry County, Missouri	0.000
Henry County, Ohio	0.000
Henry County, Tennessee	0.000
Henry County, Virginia	0.000
Herkimer County, New York	0.000
Hernando County, Florida	0.001
Hertford County, North Carolina	0.000

Hickman County, Tennessee	0.000
Hidalgo County, New Mexico	0.000
Highland County, Ohio	0.000
Highland County, Virginia	0.000
Highlands County, Florida	0.001
Hill County, Montana	0.001
Hill County, Texas	0.000
Hillsborough County, New Hampshire	0.001
Hillsdale County, Michigan	0.000
Hinds County, Mississippi	0.000
Hocking County, Ohio	0.000
Hockley County, Texas	0.002
Holmes County, Florida	0.000
Holmes County, Mississippi	0.000
Holmes County, Ohio	0.000
Hopkins County, Kentucky	0.000
Hopkins County, Texas	0.000
Hot Spring County, Arkansas	0.000
Houghton County, Michigan	0.000
Houston County, Minnesota	0.000
Howard County, Iowa	0.000
Howard County, Missouri	0.000
Howard County, Nebraska	0.000
Howell County, Missouri	0.000
Hudspeth County, Texas	0.000

Hughes County, Oklahoma	0.000
Humboldt County, California	0.000
Humphreys County, Mississippi	0.000
Humphreys County, Tennessee	0.000
Hunt County, Texas	0.001
Hunterdon County, New Jersey	0.001
Huntingdon County, Pennsylvania	0.000
Huntington County, Indiana	0.001
Huron County, Michigan	0.000
Huron County, Ohio	0.000
Hutchinson County, South Dakota	0.000
Hyde County, North Carolina	0.000
Iberia Parish, Louisiana	0.001
Iberville Parish, Louisiana	0.000
Independence County, Arkansas	0.000
Indiana County, Pennsylvania	0.000
Ingham County, Michigan	0.001
Ionia County, Michigan	0.000
Iosco County, Michigan	0.000
Iowa County, Wisconsin	0.000
Iron County, Michigan	0.000
Iron County, Wisconsin	0.000
Irwin County, Georgia	0.000
Isabella County, Michigan	0.000
Isanti County, Minnesota	0.001

Island County, Washington	0.001
Isle of Wight County, Virginia	0.001
Itasca County, Minnesota	0.000
Itawamba County, Mississippi	0.000
Izard County, Arkansas	0.000
Jack County, Texas	0.001
Jackson County, Alabama	0.000
Jackson County, Arkansas	0.000
Jackson County, Florida	0.000
Jackson County, Illinois	0.000
Jackson County, Indiana	0.000
Jackson County, Iowa	0.000
Jackson County, Kansas	0.000
Jackson County, Kentucky	0.000
Jackson County, Michigan	0.001
Jackson County, Minnesota	0.000
Jackson County, Mississippi	0.001
Jackson County, Missouri	0.001
Jackson County, Ohio	0.000
Jackson County, Oregon	0.001
Jackson County, Tennessee	0.000
Jackson County, West Virginia	0.000
Jackson County, Wisconsin	0.000
Jackson Parish, Louisiana	0.000
Jasper County, Georgia	0.000



Jasper County, Indiana	0.000
Jasper County, Iowa	0.000
Jasper County, Mississippi	0.000
Jasper County, Missouri	0.001
Jasper County, Texas	0.000
Jefferson County, Alabama	0.001
Jefferson County, Arkansas	0.000
Jefferson County, Florida	0.000
Jefferson County, Georgia	0.000
Jefferson County, Indiana	0.000
Jefferson County, Iowa	0.000
Jefferson County, Kansas	0.000
Jefferson County, Missouri	0.001
Jefferson County, Ohio	0.000
Jefferson County, Oklahoma	0.000
Jefferson County, Pennsylvania	0.000
Jefferson County, Texas	0.001
Jefferson County, Washington	0.000
Jefferson County, Wisconsin	0.001
Jefferson Davis County, Mississippi	0.000
Jefferson Davis Parish, Louisiana	0.000
Jefferson Parish, Louisiana	0.002
Jennings County, Indiana	0.000
Jo Daviess County, Illinois	0.000
Johnson County, Arkansas	0.000

Johnson County, Georgia	0.000
Johnson County, Kentucky	0.000
Johnson County, Tennessee	0.000
Johnston County, Oklahoma	0.000
Jones County, Iowa	0.000
Jones County, Mississippi	0.000
Jones County, Texas	0.000
Josephine County, Oregon	0.000
Juniata County, Pennsylvania	0.000
Kalkaska County, Michigan	0.000
Kanabec County, Minnesota	0.000
Kanawha County, West Virginia	0.000
Kandiyohi County, Minnesota	0.001
Kankakee County, Illinois	0.001
Kay County, Oklahoma	0.001
Keith County, Nebraska	0.001
Kemper County, Mississippi	0.000
Kennebec County, Maine	0.000
Kenosha County, Wisconsin	0.001
Kent County, Maryland	0.000
Kent County, Michigan	0.001
Kent County, Rhode Island	0.001
Kenton County, Kentucky	0.001
Keokuk County, Iowa	0.000
Kewaunee County, Wisconsin	0.000

Kidder County, North Dakota	0.000
King and Queen County, Virginia	0.000
Kingfisher County, Oklahoma	0.001
Kingman County, Kansas	0.001
Kings County, California	0.052
Kittson County, Minnesota	0.000
Klamath County, Oregon	0.001
Knox County, Illinois	0.000
Knox County, Indiana	0.000
Knox County, Kentucky	0.000
Knox County, Maine	0.000
Knox County, Missouri	0.000
Knox County, Nebraska	0.000
Knox County, Ohio	0.000
Koochiching County, Minnesota	0.000
Kosciusko County, Indiana	0.001
Kossuth County, Iowa	0.000
La Paz County, Arizona	0.000
LaGrange County, Indiana	0.000
LaPorte County, Indiana	0.000
LaSalle County, Illinois	0.001
LaSalle Parish, Louisiana	0.000
Labette County, Kansas	0.000
Lackawanna County, Pennsylvania	0.000
Laclede County, Missouri	0.000

Lafayette County, Missouri	0.000
Lafayette County, Wisconsin	0.000
Lafourche Parish, Louisiana	0.001
Lake County, California	0.000
Lake County, Illinois	0.001
Lake County, Indiana	0.001
Lake County, Montana	0.000
Lake County, Ohio	0.001
Lamar County, Alabama	0.000
Lamar County, Georgia	0.000
Lamar County, Texas	0.001
Lampasas County, Texas	0.001
Lancaster County, Virginia	0.000
Langlade County, Wisconsin	0.000
Lapeer County, Michigan	0.000
Larue County, Kentucky	0.000
Lassen County, California	0.001
Lauderdale County, Alabama	0.000
Lauderdale County, Mississippi	0.001
Lauderdale County, Tennessee	0.000
Laurel County, Kentucky	0.000
Laurens County, Georgia	0.000
Laurens County, South Carolina	0.000
Lawrence County, Alabama	0.000
Lawrence County, Arkansas	0.000

Lawrence County, Illinois	0.000
Lawrence County, Indiana	0.000
Lawrence County, Kentucky	0.000
Lawrence County, Mississippi	0.000
Lawrence County, Missouri	0.000
Lawrence County, Ohio	0.000
Lawrence County, Pennsylvania	0.000
Lawrence County, South Dakota	0.000
Lawrence County, Tennessee	0.000
Le Flore County, Oklahoma	0.000
Le Sueur County, Minnesota	0.000
Leake County, Mississippi	0.000
Lee County, Arkansas	0.000
Lee County, Georgia	0.003
Lee County, Illinois	0.000
Lee County, Iowa	0.000
Lee County, Kentucky	0.000
Lee County, South Carolina	0.000
Lee County, Texas	0.001
Lee County, Virginia	0.000
Leelanau County, Michigan	0.000
Lenawee County, Michigan	0.000
Lenoir County, North Carolina	0.000
Leon County, Texas	0.000
Letcher County, Kentucky	0.000

Levy County, Florida	0.000
Lewis County, Kentucky	0.000
Lewis County, Missouri	0.000
Lewis County, New York	0.000
Lewis County, Tennessee	0.000
Lewis County, Washington	0.000
Lewis County, West Virginia	0.000
Liberty County, Texas	0.000
Licking County, Ohio	0.001
Limestone County, Texas	0.000
Lincoln County, Arkansas	0.000
Lincoln County, Kentucky	0.000
Lincoln County, Maine	0.000
Lincoln County, Mississippi	0.000
Lincoln County, Oklahoma	0.000
Lincoln County, Oregon	0.000
Lincoln County, Tennessee	0.000
Lincoln County, Washington	0.000
Lincoln County, West Virginia	0.000
Lincoln County, Wisconsin	0.000
Linn County, Missouri	0.000
Litchfield County, Connecticut	0.000
Little River County, Arkansas	0.000
Live Oak County, Texas	0.000
Livingston County, Illinois	0.001

Livingston County, Kentucky	0.000
Livingston County, Michigan	0.002
Livingston County, New York	0.000
Logan County, Arkansas	0.000
Logan County, Colorado	0.001
Logan County, Kentucky	0.000
Logan County, Ohio	0.000
Logan County, West Virginia	0.000
Lorain County, Ohio	0.001
Los Angeles County, California	0.000
Louisa County, Iowa	0.000
Love County, Oklahoma	0.000
Lowndes County, Alabama	0.000
Lowndes County, Mississippi	0.001
Lucas County, Iowa	0.000
Lucas County, Ohio	0.001
Luna County, New Mexico	0.000
Lunenburg County, Virginia	0.000
Luzerne County, Pennsylvania	0.000
Lycoming County, Pennsylvania	0.000
Lyon County, Kansas	0.001
Lyon County, Kentucky	0.000
Macomb County, Michigan	0.002
Macon County, Alabama	0.005
Macon County, Georgia	0.000

Macon County, Illinois	0.001
Macon County, Missouri	0.000
Macon County, North Carolina	0.000
Macoupin County, Illinois	0.000
Madison County, Arkansas	0.000
Madison County, Florida	0.000
Madison County, Georgia	0.000
Madison County, Illinois	0.001
Madison County, Indiana	0.000
Madison County, Montana	0.000
Madison County, Nebraska	0.001
Madison County, New York	0.000
Madison County, North Carolina	0.000
Madison County, Ohio	0.000
Madison County, Tennessee	0.001
Madison County, Virginia	0.000
Madison Parish, Louisiana	0.000
Magoffin County, Kentucky	0.000
Mahaska County, Iowa	0.000
Mahoning County, Ohio	0.000
Major County, Oklahoma	0.000
Malheur County, Oregon	0.001
Manistee County, Michigan	0.000
Manitowoc County, Wisconsin	0.000
Marathon County, Wisconsin	0.001



Marengo County, Alabama	0.000
Maries County, Missouri	0.000
Marinette County, Wisconsin	0.000
Marion County, Alabama	0.000
Marion County, Florida	0.001
Marion County, Illinois	0.000
Marion County, Iowa	0.001
Marion County, Kentucky	0.000
Marion County, Mississippi	0.000
Marion County, Ohio	0.000
Marion County, South Carolina	0.000
Marion County, West Virginia	0.000
Mariposa County, California	0.000
Marlboro County, South Carolina	0.000
Marquette County, Michigan	0.000
Marquette County, Wisconsin	0.000
Marshall County, Illinois	0.000
Marshall County, Indiana	0.000
Marshall County, Iowa	0.001
Marshall County, Kentucky	0.000
Marshall County, Minnesota	0.000
Marshall County, Mississippi	0.000
Marshall County, West Virginia	0.000
Martin County, Kentucky	0.000
Martin County, Minnesota	0.000

Mason County, Illinois	0.000
Mason County, Kentucky	0.000
Mason County, Michigan	0.000
Mason County, Washington	0.000
Mason County, West Virginia	0.000
Massac County, Illinois	0.001
Matagorda County, Texas	0.001
Mathews County, Virginia	0.000
Mayes County, Oklahoma	0.000
McCook County, South Dakota	0.000
McCracken County, Kentucky	0.001
McCulloch County, Texas	0.001
McCurtain County, Oklahoma	0.000
McDonald County, Missouri	0.000
McDonough County, Illinois	0.000
McDowell County, North Carolina	0.000
McDuffie County, Georgia	0.000
McHenry County, Illinois	0.002
McIntosh County, Oklahoma	0.000
McKean County, Pennsylvania	0.000
McLean County, Kentucky	0.000
McLeod County, Minnesota	0.001
McMinn County, Tennessee	0.000
McNairy County, Tennessee	0.000
McPherson County, Kansas	0.001

Meade County, Kentucky	0.000
Mecklenburg County, Virginia	0.000
Medina County, Ohio	0.001
Meeker County, Minnesota	0.000
Meigs County, Ohio	0.000
Meigs County, Tennessee	0.000
Menard County, Illinois	0.000
Mendocino County, California	0.000
Menifee County, Kentucky	0.000
Menominee County, Michigan	0.000
Mercer County, Kentucky	0.000
Mercer County, New Jersey	0.001
Mercer County, Ohio	0.000
Mercer County, Pennsylvania	0.000
Mercer County, West Virginia	0.000
Meriwether County, Georgia	0.000
Merrimack County, New Hampshire	0.000
Metcalfe County, Kentucky	0.000
Miami County, Indiana	0.000
Miami County, Kansas	0.001
Miami County, Ohio	0.001
Middlesex County, Connecticut	0.001
Midland County, Michigan	0.001
Mifflin County, Pennsylvania	0.000
Milam County, Texas	0.000

Mille Lacs County, Minnesota	0.000
Miller County, Arkansas	0.000
Miller County, Missouri	0.000
Mills County, Iowa	0.001
Milwaukee County, Wisconsin	0.001
Mineral County, West Virginia	0.000
Missaukee County, Michigan	0.000
Mississippi County, Arkansas	0.000
Mississippi County, Missouri	0.000
Mitchell County, Georgia	0.000
Mitchell County, Iowa	0.000
Mitchell County, North Carolina	0.000
Mobile County, Alabama	0.001
Modoc County, California	0.001
Moniteau County, Missouri	0.000
Monmouth County, New Jersey	0.001
Monroe County, Alabama	0.000
Monroe County, Kentucky	0.000
Monroe County, Michigan	0.001
Monroe County, Mississippi	0.000
Monroe County, Missouri	0.000
Monroe County, New York	0.001
Monroe County, Ohio	0.000
Monroe County, Pennsylvania	0.000
Monroe County, Tennessee	0.000

Monroe County, West Virginia	0.000
Monroe County, Wisconsin	0.000
Montague County, Texas	0.000
Montcalm County, Michigan	0.000
Montezuma County, Colorado	0.000
Montgomery County, Alabama	0.001
Montgomery County, Arkansas	0.000
Montgomery County, Georgia	0.000
Montgomery County, Illinois	0.000
Montgomery County, Indiana	0.000
Montgomery County, Kansas	0.001
Montgomery County, Mississippi	0.000
Montgomery County, New York	0.000
Montgomery County, North Carolina	0.000
Montgomery County, Ohio	0.001
Montgomery County, Pennsylvania	0.001
Montour County, Pennsylvania	0.000
Montrose County, Colorado	0.001
Moore County, Tennessee	0.000
Mora County, New Mexico	0.000
Morehouse Parish, Louisiana	0.000
Morgan County, Alabama	0.001
Morgan County, Colorado	0.001
Morgan County, Georgia	0.000
Morgan County, Illinois	0.000

Morgan County, Indiana	0.001
Morgan County, Kentucky	0.000
Morgan County, Missouri	0.000
Morgan County, Ohio	0.000
Morgan County, Tennessee	0.000
Morgan County, West Virginia	0.000
Morris County, New Jersey	0.001
Morris County, Texas	0.000
Morrison County, Minnesota	0.000
Morrow County, Ohio	0.000
Morrow County, Oregon	0.001
Moultrie County, Illinois	0.000
Mower County, Minnesota	0.000
Muhlenberg County, Kentucky	0.000
Murray County, Georgia	0.000
Muscatine County, Iowa	0.001
Muskegon County, Michigan	0.000
Muskingum County, Ohio	0.000
Muskogee County, Oklahoma	0.000
Nash County, North Carolina	0.001
Natchitoches Parish, Louisiana	0.000
Navajo County, Arizona	0.000
Navarro County, Texas	0.001
Nelson County, Virginia	0.000
Nemaha County, Nebraska	0.001

Neosho County, Kansas	0.001
Neshoba County, Mississippi	0.000
Nevada County, Arkansas	0.000
Nevada County, California	0.001
New Castle County, Delaware	0.001
New Haven County, Connecticut	0.001
New London County, Connecticut	0.001
Newaygo County, Michigan	0.000
Newberry County, South Carolina	0.000
Newport County, Rhode Island	0.001
Newton County, Arkansas	0.000
Newton County, Indiana	0.000
Newton County, Mississippi	0.000
Newton County, Missouri	0.000
Newton County, Texas	0.000
Nez Perce County, Idaho	0.001
Niagara County, New York	0.000
Nicholas County, Kentucky	0.000
Nicholas County, West Virginia	0.000
Nicollet County, Minnesota	0.001
Noble County, Indiana	0.000
Noble County, Oklahoma	0.000
Nodaway County, Missouri	0.000
Norman County, Minnesota	0.000
Northampton County, North Carolina	0.000

Northampton County, Pennsylvania	0.001
Northampton County, Virginia	0.000
Northumberland County, Pennsylvania	0.000
Northumberland County, Virginia	0.000
Nottoway County, Virginia	0.000
Noxubee County, Mississippi	0.000
O'Brien County, Iowa	0.000
Oakland County, Michigan	0.002
Obion County, Tennessee	0.000
Ocean County, New Jersey	0.001
Oceana County, Michigan	0.000
Oconee County, South Carolina	0.000
Oconto County, Wisconsin	0.000
Ogemaw County, Michigan	0.000
Ogle County, Illinois	0.001
Oglethorpe County, Georgia	0.000
Ohio County, Kentucky	0.000
Ohio County, West Virginia	0.000
Okfuskee County, Oklahoma	0.000
Okmulgee County, Oklahoma	0.000
Oneida County, New York	0.000
Oneida County, Wisconsin	0.000
Onondaga County, New York	0.001
Ontario County, New York	0.000
Orange County, Indiana	0.000



Orange County, New York	0.001
Orange County, Texas	0.001
Orange County, Vermont	0.000
Orangeburg County, South Carolina	0.000
Oregon County, Missouri	0.000
Orleans County, New York	0.000
Orleans County, Vermont	0.000
Osage County, Kansas	0.000
Osage County, Missouri	0.000
Osage County, Oklahoma	0.000
Osceola County, Michigan	0.000
Oscoda County, Michigan	0.000
Oswego County, New York	0.000
Otero County, Colorado	0.001
Otoe County, Nebraska	0.000
Otsego County, Michigan	0.000
Otsego County, New York	0.000
Ottawa County, Kansas	0.000
Ottawa County, Michigan	0.002
Ottawa County, Ohio	0.000
Otter Tail County, Minnesota	0.000
Ouachita County, Arkansas	0.000
Ouachita Parish, Louisiana	0.001
Outagamie County, Wisconsin	0.001
Owen County, Indiana	0.000

Owen County, Kentucky	0.000
Owsley County, Kentucky	0.000
Owyhee County, Idaho	0.000
Oxford County, Maine	0.000
Ozark County, Missouri	0.000
Ozaukee County, Wisconsin	0.002
Page County, Iowa	0.001
Palo Alto County, Iowa	0.000
Palo Pinto County, Texas	0.000
Panola County, Mississippi	0.000
Panola County, Texas	0.000
Park County, Montana	0.000
Parke County, Indiana	0.000
Parmer County, Texas	0.001
Pasquotank County, North Carolina	0.001
Passaic County, New Jersey	0.001
Patrick County, Virginia	0.000
Paulding County, Ohio	0.000
Pawnee County, Kansas	0.001
Payette County, Idaho	0.000
Pearl River County, Mississippi	0.000
Pecos County, Texas	0.000
Pembina County, North Dakota	0.000
Pendleton County, Kentucky	0.000
Pendleton County, West Virginia	0.000

Penobscot County, Maine	0.000
Peoria County, Illinois	0.001
Pepin County, Wisconsin	0.000
Perry County, Alabama	0.000
Perry County, Arkansas	0.000
Perry County, Illinois	0.000
Perry County, Kentucky	0.000
Perry County, Mississippi	0.000
Perry County, Missouri	0.000
Perry County, Ohio	0.000
Perry County, Pennsylvania	0.000
Perry County, Tennessee	0.000
Person County, North Carolina	0.000
Pettis County, Missouri	0.000
Phelps County, Missouri	0.000
Phillips County, Arkansas	0.000
Piatt County, Illinois	0.000
Pickaway County, Ohio	0.000
Pickens County, Alabama	0.000
Pickens County, Georgia	0.000
Pickens County, South Carolina	0.001
Pickett County, Tennessee	0.000
Pierce County, Wisconsin	0.001
Pike County, Georgia	0.000
Pike County, Illinois	0.000

Pike County, Indiana	0.000
Pike County, Mississippi	0.000
Pike County, Missouri	0.000
Pike County, Ohio	0.000
Pine County, Minnesota	0.000
Piscataquis County, Maine	0.000
Pittsburg County, Oklahoma	0.000
Pittsylvania County, Virginia	0.000
Pleasants County, West Virginia	0.000
Plumas County, California	0.001
Plymouth County, Iowa	0.001
Plymouth County, Massachusetts	0.001
Pocahontas County, West Virginia	0.000
Poinsett County, Arkansas	0.000
Polk County, Arkansas	0.000
Polk County, Georgia	0.000
Polk County, Minnesota	0.000
Polk County, Missouri	0.000
Polk County, North Carolina	0.000
Polk County, Tennessee	0.000
Polk County, Texas	0.000
Polk County, Wisconsin	0.000
Pondera County, Montana	0.000
Pope County, Minnesota	0.000
Portage County, Ohio	0.000

Portage County, Wisconsin	0.000
Porter County, Indiana	0.001
Posey County, Indiana	0.000
Pottawatomie County, Oklahoma	0.000
Pottawattamie County, Iowa	0.001
Potter County, Pennsylvania	0.000
Powell County, Kentucky	0.000
Power County, Idaho	0.001
Poweshiek County, Iowa	0.000
Powhatan County, Virginia	0.000
Preble County, Ohio	0.000
Prentiss County, Mississippi	0.000
Presidio County, Texas	0.000
Presque Isle County, Michigan	0.000
Preston County, West Virginia	0.000
Price County, Wisconsin	0.000
Providence County, Rhode Island	0.001
Pueblo County, Colorado	0.003
Pulaski County, Georgia	0.000
Pulaski County, Indiana	0.000
Pulaski County, Kentucky	0.000
Pushmataha County, Oklahoma	0.000
Putnam County, Florida	0.000
Putnam County, Indiana	0.000
Putnam County, New York	0.001

Putnam County, Ohio	0.000
Putnam County, West Virginia	0.001
Quitman County, Mississippi	0.000
Racine County, Wisconsin	0.002
Rains County, Texas	0.000
Raleigh County, West Virginia	0.000
Ralls County, Missouri	0.000
Randolph County, Alabama	0.000
Randolph County, Arkansas	0.000
Randolph County, Illinois	0.000
Randolph County, Missouri	0.000
Randolph County, North Carolina	0.001
Randolph County, West Virginia	0.000
Rapides Parish, Louisiana	0.001
Rappahannock County, Virginia	0.000
Ravalli County, Montana	0.000
Ray County, Missouri	0.000
Red River County, Texas	0.000
Red River Parish, Louisiana	0.000
Red Willow County, Nebraska	0.002
Redwood County, Minnesota	0.000
Refugio County, Texas	0.001
Reno County, Kansas	0.001
Rensselaer County, New York	0.001
Renville County, Minnesota	0.000

Republic County, Kansas	0.000
Reynolds County, Missouri	0.000
Rice County, Minnesota	0.001
Richland County, Ohio	0.001
Richland County, Wisconsin	0.000
Richland Parish, Louisiana	0.000
Richmond County, Georgia	0.001
Richmond County, North Carolina	0.000
Rio Grande County, Colorado	0.000
Ripley County, Indiana	0.000
Ritchie County, West Virginia	0.000
Roane County, Tennessee	0.000
Roane County, West Virginia	0.000
Roanoke County, Virginia	0.002
Roberts County, South Dakota	0.000
Robertson County, Kentucky	0.000
Robertson County, Texas	0.000
Rock County, Wisconsin	0.001
Rock Island County, Illinois	0.001
Rockcastle County, Kentucky	0.000
Rockingham County, New Hampshire	0.001
Rockingham County, North Carolina	0.000
Roscommon County, Michigan	0.000
Ross County, Ohio	0.000
Rowan County, Kentucky	0.000

Rowan County, North Carolina	0.001
Runnels County, Texas	0.001
Rusk County, Wisconsin	0.000
Russell County, Kentucky	0.000
Russell County, Virginia	0.000
Rutherford County, North Carolina	0.000
Rutland County, Vermont	0.000
Sabine County, Texas	0.000
Sabine Parish, Louisiana	0.000
Sac County, Iowa	0.000
Sagadahoc County, Maine	0.000
Saginaw County, Michigan	0.001
Saguache County, Colorado	0.000
Salem County, New Jersey	0.000
Saline County, Illinois	0.000
Saline County, Kansas	0.001
Saline County, Missouri	0.000
Saline County, Nebraska	0.000
Saluda County, South Carolina	0.000
Sampson County, North Carolina	0.000
San Augustine County, Texas	0.000
San Juan County, New Mexico	0.001
San Juan County, Washington	0.000
San Miguel County, Colorado	0.000
San Miguel County, New Mexico	0.000



San Patricio County, Texas	0.001
Sanborn County, South Dakota	0.000
Sanders County, Montana	0.000
Sandusky County, Ohio	0.000
Sangamon County, Illinois	0.001
Sanilac County, Michigan	0.000
Saratoga County, New York	0.001
Sauk County, Wisconsin	0.000
Saunders County, Nebraska	0.000
Sawyer County, Wisconsin	0.000
Schenectady County, New York	0.001
Schoharie County, New York	0.000
Schoolcraft County, Michigan	0.000
Schuyler County, New York	0.000
Schuylkill County, Pennsylvania	0.000
Scioto County, Ohio	0.000
Scotland County, Missouri	0.000
Scotland County, North Carolina	0.000
Scott County, Arkansas	0.000
Scott County, Indiana	0.000
Scott County, Mississippi	0.000
Scott County, Missouri	0.000
Scott County, Virginia	0.000
Scotts Bluff County, Nebraska	0.001
Screven County, Georgia	0.000

Searcy County, Arkansas	0.000
Sebastian County, Arkansas	0.001
Seminole County, Georgia	0.000
Seminole County, Oklahoma	0.000
Seneca County, New York	0.000
Seneca County, Ohio	0.000
Sevier County, Utah	0.001
Sharp County, Arkansas	0.000
Shasta County, California	0.001
Shawano County, Wisconsin	0.000
Shawnee County, Kansas	0.001
Sheboygan County, Wisconsin	0.001
Shelby County, Indiana	0.000
Shelby County, Iowa	0.000
Shelby County, Ohio	0.001
Shelby County, Tennessee	0.001
Shelby County, Texas	0.000
Shenandoah County, Virginia	0.000
Sheridan County, North Dakota	0.000
Shiawassee County, Michigan	0.000
Sibley County, Minnesota	0.000
Sierra County, New Mexico	0.000
Simpson County, Kentucky	0.000
Simpson County, Mississippi	0.000
Sioux County, Iowa	0.002

Siskiyou County, California	0.000
Skagit County, Washington	0.001
Smith County, Mississippi	0.000
Smith County, Tennessee	0.000
Smyth County, Virginia	0.000
Snyder County, Pennsylvania	0.000
Socorro County, New Mexico	0.000
Solano County, California	0.002
Somerset County, Maine	0.000
Somerset County, Maryland	0.000
Somerset County, New Jersey	0.001
Somerset County, Pennsylvania	0.000
Southampton County, Virginia	0.000
Spalding County, Georgia	0.000
Spencer County, Indiana	0.000
St. Charles Parish, Louisiana	0.010
St. Clair County, Illinois	0.001
St. Clair County, Michigan	0.001
St. Clair County, Missouri	0.000
St. Francis County, Arkansas	0.000
St. Francois County, Missouri	0.000
St. Helena Parish, Louisiana	0.000
St. James Parish, Louisiana	0.001
St. John the Baptist Parish, Louisiana	0.001
St. Joseph County, Indiana	0.001

St. Joseph County, Michigan	0.000
St. Landry Parish, Louisiana	0.000
St. Lawrence County, New York	0.000
St. Louis County, Minnesota	0.000
St. Louis County, Missouri	0.002
St. Martin Parish, Louisiana	0.000
Stanislaus County, California	0.001
Stanly County, North Carolina	0.000
Stanton County, Nebraska	0.001
Stark County, Illinois	0.000
Stark County, Ohio	0.001
Ste. Genevieve County, Missouri	0.000
Stearns County, Minnesota	0.002
Steele County, Minnesota	0.001
Stephenson County, Illinois	0.000
Steuben County, Indiana	0.000
Steuben County, New York	0.000
Stevens County, Minnesota	0.001
Stevens County, Washington	0.000
Stewart County, Tennessee	0.000
Stoddard County, Missouri	0.000
Stokes County, North Carolina	0.000
Stone County, Arkansas	0.000
Stone County, Missouri	0.000
Strafford County, New Hampshire	0.001

Suffolk County, New York	0.001
Sullivan County, Indiana	0.000
Sullivan County, Missouri	0.000
Sullivan County, New Hampshire	0.000
Sullivan County, New York	0.000
Sullivan County, Pennsylvania	0.000
Sullivan County, Tennessee	0.000
Summers County, West Virginia	0.000
Summit County, Ohio	0.001
Sumter County, Alabama	0.000
Sumter County, Georgia	0.000
Sumter County, South Carolina	0.001
Surry County, North Carolina	0.000
Surry County, Virginia	0.000
Susquehanna County, Pennsylvania	0.000
Sussex County, New Jersey	0.001
Sussex County, Virginia	0.000
Sutter County, California	0.002
Swain County, North Carolina	0.000
Swift County, Minnesota	0.000
Swisher County, Texas	0.000
Switzerland County, Indiana	0.000
Talbot County, Georgia	0.000
Talbot County, Maryland	0.001
Talladega County, Alabama	0.000

Tallahatchie County, Mississippi	0.000
Tallapoosa County, Alabama	0.000
Tama County, Iowa	0.000
Taos County, New Mexico	0.000
Tate County, Mississippi	0.000
Taylor County, Georgia	0.000
Taylor County, Kentucky	0.000
Taylor County, West Virginia	0.000
Taylor County, Wisconsin	0.000
Tazewell County, Illinois	0.001
Tazewell County, Virginia	0.000
Tehama County, California	0.001
Telfair County, Georgia	0.000
Terry County, Texas	0.001
Teton County, Montana	0.000
Texas County, Missouri	0.000
Thomas County, Georgia	0.000
Thomas County, Kansas	0.004
Tift County, Georgia	0.001
Tillamook County, Oregon	0.000
Tioga County, New York	0.000
Tioga County, Pennsylvania	0.000
Tippah County, Mississippi	0.000
Tipton County, Indiana	0.000
Tishomingo County, Mississippi	0.000

Todd County, Minnesota	0.000
Tolland County, Connecticut	0.000
Tompkins County, New York	0.000
Toombs County, Georgia	0.000
Traill County, North Dakota	0.000
Transylvania County, North Carolina	0.000
Trempealeau County, Wisconsin	0.000
Treutlen County, Georgia	0.000
Trigg County, Kentucky	0.000
Trimble County, Kentucky	0.000
Trinity County, California	0.000
Trinity County, Texas	0.000
Tripp County, South Dakota	0.000
Trumbull County, Ohio	0.000
Tucker County, West Virginia	0.000
Tuolumne County, California	0.001
Turner County, Georgia	0.000
Tuscarawas County, Ohio	0.000
Tuscola County, Michigan	0.000
Twiggs County, Georgia	0.000
Tyler County, Texas	0.000
Tyler County, West Virginia	0.000
Tyrrell County, North Carolina	0.000
Ulster County, New York	0.000
Umatilla County, Oregon	0.001

Unicoi County, Tennessee	0.000
Union County, Arkansas	0.000
Union County, Florida	0.000
Union County, Georgia	0.000
Union County, Illinois	0.000
Union County, Kentucky	0.000
Union County, Mississippi	0.000
Union County, Pennsylvania	0.000
Union County, South Carolina	0.000
Union County, Tennessee	0.000
Union Parish, Louisiana	0.000
Upshur County, West Virginia	0.000
Upson County, Georgia	0.000
Uvalde County, Texas	0.000
Valley County, Idaho	0.000
Van Buren County, Iowa	0.000
Van Buren County, Michigan	0.000
Van Wert County, Ohio	0.000
Van Zandt County, Texas	0.000
Vance County, North Carolina	0.000
Vanderburgh County, Indiana	0.001
Venango County, Pennsylvania	0.000
Vermilion County, Illinois	0.001
Vermilion Parish, Louisiana	0.000
Vernon County, Missouri	0.000



Vernon County, Wisconsin	0.000
Vigo County, Indiana	0.000
Vinton County, Ohio	0.000
Virginia Beach city, Virginia	0.121
Volusia County, Florida	0.001
Wabash County, Indiana	0.000
Wabasha County, Minnesota	0.000
Wabaunsee County, Kansas	0.000
Wahkiakum County, Washington	0.000
Waldo County, Maine	0.000
Walker County, Alabama	0.000
Walker County, Georgia	0.000
Wallowa County, Oregon	0.000
Walsh County, North Dakota	0.000
Walthall County, Mississippi	0.000
Walworth County, Wisconsin	0.001
Wapello County, Iowa	0.000
Warren County, Georgia	0.000
Warren County, Illinois	0.000
Warren County, New Jersey	0.001
Warren County, New York	0.000
Warren County, North Carolina	0.000
Warren County, Pennsylvania	0.000
Warren County, Tennessee	0.000
Waseca County, Minnesota	0.001

Washburn County, Wisconsin	0.000
Washington County, Alabama	0.000
Washington County, Georgia	0.000
Washington County, Idaho	0.001
Washington County, Illinois	0.001
Washington County, Indiana	0.000
Washington County, Iowa	0.000
Washington County, Kansas	0.000
Washington County, Kentucky	0.000
Washington County, Maine	0.000
Washington County, Maryland	0.001
Washington County, Missouri	0.000
Washington County, Nebraska	0.001
Washington County, New York	0.000
Washington County, North Carolina	0.000
Washington County, Ohio	0.000
Washington County, Oklahoma	0.001
Washington County, Pennsylvania	0.000
Washington County, Rhode Island	0.000
Washington County, Vermont	0.000
Washington County, Virginia	0.000
Washington County, Wisconsin	0.003
Washington Parish, Louisiana	0.000
Washtenaw County, Michigan	0.001
Watonwan County, Minnesota	0.000

Waukesha County, Wisconsin	0.018
Waupaca County, Wisconsin	0.000
Waushara County, Wisconsin	0.000
Wayne County, Georgia	0.000
Wayne County, Indiana	0.000
Wayne County, Iowa	0.000
Wayne County, Kentucky	0.000
Wayne County, Michigan	0.001
Wayne County, Mississippi	0.000
Wayne County, Missouri	0.000
Wayne County, New York	0.000
Wayne County, Ohio	0.000
Wayne County, Pennsylvania	0.000
Wayne County, Tennessee	0.000
Wayne County, Utah	0.001
Wayne County, West Virginia	0.000
Weakley County, Tennessee	0.000
Webster County, Georgia	0.000
Webster County, Iowa	0.001
Webster County, Mississippi	0.000
Webster County, Missouri	0.000
Webster County, Nebraska	0.000
Webster County, West Virginia	0.000
Webster Parish, Louisiana	0.000
Wells County, Indiana	0.001

Wells County, North Dakota	0.000
West Carroll Parish, Louisiana	0.000
West Feliciana Parish, Louisiana	0.000
Westchester County, New York	0.001
Westmoreland County, Pennsylvania	0.001
Westmoreland County, Virginia	0.000
Wetzel County, West Virginia	0.000
Wexford County, Michigan	0.000
Wharton County, Texas	0.001
Wheatland County, Montana	0.000
White County, Illinois	0.000
White County, Indiana	0.000
White County, Tennessee	0.000
Whiteside County, Illinois	0.000
Whitley County, Indiana	0.000
Whitley County, Kentucky	0.000
Wilcox County, Alabama	0.000
Wilcox County, Georgia	0.000
Wilkes County, Georgia	0.000
Wilkes County, North Carolina	0.000
Wilkinson County, Georgia	0.000
Wilkinson County, Mississippi	0.000
Will County, Illinois	0.002
Willacy County, Texas	0.000
Williams County, Ohio	0.000

Williamsburg County, South Carolina	0.000
Williamson County, Illinois	0.001
Wilson County, Kansas	0.000
Windham County, Connecticut	0.000
Windham County, Vermont	0.000
Windsor County, Vermont	0.000
Winn Parish, Louisiana	0.000
Winnebago County, Illinois	0.001
Winnebago County, Wisconsin	0.001
Winneshiek County, Iowa	0.000
Winona County, Minnesota	0.000
Winston County, Alabama	0.000
Winston County, Mississippi	0.000
Wirt County, West Virginia	0.000
Wise County, Virginia	0.000
Wolfe County, Kentucky	0.000
Wood County, Ohio	0.001
Wood County, Texas	0.000
Wood County, West Virginia	0.000
Wood County, Wisconsin	0.000
Woodbury County, Iowa	0.001
Woodford County, Illinois	0.001
Woodford County, Kentucky	0.001
Woodruff County, Arkansas	0.000
Woods County, Oklahoma	0.001

Woodward County, Oklahoma	0.001
Worcester County, Maryland	0.001
Worcester County, Massachusetts	0.001
Worth County, Georgia	0.000
Worth County, Iowa	0.000
Wright County, Missouri	0.000
Wyandotte County, Kansas	0.001
Wyoming County, New York	0.000
Wyoming County, Pennsylvania	0.000
Wythe County, Virginia	0.000
Yadkin County, North Carolina	0.000
Yalobusha County, Mississippi	0.000
Yancey County, North Carolina	0.000
Yates County, New York	0.000
Yavapai County, Arizona	0.001
Yell County, Arkansas	0.000
Yellow Medicine County, Minnesota	0.000
York County, Maine	0.000
York County, Pennsylvania	0.001
York County, Virginia	0.005
Yuba County, California	0.001
Yuma County, Colorado	0.001
Zavala County, Texas	0.000

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**Fig 9.11** Veg Farm Acreage: Full Parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
One race Black or African American	0.130
Hispanic or Latino of any race	0.153
Median nonfamily income dollars	0.130
Male Ed Some College Or Associates	0.139
Rural	0.139
total votes x	0.153
republican vote percent x	0.157

**Fig 9.12** Veg Farm Acreage: Condensed Parametric W weight list

<b>County</b>	<b>W Weight</b>
Caribou County, Idaho	0.126
Bay County, Michigan	0.098
Cloud County, Kansas	0.030
Florence County, South Carolina	0.015
Fond du Lac County, Wisconsin	0.013
Harford County, Maryland	0.011
Butler County, Nebraska	0.010
Butler County, Ohio	0.010
Benton County, Oregon	0.008
Effingham County, Illinois	0.008
Fayette County, Georgia	0.007
Cape May County, New Jersey	0.007
Dale County, Alabama	0.007
Dodge County, Nebraska	0.007

Eastland County, Texas	0.007
Macon County, Alabama	0.006
Escambia County, Florida	0.006
Adams County, Illinois	0.006
Allen County, Indiana	0.006
Brown County, Texas	0.006
Cerro Gordo County, Iowa	0.006
Dawson County, Nebraska	0.006
Elkhart County, Indiana	0.006
Kings County, California	0.005
Anoka County, Minnesota	0.005
Pueblo County, Colorado	0.005
Jefferson Parish, Louisiana	0.005
Macomb County, Michigan	0.005
Racine County, Wisconsin	0.005
Sioux County, Iowa	0.005
Adams County, Nebraska	0.005
Albany County, New York	0.005
Allegheny County, Pennsylvania	0.005
Baltimore County, Maryland	0.005
Barnstable County, Massachusetts	0.005
Berks County, Pennsylvania	0.005
Boone County, Illinois	0.005
Butler County, Pennsylvania	0.005
Callahan County, Texas	0.005



Camden County, New Jersey	0.005
Carroll County, Maryland	0.005
Charlotte County, Florida	0.005
Chase County, Nebraska	0.005
Clinton County, Michigan	0.005
Cochise County, Arizona	0.005
Colusa County, California	0.005
Cowlitz County, Washington	0.005
Dauphin County, Pennsylvania	0.005
Dodge County, Minnesota	0.005
Dubuque County, Iowa	0.005
Elmore County, Idaho	0.005
Fairfield County, Ohio	0.005
Fergus County, Montana	0.005
Gibson County, Indiana	0.005
Gloucester County, Virginia	0.005
Grayson County, Texas	0.005
Virginia Beach city, Virginia	0.004
Grant County, Kansas	0.004
Waukesha County, Wisconsin	0.004
St. Charles Parish, Louisiana	0.004
Dakota County, Minnesota	0.004
Lee County, Georgia	0.004
Washington County, Wisconsin	0.004
Cheyenne County, Nebraska	0.004

Churchill County, Nevada	0.004
East Baton Rouge Parish, Louisiana	0.004
El Dorado County, California	0.004
Greene County, Ohio	0.004
Hamilton County, Nebraska	0.004
Hanover County, Virginia	0.004
Livingston County, Michigan	0.004
McHenry County, Illinois	0.004
Oakland County, Michigan	0.004
Ottawa County, Michigan	0.004
Ozaukee County, Wisconsin	0.004
Red Willow County, Nebraska	0.004
Roanoke County, Virginia	0.004
Solano County, California	0.004
St. Louis County, Missouri	0.004
Stearns County, Minnesota	0.004
Will County, Illinois	0.004
Anderson County, Kentucky	0.004
Angelina County, Texas	0.004
Aransas County, Texas	0.004
Asotin County, Washington	0.004
Atlantic County, New Jersey	0.004
Auglaize County, Ohio	0.004
Beaver County, Pennsylvania	0.004
Benton County, Minnesota	0.004

Bergen County, New Jersey	0.004
Black Hawk County, Iowa	0.004
Blaine County, Idaho	0.004
Blount County, Tennessee	0.004
Botetourt County, Virginia	0.004
Bowie County, Texas	0.004
Boyle County, Kentucky	0.004
Bristol County, Rhode Island	0.004
Brown County, Minnesota	0.004
Buchanan County, Missouri	0.004
Bucks County, Pennsylvania	0.004
Burlington County, New Jersey	0.004
Butler County, Kansas	0.004
Butte County, California	0.004
Caddo Parish, Louisiana	0.004
Calhoun County, Alabama	0.004
Campbell County, Kentucky	0.004
Carbon County, Utah	0.004
Cascade County, Montana	0.004
Cass County, Nebraska	0.004
Catawba County, North Carolina	0.004
Cecil County, Maryland	0.004
Christian County, Kentucky	0.004
Clallam County, Washington	0.004
Clark County, Ohio	0.004

Clatsop County, Oregon	0.004
Clay County, Kansas	0.004
Clay County, Texas	0.004
Clermont County, Ohio	0.004
Clinton County, Illinois	0.004
Codington County, South Dakota	0.004
Cole County, Missouri	0.004
Coles County, Illinois	0.004
Cook County, Illinois	0.004
Cowley County, Kansas	0.004
Custer County, Nebraska	0.004
DeKalb County, Illinois	0.004
DeWitt County, Texas	0.004
Dearborn County, Indiana	0.004
Defiance County, Ohio	0.004
Dodge County, Wisconsin	0.004
Dutchess County, New York	0.004
Emery County, Utah	0.004
Erie County, New York	0.004
Essex County, Massachusetts	0.004
Essex County, New Jersey	0.004
Etowah County, Alabama	0.004
Floyd County, Georgia	0.004
Floyd County, Indiana	0.004
Floyd County, Texas	0.004

Forrest County, Mississippi	0.004
Franklin County, Kansas	0.004
Franklin County, Kentucky	0.004
Fremont County, Colorado	0.004
Fremont County, Idaho	0.004
Gem County, Idaho	0.004
Genesee County, Michigan	0.004
Gila County, Arizona	0.004
Glenn County, California	0.004
Gloucester County, New Jersey	0.004
Gooding County, Idaho	0.004
Grundy County, Missouri	0.004
York County, Virginia	0.003
Thomas County, Kansas	0.003
Hockley County, Texas	0.003
Amador County, California	0.003
Box Butte County, Nebraska	0.003
Calvert County, Maryland	0.003
Carroll County, Georgia	0.003
Cooke County, Texas	0.003
Eaton County, Michigan	0.003
Freestone County, Texas	0.003
Garland County, Arkansas	0.003
Goodhue County, Minnesota	0.003
Grand Forks County, North Dakota	0.003

Grant County, New Mexico	0.003
Sutter County, California	0.002
Columbia County, Oregon	0.002
Cuyahoga County, Ohio	0.000

**Fig 9.13** Veg Farm Acreage: Condensed Parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
One race Black or African American	0.661
Hispanic or Latino of any race	0.109
Median nonfamily income dollars	0.008
Male Ed Some College Or Associates	0.053
Rural	0.027
total votes x	0.140
republican vote percent x	0.002

**Fig 9.14** WIC Women: Full Non-parametric W weight list

<b>County</b>	<b>W Weight</b>
Acadia Parish, Louisiana	0.000
Accomack County, Virginia	0.000
Adair County, Iowa	0.000
Adair County, Kentucky	0.000
Adair County, Oklahoma	0.000
Adams County, Colorado	0.000

Adams County, Indiana	0.000
Adams County, Iowa	0.000
Adams County, Mississippi	0.000
Adams County, Nebraska	0.000
Adams County, North Dakota	0.000
Adams County, Ohio	0.000
Adams County, Pennsylvania	0.000
Adams County, Washington	0.011
Adams County, Wisconsin	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000
Alachua County, Florida	0.000
Alamance County, North Carolina	0.000
Alamosa County, Colorado	0.000
Albany County, New York	0.000
Albany County, Wyoming	0.000
Albemarle County, Virginia	0.000
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, North Carolina	0.000
Alexandria city, Virginia	0.000
Alfalfa County, Oklahoma	0.000
Alger County, Michigan	0.000
Allamakee County, Iowa	0.000
Allegan County, Michigan	0.000

Allegany County, Maryland	0.000
Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Alleghany County, Virginia	0.000
Allegheny County, Pennsylvania	0.000
Allen County, Indiana	0.000
Allen County, Kentucky	0.000
Allen County, Ohio	0.000
Allen Parish, Louisiana	0.000
Alpena County, Michigan	0.000
Amelia County, Virginia	0.000
Amherst County, Virginia	0.000
Amite County, Mississippi	0.000
Anderson County, Kentucky	0.000
Anderson County, Tennessee	0.001
Androscoggin County, Maine	0.000
Anne Arundel County, Maryland	0.000
Anoka County, Minnesota	0.000
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000
Appanoose County, Iowa	0.000
Appling County, Georgia	0.000
Appomattox County, Virginia	0.000
Arapahoe County, Colorado	0.000



Archuleta County, Colorado	0.019
Arenac County, Michigan	0.000
Arkansas County, Arkansas	0.000
Arlington County, Virginia	0.000
Armstrong County, Pennsylvania	0.000
Aroostook County, Maine	0.000
Arthur County, Nebraska	0.000
Ascension Parish, Louisiana	0.000
Ashe County, North Carolina	0.000
Ashland County, Ohio	0.000
Ashland County, Wisconsin	0.000
Ashley County, Arkansas	0.000
Ashtabula County, Ohio	0.000
Asotin County, Washington	0.000
Assumption Parish, Louisiana	0.000
Athens County, Ohio	0.000
Atkinson County, Georgia	0.000
Atlantic County, New Jersey	0.000
Atoka County, Oklahoma	0.000
Attala County, Mississippi	0.000
Audubon County, Iowa	0.000
Auglaize County, Ohio	0.000
Augusta County, Virginia	0.001
Aurora County, South Dakota	0.000
Autauga County, Alabama	0.000

Avery County, North Carolina	0.000
Avoyelles Parish, Louisiana	0.000
Baca County, Colorado	0.000
Bacon County, Georgia	0.000
Baker County, Florida	0.000
Baker County, Georgia	0.000
Baldwin County, Alabama	0.000
Baldwin County, Georgia	0.000
Ballard County, Kentucky	0.000
Baltimore County, Maryland	0.000
Baltimore city, Maryland	0.000
Banks County, Georgia	0.000
Banner County, Nebraska	0.000
Baraga County, Michigan	0.000
Barbour County, Alabama	0.000
Barbour County, West Virginia	0.000
Barnes County, North Dakota	0.000
Barnstable County, Massachusetts	0.000
Barren County, Kentucky	0.000
Barron County, Wisconsin	0.000
Barrow County, Georgia	0.000
Barry County, Michigan	0.000
Bartholomew County, Indiana	0.000
Bartow County, Georgia	0.000
Bath County, Kentucky	0.000

Bath County, Virginia	0.000
Baxter County, Arkansas	0.000
Bay County, Florida	0.000
Bay County, Michigan	0.000
Bayfield County, Wisconsin	0.000
Beadle County, South Dakota	0.000
Beaufort County, North Carolina	0.000
Beauregard Parish, Louisiana	0.000
Beaver County, Oklahoma	0.000
Beaver County, Pennsylvania	0.000
Beaver County, Utah	0.000
Beaverhead County, Montana	0.000
Becker County, Minnesota	0.000
Beckham County, Oklahoma	0.000
Bedford County, Pennsylvania	0.000
Bedford County, Tennessee	0.000
Bedford County, Virginia	0.000
Belknap County, New Hampshire	0.000
Bell County, Kentucky	0.000
Belmont County, Ohio	0.000
Beltrami County, Minnesota	0.000
Ben Hill County, Georgia	0.000
Bennett County, South Dakota	0.000
Bennington County, Vermont	0.000
Benson County, North Dakota	0.000

Bent County, Colorado	0.000
Benton County, Arkansas	0.001
Benton County, Indiana	0.000
Benton County, Iowa	0.000
Benton County, Minnesota	0.000
Benton County, Mississippi	0.000
Benton County, Tennessee	0.000
Benton County, Washington	0.000
Benzie County, Michigan	0.000
Bergen County, New Jersey	0.000
Berkeley County, West Virginia	0.000
Berks County, Pennsylvania	0.000
Berkshire County, Massachusetts	0.000
Berrien County, Georgia	0.000
Berrien County, Michigan	0.000
Bertie County, North Carolina	0.000
Bibb County, Alabama	0.000
Bibb County, Georgia	0.000
Bienville Parish, Louisiana	0.000
Big Horn County, Montana	0.000
Big Horn County, Wyoming	0.008
Big Stone County, Minnesota	0.000
Billings County, North Dakota	0.000
Black Hawk County, Iowa	0.000
Blackford County, Indiana	0.000

Bladen County, North Carolina	0.000
Blaine County, Montana	0.000
Blaine County, Nebraska	0.000
Blaine County, Oklahoma	0.000
Blair County, Pennsylvania	0.000
Bland County, Virginia	0.001
Bleckley County, Georgia	0.001
Bledsoe County, Tennessee	0.000
Blount County, Alabama	0.001
Blount County, Tennessee	0.000
Blue Earth County, Minnesota	0.000
Bolivar County, Mississippi	0.000
Bon Homme County, South Dakota	0.000
Boone County, Arkansas	0.000
Boone County, Indiana	0.000
Boone County, Iowa	0.000
Boone County, Kentucky	0.000
Boone County, Nebraska	0.000
Boone County, West Virginia	0.000
Bossier Parish, Louisiana	0.000
Botetourt County, Virginia	0.000
Bottineau County, North Dakota	0.000
Boulder County, Colorado	0.000
Bourbon County, Kentucky	0.000
Bowman County, North Dakota	0.000

Box Butte County, Nebraska	0.000
Box Elder County, Utah	0.000
Boyd County, Kentucky	0.000
Boyd County, Nebraska	0.000
Boyle County, Kentucky	0.000
Bracken County, Kentucky	0.000
Bradford County, Florida	0.000
Bradford County, Pennsylvania	0.000
Bradley County, Arkansas	0.000
Bradley County, Tennessee	0.000
Branch County, Michigan	0.000
Brantley County, Georgia	0.000
Braxton County, West Virginia	0.000
Breathitt County, Kentucky	0.000
Breckinridge County, Kentucky	0.000
Bremer County, Iowa	0.000
Brevard County, Florida	0.000
Bristol County, Massachusetts	0.000
Bristol County, Rhode Island	0.000
Bristol city, Virginia	0.000
Broadwater County, Montana	0.000
Bronx County, New York	0.000
Brooke County, West Virginia	0.000
Brookings County, South Dakota	0.000
Brooks County, Georgia	0.000

Broome County, New York	0.000
Broomfield County, Colorado	0.000
Broward County, Florida	0.000
Brown County, Indiana	0.000
Brown County, Minnesota	0.000
Brown County, Nebraska	0.000
Brown County, Ohio	0.000
Brown County, South Dakota	0.000
Brown County, Wisconsin	0.000
Brule County, South Dakota	0.000
Brunswick County, North Carolina	0.000
Brunswick County, Virginia	0.000
Bryan County, Georgia	0.000
Bryan County, Oklahoma	0.000
Buchanan County, Iowa	0.000
Buchanan County, Virginia	0.000
Buckingham County, Virginia	0.000
Bucks County, Pennsylvania	0.000
Buena Vista County, Iowa	0.000
Buena Vista city, Virginia	0.000
Buffalo County, Nebraska	0.000
Buffalo County, South Dakota	0.000
Buffalo County, Wisconsin	0.000
Bullitt County, Kentucky	0.000
Bulloch County, Georgia	0.000

Bullock County, Alabama	0.000
Buncombe County, North Carolina	0.000
Burke County, Georgia	0.000
Burke County, North Carolina	0.000
Burke County, North Dakota	0.000
Burleigh County, North Dakota	0.000
Burlington County, New Jersey	0.000
Burnett County, Wisconsin	0.000
Burt County, Nebraska	0.000
Butler County, Alabama	0.000
Butler County, Iowa	0.000
Butler County, Kentucky	0.000
Butler County, Nebraska	0.000
Butler County, Ohio	0.000
Butler County, Pennsylvania	0.000
Butte County, South Dakota	0.000
Butts County, Georgia	0.000
Cabarrus County, North Carolina	0.000
Cabell County, West Virginia	0.000
Cache County, Utah	0.000
Caddo County, Oklahoma	0.000
Caddo Parish, Louisiana	0.000
Calcasieu Parish, Louisiana	0.000
Caldwell County, Kentucky	0.000
Caldwell County, North Carolina	0.000



Caldwell Parish, Louisiana	0.000
Caledonia County, Vermont	0.000
Calhoun County, Alabama	0.000
Calhoun County, Arkansas	0.000
Calhoun County, Florida	0.000
Calhoun County, Georgia	0.000
Calhoun County, Iowa	0.000
Calhoun County, Michigan	0.000
Calhoun County, Mississippi	0.000
Calhoun County, West Virginia	0.000
Calloway County, Kentucky	0.000
Calumet County, Wisconsin	0.000
Calvert County, Maryland	0.000
Cambria County, Pennsylvania	0.000
Camden County, Georgia	0.000
Camden County, New Jersey	0.000
Camden County, North Carolina	0.000
Cameron County, Pennsylvania	0.000
Cameron Parish, Louisiana	0.000
Campbell County, Kentucky	0.000
Campbell County, South Dakota	0.000
Campbell County, Tennessee	0.000
Campbell County, Virginia	0.000
Campbell County, Wyoming	0.000
Canadian County, Oklahoma	0.000

Candler County, Georgia	0.000
Cannon County, Tennessee	0.000
Cape May County, New Jersey	0.000
Carbon County, Montana	0.000
Carbon County, Pennsylvania	0.000
Carbon County, Utah	0.000
Carbon County, Wyoming	0.000
Carlisle County, Kentucky	0.000
Carlton County, Minnesota	0.000
Caroline County, Maryland	0.000
Caroline County, Virginia	0.000
Carroll County, Arkansas	0.000
Carroll County, Georgia	0.000
Carroll County, Indiana	0.000
Carroll County, Iowa	0.000
Carroll County, Kentucky	0.000
Carroll County, Maryland	0.000
Carroll County, Mississippi	0.000
Carroll County, New Hampshire	0.000
Carroll County, Ohio	0.000
Carroll County, Tennessee	0.000
Carroll County, Virginia	0.000
Carson City, Nevada	0.000
Carter County, Kentucky	0.000
Carter County, Montana	0.000

Carter County, Oklahoma	0.000
Carter County, Tennessee	0.000
Carteret County, North Carolina	0.000
Carver County, Minnesota	0.000
Cascade County, Montana	0.000
Casey County, Kentucky	0.000
Cass County, Indiana	0.000
Cass County, Iowa	0.000
Cass County, Michigan	0.000
Cass County, Minnesota	0.000
Cass County, Nebraska	0.000
Cass County, North Dakota	0.000
Caswell County, North Carolina	0.000
Catahoula Parish, Louisiana	0.000
Catawba County, North Carolina	0.000
Catoosa County, Georgia	0.000
Cattaraugus County, New York	0.000
Cavalier County, North Dakota	0.000
Cayuga County, New York	0.000
Cecil County, Maryland	0.000
Cedar County, Iowa	0.000
Cedar County, Nebraska	0.000
Centre County, Pennsylvania	0.000
Cerro Gordo County, Iowa	0.000
Chaffee County, Colorado	0.000

Chambers County, Alabama	0.000
Champaign County, Ohio	0.000
Charles City County, Virginia	0.000
Charles County, Maryland	0.000
Charles Mix County, South Dakota	0.000
Charlevoix County, Michigan	0.000
Charlotte County, Florida	0.000
Charlotte County, Virginia	0.000
Charlottesville city, Virginia	0.000
Charlton County, Georgia	0.000
Chase County, Nebraska	0.000
Chatham County, Georgia	0.000
Chatham County, North Carolina	0.000
Chattahoochee County, Georgia	0.004
Chattooga County, Georgia	0.000
Chautauqua County, New York	0.000
Cheatham County, Tennessee	0.000
Cheboygan County, Michigan	0.000
Chelan County, Washington	0.001
Chemung County, New York	0.000
Chenango County, New York	0.000
Cherokee County, Alabama	0.000
Cherokee County, Georgia	0.000
Cherokee County, Iowa	0.000
Cherokee County, North Carolina	0.000

Cherokee County, Oklahoma	0.000
Cherry County, Nebraska	0.000
Chesapeake city, Virginia	0.000
Cheshire County, New Hampshire	0.000
Chester County, Pennsylvania	0.000
Chester County, Tennessee	0.000
Chesterfield County, Virginia	0.000
Cheyenne County, Colorado	0.018
Cheyenne County, Nebraska	0.000
Chickasaw County, Iowa	0.000
Chickasaw County, Mississippi	0.000
Chicot County, Arkansas	0.000
Chilton County, Alabama	0.000
Chippewa County, Michigan	0.000
Chippewa County, Minnesota	0.000
Chippewa County, Wisconsin	0.000
Chisago County, Minnesota	0.000
Chittenden County, Vermont	0.000
Choctaw County, Alabama	0.000
Choctaw County, Mississippi	0.000
Choctaw County, Oklahoma	0.000
Chouteau County, Montana	0.000
Chowan County, North Carolina	0.000
Christian County, Kentucky	0.000
Churchill County, Nevada	0.000

Cimarron County, Oklahoma	0.000
Citrus County, Florida	0.000
Claiborne County, Mississippi	0.000
Claiborne County, Tennessee	0.000
Claiborne Parish, Louisiana	0.001
Clallam County, Washington	0.000
Clare County, Michigan	0.000
Clarion County, Pennsylvania	0.000
Clark County, Arkansas	0.000
Clark County, Indiana	0.000
Clark County, Kentucky	0.000
Clark County, Nevada	0.026
Clark County, Ohio	0.000
Clark County, South Dakota	0.000
Clark County, Washington	0.000
Clark County, Wisconsin	0.000
Clarke County, Alabama	0.000
Clarke County, Georgia	0.000
Clarke County, Iowa	0.000
Clarke County, Mississippi	0.000
Clarke County, Virginia	0.000
Clay County, Alabama	0.000
Clay County, Arkansas	0.000
Clay County, Florida	0.000
Clay County, Georgia	0.000

Clay County, Indiana	0.000
Clay County, Iowa	0.000
Clay County, Kentucky	0.000
Clay County, Minnesota	0.000
Clay County, Mississippi	0.000
Clay County, Nebraska	0.000
Clay County, North Carolina	0.000
Clay County, South Dakota	0.000
Clay County, Tennessee	0.000
Clay County, West Virginia	0.000
Clayton County, Georgia	0.000
Clayton County, Iowa	0.000
Clear Creek County, Colorado	0.000
Clearfield County, Pennsylvania	0.000
Clearwater County, Minnesota	0.000
Cleburne County, Alabama	0.000
Cleburne County, Arkansas	0.000
Clermont County, Ohio	0.000
Cleveland County, Arkansas	0.000
Cleveland County, North Carolina	0.000
Cleveland County, Oklahoma	0.000
Clinch County, Georgia	0.000
Clinton County, Indiana	0.000
Clinton County, Iowa	0.000
Clinton County, Kentucky	0.000

Clinton County, Michigan	0.000
Clinton County, New York	0.000
Clinton County, Ohio	0.000
Clinton County, Pennsylvania	0.000
Coahoma County, Mississippi	0.000
Coal County, Oklahoma	0.000
Cobb County, Georgia	0.000
Cocke County, Tennessee	0.000
Codington County, South Dakota	0.000
Coffee County, Alabama	0.000
Coffee County, Georgia	0.000
Coffee County, Tennessee	0.000
Colbert County, Alabama	0.000
Colfax County, Nebraska	0.003
Collier County, Florida	0.000
Colonial Heights city, Virginia	0.000
Colquitt County, Georgia	0.000
Columbia County, Arkansas	0.000
Columbia County, Florida	0.000
Columbia County, Georgia	0.000
Columbia County, New York	0.000
Columbia County, Pennsylvania	0.000
Columbia County, Washington	0.000
Columbia County, Wisconsin	0.000
Columbiana County, Ohio	0.000



Columbus County, North Carolina	0.000
Comanche County, Oklahoma	0.000
Concordia Parish, Louisiana	0.000
Conecuh County, Alabama	0.000
Conejos County, Colorado	0.000
Converse County, Wyoming	0.000
Conway County, Arkansas	0.000
Cook County, Georgia	0.000
Cook County, Minnesota	0.000
Coos County, New Hampshire	0.000
Coosa County, Alabama	0.000
Copiah County, Mississippi	0.000
Corson County, South Dakota	0.000
Cortland County, New York	0.000
Coshocton County, Ohio	0.000
Costilla County, Colorado	0.000
Cotton County, Oklahoma	0.000
Cottonwood County, Minnesota	0.000
Covington County, Alabama	0.000
Covington County, Mississippi	0.000
Covington city, Virginia	0.000
Coweta County, Georgia	0.000
Cowlitz County, Washington	0.000
Craig County, Oklahoma	0.000
Craig County, Virginia	0.000

Craighead County, Arkansas	0.000
Craven County, North Carolina	0.000
Crawford County, Arkansas	0.000
Crawford County, Georgia	0.000
Crawford County, Indiana	0.000
Crawford County, Iowa	0.000
Crawford County, Michigan	0.000
Crawford County, Ohio	0.000
Crawford County, Pennsylvania	0.000
Crawford County, Wisconsin	0.000
Creek County, Oklahoma	0.000
Crenshaw County, Alabama	0.000
Crisp County, Georgia	0.000
Crittenden County, Arkansas	0.000
Crittenden County, Kentucky	0.000
Crockett County, Tennessee	0.000
Crook County, Wyoming	0.000
Cross County, Arkansas	0.000
Crow Wing County, Minnesota	0.000
Crowley County, Colorado	0.003
Cullman County, Alabama	0.000
Culpeper County, Virginia	0.000
Cumberland County, Kentucky	0.000
Cumberland County, Maine	0.000
Cumberland County, New Jersey	0.000

Cumberland County, North Carolina	0.000
Cumberland County, Pennsylvania	0.000
Cumberland County, Tennessee	0.000
Cumberland County, Virginia	0.000
Cuming County, Nebraska	0.000
Currituck County, North Carolina	0.000
Custer County, Colorado	0.000
Custer County, Montana	0.000
Custer County, Nebraska	0.000
Custer County, Oklahoma	0.000
Custer County, South Dakota	0.000
Cuyahoga County, Ohio	0.000
Dade County, Georgia	0.000
Daggett County, Utah	0.003
Dakota County, Minnesota	0.000
Dakota County, Nebraska	0.000
Dale County, Alabama	0.000
Dallas County, Alabama	0.000
Dallas County, Arkansas	0.000
Dallas County, Iowa	0.000
Dane County, Wisconsin	0.000
Daniels County, Montana	0.000
Danville city, Virginia	0.000
Dare County, North Carolina	0.000
Darke County, Ohio	0.000

Dauphin County, Pennsylvania	0.000
Davidson County, North Carolina	0.000
Davidson County, Tennessee	0.000
Davie County, North Carolina	0.000
Daviess County, Indiana	0.000
Daviess County, Kentucky	0.000
Davis County, Iowa	0.000
Davis County, Utah	0.000
Davison County, South Dakota	0.000
Dawes County, Nebraska	0.000
Dawson County, Georgia	0.000
Dawson County, Montana	0.000
Dawson County, Nebraska	0.000
Day County, South Dakota	0.000
De Soto Parish, Louisiana	0.000
DeKalb County, Alabama	0.000
DeKalb County, Georgia	0.000
DeKalb County, Indiana	0.000
DeKalb County, Tennessee	0.000
DeSoto County, Florida	0.000
DeSoto County, Mississippi	0.000
Dearborn County, Indiana	0.000
Decatur County, Georgia	0.000
Decatur County, Indiana	0.000
Decatur County, Iowa	0.000

Decatur County, Tennessee	0.000
Deer Lodge County, Montana	0.000
Defiance County, Ohio	0.000
Delaware County, Indiana	0.000
Delaware County, Iowa	0.000
Delaware County, New York	0.000
Delaware County, Ohio	0.000
Delaware County, Oklahoma	0.000
Delaware County, Pennsylvania	0.000
Delta County, Colorado	0.000
Delta County, Michigan	0.000
Denver County, Colorado	0.000
Des Moines County, Iowa	0.000
Desha County, Arkansas	0.000
Deuel County, Nebraska	0.008
Deuel County, South Dakota	0.000
Dewey County, Oklahoma	0.000
Dewey County, South Dakota	0.000
Dickenson County, Virginia	0.000
Dickey County, North Dakota	0.000
Dickinson County, Iowa	0.000
Dickinson County, Michigan	0.000
Dickson County, Tennessee	0.000
Dinwiddie County, Virginia	0.000
District of Columbia, District of Columbia	0.000

Divide County, North Dakota	0.000
Dixie County, Florida	0.000
Dixon County, Nebraska	0.000
Doddridge County, West Virginia	0.011
Dodge County, Georgia	0.000
Dodge County, Minnesota	0.000
Dodge County, Nebraska	0.000
Dodge County, Wisconsin	0.000
Dolores County, Colorado	0.000
Dooly County, Georgia	0.000
Door County, Wisconsin	0.000
Dorchester County, Maryland	0.000
Dougherty County, Georgia	0.000
Douglas County, Colorado	0.000
Douglas County, Georgia	0.000
Douglas County, Minnesota	0.000
Douglas County, Nebraska	0.000
Douglas County, Nevada	0.000
Douglas County, South Dakota	0.000
Douglas County, Washington	0.000
Douglas County, Wisconsin	0.000
Drew County, Arkansas	0.000
Dubois County, Indiana	0.000
Dubuque County, Iowa	0.000
Duchesne County, Utah	0.000

Dukes County, Massachusetts	0.000
Dundy County, Nebraska	0.005
Dunn County, North Dakota	0.000
Dunn County, Wisconsin	0.000
Duplin County, North Carolina	0.000
Durham County, North Carolina	0.000
Dutchess County, New York	0.000
Duval County, Florida	0.000
Dyer County, Tennessee	0.000
Eagle County, Colorado	0.000
Early County, Georgia	0.000
East Baton Rouge Parish, Louisiana	0.000
East Carroll Parish, Louisiana	0.000
East Feliciana Parish, Louisiana	0.005
Eaton County, Michigan	0.000
Eau Claire County, Wisconsin	0.000
Echols County, Georgia	0.000
Eddy County, North Dakota	0.000
Edgecombe County, North Carolina	0.000
Edmonson County, Kentucky	0.000
Edmunds County, South Dakota	0.000
Effingham County, Georgia	0.000
El Paso County, Colorado	0.000
Elbert County, Colorado	0.000
Elbert County, Georgia	0.000

Elk County, Pennsylvania	0.000
Elkhart County, Indiana	0.000
Elko County, Nevada	0.002
Elliott County, Kentucky	0.000
Ellis County, Oklahoma	0.000
Elmore County, Alabama	0.000
Emanuel County, Georgia	0.000
Emery County, Utah	0.000
Emmet County, Iowa	0.000
Emmet County, Michigan	0.000
Emmons County, North Dakota	0.000
Emporia city, Virginia	0.000
Erie County, New York	0.000
Erie County, Ohio	0.000
Erie County, Pennsylvania	0.000
Escambia County, Alabama	0.000
Escambia County, Florida	0.000
Esmeralda County, Nevada	0.000
Essex County, Massachusetts	0.000
Essex County, New Jersey	0.000
Essex County, New York	0.000
Essex County, Vermont	0.000
Essex County, Virginia	0.000
Estill County, Kentucky	0.000
Etowah County, Alabama	0.000



Eureka County, Nevada	0.000
Evangeline Parish, Louisiana	0.000
Evans County, Georgia	0.000
Fairfax County, Virginia	0.000
Fairfax city, Virginia	0.000
Fairfield County, Connecticut	0.000
Fairfield County, Ohio	0.000
Fall River County, South Dakota	0.000
Fallon County, Montana	0.000
Falls Church city, Virginia	0.000
Fannin County, Georgia	0.000
Faribault County, Minnesota	0.000
Faulk County, South Dakota	0.000
Faulkner County, Arkansas	0.000
Fauquier County, Virginia	0.000
Fayette County, Alabama	0.000
Fayette County, Georgia	0.000
Fayette County, Indiana	0.000
Fayette County, Iowa	0.000
Fayette County, Kentucky	0.000
Fayette County, Ohio	0.000
Fayette County, Pennsylvania	0.000
Fayette County, Tennessee	0.000
Fayette County, West Virginia	0.000
Fentress County, Tennessee	0.000

Fergus County, Montana	0.000
Ferry County, Washington	0.000
Fillmore County, Minnesota	0.000
Fillmore County, Nebraska	0.000
Flagler County, Florida	0.000
Flathead County, Montana	0.000
Fleming County, Kentucky	0.000
Florence County, Wisconsin	0.000
Floyd County, Georgia	0.000
Floyd County, Indiana	0.000
Floyd County, Iowa	0.000
Floyd County, Kentucky	0.000
Floyd County, Virginia	0.000
Fluvanna County, Virginia	0.000
Fond du Lac County, Wisconsin	0.000
Forest County, Pennsylvania	0.000
Forest County, Wisconsin	0.000
Forrest County, Mississippi	0.000
Forsyth County, Georgia	0.000
Forsyth County, North Carolina	0.000
Foster County, North Dakota	0.013
Fountain County, Indiana	0.000
Franklin County, Alabama	0.000
Franklin County, Arkansas	0.000
Franklin County, Florida	0.000

Franklin County, Georgia	0.000
Franklin County, Indiana	0.000
Franklin County, Iowa	0.000
Franklin County, Kentucky	0.000
Franklin County, Maine	0.000
Franklin County, Massachusetts	0.000
Franklin County, Mississippi	0.000
Franklin County, Nebraska	0.000
Franklin County, New York	0.000
Franklin County, North Carolina	0.000
Franklin County, Ohio	0.000
Franklin County, Pennsylvania	0.000
Franklin County, Tennessee	0.000
Franklin County, Vermont	0.000
Franklin County, Virginia	0.000
Franklin County, Washington	0.000
Franklin Parish, Louisiana	0.000
Franklin city, Virginia	0.000
Frederick County, Maryland	0.000
Frederick County, Virginia	0.000
Fredericksburg city, Virginia	0.000
Freeborn County, Minnesota	0.000
Fremont County, Colorado	0.006
Fremont County, Iowa	0.000
Fremont County, Wyoming	0.000

Frontier County, Nebraska	0.000
Fulton County, Arkansas	0.000
Fulton County, Georgia	0.000
Fulton County, Indiana	0.000
Fulton County, Kentucky	0.000
Fulton County, New York	0.000
Fulton County, Ohio	0.000
Fulton County, Pennsylvania	0.000
Furnas County, Nebraska	0.000
Gadsden County, Florida	0.000
Gage County, Nebraska	0.000
Galax city, Virginia	0.018
Gallatin County, Kentucky	0.000
Gallatin County, Montana	0.000
Gallia County, Ohio	0.000
Garden County, Nebraska	0.000
Garfield County, Colorado	0.004
Garfield County, Montana	0.000
Garfield County, Nebraska	0.000
Garfield County, Oklahoma	0.001
Garfield County, Utah	0.000
Garfield County, Washington	0.000
Garland County, Arkansas	0.000
Garrard County, Kentucky	0.000
Garrett County, Maryland	0.000

Garvin County, Oklahoma	0.000
Gaston County, North Carolina	0.000
Gates County, North Carolina	0.000
Geauga County, Ohio	0.000
Genesee County, Michigan	0.000
Genesee County, New York	0.000
Geneva County, Alabama	0.000
George County, Mississippi	0.000
Gibson County, Indiana	0.000
Gibson County, Tennessee	0.000
Gilchrist County, Florida	0.000
Giles County, Tennessee	0.000
Giles County, Virginia	0.000
Gilmer County, Georgia	0.000
Gilmer County, West Virginia	0.000
Gilpin County, Colorado	0.000
Glacier County, Montana	0.000
Glades County, Florida	0.000
Gladwin County, Michigan	0.000
Glascock County, Georgia	0.000
Gloucester County, New Jersey	0.000
Gloucester County, Virginia	0.000
Glynn County, Georgia	0.000
Gogebic County, Michigan	0.000
Golden Valley County, Montana	0.000

Golden Valley County, North Dakota	0.000
Goochland County, Virginia	0.000
Goodhue County, Minnesota	0.000
Gordon County, Georgia	0.000
Goshen County, Wyoming	0.000
Gosper County, Nebraska	0.000
Grady County, Georgia	0.000
Grady County, Oklahoma	0.000
Grafton County, New Hampshire	0.000
Graham County, North Carolina	0.000
Grainger County, Tennessee	0.000
Grand County, Colorado	0.000
Grand County, Utah	0.000
Grand Forks County, North Dakota	0.000
Grand Isle County, Vermont	0.000
Grand Traverse County, Michigan	0.000
Granite County, Montana	0.000
Grant County, Arkansas	0.000
Grant County, Indiana	0.008
Grant County, Kentucky	0.000
Grant County, Minnesota	0.000
Grant County, Nebraska	0.000
Grant County, North Dakota	0.000
Grant County, Oklahoma	0.000
Grant County, South Dakota	0.000

Grant County, Washington	0.000
Grant County, West Virginia	0.000
Grant County, Wisconsin	0.000
Grant Parish, Louisiana	0.000
Granville County, North Carolina	0.000
Gratiot County, Michigan	0.000
Graves County, Kentucky	0.000
Grays Harbor County, Washington	0.000
Grayson County, Kentucky	0.000
Grayson County, Virginia	0.000
Greeley County, Nebraska	0.000
Green County, Kentucky	0.000
Green County, Wisconsin	0.000
Green Lake County, Wisconsin	0.000
Greenbrier County, West Virginia	0.000
Greene County, Alabama	0.000
Greene County, Arkansas	0.000
Greene County, Georgia	0.000
Greene County, Indiana	0.000
Greene County, Iowa	0.000
Greene County, Mississippi	0.000
Greene County, New York	0.000
Greene County, North Carolina	0.000
Greene County, Ohio	0.000
Greene County, Pennsylvania	0.000

Greene County, Tennessee	0.000
Greene County, Virginia	0.000
Greensville County, Virginia	0.000
Greenup County, Kentucky	0.000
Greer County, Oklahoma	0.015
Gregory County, South Dakota	0.000
Grenada County, Mississippi	0.000
Griggs County, North Dakota	0.000
Grundy County, Iowa	0.000
Grundy County, Tennessee	0.000
Guernsey County, Ohio	0.000
Guilford County, North Carolina	0.000
Gulf County, Florida	0.000
Gunnison County, Colorado	0.000
Guthrie County, Iowa	0.000
Gwinnett County, Georgia	0.000
Haakon County, South Dakota	0.000
Habersham County, Georgia	0.000
Hale County, Alabama	0.000
Halifax County, North Carolina	0.000
Halifax County, Virginia	0.000
Hall County, Georgia	0.051
Hall County, Nebraska	0.000
Hamblen County, Tennessee	0.000
Hamilton County, Florida	0.000



Hamilton County, Indiana	0.000
Hamilton County, Iowa	0.000
Hamilton County, Nebraska	0.000
Hamilton County, New York	0.000
Hamilton County, Ohio	0.000
Hamilton County, Tennessee	0.000
Hamlin County, South Dakota	0.000
Hampden County, Massachusetts	0.000
Hampshire County, Massachusetts	0.000
Hampshire County, West Virginia	0.000
Hampton city, Virginia	0.000
Hancock County, Georgia	0.000
Hancock County, Indiana	0.000
Hancock County, Iowa	0.000
Hancock County, Kentucky	0.000
Hancock County, Maine	0.000
Hancock County, Mississippi	0.000
Hancock County, Ohio	0.000
Hancock County, Tennessee	0.000
Hancock County, West Virginia	0.000
Hand County, South Dakota	0.000
Hanover County, Virginia	0.000
Hanson County, South Dakota	0.000
Haralson County, Georgia	0.000
Hardee County, Florida	0.000

Hardeman County, Tennessee	0.000
Hardin County, Iowa	0.000
Hardin County, Kentucky	0.000
Hardin County, Ohio	0.000
Hardin County, Tennessee	0.000
Harding County, South Dakota	0.000
Hardy County, West Virginia	0.000
Harford County, Maryland	0.000
Harlan County, Kentucky	0.000
Harlan County, Nebraska	0.000
Harmon County, Oklahoma	0.022
Harnett County, North Carolina	0.000
Harper County, Oklahoma	0.036
Harris County, Georgia	0.000
Harrison County, Indiana	0.000
Harrison County, Iowa	0.000
Harrison County, Kentucky	0.000
Harrison County, Mississippi	0.000
Harrison County, Ohio	0.000
Harrison County, West Virginia	0.000
Harrisonburg city, Virginia	0.000
Hart County, Georgia	0.000
Hart County, Kentucky	0.000
Hartford County, Connecticut	0.000
Haskell County, Oklahoma	0.000

Hawkins County, Tennessee	0.000
Hayes County, Nebraska	0.000
Haywood County, North Carolina	0.000
Haywood County, Tennessee	0.000
Heard County, Georgia	0.000
Hempstead County, Arkansas	0.000
Henderson County, Kentucky	0.000
Henderson County, North Carolina	0.001
Henderson County, Tennessee	0.000
Hendricks County, Indiana	0.000
Hendry County, Florida	0.000
Hennepin County, Minnesota	0.000
Henrico County, Virginia	0.000
Henry County, Alabama	0.000
Henry County, Georgia	0.000
Henry County, Indiana	0.000
Henry County, Iowa	0.000
Henry County, Kentucky	0.000
Henry County, Ohio	0.000
Henry County, Tennessee	0.000
Henry County, Virginia	0.000
Herkimer County, New York	0.000
Hernando County, Florida	0.000
Hertford County, North Carolina	0.000
Hettinger County, North Dakota	0.000

Hickman County, Kentucky	0.000
Hickman County, Tennessee	0.000
Highland County, Ohio	0.000
Highland County, Virginia	0.000
Highlands County, Florida	0.000
Hill County, Montana	0.000
Hillsborough County, Florida	0.000
Hillsborough County, New Hampshire	0.000
Hillsdale County, Michigan	0.000
Hinds County, Mississippi	0.000
Hinsdale County, Colorado	0.000
Hitchcock County, Nebraska	0.000
Hocking County, Ohio	0.000
Hoke County, North Carolina	0.000
Holmes County, Florida	0.000
Holmes County, Mississippi	0.000
Holmes County, Ohio	0.000
Holt County, Nebraska	0.000
Hooker County, Nebraska	0.000
Hopewell city, Virginia	0.000
Hopkins County, Kentucky	0.000
Hot Spring County, Arkansas	0.000
Hot Springs County, Wyoming	0.000
Houghton County, Michigan	0.000
Houston County, Alabama	0.000

Houston County, Georgia	0.000
Houston County, Minnesota	0.000
Houston County, Tennessee	0.000
Howard County, Arkansas	0.000
Howard County, Indiana	0.000
Howard County, Iowa	0.000
Howard County, Maryland	0.000
Howard County, Nebraska	0.000
Hubbard County, Minnesota	0.000
Hudson County, New Jersey	0.000
Huerfano County, Colorado	0.000
Hughes County, Oklahoma	0.000
Hughes County, South Dakota	0.000
Humboldt County, Iowa	0.000
Humboldt County, Nevada	0.000
Humphreys County, Mississippi	0.000
Humphreys County, Tennessee	0.000
Hunterdon County, New Jersey	0.000
Huntingdon County, Pennsylvania	0.000
Huntington County, Indiana	0.000
Huron County, Michigan	0.000
Huron County, Ohio	0.000
Hutchinson County, South Dakota	0.000
Hyde County, North Carolina	0.000
Hyde County, South Dakota	0.000

Iberia Parish, Louisiana	0.000
Iberville Parish, Louisiana	0.000
Ida County, Iowa	0.000
Independence County, Arkansas	0.000
Indian River County, Florida	0.000
Indiana County, Pennsylvania	0.000
Ingham County, Michigan	0.000
Ionia County, Michigan	0.000
Iosco County, Michigan	0.000
Iowa County, Iowa	0.000
Iowa County, Wisconsin	0.000
Iredell County, North Carolina	0.000
Iron County, Michigan	0.000
Iron County, Utah	0.000
Iron County, Wisconsin	0.000
Irwin County, Georgia	0.000
Isabella County, Michigan	0.000
Isanti County, Minnesota	0.000
Island County, Washington	0.009
Isle of Wight County, Virginia	0.000
Issaquena County, Mississippi	0.000
Itasca County, Minnesota	0.000
Itawamba County, Mississippi	0.000
Izard County, Arkansas	0.007
Jackson County, Alabama	0.000

Jackson County, Arkansas	0.000
Jackson County, Colorado	0.000
Jackson County, Florida	0.000
Jackson County, Georgia	0.000
Jackson County, Indiana	0.000
Jackson County, Iowa	0.000
Jackson County, Kentucky	0.000
Jackson County, Michigan	0.000
Jackson County, Minnesota	0.000
Jackson County, Mississippi	0.000
Jackson County, North Carolina	0.000
Jackson County, Ohio	0.000
Jackson County, Oklahoma	0.000
Jackson County, South Dakota	0.000
Jackson County, Tennessee	0.000
Jackson County, West Virginia	0.000
Jackson County, Wisconsin	0.000
Jackson Parish, Louisiana	0.000
James City County, Virginia	0.000
Jasper County, Georgia	0.000
Jasper County, Indiana	0.000
Jasper County, Iowa	0.000
Jasper County, Mississippi	0.000
Jay County, Indiana	0.000
Jeff Davis County, Georgia	0.000

Jefferson County, Alabama	0.000
Jefferson County, Arkansas	0.000
Jefferson County, Colorado	0.000
Jefferson County, Florida	0.000
Jefferson County, Georgia	0.000
Jefferson County, Indiana	0.000
Jefferson County, Iowa	0.000
Jefferson County, Kentucky	0.000
Jefferson County, Mississippi	0.000
Jefferson County, Montana	0.000
Jefferson County, Nebraska	0.000
Jefferson County, New York	0.000
Jefferson County, Ohio	0.000
Jefferson County, Oklahoma	0.000
Jefferson County, Pennsylvania	0.000
Jefferson County, Tennessee	0.000
Jefferson County, Washington	0.000
Jefferson County, West Virginia	0.000
Jefferson County, Wisconsin	0.000
Jefferson Davis County, Mississippi	0.000
Jefferson Davis Parish, Louisiana	0.000
Jefferson Parish, Louisiana	0.000
Jenkins County, Georgia	0.000
Jennings County, Indiana	0.000
Jerauld County, South Dakota	0.000



Jessamine County, Kentucky	0.000
Johnson County, Arkansas	0.000
Johnson County, Georgia	0.000
Johnson County, Indiana	0.000
Johnson County, Iowa	0.000
Johnson County, Kentucky	0.000
Johnson County, Nebraska	0.000
Johnson County, Tennessee	0.000
Johnson County, Wyoming	0.000
Johnston County, North Carolina	0.000
Johnston County, Oklahoma	0.000
Jones County, Georgia	0.000
Jones County, Iowa	0.000
Jones County, Mississippi	0.000
Jones County, North Carolina	0.000
Jones County, South Dakota	0.000
Juab County, Utah	0.000
Judith Basin County, Montana	0.000
Juneau County, Wisconsin	0.000
Juniata County, Pennsylvania	0.000
Kalamazoo County, Michigan	0.000
Kalkaska County, Michigan	0.000
Kanabec County, Minnesota	0.000
Kanawha County, West Virginia	0.000
Kandiyohi County, Minnesota	0.000

Kane County, Utah	0.000
Kay County, Oklahoma	0.000
Kearney County, Nebraska	0.000
Keith County, Nebraska	0.000
Kemper County, Mississippi	0.000
Kennebec County, Maine	0.000
Kenosha County, Wisconsin	0.000
Kent County, Delaware	0.000
Kent County, Maryland	0.000
Kent County, Michigan	0.000
Kent County, Rhode Island	0.000
Kenton County, Kentucky	0.000
Keokuk County, Iowa	0.000
Kewaunee County, Wisconsin	0.000
Keweenaw County, Michigan	0.000
Keya Paha County, Nebraska	0.000
Kidder County, North Dakota	0.000
Kimball County, Nebraska	0.000
King County, Washington	0.000
King George County, Virginia	0.000
King William County, Virginia	0.000
King and Queen County, Virginia	0.000
Kingfisher County, Oklahoma	0.000
Kings County, New York	0.000
Kingsbury County, South Dakota	0.000

Kiowa County, Colorado	0.000
Kiowa County, Oklahoma	0.000
Kit Carson County, Colorado	0.000
Kitsap County, Washington	0.000
Kittitas County, Washington	0.000
Kittson County, Minnesota	0.000
Klickitat County, Washington	0.000
Knott County, Kentucky	0.000
Knox County, Indiana	0.000
Knox County, Kentucky	0.000
Knox County, Maine	0.000
Knox County, Nebraska	0.000
Knox County, Ohio	0.000
Knox County, Tennessee	0.000
Koochiching County, Minnesota	0.000
Kosciusko County, Indiana	0.000
Kossuth County, Iowa	0.000
La Crosse County, Wisconsin	0.000
La Plata County, Colorado	0.000
LaGrange County, Indiana	0.000
LaMoure County, North Dakota	0.000
LaPorte County, Indiana	0.000
LaSalle Parish, Louisiana	0.000
Lac qui Parle County, Minnesota	0.000
Lackawanna County, Pennsylvania	0.000

Lafayette County, Arkansas	0.000
Lafayette County, Florida	0.000
Lafayette County, Mississippi	0.000
Lafayette County, Wisconsin	0.000
Lafayette Parish, Louisiana	0.000
Lafourche Parish, Louisiana	0.000
Lake County, Colorado	0.000
Lake County, Florida	0.000
Lake County, Indiana	0.000
Lake County, Michigan	0.000
Lake County, Minnesota	0.000
Lake County, Montana	0.000
Lake County, Ohio	0.000
Lake County, South Dakota	0.000
Lake County, Tennessee	0.000
Lake of the Woods County, Minnesota	0.000
Lamar County, Alabama	0.000
Lamar County, Georgia	0.000
Lamar County, Mississippi	0.000
Lamoille County, Vermont	0.000
Lancaster County, Nebraska	0.000
Lancaster County, Pennsylvania	0.000
Lancaster County, Virginia	0.000
Lander County, Nevada	0.000
Langlade County, Wisconsin	0.000

Lanier County, Georgia	0.000
Lapeer County, Michigan	0.000
Laramie County, Wyoming	0.000
Larimer County, Colorado	0.000
Larue County, Kentucky	0.000
Las Animas County, Colorado	0.000
Latimer County, Oklahoma	0.000
Lauderdale County, Alabama	0.000
Lauderdale County, Mississippi	0.000
Lauderdale County, Tennessee	0.000
Laurel County, Kentucky	0.000
Laurens County, Georgia	0.000
Lawrence County, Alabama	0.000
Lawrence County, Arkansas	0.000
Lawrence County, Indiana	0.000
Lawrence County, Kentucky	0.000
Lawrence County, Mississippi	0.000
Lawrence County, Ohio	0.000
Lawrence County, Pennsylvania	0.000
Lawrence County, South Dakota	0.000
Lawrence County, Tennessee	0.000
Le Flore County, Oklahoma	0.000
Le Sueur County, Minnesota	0.000
Leake County, Mississippi	0.000
Lebanon County, Pennsylvania	0.000

Lee County, Alabama	0.000
Lee County, Arkansas	0.000
Lee County, Florida	0.000
Lee County, Georgia	0.000
Lee County, Iowa	0.000
Lee County, Kentucky	0.000
Lee County, Mississippi	0.000
Lee County, North Carolina	0.000
Lee County, Virginia	0.000
Leelanau County, Michigan	0.000
Leflore County, Mississippi	0.000
Lehigh County, Pennsylvania	0.000
Lenawee County, Michigan	0.000
Lenoir County, North Carolina	0.000
Leon County, Florida	0.000
Leslie County, Kentucky	0.000
Letcher County, Kentucky	0.000
Levy County, Florida	0.000
Lewis County, Kentucky	0.000
Lewis County, New York	0.000
Lewis County, Tennessee	0.000
Lewis County, Washington	0.000
Lewis County, West Virginia	0.000
Lewis and Clark County, Montana	0.000
Lexington city, Virginia	0.000

Liberty County, Florida	0.000
Liberty County, Georgia	0.000
Liberty County, Montana	0.000
Licking County, Ohio	0.000
Limestone County, Alabama	0.001
Lincoln County, Arkansas	0.000
Lincoln County, Colorado	0.000
Lincoln County, Georgia	0.000
Lincoln County, Kentucky	0.000
Lincoln County, Maine	0.000
Lincoln County, Minnesota	0.000
Lincoln County, Mississippi	0.000
Lincoln County, Montana	0.000
Lincoln County, Nebraska	0.000
Lincoln County, Nevada	0.000
Lincoln County, North Carolina	0.000
Lincoln County, Oklahoma	0.000
Lincoln County, South Dakota	0.000
Lincoln County, Tennessee	0.000
Lincoln County, Washington	0.000
Lincoln County, West Virginia	0.000
Lincoln County, Wisconsin	0.000
Lincoln County, Wyoming	0.000
Lincoln Parish, Louisiana	0.000
Linn County, Iowa	0.000

Litchfield County, Connecticut	0.000
Little River County, Arkansas	0.000
Livingston County, Kentucky	0.000
Livingston County, Michigan	0.000
Livingston County, New York	0.000
Livingston Parish, Louisiana	0.000
Logan County, Arkansas	0.000
Logan County, Colorado	0.000
Logan County, Kentucky	0.000
Logan County, Nebraska	0.000
Logan County, North Dakota	0.000
Logan County, Ohio	0.000
Logan County, Oklahoma	0.000
Logan County, West Virginia	0.000
Long County, Georgia	0.000
Lonoke County, Arkansas	0.000
Lorain County, Ohio	0.000
Loudon County, Tennessee	0.000
Loudoun County, Virginia	0.000
Louisa County, Iowa	0.000
Louisa County, Virginia	0.000
Loup County, Nebraska	0.000
Love County, Oklahoma	0.000
Lowndes County, Alabama	0.000
Lowndes County, Georgia	0.000



Lowndes County, Mississippi	0.000
Lucas County, Iowa	0.000
Lucas County, Ohio	0.000
Luce County, Michigan	0.000
Lumpkin County, Georgia	0.000
Lunenburg County, Virginia	0.000
Luzerne County, Pennsylvania	0.000
Lycoming County, Pennsylvania	0.000
Lyman County, South Dakota	0.000
Lynchburg city, Virginia	0.000
Lyon County, Iowa	0.000
Lyon County, Kentucky	0.000
Lyon County, Minnesota	0.000
Lyon County, Nevada	0.013
Mackinac County, Michigan	0.000
Macomb County, Michigan	0.000
Macon County, Alabama	0.000
Macon County, Georgia	0.000
Macon County, North Carolina	0.000
Macon County, Tennessee	0.000
Madison County, Alabama	0.000
Madison County, Arkansas	0.000
Madison County, Florida	0.000
Madison County, Georgia	0.000
Madison County, Indiana	0.000

Madison County, Iowa	0.000
Madison County, Kentucky	0.000
Madison County, Mississippi	0.000
Madison County, Montana	0.000
Madison County, Nebraska	0.000
Madison County, New York	0.000
Madison County, North Carolina	0.000
Madison County, Ohio	0.000
Madison County, Tennessee	0.000
Madison County, Virginia	0.000
Madison Parish, Louisiana	0.000
Magoffin County, Kentucky	0.000
Mahaska County, Iowa	0.000
Mahnomen County, Minnesota	0.000
Mahoning County, Ohio	0.000
Major County, Oklahoma	0.008
Manassas Park city, Virginia	0.000
Manassas city, Virginia	0.000
Manatee County, Florida	0.000
Manistee County, Michigan	0.000
Manitowoc County, Wisconsin	0.000
Marathon County, Wisconsin	0.000
Marengo County, Alabama	0.000
Marinette County, Wisconsin	0.000
Marion County, Alabama	0.000

Marion County, Arkansas	0.000
Marion County, Florida	0.000
Marion County, Georgia	0.000
Marion County, Indiana	0.000
Marion County, Iowa	0.000
Marion County, Kentucky	0.000
Marion County, Mississippi	0.000
Marion County, Ohio	0.000
Marion County, Tennessee	0.000
Marion County, West Virginia	0.000
Marquette County, Michigan	0.000
Marquette County, Wisconsin	0.000
Marshall County, Alabama	0.000
Marshall County, Indiana	0.000
Marshall County, Iowa	0.000
Marshall County, Kentucky	0.000
Marshall County, Minnesota	0.000
Marshall County, Mississippi	0.000
Marshall County, Oklahoma	0.000
Marshall County, South Dakota	0.000
Marshall County, Tennessee	0.000
Marshall County, West Virginia	0.000
Martin County, Florida	0.000
Martin County, Indiana	0.000
Martin County, Kentucky	0.000

Martin County, Minnesota	0.000
Martin County, North Carolina	0.000
Martinsville city, Virginia	0.000
Mason County, Kentucky	0.000
Mason County, Michigan	0.000
Mason County, Washington	0.000
Mason County, West Virginia	0.000
Mathews County, Virginia	0.000
Maury County, Tennessee	0.000
Mayes County, Oklahoma	0.000
McClain County, Oklahoma	0.028
McCone County, Montana	0.000
McCook County, South Dakota	0.000
McCracken County, Kentucky	0.000
McCreary County, Kentucky	0.000
McCurtain County, Oklahoma	0.000
McDowell County, North Carolina	0.000
McDowell County, West Virginia	0.000
McDuffie County, Georgia	0.000
McHenry County, North Dakota	0.000
McIntosh County, Georgia	0.000
McIntosh County, North Dakota	0.000
McIntosh County, Oklahoma	0.000
McKean County, Pennsylvania	0.000
McKenzie County, North Dakota	0.000

McLean County, Kentucky	0.000
McLean County, North Dakota	0.000
McLeod County, Minnesota	0.000
McMinn County, Tennessee	0.000
McNairy County, Tennessee	0.000
McPherson County, Nebraska	0.000
McPherson County, South Dakota	0.000
Meade County, Kentucky	0.000
Meade County, South Dakota	0.000
Meagher County, Montana	0.000
Mecklenburg County, North Carolina	0.000
Mecklenburg County, Virginia	0.000
Mecosta County, Michigan	0.000
Medina County, Ohio	0.000
Meeker County, Minnesota	0.000
Meigs County, Ohio	0.000
Meigs County, Tennessee	0.000
Mellette County, South Dakota	0.000
Menifee County, Kentucky	0.000
Menominee County, Michigan	0.000
Menominee County, Wisconsin	0.000
Mercer County, Kentucky	0.000
Mercer County, New Jersey	0.000
Mercer County, North Dakota	0.000
Mercer County, Ohio	0.000

Mercer County, Pennsylvania	0.000
Mercer County, West Virginia	0.000
Meriwether County, Georgia	0.000
Merrick County, Nebraska	0.000
Merrimack County, New Hampshire	0.000
Mesa County, Colorado	0.000
Metcalf County, Kentucky	0.000
Miami County, Indiana	0.000
Miami County, Ohio	0.000
Miami-Dade County, Florida	0.000
Middlesex County, Connecticut	0.000
Middlesex County, Massachusetts	0.000
Middlesex County, New Jersey	0.004
Middlesex County, Virginia	0.020
Midland County, Michigan	0.000
Mifflin County, Pennsylvania	0.000
Millard County, Utah	0.000
Mille Lacs County, Minnesota	0.000
Miller County, Arkansas	0.000
Miller County, Georgia	0.000
Mills County, Iowa	0.000
Milwaukee County, Wisconsin	0.000
Miner County, South Dakota	0.000
Mineral County, Colorado	0.000
Mineral County, Montana	0.000

Mineral County, Nevada	0.000
Mineral County, West Virginia	0.000
Mingo County, West Virginia	0.000
Minnehaha County, South Dakota	0.000
Missaukee County, Michigan	0.000
Mississippi County, Arkansas	0.000
Missoula County, Montana	0.000
Mitchell County, Georgia	0.000
Mitchell County, Iowa	0.000
Mitchell County, North Carolina	0.000
Mobile County, Alabama	0.000
Moffat County, Colorado	0.000
Monmouth County, New Jersey	0.000
Monona County, Iowa	0.000
Monongalia County, West Virginia	0.002
Monroe County, Alabama	0.000
Monroe County, Arkansas	0.000
Monroe County, Florida	0.000
Monroe County, Georgia	0.000
Monroe County, Indiana	0.000
Monroe County, Iowa	0.000
Monroe County, Kentucky	0.000
Monroe County, Michigan	0.000
Monroe County, Mississippi	0.000
Monroe County, New York	0.000

Monroe County, Ohio	0.000
Monroe County, Pennsylvania	0.000
Monroe County, Tennessee	0.000
Monroe County, West Virginia	0.000
Monroe County, Wisconsin	0.000
Montcalm County, Michigan	0.000
Montezuma County, Colorado	0.000
Montgomery County, Alabama	0.000
Montgomery County, Arkansas	0.000
Montgomery County, Georgia	0.000
Montgomery County, Indiana	0.000
Montgomery County, Iowa	0.000
Montgomery County, Kentucky	0.000
Montgomery County, Maryland	0.000
Montgomery County, Mississippi	0.000
Montgomery County, New York	0.000
Montgomery County, North Carolina	0.001
Montgomery County, Ohio	0.000
Montgomery County, Pennsylvania	0.000
Montgomery County, Tennessee	0.000
Montgomery County, Virginia	0.000
Montmorency County, Michigan	0.000
Montour County, Pennsylvania	0.000
Montrose County, Colorado	0.000
Moody County, South Dakota	0.000



Moore County, North Carolina	0.000
Moore County, Tennessee	0.000
Morehouse Parish, Louisiana	0.000
Morgan County, Alabama	0.000
Morgan County, Colorado	0.084
Morgan County, Georgia	0.000
Morgan County, Indiana	0.000
Morgan County, Kentucky	0.000
Morgan County, Ohio	0.000
Morgan County, Tennessee	0.000
Morgan County, Utah	0.000
Morgan County, West Virginia	0.000
Morrill County, Nebraska	0.000
Morris County, New Jersey	0.000
Morrison County, Minnesota	0.000
Morrow County, Ohio	0.000
Morton County, North Dakota	0.000
Mountrail County, North Dakota	0.000
Mower County, Minnesota	0.000
Muhlenberg County, Kentucky	0.000
Murray County, Georgia	0.000
Murray County, Minnesota	0.000
Murray County, Oklahoma	0.000
Muscatine County, Iowa	0.000
Muscogee County, Georgia	0.000

Muskegon County, Michigan	0.000
Muskingum County, Ohio	0.000
Muskogee County, Oklahoma	0.000
Musselshell County, Montana	0.000
Nance County, Nebraska	0.000
Nantucket County, Massachusetts	0.000
Nash County, North Carolina	0.000
Nassau County, Florida	0.000
Nassau County, New York	0.000
Natchitoches Parish, Louisiana	0.000
Natrona County, Wyoming	0.000
Nelson County, Kentucky	0.000
Nelson County, North Dakota	0.000
Nelson County, Virginia	0.000
Nemaha County, Nebraska	0.000
Neshoba County, Mississippi	0.000
Nevada County, Arkansas	0.000
New Castle County, Delaware	0.000
New Hanover County, North Carolina	0.000
New Haven County, Connecticut	0.000
New Kent County, Virginia	0.000
New London County, Connecticut	0.000
New York County, New York	0.000
Newaygo County, Michigan	0.000
Newport County, Rhode Island	0.000

Newport News city, Virginia	0.000
Newton County, Arkansas	0.000
Newton County, Georgia	0.000
Newton County, Indiana	0.037
Newton County, Mississippi	0.000
Niagara County, New York	0.000
Nicholas County, Kentucky	0.000
Nicholas County, West Virginia	0.000
Nicollet County, Minnesota	0.000
Niobrara County, Wyoming	0.000
Noble County, Indiana	0.000
Noble County, Ohio	0.000
Noble County, Oklahoma	0.000
Nobles County, Minnesota	0.000
Norfolk County, Massachusetts	0.000
Norfolk city, Virginia	0.000
Norman County, Minnesota	0.000
Northampton County, North Carolina	0.000
Northampton County, Pennsylvania	0.000
Northampton County, Virginia	0.000
Northumberland County, Pennsylvania	0.000
Northumberland County, Virginia	0.017
Norton city, Virginia	0.000
Nottoway County, Virginia	0.000
Nowata County, Oklahoma	0.000

Noxubee County, Mississippi	0.000
Nuckolls County, Nebraska	0.000
Nye County, Nevada	0.000
O'Brien County, Iowa	0.000
Oakland County, Michigan	0.000
Obion County, Tennessee	0.000
Ocean County, New Jersey	0.000
Oceana County, Michigan	0.000
Oconee County, Georgia	0.000
Oconto County, Wisconsin	0.000
Ogemaw County, Michigan	0.000
Oglethorpe County, Georgia	0.001
Ohio County, Indiana	0.000
Ohio County, Kentucky	0.000
Ohio County, West Virginia	0.000
Okaloosa County, Florida	0.000
Okanogan County, Washington	0.000
Okeechobee County, Florida	0.000
Okfuskee County, Oklahoma	0.000
Oklahoma County, Oklahoma	0.000
Okmulgee County, Oklahoma	0.000
Oktibbeha County, Mississippi	0.000
Oldham County, Kentucky	0.000
Oliver County, North Dakota	0.000
Olmsted County, Minnesota	0.000

Oneida County, New York	0.000
Oneida County, Wisconsin	0.000
Onondaga County, New York	0.000
Onslow County, North Carolina	0.000
Ontario County, New York	0.000
Ontonagon County, Michigan	0.000
Orange County, Florida	0.000
Orange County, Indiana	0.000
Orange County, New York	0.000
Orange County, North Carolina	0.000
Orange County, Vermont	0.000
Orange County, Virginia	0.000
Orleans County, New York	0.000
Orleans County, Vermont	0.000
Orleans Parish, Louisiana	0.000
Osage County, Oklahoma	0.000
Osceola County, Florida	0.000
Osceola County, Iowa	0.000
Osceola County, Michigan	0.000
Oscoda County, Michigan	0.000
Oswego County, New York	0.000
Otero County, Colorado	0.073
Otoe County, Nebraska	0.000
Otsego County, Michigan	0.000
Otsego County, New York	0.000

Ottawa County, Michigan	0.000
Ottawa County, Ohio	0.000
Ottawa County, Oklahoma	0.000
Otter Tail County, Minnesota	0.000
Ouachita County, Arkansas	0.000
Ouachita Parish, Louisiana	0.000
Ouray County, Colorado	0.000
Outagamie County, Wisconsin	0.000
Overton County, Tennessee	0.000
Owen County, Indiana	0.000
Owen County, Kentucky	0.000
Owsley County, Kentucky	0.000
Oxford County, Maine	0.000
Ozaukee County, Wisconsin	0.000
Pacific County, Washington	0.000
Page County, Iowa	0.000
Page County, Virginia	0.000
Palm Beach County, Florida	0.000
Palo Alto County, Iowa	0.000
Pamlico County, North Carolina	0.000
Panola County, Mississippi	0.000
Park County, Colorado	0.000
Park County, Montana	0.000
Park County, Wyoming	0.000
Parke County, Indiana	0.000

Pasco County, Florida	0.000
Pasquotank County, North Carolina	0.000
Passaic County, New Jersey	0.000
Patrick County, Virginia	0.000
Paulding County, Georgia	0.000
Paulding County, Ohio	0.000
Pawnee County, Nebraska	0.000
Pawnee County, Oklahoma	0.000
Payne County, Oklahoma	0.000
Peach County, Georgia	0.000
Pearl River County, Mississippi	0.000
Pembina County, North Dakota	0.000
Pend Oreille County, Washington	0.000
Pender County, North Carolina	0.001
Pendleton County, Kentucky	0.000
Pendleton County, West Virginia	0.000
Pennington County, Minnesota	0.000
Pennington County, South Dakota	0.000
Penobscot County, Maine	0.000
Pepin County, Wisconsin	0.000
Perkins County, Nebraska	0.000
Perkins County, South Dakota	0.000
Perquimans County, North Carolina	0.000
Perry County, Alabama	0.000
Perry County, Arkansas	0.000

Perry County, Indiana	0.000
Perry County, Kentucky	0.000
Perry County, Mississippi	0.000
Perry County, Ohio	0.000
Perry County, Pennsylvania	0.000
Perry County, Tennessee	0.000
Pershing County, Nevada	0.000
Person County, North Carolina	0.000
Petersburg city, Virginia	0.000
Petroleum County, Montana	0.000
Phelps County, Nebraska	0.000
Philadelphia County, Pennsylvania	0.000
Phillips County, Arkansas	0.000
Phillips County, Colorado	0.003
Phillips County, Montana	0.000
Pickaway County, Ohio	0.000
Pickens County, Alabama	0.000
Pickens County, Georgia	0.000
Pickett County, Tennessee	0.000
Pierce County, Georgia	0.000
Pierce County, Nebraska	0.000
Pierce County, North Dakota	0.000
Pierce County, Washington	0.000
Pierce County, Wisconsin	0.000
Pike County, Alabama	0.000



Pike County, Arkansas	0.000
Pike County, Georgia	0.000
Pike County, Indiana	0.000
Pike County, Kentucky	0.000
Pike County, Mississippi	0.000
Pike County, Ohio	0.000
Pike County, Pennsylvania	0.000
Pine County, Minnesota	0.000
Pinellas County, Florida	0.000
Pipestone County, Minnesota	0.000
Piscataquis County, Maine	0.000
Pitkin County, Colorado	0.000
Pitt County, North Carolina	0.000
Pittsburg County, Oklahoma	0.000
Pittsylvania County, Virginia	0.000
Piute County, Utah	0.000
Plaquemines Parish, Louisiana	0.000
Platte County, Nebraska	0.000
Platte County, Wyoming	0.000
Pleasants County, West Virginia	0.023
Plymouth County, Iowa	0.000
Plymouth County, Massachusetts	0.000
Pocahontas County, Iowa	0.000
Pocahontas County, West Virginia	0.000
Poinsett County, Arkansas	0.000

Pointe Coupee Parish, Louisiana	0.000
Polk County, Arkansas	0.000
Polk County, Florida	0.000
Polk County, Georgia	0.000
Polk County, Iowa	0.000
Polk County, Minnesota	0.000
Polk County, Nebraska	0.000
Polk County, North Carolina	0.000
Polk County, Tennessee	0.000
Polk County, Wisconsin	0.000
Pondera County, Montana	0.000
Pontotoc County, Mississippi	0.000
Pontotoc County, Oklahoma	0.000
Pope County, Arkansas	0.000
Pope County, Minnesota	0.000
Poquoson city, Virginia	0.000
Portage County, Ohio	0.000
Portage County, Wisconsin	0.000
Porter County, Indiana	0.000
Portsmouth city, Virginia	0.000
Posey County, Indiana	0.000
Pottawatomie County, Oklahoma	0.000
Pottawattamie County, Iowa	0.000
Potter County, Pennsylvania	0.000
Potter County, South Dakota	0.000

Powder River County, Montana	0.000
Powell County, Kentucky	0.000
Powell County, Montana	0.000
Poweshiek County, Iowa	0.000
Powhatan County, Virginia	0.000
Prairie County, Arkansas	0.000
Prairie County, Montana	0.000
Preble County, Ohio	0.000
Prentiss County, Mississippi	0.000
Presque Isle County, Michigan	0.000
Preston County, West Virginia	0.000
Price County, Wisconsin	0.000
Prince Edward County, Virginia	0.001
Prince George County, Virginia	0.000
Prince George's County, Maryland	0.000
Prince William County, Virginia	0.000
Providence County, Rhode Island	0.000
Prowers County, Colorado	0.021
Pueblo County, Colorado	0.012
Pulaski County, Arkansas	0.000
Pulaski County, Georgia	0.000
Pulaski County, Indiana	0.000
Pulaski County, Kentucky	0.000
Pulaski County, Virginia	0.000
Pushmataha County, Oklahoma	0.000

Putnam County, Florida	0.000
Putnam County, Georgia	0.001
Putnam County, Indiana	0.001
Putnam County, New York	0.000
Putnam County, Ohio	0.000
Putnam County, Tennessee	0.000
Putnam County, West Virginia	0.000
Queen Anne's County, Maryland	0.000
Queens County, New York	0.000
Quitman County, Georgia	0.000
Quitman County, Mississippi	0.000
Rabun County, Georgia	0.000
Racine County, Wisconsin	0.000
Radford city, Virginia	0.000
Raleigh County, West Virginia	0.000
Ramsey County, Minnesota	0.000
Ramsey County, North Dakota	0.000
Randolph County, Alabama	0.000
Randolph County, Arkansas	0.000
Randolph County, Georgia	0.000
Randolph County, Indiana	0.000
Randolph County, North Carolina	0.000
Randolph County, West Virginia	0.000
Rankin County, Mississippi	0.000
Ransom County, North Dakota	0.000

Rapides Parish, Louisiana	0.000
Rappahannock County, Virginia	0.001
Ravalli County, Montana	0.000
Red Lake County, Minnesota	0.000
Red River Parish, Louisiana	0.000
Red Willow County, Nebraska	0.000
Redwood County, Minnesota	0.000
Rensselaer County, New York	0.000
Renville County, Minnesota	0.000
Renville County, North Dakota	0.000
Rhea County, Tennessee	0.000
Rice County, Minnesota	0.000
Rich County, Utah	0.000
Richardson County, Nebraska	0.000
Richland County, Montana	0.000
Richland County, North Dakota	0.000
Richland County, Ohio	0.000
Richland County, Wisconsin	0.000
Richland Parish, Louisiana	0.000
Richmond County, Georgia	0.000
Richmond County, New York	0.000
Richmond County, North Carolina	0.000
Richmond County, Virginia	0.000
Richmond city, Virginia	0.000
Ringgold County, Iowa	0.000

Rio Blanco County, Colorado	0.000
Rio Grande County, Colorado	0.000
Ripley County, Indiana	0.000
Ritchie County, West Virginia	0.000
Roane County, Tennessee	0.001
Roane County, West Virginia	0.000
Roanoke County, Virginia	0.000
Roanoke city, Virginia	0.000
Roberts County, South Dakota	0.000
Robertson County, Kentucky	0.000
Robertson County, Tennessee	0.000
Robeson County, North Carolina	0.000
Rock County, Minnesota	0.000
Rock County, Nebraska	0.000
Rock County, Wisconsin	0.000
Rockbridge County, Virginia	0.000
Rockcastle County, Kentucky	0.000
Rockdale County, Georgia	0.000
Rockingham County, New Hampshire	0.000
Rockingham County, North Carolina	0.000
Rockingham County, Virginia	0.000
Rockland County, New York	0.000
Roger Mills County, Oklahoma	0.000
Rogers County, Oklahoma	0.000
Rolette County, North Dakota	0.000

Roosevelt County, Montana	0.000
Roscommon County, Michigan	0.000
Roseau County, Minnesota	0.000
Rosebud County, Montana	0.000
Ross County, Ohio	0.000
Routt County, Colorado	0.000
Rowan County, Kentucky	0.000
Rowan County, North Carolina	0.000
Rush County, Indiana	0.000
Rusk County, Wisconsin	0.000
Russell County, Alabama	0.000
Russell County, Kentucky	0.000
Russell County, Virginia	0.000
Rutherford County, North Carolina	0.000
Rutherford County, Tennessee	0.000
Rutland County, Vermont	0.000
Sabine Parish, Louisiana	0.000
Sac County, Iowa	0.000
Sagadahoc County, Maine	0.000
Saginaw County, Michigan	0.000
Saguache County, Colorado	0.000
Salem County, New Jersey	0.000
Salem city, Virginia	0.000
Saline County, Arkansas	0.000
Saline County, Nebraska	0.000

Salt Lake County, Utah	0.000
Sampson County, North Carolina	0.000
San Juan County, Colorado	0.000
San Juan County, Utah	0.000
San Juan County, Washington	0.000
San Miguel County, Colorado	0.000
Sanborn County, South Dakota	0.000
Sanders County, Montana	0.000
Sandusky County, Ohio	0.000
Sanilac County, Michigan	0.000
Sanpete County, Utah	0.013
Santa Rosa County, Florida	0.000
Sarasota County, Florida	0.000
Saratoga County, New York	0.000
Sargent County, North Dakota	0.000
Sarpy County, Nebraska	0.000
Sauk County, Wisconsin	0.000
Saunders County, Nebraska	0.000
Sawyer County, Wisconsin	0.000
Schenectady County, New York	0.000
Schley County, Georgia	0.000
Schoharie County, New York	0.000
Schoolcraft County, Michigan	0.000
Schuyler County, New York	0.000
Schuylkill County, Pennsylvania	0.000



Scioto County, Ohio	0.000
Scotland County, North Carolina	0.000
Scott County, Arkansas	0.000
Scott County, Indiana	0.000
Scott County, Iowa	0.000
Scott County, Kentucky	0.000
Scott County, Minnesota	0.000
Scott County, Mississippi	0.000
Scott County, Tennessee	0.000
Scott County, Virginia	0.000
Scotts Bluff County, Nebraska	0.022
Screven County, Georgia	0.000
Searcy County, Arkansas	0.021
Sebastian County, Arkansas	0.000
Sedgwick County, Colorado	0.003
Seminole County, Florida	0.000
Seminole County, Georgia	0.019
Seminole County, Oklahoma	0.000
Seneca County, New York	0.000
Seneca County, Ohio	0.000
Sequatchie County, Tennessee	0.000
Sequoyah County, Oklahoma	0.000
Sevier County, Arkansas	0.000
Sevier County, Tennessee	0.000
Sevier County, Utah	0.000

Seward County, Nebraska	0.000
Sharkey County, Mississippi	0.000
Sharp County, Arkansas	0.000
Shawano County, Wisconsin	0.000
Sheboygan County, Wisconsin	0.000
Shelby County, Alabama	0.000
Shelby County, Indiana	0.000
Shelby County, Iowa	0.000
Shelby County, Kentucky	0.000
Shelby County, Ohio	0.000
Shelby County, Tennessee	0.000
Shenandoah County, Virginia	0.000
Sherburne County, Minnesota	0.000
Sheridan County, Montana	0.000
Sheridan County, Nebraska	0.000
Sheridan County, North Dakota	0.000
Sheridan County, Wyoming	0.000
Sherman County, Nebraska	0.000
Shiawassee County, Michigan	0.000
Sibley County, Minnesota	0.000
Silver Bow County, Montana	0.000
Simpson County, Kentucky	0.000
Simpson County, Mississippi	0.000
Sioux County, Iowa	0.000
Sioux County, Nebraska	0.000

Sioux County, North Dakota	0.000
Skagit County, Washington	0.000
Skamania County, Washington	0.000
Slope County, North Dakota	0.000
Smith County, Mississippi	0.000
Smith County, Tennessee	0.000
Smyth County, Virginia	0.000
Snohomish County, Washington	0.000
Snyder County, Pennsylvania	0.000
Somerset County, Maine	0.000
Somerset County, Maryland	0.000
Somerset County, New Jersey	0.006
Somerset County, Pennsylvania	0.000
Southampton County, Virginia	0.000
Spalding County, Georgia	0.000
Spencer County, Indiana	0.000
Spencer County, Kentucky	0.000
Spink County, South Dakota	0.000
Spokane County, Washington	0.000
Spotsylvania County, Virginia	0.000
St. Bernard Parish, Louisiana	0.000
St. Charles Parish, Louisiana	0.000
St. Clair County, Alabama	0.000
St. Clair County, Michigan	0.000
St. Croix County, Wisconsin	0.000

St. Francis County, Arkansas	0.000
St. Helena Parish, Louisiana	0.000
St. James Parish, Louisiana	0.000
St. John the Baptist Parish, Louisiana	0.000
St. Johns County, Florida	0.000
St. Joseph County, Indiana	0.000
St. Joseph County, Michigan	0.000
St. Landry Parish, Louisiana	0.000
St. Lawrence County, New York	0.000
St. Louis County, Minnesota	0.000
St. Lucie County, Florida	0.000
St. Martin Parish, Louisiana	0.000
St. Mary Parish, Louisiana	0.000
St. Mary's County, Maryland	0.000
St. Tammany Parish, Louisiana	0.000
Stafford County, Virginia	0.000
Stanley County, South Dakota	0.000
Stanly County, North Carolina	0.000
Stanton County, Nebraska	0.000
Stark County, North Dakota	0.000
Stark County, Ohio	0.000
Starke County, Indiana	0.000
Staunton city, Virginia	0.000
Stearns County, Minnesota	0.000
Steele County, Minnesota	0.000

Steele County, North Dakota	0.000
Stephens County, Georgia	0.000
Stephens County, Oklahoma	0.000
Steuben County, Indiana	0.000
Steuben County, New York	0.000
Stevens County, Minnesota	0.000
Stevens County, Washington	0.000
Stewart County, Georgia	0.000
Stewart County, Tennessee	0.000
Stillwater County, Montana	0.000
Stokes County, North Carolina	0.000
Stone County, Arkansas	0.001
Stone County, Mississippi	0.000
Storey County, Nevada	0.000
Story County, Iowa	0.000
Strafford County, New Hampshire	0.000
Stutsman County, North Dakota	0.000
Sublette County, Wyoming	0.000
Suffolk County, Massachusetts	0.000
Suffolk County, New York	0.000
Suffolk city, Virginia	0.000
Sullivan County, Indiana	0.000
Sullivan County, New Hampshire	0.000
Sullivan County, New York	0.000
Sullivan County, Pennsylvania	0.000

Sullivan County, Tennessee	0.000
Sully County, South Dakota	0.000
Summers County, West Virginia	0.000
Summit County, Colorado	0.000
Summit County, Ohio	0.000
Summit County, Utah	0.000
Sumner County, Tennessee	0.000
Sumter County, Alabama	0.000
Sumter County, Florida	0.000
Sumter County, Georgia	0.000
Sunflower County, Mississippi	0.000
Surry County, North Carolina	0.000
Surry County, Virginia	0.000
Susquehanna County, Pennsylvania	0.000
Sussex County, Delaware	0.000
Sussex County, New Jersey	0.000
Sussex County, Virginia	0.000
Suwannee County, Florida	0.000
Swain County, North Carolina	0.000
Sweet Grass County, Montana	0.000
Sweetwater County, Wyoming	0.000
Swift County, Minnesota	0.000
Switzerland County, Indiana	0.000
Talbot County, Georgia	0.000
Talbot County, Maryland	0.001

Taliaferro County, Georgia	0.000
Talladega County, Alabama	0.000
Tallahatchie County, Mississippi	0.000
Tallapoosa County, Alabama	0.000
Tama County, Iowa	0.000
Tangipahoa Parish, Louisiana	0.000
Tate County, Mississippi	0.000
Tattnall County, Georgia	0.001
Taylor County, Florida	0.000
Taylor County, Georgia	0.000
Taylor County, Iowa	0.000
Taylor County, Kentucky	0.000
Taylor County, West Virginia	0.000
Taylor County, Wisconsin	0.000
Tazewell County, Virginia	0.000
Telfair County, Georgia	0.000
Teller County, Colorado	0.000
Tensas Parish, Louisiana	0.000
Terrebonne Parish, Louisiana	0.000
Terrell County, Georgia	0.000
Teton County, Montana	0.000
Teton County, Wyoming	0.000
Texas County, Oklahoma	0.000
Thayer County, Nebraska	0.000
Thomas County, Georgia	0.000

Thomas County, Nebraska	0.000
Thurston County, Nebraska	0.000
Thurston County, Washington	0.000
Tift County, Georgia	0.000
Tillman County, Oklahoma	0.000
Tioga County, New York	0.000
Tioga County, Pennsylvania	0.000
Tippah County, Mississippi	0.000
Tippecanoe County, Indiana	0.014
Tipton County, Indiana	0.000
Tipton County, Tennessee	0.000
Tishomingo County, Mississippi	0.000
Todd County, Kentucky	0.000
Todd County, Minnesota	0.000
Todd County, South Dakota	0.000
Tolland County, Connecticut	0.014
Tompkins County, New York	0.011
Tooele County, Utah	0.000
Toole County, Montana	0.000
Toombs County, Georgia	0.000
Towner County, North Dakota	0.000
Towns County, Georgia	0.000
Traill County, North Dakota	0.000
Transylvania County, North Carolina	0.000
Traverse County, Minnesota	0.000



Treasure County, Montana	0.000
Trempealeau County, Wisconsin	0.000
Treutlen County, Georgia	0.000
Trigg County, Kentucky	0.000
Trimble County, Kentucky	0.000
Tripp County, South Dakota	0.000
Troup County, Georgia	0.000
Trousdale County, Tennessee	0.000
Trumbull County, Ohio	0.000
Tucker County, West Virginia	0.000
Tulsa County, Oklahoma	0.000
Tunica County, Mississippi	0.000
Turner County, Georgia	0.000
Turner County, South Dakota	0.000
Tuscaloosa County, Alabama	0.000
Tuscarawas County, Ohio	0.000
Tuscola County, Michigan	0.000
Twiggs County, Georgia	0.000
Tyler County, West Virginia	0.000
Tyrrell County, North Carolina	0.000
Uinta County, Wyoming	0.000
Uintah County, Utah	0.000
Ulster County, New York	0.000
Unicoi County, Tennessee	0.000
Union County, Arkansas	0.000

Union County, Florida	0.002
Union County, Georgia	0.008
Union County, Indiana	0.000
Union County, Iowa	0.000
Union County, Kentucky	0.000
Union County, Mississippi	0.000
Union County, New Jersey	0.000
Union County, North Carolina	0.000
Union County, Ohio	0.000
Union County, Pennsylvania	0.000
Union County, South Dakota	0.000
Union County, Tennessee	0.000
Union Parish, Louisiana	0.000
Upshur County, West Virginia	0.000
Upson County, Georgia	0.000
Utah County, Utah	0.000
Valley County, Montana	0.000
Valley County, Nebraska	0.000
Van Buren County, Arkansas	0.000
Van Buren County, Iowa	0.000
Van Buren County, Michigan	0.000
Van Buren County, Tennessee	0.000
Van Wert County, Ohio	0.000
Vance County, North Carolina	0.000
Vanderburgh County, Indiana	0.000

Venango County, Pennsylvania	0.000
Vermilion Parish, Louisiana	0.000
Vermillion County, Indiana	0.000
Vernon County, Wisconsin	0.000
Vernon Parish, Louisiana	0.000
Vigo County, Indiana	0.000
Vilas County, Wisconsin	0.000
Vinton County, Ohio	0.000
Virginia Beach city, Virginia	0.000
Volusia County, Florida	0.000
Wabash County, Indiana	0.000
Wabasha County, Minnesota	0.000
Wadena County, Minnesota	0.000
Wagoner County, Oklahoma	0.000
Wahkiakum County, Washington	0.000
Wake County, North Carolina	0.000
Wakulla County, Florida	0.000
Waldo County, Maine	0.000
Walker County, Alabama	0.000
Walker County, Georgia	0.000
Walla Walla County, Washington	0.000
Walsh County, North Dakota	0.000
Walthall County, Mississippi	0.000
Walton County, Florida	0.000
Walton County, Georgia	0.000

Walworth County, South Dakota	0.000
Walworth County, Wisconsin	0.000
Wapello County, Iowa	0.000
Ward County, North Dakota	0.000
Ware County, Georgia	0.000
Warren County, Georgia	0.000
Warren County, Indiana	0.000
Warren County, Iowa	0.000
Warren County, Kentucky	0.000
Warren County, Mississippi	0.000
Warren County, New Jersey	0.000
Warren County, New York	0.000
Warren County, North Carolina	0.002
Warren County, Ohio	0.000
Warren County, Pennsylvania	0.000
Warren County, Tennessee	0.000
Warren County, Virginia	0.000
Warrick County, Indiana	0.000
Wasatch County, Utah	0.000
Waseca County, Minnesota	0.000
Washakie County, Wyoming	0.022
Washburn County, Wisconsin	0.000
Washington County, Alabama	0.000
Washington County, Arkansas	0.000
Washington County, Colorado	0.000

Washington County, Florida	0.000
Washington County, Georgia	0.000
Washington County, Indiana	0.000
Washington County, Iowa	0.000
Washington County, Kentucky	0.000
Washington County, Maine	0.000
Washington County, Maryland	0.000
Washington County, Minnesota	0.000
Washington County, Mississippi	0.000
Washington County, Nebraska	0.000
Washington County, New York	0.000
Washington County, North Carolina	0.000
Washington County, Ohio	0.000
Washington County, Oklahoma	0.000
Washington County, Pennsylvania	0.000
Washington County, Rhode Island	0.000
Washington County, Tennessee	0.002
Washington County, Utah	0.000
Washington County, Vermont	0.000
Washington County, Virginia	0.001
Washington County, Wisconsin	0.000
Washington Parish, Louisiana	0.000
Washita County, Oklahoma	0.000
Washoe County, Nevada	0.000
Washtenaw County, Michigan	0.000

Watauga County, North Carolina	0.000
Watonwan County, Minnesota	0.000
Waukesha County, Wisconsin	0.000
Waupaca County, Wisconsin	0.000
Waushara County, Wisconsin	0.000
Wayne County, Georgia	0.000
Wayne County, Indiana	0.000
Wayne County, Iowa	0.000
Wayne County, Kentucky	0.000
Wayne County, Michigan	0.000
Wayne County, Mississippi	0.000
Wayne County, Nebraska	0.000
Wayne County, New York	0.000
Wayne County, North Carolina	0.000
Wayne County, Ohio	0.000
Wayne County, Pennsylvania	0.000
Wayne County, Tennessee	0.000
Wayne County, Utah	0.000
Wayne County, West Virginia	0.000
Waynesboro city, Virginia	0.000
Weakley County, Tennessee	0.000
Weber County, Utah	0.000
Webster County, Georgia	0.000
Webster County, Iowa	0.000
Webster County, Kentucky	0.000

Webster County, Mississippi	0.000
Webster County, Nebraska	0.000
Webster County, West Virginia	0.000
Webster Parish, Louisiana	0.000
Weld County, Colorado	0.030
Wells County, Indiana	0.000
Wells County, North Dakota	0.001
West Baton Rouge Parish, Louisiana	0.000
West Carroll Parish, Louisiana	0.000
West Feliciana Parish, Louisiana	0.010
Westchester County, New York	0.000
Westmoreland County, Pennsylvania	0.000
Westmoreland County, Virginia	0.000
Weston County, Wyoming	0.000
Wetzel County, West Virginia	0.000
Wexford County, Michigan	0.000
Whatcom County, Washington	0.000
Wheatland County, Montana	0.000
Wheeler County, Georgia	0.000
Wheeler County, Nebraska	0.000
White County, Arkansas	0.000
White County, Georgia	0.000
White County, Indiana	0.000
White County, Tennessee	0.000
White Pine County, Nevada	0.000

Whitfield County, Georgia	0.000
Whitley County, Indiana	0.000
Whitley County, Kentucky	0.000
Whitman County, Washington	0.000
Wibaux County, Montana	0.000
Wicomico County, Maryland	0.000
Wilcox County, Alabama	0.000
Wilcox County, Georgia	0.000
Wilkes County, Georgia	0.000
Wilkes County, North Carolina	0.000
Wilkin County, Minnesota	0.000
Wilkinson County, Georgia	0.000
Wilkinson County, Mississippi	0.000
Williams County, North Dakota	0.000
Williams County, Ohio	0.000
Williamsburg city, Virginia	0.000
Williamson County, Tennessee	0.000
Wilson County, North Carolina	0.000
Wilson County, Tennessee	0.000
Winchester city, Virginia	0.000
Windham County, Connecticut	0.000
Windham County, Vermont	0.000
Windsor County, Vermont	0.000
Winn Parish, Louisiana	0.000
Winnebago County, Iowa	0.000



Winnebago County, Wisconsin	0.000
Winneshiek County, Iowa	0.000
Winona County, Minnesota	0.000
Winston County, Alabama	0.000
Winston County, Mississippi	0.000
Wirt County, West Virginia	0.000
Wise County, Virginia	0.000
Wolfe County, Kentucky	0.000
Wood County, Ohio	0.000
Wood County, West Virginia	0.000
Wood County, Wisconsin	0.000
Woodbury County, Iowa	0.000
Woodford County, Kentucky	0.000
Woodruff County, Arkansas	0.000
Woods County, Oklahoma	0.000
Woodward County, Oklahoma	0.000
Worcester County, Maryland	0.000
Worcester County, Massachusetts	0.000
Worth County, Georgia	0.000
Worth County, Iowa	0.000
Wright County, Iowa	0.000
Wright County, Minnesota	0.000
Wyandot County, Ohio	0.000
Wyoming County, New York	0.000
Wyoming County, Pennsylvania	0.000

Wyoming County, West Virginia	0.003
Wythe County, Virginia	0.000
Yadkin County, North Carolina	0.000
Yakima County, Washington	0.041
Yalobusha County, Mississippi	0.000
Yancey County, North Carolina	0.000
Yankton County, South Dakota	0.000
Yates County, New York	0.000
Yazoo County, Mississippi	0.000
Yell County, Arkansas	0.000
Yellow Medicine County, Minnesota	0.000
Yellowstone County, Montana	0.000
York County, Maine	0.000
York County, Nebraska	0.000
York County, Pennsylvania	0.000
York County, Virginia	0.000
Yuma County, Colorado	0.000
Ziebach County, South Dakota	0.000

**Fig 9.15** WIC Women: Full Non-parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
Total population	0.01
Female	0.01
Median age years	0.01
One race White	0.01

One race Black or African American	0.01
One race American Indian and Alaska Native	0.01
One race Asian Asian Indian	0.01
One race Asian Chinese	0.01
One race Asian Filipino	0.01
One race Asian Other Asian	0.01
One race Native Hawaiian and Other Pacific Islander	0.01
One race Some other race	0.01
Two or more races White and Black or African American	0.01
Two or more races White and American Indian and Alaska Native	0.01
Two or more races White and Asian	0.01
Two or more races Black or African American and American Indian and Alaska Native	0.01
Hispanic or Latino of any race	0.01
Hispanic or Latino of any race Mexican	0.01
Hispanic or Latino of any race Puerto Rican	0.01
Hispanic or Latino of any race Cuban	0.01
X Total housing units	0.01
In labor force Civilian labor force Employed	0.01
In labor force Civilian labor force Unemployed	0.01
In labor force Armed Forces	0.01
Females 16 years and over	0.01
X COMMUTING TO WORK Car truck or van drove alone	0.01
X COMMUTING TO WORK Car truck or van carpooled	0.01

X COMMUTING TO WORK Public transportation excluding taxicab	0.01
X COMMUTING TO WORK Walked	0.01
X COMMUTING TO WORK Worked at home	0.01
X COMMUTING TO WORK Mean travel time to work minutes	0.01
X OCCUPATION Management business science and arts occupations	0.01
X OCCUPATION Service occupations	0.009
X OCCUPATION Sales and office occupations	0.01
X OCCUPATION Natural resources construction and maintenance occupations	0.01
X OCCUPATION Production transportation and material moving occupations	0.01
X INDUSTRY Agriculture forestry fishing and hunting and mining	0.01
X INDUSTRY Construction	0.01
X INDUSTRY Manufacturing	0.01
X INDUSTRY Wholesale trade	0.01
X INDUSTRY Retail trade	0.01
X INDUSTRY Transportation and warehousing and utilities	0.01
X INDUSTRY Information	0.01
X INDUSTRY Finance and insurance and real estate and rental and leasing	0.01
X INDUSTRY Professional scientific and management and administrative and waste management services	0.01
X INDUSTRY Educational services and health care and social assistance	0.01

X INDUSTRY Arts entertainment and recreation and accommodation and food services	0.01
X INDUSTRY Other services except public administration	0.01
X INDUSTRY Public administration	0.01
X CLASS OF WORKER Private wage and salary workers	0.01
X CLASS OF WORKER Government workers	0.01
X CLASS OF WORKER Self employed in own not incorporated business workers	0.01
X CLASS OF WORKER Unpaid family workers	0.01
Total households	0.01
With earnings Mean earnings dollars	0.01
With Social Security	0.01
With Social Security Mean Social Security income dollars	0.01
With retirement income	0.01
With Supplemental Security Income	0.01
With cash public assistance income	0.01
With Food Stamp SNAP benefits in the past 12 months	0.01
Families	0.01
Median family income dollars	0.01
Mean family income dollars	0.01
Per capita income dollars	0.01
Nonfamily households	0.01
Median nonfamily income dollars	0.01
Mean nonfamily income dollars	0.01
Median earnings for male full time year round workers dollars	0.01

Civilian noninstitutionalized population	0.01
With health insurance coverage With private health insurance	0.01
With health insurance coverage With public coverage	0.01
No health insurance coverage	0.01
Civilian noninstitutionalized population under 18 years	0.01
Civilian noninstitutionalized population 18 to 64 years	0.01
Urban Inside urbanized areas	0.01
Urban Inside urban clusters	0.01
Rural	0.01
Male Ed Less Than High School	0.01
Male Ed High School Graduated	0.01
Male Ed Some College Or Associates	0.01
Male Ed Bachelors Degree Or Higher	0.01
Female Ed Less Than High School	0.01
Female Ed High School Graduated	0.01
Female Ed Some College Or Associates	0.01
Female Ed Bachelors Degree Or Higher	0.01
total votes x	0.01
republican vote percent x	0.01
democrat vote percent x	0.01
Age 0 To 9	0.01
Age 10 To 19	0.01
Age 20 To 24	0.01
Age 25 To 44	0.01
Age 45 To 64	0.01

Age 65 To 44	0.01
Income 0k 25k	0.01
Income 25k 50k	0.01
Income 50k 75k	0.01
Income 75k 100k	0.01
Income 100k 200k	0.01
Income Over 200k	0.01

**Fig 9.16** WIC Women: Full Non-parametric Estimator Comparison List

<b>Predictor</b>	<b>Treatment</b>	<b>Synthetic</b>	<b>Abs. Diff</b>
Median.earnings.for.male.full.time..year.round.workers.dollars	48.949	47.564	1.385
Per.capita.income.dollars	48.789	47.914	0.875
Rural	56.416	55.687	0.729
total_votes_x	52.999	53.668	0.669
Median.age.years	47.888	47.256	0.632
Urban_Inside.urbanized.areas	16.474	17.104	0.630
Median.nonfamily.income.dollars	50.545	51.017	0.472
Hispanic.or.Latino.of.any.race_Mexican	15.652	15.184	0.468
One.race_Black.or.African.American	5.841	5.376	0.465

X_COMMUTING.TO.WORK_Mean.travel.time.to.work.minutes	44.239	43.798	0.441
X_Total.housing.units	46.377	46.022	0.355
One.race_White	85.755	86.106	0.351
Mean.family.income.dollars	50.445	50.108	0.337
Total.population	46.802	46.483	0.319
Income_0k_25k	28.057	28.323	0.266
Male_Ed_Less_Than_High_School	18.58	18.811	0.231
With.earnings_Mean.earnings.dollars	49.824	49.594	0.230
Total.households	46.496	46.273	0.223
Median.family.income.dollars	49.472	49.687	0.215
republican_vote_percent_x	63.491	63.29	0.201
democrat_vote_percent_x	34.47	34.645	0.175
With.Social.Security	34.334	34.179	0.155
Income_100k_200k	12.243	12.093	0.150
Income_25k_50k	27.469	27.324	0.145
X_INDUSTRY_Arts..entertainment..and.recreation..and.accommodation.and.food.services	7.715	7.852	0.137
X_INDUSTRY_Educational.services..and.health.care.and.social.assistance	22.872	22.745	0.127
X_OCCUPATION_Management..business.science..and.arts.occupations	29.971	30.097	0.126
With.Food.Stamp.SNAP.benefits.in.the.past.12.months	12.398	12.511	0.113
Hispanic.or.Latino.of.any.race	18.01	18.122	0.112
Male_Ed_Some_College_Or_Associates	30.105	29.995	0.110
X_OCCUPATION_Service.occupations	18.673	18.567	0.106



Urban_Inside.urban.clusters	27.11	27.209	0.099
Female_Ed_Less_Than_High_School	16.205	16.106	0.099
Age_0_To_9	12.901	12.994	0.093
One.race_Some.other.race	3.698	3.79	0.092
One.race_American.Indian.and.Alaska.Native	1.275	1.189	0.086
Female_Ed_High_School_Graduated	31.809	31.895	0.086
X_OCCUPATION_Natural.resources..construction..and.maintenance.occupations	14.105	14.188	0.083
X_CLASS.OF.WORKER_Private.wage.and.salary.workers	71.749	71.829	0.080
With.cash.public.assistance.income	2.237	2.316	0.079
X_OCCUPATION_Production..transportation..and.material.moving.occupations	14.758	14.68	0.078
With.Supplemental.Security.Income	4.905	4.828	0.077
X_COMMUTING.TO.WORK_Car..truck..or.van....drove.alone	78.076	78.002	0.074
Civilian.noninstitutionalized.population.18.to.64.years	59.314	59.387	0.073
No.health.insurance.coverage	17.095	17.028	0.067
Hispanic.or.Latino.of.any.race_Puerto.Rican	0.249	0.316	0.067
Female_Ed_Some_College_Or_Associates	34.19	34.254	0.064
Male_Ed_Bachelors_Degree_Or_Higher	16.826	16.768	0.058
Mean.nonfamily.income.dollars	51.701	51.755	0.054
In.labor.force_Civilian.labor.force_Unemployed	8.148	8.201	0.053
X_INDUSTRY_Retail.trade	11.3	11.248	0.052
Age_45_To_64	27.287	27.237	0.050

Female_Ed_Bachelors_Degree_Or_Higher	17.797	17.751	0.046
X_INDUSTY_Agriculture..forestry..fishin g.and.hunting..and.mining	8.754	8.798	0.044
X_CLASS.OF.WORKER_Government.work ers	18.75	18.71	0.040
Male_Ed_High_School_Graduated	34.49	34.45	0.040
X_CLASS.OF.WORKER_Self.employed.in. own.not.incorporated.business.workers	9.192	9.153	0.039
Hispanic.or.Latino.of.any.race_Cuban	0.067	0.102	0.035
Income_75k_100k	11.277	11.311	0.034
With.retirement.income	18.552	18.586	0.034
Civilian.noninstitutionalized.population.unde r.18.years	24.616	24.583	0.033
Age_25_To_44	23.541	23.574	0.033
In.labor.force_Civilian.labor.force_Employe d	91.347	91.315	0.032
With.Social.Security_Mean.Social.Security.i ncome.dollars	51.494	51.462	0.032
X_INDUSTY_Professional..scientific..and. management..and.administrative.and.waste. management.services	6.361	6.33	0.031
Age_20_To_24	6.145	6.114	0.031
Age_10_To_19	13.851	13.822	0.029
X_INDUSTY_Transportation.and.warehou sing..and.utilities	5.562	5.589	0.027
X_COMMUTING.TO.WORK_Walked	3.037	3.063	0.026
X_OCCUPATION_Sales.and.office.occupati ons	22.493	22.468	0.025
X_COMMUTING.TO.WORK_Car..truck..or .van....carpooled	11.521	11.501	0.020

In.labor.force_Armed.Forces	0.504	0.484	0.020
Income_Over_200k	2.23	2.21	0.020
Two.or.more.races_White.and.American.Indian.and.Alaska.Native	0.792	0.81	0.018
X_INDUSTY_Finance.and.insurance..and.real.estate.and.rental.and.leasing	4.66	4.678	0.018
Age_65_To_44	16.274	16.259	0.015
With.health.insurance.coverage_With.private.health.insurance	62.826	62.813	0.013
X_INDUSTY_Construction	7.645	7.633	0.012
One.race_Asian_Chinese	0.26	0.249	0.011
X_INDUSTY_Manufacturing	10.326	10.316	0.010
X_COMMUTING.TO.WORK_Worked.at.home	4.998	5.008	0.010
Families	68.516	68.508	0.008
X_INDUSTY_Public.administration	6.053	6.061	0.008
Nonfamily.households	31.484	31.492	0.008
Income_50k_75k	18.724	18.732	0.008
X_INDUSTY_Information	1.461	1.454	0.007
Two.or.more.races_White.and.Black.or.African.American	0.441	0.434	0.007
Two.or.more.races_White.and.Asian	0.243	0.25	0.007
Females.16.years.and.over	49.97	49.963	0.007
X_COMMUTING.TO.WORK_Public.transportation.excluding.taxicab	0.698	0.703	0.005
One.race_Asian_Asian.Indian	0.215	0.211	0.004
X_INDUSTY_Wholesale.trade	2.495	2.499	0.004

X_INDUSTRY_Other.services..except.public.administration	4.796	4.799	0.003
Civilian.noninstitutionalized.population	96.992	96.995	0.003
One.race_Aasian_Filipino	0.255	0.252	0.003
Female	49.694	49.696	0.002
One.race_Native.Hawaiian.and.Other.Pacific.Islander	0.084	0.083	0.001
X_CLASS.OF.WORKER_Unpaid.family.workers	0.309	0.308	0.001
One.race_Aasian_Other.Asian	0.321	0.321	0.000
Two.or.more.races_Black.or.African.American.and.American.Indian.and.Alaska.Native	0.051	0.051	0.000
With.health.insurance.coverage_With.public.coverage	33.612	33.612	0.000

**Fig 9.17** WIC Women: Condensed Non-parametric W weight list

<b>County</b>	<b>W Weight</b>
Morgan County, Colorado	0.000
Otero County, Colorado	0.000
Hall County, Georgia	0.000
Yakima County, Washington	0.000
Newton County, Indiana	0.000
Harper County, Oklahoma	0.048
Weld County, Colorado	0.000
McClain County, Oklahoma	0.000
Clark County, Nevada	0.000
Pleasants County, West Virginia	0.000

Harmon County, Oklahoma	0.000
Scotts Bluff County, Nebraska	0.000
Washakie County, Wyoming	0.000
Prowers County, Colorado	0.003
Searcy County, Arkansas	0.000
Middlesex County, Virginia	0.000
Archuleta County, Colorado	0.000
Seminole County, Georgia	0.000
Cheyenne County, Colorado	0.000
Galax city, Virginia	0.000
Northumberland County, Virginia	0.000
Greer County, Oklahoma	0.000
Tippecanoe County, Indiana	0.000
Tolland County, Connecticut	0.001
Foster County, North Dakota	0.000
Lyon County, Nevada	0.000
Sanpete County, Utah	0.000
Pueblo County, Colorado	0.000
Adams County, Washington	0.000
Doddridge County, West Virginia	0.000
Tompkins County, New York	0.000
West Feliciana Parish, Louisiana	0.000
Island County, Washington	0.000
Big Horn County, Wyoming	0.000
Deuel County, Nebraska	0.000

Grant County, Indiana	0.000
Major County, Oklahoma	0.000
Union County, Georgia	0.000
Izard County, Arkansas	0.000
Fremont County, Colorado	0.000
Somerset County, New Jersey	0.000
Dundy County, Nebraska	0.000
East Feliciana Parish, Louisiana	0.000
Chattahoochee County, Georgia	0.000
Garfield County, Colorado	0.000
Middlesex County, New Jersey	0.002
Colfax County, Nebraska	0.000
Crowley County, Colorado	0.000
Daggett County, Utah	0.000
Phillips County, Colorado	0.000
Sedgwick County, Colorado	0.000
Wyoming County, West Virginia	0.000
Elko County, Nevada	0.000
Monongalia County, West Virginia	0.000
Union County, Florida	0.000
Warren County, North Carolina	0.000
Washington County, Tennessee	0.006
Anderson County, Tennessee	0.000
Augusta County, Virginia	0.000
Benton County, Arkansas	0.000

Bland County, Virginia	0.000
Bleckley County, Georgia	0.000
Blount County, Alabama	0.000
Chelan County, Washington	0.000
Claiborne Parish, Louisiana	0.000
Garfield County, Oklahoma	0.000
Henderson County, North Carolina	0.000
Limestone County, Alabama	0.000
Montgomery County, North Carolina	0.000
Oglethorpe County, Georgia	0.000
Pender County, North Carolina	0.000
Prince Edward County, Virginia	0.000
Putnam County, Georgia	0.000
Putnam County, Indiana	0.000
Rappahannock County, Virginia	0.000
Roane County, Tennessee	0.000
Stone County, Arkansas	0.000
Talbot County, Maryland	0.000
Tattnall County, Georgia	0.000
Washington County, Virginia	0.000
Wells County, North Dakota	0.000
Acadia Parish, Louisiana	0.000
Accomack County, Virginia	0.000
Adair County, Iowa	0.000
Adair County, Kentucky	0.000

Adair County, Oklahoma	0.000
Adams County, Colorado	0.000
Adams County, Indiana	0.000
Adams County, Iowa	0.000
Adams County, Mississippi	0.000
Adams County, Nebraska	0.000
Adams County, North Dakota	0.000
Adams County, Ohio	0.000
Adams County, Pennsylvania	0.000
Adams County, Wisconsin	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000
Alachua County, Florida	0.000
Alamance County, North Carolina	0.000
Alamosa County, Colorado	0.000
Albany County, New York	0.000
Albany County, Wyoming	0.000
Albemarle County, Virginia	0.000
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, North Carolina	0.000
Alexandria city, Virginia	0.000
Alfalfa County, Oklahoma	0.035
Alger County, Michigan	0.000
Allamakee County, Iowa	0.000



Allegan County, Michigan	0.000
Allegany County, Maryland	0.000
Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Alleghany County, Virginia	0.005
Allegheny County, Pennsylvania	0.000
Allen County, Indiana	0.000
Allen County, Kentucky	0.000
Allen County, Ohio	0.000
Allen Parish, Louisiana	0.000
Alpena County, Michigan	0.000
Amelia County, Virginia	0.000
Amherst County, Virginia	0.000
Amite County, Mississippi	0.000
Anderson County, Kentucky	0.000
Androscoggin County, Maine	0.000
Anne Arundel County, Maryland	0.000
Anoka County, Minnesota	0.000
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000
Appanoose County, Iowa	0.000
Appling County, Georgia	0.001
Appomattox County, Virginia	0.000
Arapahoe County, Colorado	0.000

Arenac County, Michigan	0.000
Arkansas County, Arkansas	0.000
Arlington County, Virginia	0.000
Armstrong County, Pennsylvania	0.000
Aroostook County, Maine	0.000
Arthur County, Nebraska	0.000
Ascension Parish, Louisiana	0.000
Ashe County, North Carolina	0.000
Ashland County, Ohio	0.000
Ashland County, Wisconsin	0.000
Ashley County, Arkansas	0.000
Ashtabula County, Ohio	0.000
Asotin County, Washington	0.000
Assumption Parish, Louisiana	0.000
Athens County, Ohio	0.000
Atkinson County, Georgia	0.000
Atlantic County, New Jersey	0.000
Atoka County, Oklahoma	0.000
Attala County, Mississippi	0.001
Audubon County, Iowa	0.000
Auglaize County, Ohio	0.032
Aurora County, South Dakota	0.000
Autauga County, Alabama	0.000
Avery County, North Carolina	0.000
Avoyelles Parish, Louisiana	0.000

Baca County, Colorado	0.013
Bacon County, Georgia	0.001
Baker County, Florida	0.015
Baker County, Georgia	0.010
Baldwin County, Alabama	0.000
Baldwin County, Georgia	0.020
Ballard County, Kentucky	0.004
Baltimore County, Maryland	0.007
Baltimore city, Maryland	0.001
Banks County, Georgia	0.000
Banner County, Nebraska	0.023
Baraga County, Michigan	0.031
Barbour County, Alabama	0.000
Barbour County, West Virginia	0.022
Barnes County, North Dakota	0.016
Barnstable County, Massachusetts	0.000
Barren County, Kentucky	0.036
Barron County, Wisconsin	0.000
Barrow County, Georgia	0.021
Barry County, Michigan	0.016
Bartholomew County, Indiana	0.042
Bartow County, Georgia	0.000
Bath County, Kentucky	0.006
Bath County, Virginia	0.029
Baxter County, Arkansas	0.000

Bay County, Florida	0.000
Bay County, Michigan	0.000
Bayfield County, Wisconsin	0.015
Beadle County, South Dakota	0.007
Beaufort County, North Carolina	0.003
Beauregard Parish, Louisiana	0.000
Beaver County, Oklahoma	0.000
Beaver County, Pennsylvania	0.048
Beaver County, Utah	0.027
Beaverhead County, Montana	0.030
Becker County, Minnesota	0.000
Beckham County, Oklahoma	0.075
Bedford County, Pennsylvania	0.000
Bedford County, Tennessee	0.000
Bedford County, Virginia	0.007
Belknap County, New Hampshire	0.000
Bell County, Kentucky	0.026
Belmont County, Ohio	0.000
Beltrami County, Minnesota	0.000
Ben Hill County, Georgia	0.000
Bennett County, South Dakota	0.016
Bennington County, Vermont	0.000
Benson County, North Dakota	0.034
Bent County, Colorado	0.010
Benton County, Indiana	0.000

Benton County, Iowa	0.001
Benton County, Minnesota	0.039
Benton County, Mississippi	0.001
Benton County, Tennessee	0.000
Benton County, Washington	0.000
Benzie County, Michigan	0.000
Bergen County, New Jersey	0.044
Berkeley County, West Virginia	0.015
Berks County, Pennsylvania	0.000
Berkshire County, Massachusetts	0.000
Berrien County, Georgia	0.000
Berrien County, Michigan	0.000
Bertie County, North Carolina	0.040
Bibb County, Alabama	0.000
Bibb County, Georgia	0.000
Bienville Parish, Louisiana	0.001
Big Horn County, Montana	0.000
Big Stone County, Minnesota	0.031
Billings County, North Dakota	0.001
Black Hawk County, Iowa	0.078

**Fig 9.18** WIC Women: Condensed Non-parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
Total.population	0.005
Female	0.000

Median.age.years	0.004
One.race_White	0.008
One.race_Black.or.African.American	0.017
One.race_American.Indian.and.Alaska.Native	0.001
One.race_Asian_Asian.Indian	0.004
One.race_Asian_Chinese	0.015
One.race_Asian_Filipino	0.004
One.race_Asian_Other.Asian	0.000
One.race_Native.Hawaiian.and.Other.Pacific.Islander	0.000
One.race_Some.other.race	0.036
Two.or.more.races_White.and.Black.or.African.American	0.000
Two.or.more.races_White.and.American.Indian.and.Alaska.Native	0.018
Two.or.more.races_White.and.Asian	0.018
Two.or.more.races_Black.or.African.American.and.American.Indian.and.Alaska.Native	0.000
Hispanic.or.Latino.of.any.race	0.026
Hispanic.or.Latino.of.any.race_Mexican	0.063
Hispanic.or.Latino.of.any.race_Puerto.Rican	0.022
Hispanic.or.Latino.of.any.race_Cuban	0.035
X_Total.housing.units	0.007
In.labor.force_Civilian.labor.force_Employed	0.000
In.labor.force_Civilian.labor.force_Unemployed	0.003
In.labor.force_Armed.Forces	0.000
Females.16.years.and.over	0.000
X_COMMUTING.TO.WORK_Car..truck..or.van....drove.alone	0.008

X_COMMUTING.TO.WORK_Car..truck..or.van....carpooled	0.000
X_COMMUTING.TO.WORK_Public.transportation.excluding.taxicab	0.000
X_COMMUTING.TO.WORK_Walked	0.004
X_COMMUTING.TO.WORK_Worked.at.home	0.016
X_COMMUTING.TO.WORK_Mean.travel.time.to.work.minutes	0.000
X_OCCUPATION_Management..business..science..and.arts.occupations	0.018
X_OCCUPATION_Service.occupations	0.027
X_OCCUPATION_Sales.and.office.occupations	0.012
X_OCCUPATION_Natural.resources..construction..and.maintenance.occupations	0.020
X_OCCUPATION_Production..transportation..and.material.moving.occupations	0.013
X_INDUSTRY_Agriculture..forestry..fishing.and.hunting..and.mining	0.003
X_INDUSTRY_Construction	0.000
X_INDUSTRY_Manufacturing	0.002
X_INDUSTRY_Wholesale.trade	0.013
X_INDUSTRY_Retail.trade	0.001
X_INDUSTRY_Transportation.and.warehousing..and.utilities	0.011
X_INDUSTRY_Information	0.005
X_INDUSTRY_Finance.and.insurance..and.real.estate.and.rental.and.leasing	0.006
X_INDUSTRY_Professional..scientific..and.management..and.administrative.and.waste.management.services	0.011
X_INDUSTRY_Educational.services..and.health.care.and.social.assistance	0.000
X_INDUSTRY_Arts..entertainment..and.recreation..and.accommodation.and.food.services	0.007

X_INDUSTY_ Other.services..except.public.administration	0.006
X_INDUSTY_Public.administration	0.002
X_CLASS.OF.WORKER_Private.wage.and.salary.workers	0.000
X_CLASS.OF.WORKER_Government.workers	0.000
X_CLASS.OF.WORKER_Self.employed.in.own.not.incorporated.busin ess.workers	0.000
X_CLASS.OF.WORKER_Unpaid.family.workers	0.010
Total.households	0.003
With.earnings_Mean.earnings.dollars	0.004
With.Social.Security	0.025
With.Social.Security_Mean.Social.Security.income.dollars	0.000
With.retirement.income	0.005
With.Supplemental.Security.Income	0.006
With.cash.public.assistance.income	0.039
With.Food.Stamp.SNAP.benefits.in.the.past.12.months	0.006
Families	0.005
Median.family.income.dollars	0.000
Mean.family.income.dollars	0.005
Per.capita.income.dollars	0.000
Nonfamily.households	0.005
Median.nonfamily.income.dollars	0.022
Mean.nonfamily.income.dollars	0.000
Median.earnings.for.male.full.time..year.round.workers.dollars	0.046
Civilian.noninstitutionalized.population	0.004
With.health.insurance.coverage_With.private.health.insurance	0.000



With.health.insurance.coverage_With.public.coverage	0.000
No.health.insurance.coverage	0.031
Civilian.noninstitutionalized.population.under.18.years	0.013
Civilian.noninstitutionalized.population.18.to.64.years	0.011
Urban_Inside.urbanized.areas	0.000
Urban_Inside.urban.clusters	0.017
Rural	0.002
Male_Ed_Less_Than_High_School	0.000
Male_Ed_High_School_Graduated	0.001
Male_Ed_Some_College_Or_Associates	0.014
Male_Ed_Bachelors_Degree_Or_Higher	0.001
Female_Ed_Less_Than_High_School	0.015
Female_Ed_High_School_Graduated	0.012
Female_Ed_Some_College_Or_Associates	0.000
Female_Ed_Bachelors_Degree_Or_Higher	0.000
total_votes_x	0.070
republican_vote_percent_x	0.002
democrat_vote_percent_x	0.003
Age_0_To_9	0.017
Age_10_To_19	0.006
Age_20_To_24	0.000
Age_25_To_44	0.019
Age_45_To_64	0.000
Age_65_To_44	0.001
Income_0k_25k	0.022

Income_25k_50k	0.024
Income_50k_75k	0.003
Income_75k_100k	0.010
Income_100k_200k	0.044
Income_Over_200k	0.004

**Fig 9.19** WIC Women: Full Parametric W weight list

<b>County</b>	<b>W Weight</b>
Acadia Parish, Louisiana	0.000
Accomack County, Virginia	0.000
Adair County, Iowa	0.000
Adair County, Kentucky	0.000
Adair County, Oklahoma	0.000
Adams County, Colorado	0.002
Adams County, Indiana	0.000
Adams County, Iowa	0.000
Adams County, Mississippi	0.000
Adams County, Nebraska	0.001
Adams County, North Dakota	0.000
Adams County, Ohio	0.000
Adams County, Pennsylvania	0.000
Adams County, Washington	0.121
Adams County, Wisconsin	0.000
Addison County, Vermont	0.000
Aitkin County, Minnesota	0.000

Alachua County, Florida	0.000
Alamance County, North Carolina	0.000
Alamosa County, Colorado	0.005
Albany County, New York	0.000
Albany County, Wyoming	0.001
Albemarle County, Virginia	0.000
Alcona County, Michigan	0.000
Alcorn County, Mississippi	0.000
Alexander County, North Carolina	0.000
Alexandria city, Virginia	0.000
Alfalfa County, Oklahoma	0.001
Alger County, Michigan	0.000
Allamakee County, Iowa	0.000
Allegan County, Michigan	0.000
Allegany County, Maryland	0.000
Allegany County, New York	0.000
Alleghany County, North Carolina	0.000
Alleghany County, Virginia	0.000
Allegheny County, Pennsylvania	0.000
Allen County, Indiana	0.000
Allen County, Kentucky	0.000
Allen County, Ohio	0.000
Allen Parish, Louisiana	0.000
Alpena County, Michigan	0.000
Amelia County, Virginia	0.000

Amherst County, Virginia	0.000
Amite County, Mississippi	0.000
Anderson County, Kentucky	0.000
Anderson County, Tennessee	0.000
Androscoggin County, Maine	0.000
Anne Arundel County, Maryland	0.000
Anoka County, Minnesota	0.000
Anson County, North Carolina	0.000
Antelope County, Nebraska	0.000
Antrim County, Michigan	0.000
Appanoose County, Iowa	0.000
Appling County, Georgia	0.000
Appomattox County, Virginia	0.000
Arapahoe County, Colorado	0.001
Archuleta County, Colorado	0.001
Arenac County, Michigan	0.000
Arkansas County, Arkansas	0.000
Arlington County, Virginia	0.000
Armstrong County, Pennsylvania	0.000
Aroostook County, Maine	0.000
Arthur County, Nebraska	0.000
Ascension Parish, Louisiana	0.000
Ashe County, North Carolina	0.000
Ashland County, Ohio	0.000
Ashland County, Wisconsin	0.000

Ashley County, Arkansas	0.000
Ashtabula County, Ohio	0.000
Asotin County, Washington	0.000
Assumption Parish, Louisiana	0.000
Athens County, Ohio	0.000
Atkinson County, Georgia	0.001
Atlantic County, New Jersey	0.001
Atoka County, Oklahoma	0.000
Attala County, Mississippi	0.000
Audubon County, Iowa	0.000
Auglaize County, Ohio	0.000
Augusta County, Virginia	0.000
Aurora County, South Dakota	0.000
Autauga County, Alabama	0.000
Avery County, North Carolina	0.000
Avoyelles Parish, Louisiana	0.000
Baca County, Colorado	0.001
Bacon County, Georgia	0.000
Baker County, Florida	0.000
Baker County, Georgia	0.000
Baldwin County, Alabama	0.000
Baldwin County, Georgia	0.000
Ballard County, Kentucky	0.000
Baltimore County, Maryland	0.000
Baltimore city, Maryland	0.000

Banks County, Georgia	0.000
Banner County, Nebraska	0.001
Baraga County, Michigan	0.000
Barbour County, Alabama	0.000
Barbour County, West Virginia	0.000
Barnes County, North Dakota	0.000
Barnstable County, Massachusetts	0.000
Barren County, Kentucky	0.000
Barron County, Wisconsin	0.000
Barrow County, Georgia	0.001
Barry County, Michigan	0.000
Bartholomew County, Indiana	0.000
Bartow County, Georgia	0.000
Bath County, Kentucky	0.000
Bath County, Virginia	0.000
Baxter County, Arkansas	0.000
Bay County, Florida	0.000
Bay County, Michigan	0.000
Bayfield County, Wisconsin	0.000
Beadle County, South Dakota	0.000
Beaufort County, North Carolina	0.000
Beauregard Parish, Louisiana	0.000
Beaver County, Oklahoma	0.007
Beaver County, Pennsylvania	0.000
Beaver County, Utah	0.001

Beaverhead County, Montana	0.000
Becker County, Minnesota	0.000
Beckham County, Oklahoma	0.001
Bedford County, Pennsylvania	0.000
Bedford County, Tennessee	0.001
Bedford County, Virginia	0.000
Belknap County, New Hampshire	0.000
Bell County, Kentucky	0.000
Belmont County, Ohio	0.000
Beltrami County, Minnesota	0.000
Ben Hill County, Georgia	0.000
Bennett County, South Dakota	0.000
Bennington County, Vermont	0.000
Benson County, North Dakota	0.000
Bent County, Colorado	0.001
Benton County, Arkansas	0.001
Benton County, Indiana	0.000
Benton County, Iowa	0.000
Benton County, Minnesota	0.000
Benton County, Mississippi	0.000
Benton County, Tennessee	0.000
Benton County, Washington	0.001
Benzie County, Michigan	0.000
Bergen County, New Jersey	0.001
Berkeley County, West Virginia	0.000

Berks County, Pennsylvania	0.001
Berkshire County, Massachusetts	0.000
Berrien County, Georgia	0.000
Berrien County, Michigan	0.000
Bertie County, North Carolina	0.000
Bibb County, Alabama	0.000
Bibb County, Georgia	0.000
Bienville Parish, Louisiana	0.000
Big Horn County, Montana	0.000
Big Horn County, Wyoming	0.001
Big Stone County, Minnesota	0.000
Billings County, North Dakota	0.000
Black Hawk County, Iowa	0.000
Blackford County, Indiana	0.000
Bladen County, North Carolina	0.000
Blaine County, Montana	0.000
Blaine County, Nebraska	0.000
Blaine County, Oklahoma	0.001
Blair County, Pennsylvania	0.000
Bland County, Virginia	0.000
Bleckley County, Georgia	0.000
Bledsoe County, Tennessee	0.000
Blount County, Alabama	0.001
Blount County, Tennessee	0.000
Blue Earth County, Minnesota	0.000



Bolivar County, Mississippi	0.000
Bon Homme County, South Dakota	0.000
Boone County, Arkansas	0.000
Boone County, Indiana	0.000
Boone County, Iowa	0.000
Boone County, Kentucky	0.000
Boone County, Nebraska	0.000
Boone County, West Virginia	0.000
Bossier Parish, Louisiana	0.000
Botetourt County, Virginia	0.000
Bottineau County, North Dakota	0.000
Boulder County, Colorado	0.000
Bourbon County, Kentucky	0.000
Bowman County, North Dakota	0.000
Box Butte County, Nebraska	0.001
Box Elder County, Utah	0.001
Boyd County, Kentucky	0.000
Boyd County, Nebraska	0.000
Boyle County, Kentucky	0.000
Bracken County, Kentucky	0.000
Bradford County, Florida	0.000
Bradford County, Pennsylvania	0.000
Bradley County, Arkansas	0.000
Bradley County, Tennessee	0.000
Branch County, Michigan	0.000

Brantley County, Georgia	0.000
Braxton County, West Virginia	0.000
Breathitt County, Kentucky	0.000
Breckinridge County, Kentucky	0.000
Bremer County, Iowa	0.000
Brevard County, Florida	0.000
Bristol County, Massachusetts	0.000
Bristol County, Rhode Island	0.000
Bristol city, Virginia	0.000
Broadwater County, Montana	0.000
Bronx County, New York	0.001
Brooke County, West Virginia	0.000
Brookings County, South Dakota	0.000
Brooks County, Georgia	0.000
Broome County, New York	0.000
Broomfield County, Colorado	0.000
Broward County, Florida	0.001
Brown County, Indiana	0.000
Brown County, Minnesota	0.000
Brown County, Nebraska	0.000
Brown County, Ohio	0.000
Brown County, South Dakota	0.000
Brown County, Wisconsin	0.000
Brule County, South Dakota	0.000
Brunswick County, North Carolina	0.000

Brunswick County, Virginia	0.000
Bryan County, Georgia	0.000
Bryan County, Oklahoma	0.000
Buchanan County, Iowa	0.000
Buchanan County, Virginia	0.000
Buckingham County, Virginia	0.000
Bucks County, Pennsylvania	0.000
Buena Vista County, Iowa	0.001
Buena Vista city, Virginia	0.000
Buffalo County, Nebraska	0.001
Buffalo County, South Dakota	0.000
Buffalo County, Wisconsin	0.000
Bullitt County, Kentucky	0.000
Bulloch County, Georgia	0.000
Bullock County, Alabama	0.000
Buncombe County, North Carolina	0.000
Burke County, Georgia	0.000
Burke County, North Carolina	0.000
Burke County, North Dakota	0.000
Burleigh County, North Dakota	0.000
Burlington County, New Jersey	0.000
Burnett County, Wisconsin	0.000
Burt County, Nebraska	0.000
Butler County, Alabama	0.000
Butler County, Iowa	0.000

Butler County, Kentucky	0.000
Butler County, Nebraska	0.000
Butler County, Ohio	0.000
Butler County, Pennsylvania	0.000
Butte County, South Dakota	0.000
Butts County, Georgia	0.000
Cabarrus County, North Carolina	0.000
Cabell County, West Virginia	0.000
Cache County, Utah	0.001
Caddo County, Oklahoma	0.001
Caddo Parish, Louisiana	0.000
Calcasieu Parish, Louisiana	0.000
Caldwell County, Kentucky	0.000
Caldwell County, North Carolina	0.000
Caldwell Parish, Louisiana	0.000
Caledonia County, Vermont	0.000
Calhoun County, Alabama	0.000
Calhoun County, Arkansas	0.000
Calhoun County, Florida	0.000
Calhoun County, Georgia	0.000
Calhoun County, Iowa	0.000
Calhoun County, Michigan	0.000
Calhoun County, Mississippi	0.000
Calhoun County, West Virginia	0.000
Calloway County, Kentucky	0.000

Calumet County, Wisconsin	0.000
Calvert County, Maryland	0.000
Cambria County, Pennsylvania	0.000
Camden County, Georgia	0.000
Camden County, New Jersey	0.000
Camden County, North Carolina	0.000
Cameron County, Pennsylvania	0.000
Cameron Parish, Louisiana	0.000
Campbell County, Kentucky	0.000
Campbell County, South Dakota	0.000
Campbell County, Tennessee	0.000
Campbell County, Virginia	0.000
Campbell County, Wyoming	0.001
Canadian County, Oklahoma	0.001
Candler County, Georgia	0.000
Cannon County, Tennessee	0.000
Cape May County, New Jersey	0.000
Carbon County, Montana	0.000
Carbon County, Pennsylvania	0.000
Carbon County, Utah	0.001
Carbon County, Wyoming	0.001
Carlisle County, Kentucky	0.000
Carlton County, Minnesota	0.000
Caroline County, Maryland	0.000
Caroline County, Virginia	0.000

Carroll County, Arkansas	0.001
Carroll County, Georgia	0.000
Carroll County, Indiana	0.000
Carroll County, Iowa	0.000
Carroll County, Kentucky	0.000
Carroll County, Maryland	0.000
Carroll County, Mississippi	0.000
Carroll County, New Hampshire	0.000
Carroll County, Ohio	0.000
Carroll County, Tennessee	0.000
Carroll County, Virginia	0.000
Carson City, Nevada	0.001
Carter County, Kentucky	0.000
Carter County, Montana	0.000
Carter County, Oklahoma	0.000
Carter County, Tennessee	0.000
Carteret County, North Carolina	0.000
Carver County, Minnesota	0.000
Cascade County, Montana	0.000
Casey County, Kentucky	0.000
Cass County, Indiana	0.001
Cass County, Iowa	0.000
Cass County, Michigan	0.000
Cass County, Minnesota	0.000
Cass County, Nebraska	0.000

Cass County, North Dakota	0.000
Caswell County, North Carolina	0.000
Catahoula Parish, Louisiana	0.000
Catawba County, North Carolina	0.000
Catoosa County, Georgia	0.000
Cattaraugus County, New York	0.000
Cavalier County, North Dakota	0.000
Cayuga County, New York	0.000
Cecil County, Maryland	0.000
Cedar County, Iowa	0.000
Cedar County, Nebraska	0.000
Centre County, Pennsylvania	0.000
Cerro Gordo County, Iowa	0.000
Chaffee County, Colorado	0.000
Chambers County, Alabama	0.000
Champaign County, Ohio	0.000
Charles City County, Virginia	0.000
Charles County, Maryland	0.000
Charles Mix County, South Dakota	0.000
Charlevoix County, Michigan	0.000
Charlotte County, Florida	0.000
Charlotte County, Virginia	0.000
Charlottesville city, Virginia	0.000
Charlton County, Georgia	0.000
Chase County, Nebraska	0.001

Chatham County, Georgia	0.000
Chatham County, North Carolina	0.000
Chattahoochee County, Georgia	0.001
Chattooga County, Georgia	0.000
Chautauqua County, New York	0.000
Cheatham County, Tennessee	0.000
Cheboygan County, Michigan	0.000
Chelan County, Washington	0.001
Chemung County, New York	0.000
Chenango County, New York	0.000
Cherokee County, Alabama	0.000
Cherokee County, Georgia	0.001
Cherokee County, Iowa	0.000
Cherokee County, North Carolina	0.000
Cherokee County, Oklahoma	0.000
Cherry County, Nebraska	0.000
Chesapeake city, Virginia	0.000
Cheshire County, New Hampshire	0.000
Chester County, Pennsylvania	0.000
Chester County, Tennessee	0.000
Chesterfield County, Virginia	0.000
Cheyenne County, Colorado	0.001
Cheyenne County, Nebraska	0.001
Chickasaw County, Iowa	0.000
Chickasaw County, Mississippi	0.000



Chicot County, Arkansas	0.000
Chilton County, Alabama	0.000
Chippewa County, Michigan	0.000
Chippewa County, Minnesota	0.000
Chippewa County, Wisconsin	0.000
Chisago County, Minnesota	0.000
Chittenden County, Vermont	0.000
Choctaw County, Alabama	0.000
Choctaw County, Mississippi	0.000
Choctaw County, Oklahoma	0.000
Chouteau County, Montana	0.000
Chowan County, North Carolina	0.000
Christian County, Kentucky	0.000
Churchill County, Nevada	0.001
Cimarron County, Oklahoma	0.002
Citrus County, Florida	0.000
Claiborne County, Mississippi	0.000
Claiborne County, Tennessee	0.000
Claiborne Parish, Louisiana	0.000
Clallam County, Washington	0.000
Clare County, Michigan	0.000
Clarion County, Pennsylvania	0.000
Clark County, Arkansas	0.000
Clark County, Indiana	0.000
Clark County, Kentucky	0.000

Clark County, Nevada	0.001
Clark County, Ohio	0.000
Clark County, South Dakota	0.000
Clark County, Washington	0.000
Clark County, Wisconsin	0.000
Clarke County, Alabama	0.000
Clarke County, Georgia	0.000
Clarke County, Iowa	0.000
Clarke County, Mississippi	0.000
Clarke County, Virginia	0.000
Clay County, Alabama	0.000
Clay County, Arkansas	0.000
Clay County, Florida	0.000
Clay County, Georgia	0.000
Clay County, Indiana	0.000
Clay County, Iowa	0.000
Clay County, Kentucky	0.000
Clay County, Minnesota	0.000
Clay County, Mississippi	0.000
Clay County, Nebraska	0.001
Clay County, North Carolina	0.000
Clay County, South Dakota	0.000
Clay County, Tennessee	0.000
Clay County, West Virginia	0.000
Clayton County, Georgia	0.000

Clayton County, Iowa	0.000
Clear Creek County, Colorado	0.000
Clearfield County, Pennsylvania	0.000
Clearwater County, Minnesota	0.000
Cleburne County, Alabama	0.000
Cleburne County, Arkansas	0.000
Clermont County, Ohio	0.000
Cleveland County, Arkansas	0.000
Cleveland County, North Carolina	0.000
Cleveland County, Oklahoma	0.001
Clinch County, Georgia	0.000
Clinton County, Indiana	0.001
Clinton County, Iowa	0.000
Clinton County, Kentucky	0.000
Clinton County, Michigan	0.000
Clinton County, New York	0.000
Clinton County, Ohio	0.000
Clinton County, Pennsylvania	0.000
Coahoma County, Mississippi	0.000
Coal County, Oklahoma	0.000
Cobb County, Georgia	0.000
Cocke County, Tennessee	0.000
Codington County, South Dakota	0.000
Coffee County, Alabama	0.000
Coffee County, Georgia	0.000

Coffee County, Tennessee	0.000
Colbert County, Alabama	0.000
Colfax County, Nebraska	0.003
Collier County, Florida	0.001
Colonial Heights city, Virginia	0.000
Colquitt County, Georgia	0.001
Columbia County, Arkansas	0.000
Columbia County, Florida	0.000
Columbia County, Georgia	0.000
Columbia County, New York	0.000
Columbia County, Pennsylvania	0.000
Columbia County, Washington	0.000
Columbia County, Wisconsin	0.000
Columbiana County, Ohio	0.000
Columbus County, North Carolina	0.000
Comanche County, Oklahoma	0.001
Concordia Parish, Louisiana	0.000
Conecuh County, Alabama	0.000
Conejos County, Colorado	0.002
Converse County, Wyoming	0.001
Conway County, Arkansas	0.000
Cook County, Georgia	0.000
Cook County, Minnesota	0.000
Coos County, New Hampshire	0.000
Coosa County, Alabama	0.000

Copiah County, Mississippi	0.000
Corson County, South Dakota	0.000
Cortland County, New York	0.000
Coshocton County, Ohio	0.000
Costilla County, Colorado	0.024
Cotton County, Oklahoma	0.000
Cottonwood County, Minnesota	0.000
Covington County, Alabama	0.000
Covington County, Mississippi	0.000
Covington city, Virginia	0.000
Coweta County, Georgia	0.000
Cowlitz County, Washington	0.000
Craig County, Oklahoma	0.000
Craig County, Virginia	0.000
Craighead County, Arkansas	0.000
Craven County, North Carolina	0.000
Crawford County, Arkansas	0.000
Crawford County, Georgia	0.000
Crawford County, Indiana	0.000
Crawford County, Iowa	0.001
Crawford County, Michigan	0.000
Crawford County, Ohio	0.000
Crawford County, Pennsylvania	0.000
Crawford County, Wisconsin	0.000
Creek County, Oklahoma	0.000

Crenshaw County, Alabama	0.000
Crisp County, Georgia	0.000
Crittenden County, Arkansas	0.000
Crittenden County, Kentucky	0.000
Crockett County, Tennessee	0.000
Crook County, Wyoming	0.000
Cross County, Arkansas	0.000
Crow Wing County, Minnesota	0.000
Crowley County, Colorado	0.016
Cullman County, Alabama	0.000
Culpeper County, Virginia	0.000
Cumberland County, Kentucky	0.000
Cumberland County, Maine	0.000
Cumberland County, New Jersey	0.001
Cumberland County, North Carolina	0.000
Cumberland County, Pennsylvania	0.000
Cumberland County, Tennessee	0.000
Cumberland County, Virginia	0.000
Cuming County, Nebraska	0.000
Currituck County, North Carolina	0.000
Custer County, Colorado	0.000
Custer County, Montana	0.000
Custer County, Nebraska	0.000
Custer County, Oklahoma	0.001
Custer County, South Dakota	0.000

Cuyahoga County, Ohio	0.000
Dade County, Georgia	0.000
Daggett County, Utah	0.000
Dakota County, Minnesota	0.000
Dakota County, Nebraska	0.002
Dale County, Alabama	0.000
Dallas County, Alabama	0.000
Dallas County, Arkansas	0.000
Dallas County, Iowa	0.000
Dane County, Wisconsin	0.000
Daniels County, Montana	0.000
Danville city, Virginia	0.000
Dare County, North Carolina	0.000
Darke County, Ohio	0.000
Dauphin County, Pennsylvania	0.000
Davidson County, North Carolina	0.000
Davidson County, Tennessee	0.000
Davie County, North Carolina	0.000
Daviess County, Indiana	0.000
Daviess County, Kentucky	0.000
Davis County, Iowa	0.000
Davis County, Utah	0.001
Davison County, South Dakota	0.000
Dawes County, Nebraska	0.000
Dawson County, Georgia	0.000

Dawson County, Montana	0.000
Dawson County, Nebraska	0.002
Day County, South Dakota	0.000
De Soto Parish, Louisiana	0.000
DeKalb County, Alabama	0.001
DeKalb County, Georgia	0.000
DeKalb County, Indiana	0.000
DeKalb County, Tennessee	0.000
DeSoto County, Florida	0.001
DeSoto County, Mississippi	0.000
Dearborn County, Indiana	0.000
Decatur County, Georgia	0.000
Decatur County, Indiana	0.000
Decatur County, Iowa	0.000
Decatur County, Tennessee	0.000
Deer Lodge County, Montana	0.000
Defiance County, Ohio	0.000
Delaware County, Indiana	0.000
Delaware County, Iowa	0.000
Delaware County, New York	0.000
Delaware County, Ohio	0.000
Delaware County, Oklahoma	0.000
Delaware County, Pennsylvania	0.000
Delta County, Colorado	0.001
Delta County, Michigan	0.000



Denver County, Colorado	0.001
Des Moines County, Iowa	0.000
Desha County, Arkansas	0.000
Deuel County, Nebraska	0.000
Deuel County, South Dakota	0.000
Dewey County, Oklahoma	0.001
Dewey County, South Dakota	0.000
Dickenson County, Virginia	0.000
Dickey County, North Dakota	0.000
Dickinson County, Iowa	0.000
Dickinson County, Michigan	0.000
Dickson County, Tennessee	0.000
Dinwiddie County, Virginia	0.000
District of Columbia, District of Columbia	0.000
Divide County, North Dakota	0.000
Dixie County, Florida	0.000
Dixon County, Nebraska	0.001
Doddridge County, West Virginia	0.000
Dodge County, Georgia	0.000
Dodge County, Minnesota	0.000
Dodge County, Nebraska	0.000
Dodge County, Wisconsin	0.000
Dolores County, Colorado	0.000
Dooly County, Georgia	0.000
Door County, Wisconsin	0.000

Dorchester County, Maryland	0.000
Dougherty County, Georgia	0.000
Douglas County, Colorado	0.000
Douglas County, Georgia	0.000
Douglas County, Minnesota	0.000
Douglas County, Nebraska	0.000
Douglas County, Nevada	0.001
Douglas County, South Dakota	0.000
Douglas County, Washington	0.002
Douglas County, Wisconsin	0.000
Drew County, Arkansas	0.000
Dubois County, Indiana	0.000
Dubuque County, Iowa	0.000
Duchesne County, Utah	0.001
Dukes County, Massachusetts	0.000
Dundy County, Nebraska	0.001
Dunn County, North Dakota	0.000
Dunn County, Wisconsin	0.000
Duplin County, North Carolina	0.001
Durham County, North Carolina	0.000
Dutchess County, New York	0.000
Duval County, Florida	0.000
Dyer County, Tennessee	0.000
Eagle County, Colorado	0.001
Early County, Georgia	0.000

East Baton Rouge Parish, Louisiana	0.000
East Carroll Parish, Louisiana	0.000
East Feliciana Parish, Louisiana	0.000
Eaton County, Michigan	0.000
Eau Claire County, Wisconsin	0.000
Echols County, Georgia	0.003
Eddy County, North Dakota	0.000
Edgecombe County, North Carolina	0.000
Edmonson County, Kentucky	0.000
Edmunds County, South Dakota	0.000
Effingham County, Georgia	0.000
El Paso County, Colorado	0.001
Elbert County, Colorado	0.000
Elbert County, Georgia	0.000
Elk County, Pennsylvania	0.000
Elkhart County, Indiana	0.001
Elko County, Nevada	0.003
Elliott County, Kentucky	0.000
Ellis County, Oklahoma	0.001
Elmore County, Alabama	0.000
Emanuel County, Georgia	0.000
Emery County, Utah	0.001
Emmet County, Iowa	0.000
Emmet County, Michigan	0.000
Emmons County, North Dakota	0.000

Emporia city, Virginia	0.000
Erie County, New York	0.000
Erie County, Ohio	0.000
Erie County, Pennsylvania	0.000
Escambia County, Alabama	0.000
Escambia County, Florida	0.000
Esmeralda County, Nevada	0.001
Essex County, Massachusetts	0.001
Essex County, New Jersey	0.001
Essex County, New York	0.000
Essex County, Vermont	0.000
Essex County, Virginia	0.000
Estill County, Kentucky	0.000
Etowah County, Alabama	0.000
Eureka County, Nevada	0.001
Evangeline Parish, Louisiana	0.000
Evans County, Georgia	0.000
Fairfax County, Virginia	0.000
Fairfax city, Virginia	0.001
Fairfield County, Connecticut	0.000
Fairfield County, Ohio	0.000
Fall River County, South Dakota	0.000
Fallon County, Montana	0.000
Falls Church city, Virginia	0.000
Fannin County, Georgia	0.000

Faribault County, Minnesota	0.000
Faulk County, South Dakota	0.000
Faulkner County, Arkansas	0.000
Fauquier County, Virginia	0.000
Fayette County, Alabama	0.000
Fayette County, Georgia	0.000
Fayette County, Indiana	0.000
Fayette County, Iowa	0.000
Fayette County, Kentucky	0.000
Fayette County, Ohio	0.000
Fayette County, Pennsylvania	0.000
Fayette County, Tennessee	0.000
Fayette County, West Virginia	0.000
Fentress County, Tennessee	0.000
Fergus County, Montana	0.000
Ferry County, Washington	0.000
Fillmore County, Minnesota	0.000
Fillmore County, Nebraska	0.000
Flagler County, Florida	0.000
Flathead County, Montana	0.000
Fleming County, Kentucky	0.000
Florence County, Wisconsin	0.000
Floyd County, Georgia	0.000
Floyd County, Indiana	0.000
Floyd County, Iowa	0.000

Floyd County, Kentucky	0.000
Floyd County, Virginia	0.000
Fluvanna County, Virginia	0.000
Fond du Lac County, Wisconsin	0.000
Forest County, Pennsylvania	0.000
Forest County, Wisconsin	0.000
Forrest County, Mississippi	0.000
Forsyth County, Georgia	0.001
Forsyth County, North Carolina	0.000
Foster County, North Dakota	0.000
Fountain County, Indiana	0.000
Franklin County, Alabama	0.001
Franklin County, Arkansas	0.000
Franklin County, Florida	0.000
Franklin County, Georgia	0.000
Franklin County, Indiana	0.000
Franklin County, Iowa	0.000
Franklin County, Kentucky	0.000
Franklin County, Maine	0.000
Franklin County, Massachusetts	0.000
Franklin County, Mississippi	0.000
Franklin County, Nebraska	0.000
Franklin County, New York	0.000
Franklin County, North Carolina	0.000
Franklin County, Ohio	0.000

Franklin County, Pennsylvania	0.000
Franklin County, Tennessee	0.000
Franklin County, Vermont	0.000
Franklin County, Virginia	0.000
Franklin County, Washington	0.003
Franklin Parish, Louisiana	0.000
Franklin city, Virginia	0.000
Frederick County, Maryland	0.000
Frederick County, Virginia	0.000
Fredericksburg city, Virginia	0.000
Freeborn County, Minnesota	0.000
Fremont County, Colorado	0.001
Fremont County, Iowa	0.000
Fremont County, Wyoming	0.000
Frontier County, Nebraska	0.000
Fulton County, Arkansas	0.000
Fulton County, Georgia	0.000
Fulton County, Indiana	0.000
Fulton County, Kentucky	0.000
Fulton County, New York	0.000
Fulton County, Ohio	0.000
Fulton County, Pennsylvania	0.000
Furnas County, Nebraska	0.000
Gadsden County, Florida	0.000
Gage County, Nebraska	0.000

Galax city, Virginia	0.001
Gallatin County, Kentucky	0.000
Gallatin County, Montana	0.000
Gallia County, Ohio	0.000
Garden County, Nebraska	0.000
Garfield County, Colorado	0.001
Garfield County, Montana	0.000
Garfield County, Nebraska	0.000
Garfield County, Oklahoma	0.001
Garfield County, Utah	0.001
Garfield County, Washington	0.000
Garland County, Arkansas	0.000
Garrard County, Kentucky	0.000
Garrett County, Maryland	0.000
Garvin County, Oklahoma	0.000
Gaston County, North Carolina	0.000
Gates County, North Carolina	0.000
Geauga County, Ohio	0.000
Genesee County, Michigan	0.000
Genesee County, New York	0.000
Geneva County, Alabama	0.000
George County, Mississippi	0.000
Gibson County, Indiana	0.000
Gibson County, Tennessee	0.000
Gilchrist County, Florida	0.000



Giles County, Tennessee	0.000
Giles County, Virginia	0.000
Gilmer County, Georgia	0.001
Gilmer County, West Virginia	0.000
Gilpin County, Colorado	0.000
Glacier County, Montana	0.000
Glades County, Florida	0.001
Gladwin County, Michigan	0.000
Glascocock County, Georgia	0.000
Gloucester County, New Jersey	0.000
Gloucester County, Virginia	0.000
Glynn County, Georgia	0.000
Gogebic County, Michigan	0.000
Golden Valley County, Montana	0.000
Golden Valley County, North Dakota	0.000
Goochland County, Virginia	0.000
Goodhue County, Minnesota	0.000
Gordon County, Georgia	0.001
Goshen County, Wyoming	0.001
Gosper County, Nebraska	0.000
Grady County, Georgia	0.000
Grady County, Oklahoma	0.000
Grafton County, New Hampshire	0.000
Graham County, North Carolina	0.000
Grainger County, Tennessee	0.000

Grand County, Colorado	0.000
Grand County, Utah	0.000
Grand Forks County, North Dakota	0.000
Grand Isle County, Vermont	0.000
Grand Traverse County, Michigan	0.000
Granite County, Montana	0.000
Grant County, Arkansas	0.000
Grant County, Indiana	0.000
Grant County, Kentucky	0.000
Grant County, Minnesota	0.000
Grant County, Nebraska	0.000
Grant County, North Dakota	0.000
Grant County, Oklahoma	0.000
Grant County, South Dakota	0.000
Grant County, Washington	0.003
Grant County, West Virginia	0.000
Grant County, Wisconsin	0.000
Grant Parish, Louisiana	0.000
Granville County, North Carolina	0.000
Gratiot County, Michigan	0.000
Graves County, Kentucky	0.000
Grays Harbor County, Washington	0.000
Grayson County, Kentucky	0.000
Grayson County, Virginia	0.000
Greeley County, Nebraska	0.000

Green County, Kentucky	0.000
Green County, Wisconsin	0.000
Green Lake County, Wisconsin	0.000
Greenbrier County, West Virginia	0.000
Greene County, Alabama	0.000
Greene County, Arkansas	0.000
Greene County, Georgia	0.000
Greene County, Indiana	0.000
Greene County, Iowa	0.000
Greene County, Mississippi	0.000
Greene County, New York	0.000
Greene County, North Carolina	0.001
Greene County, Ohio	0.000
Greene County, Pennsylvania	0.000
Greene County, Tennessee	0.000
Greene County, Virginia	0.000
Greensville County, Virginia	0.000
Greenup County, Kentucky	0.000
Greer County, Oklahoma	0.001
Gregory County, South Dakota	0.000
Grenada County, Mississippi	0.000
Griggs County, North Dakota	0.000
Grundy County, Iowa	0.000
Grundy County, Tennessee	0.000
Guernsey County, Ohio	0.000

Guilford County, North Carolina	0.000
Gulf County, Florida	0.000
Gunnison County, Colorado	0.000
Guthrie County, Iowa	0.000
Gwinnett County, Georgia	0.001
Haakon County, South Dakota	0.000
Habersham County, Georgia	0.001
Hale County, Alabama	0.000
Halifax County, North Carolina	0.000
Halifax County, Virginia	0.000
Hall County, Georgia	0.002
Hall County, Nebraska	0.001
Hamblen County, Tennessee	0.001
Hamilton County, Florida	0.000
Hamilton County, Indiana	0.000
Hamilton County, Iowa	0.000
Hamilton County, Nebraska	0.000
Hamilton County, New York	0.000
Hamilton County, Ohio	0.000
Hamilton County, Tennessee	0.000
Hamlin County, South Dakota	0.000
Hampden County, Massachusetts	0.001
Hampshire County, Massachusetts	0.000
Hampshire County, West Virginia	0.000
Hampton city, Virginia	0.000

Hancock County, Georgia	0.000
Hancock County, Indiana	0.000
Hancock County, Iowa	0.000
Hancock County, Kentucky	0.000
Hancock County, Maine	0.000
Hancock County, Mississippi	0.000
Hancock County, Ohio	0.000
Hancock County, Tennessee	0.000
Hancock County, West Virginia	0.000
Hand County, South Dakota	0.000
Hanover County, Virginia	0.000
Hanson County, South Dakota	0.000
Haralson County, Georgia	0.000
Hardee County, Florida	0.002
Hardeman County, Tennessee	0.000
Hardin County, Iowa	0.000
Hardin County, Kentucky	0.000
Hardin County, Ohio	0.000
Hardin County, Tennessee	0.000
Harding County, South Dakota	0.000
Hardy County, West Virginia	0.000
Harford County, Maryland	0.000
Harlan County, Kentucky	0.000
Harlan County, Nebraska	0.000
Harmon County, Oklahoma	0.002

Harnett County, North Carolina	0.001
Harper County, Oklahoma	0.002
Harris County, Georgia	0.000
Harrison County, Indiana	0.000
Harrison County, Iowa	0.000
Harrison County, Kentucky	0.000
Harrison County, Mississippi	0.000
Harrison County, Ohio	0.000
Harrison County, West Virginia	0.000
Harrisonburg city, Virginia	0.002
Hart County, Georgia	0.000
Hart County, Kentucky	0.000
Hartford County, Connecticut	0.000
Haskell County, Oklahoma	0.000
Hawkins County, Tennessee	0.000
Hayes County, Nebraska	0.001
Haywood County, North Carolina	0.000
Haywood County, Tennessee	0.000
Heard County, Georgia	0.000
Hempstead County, Arkansas	0.000
Henderson County, Kentucky	0.000
Henderson County, North Carolina	0.000
Henderson County, Tennessee	0.000
Hendricks County, Indiana	0.000
Hendry County, Florida	0.002

Hennepin County, Minnesota	0.000
Henrico County, Virginia	0.000
Henry County, Alabama	0.000
Henry County, Georgia	0.000
Henry County, Indiana	0.000
Henry County, Iowa	0.000
Henry County, Kentucky	0.000
Henry County, Ohio	0.000
Henry County, Tennessee	0.000
Henry County, Virginia	0.000
Herkimer County, New York	0.000
Hernando County, Florida	0.000
Hertford County, North Carolina	0.000
Hettinger County, North Dakota	0.000
Hickman County, Kentucky	0.000
Hickman County, Tennessee	0.000
Highland County, Ohio	0.000
Highland County, Virginia	0.000
Highlands County, Florida	0.001
Hill County, Montana	0.000
Hillsborough County, Florida	0.001
Hillsborough County, New Hampshire	0.000
Hillsdale County, Michigan	0.000
Hinds County, Mississippi	0.000
Hinsdale County, Colorado	0.000

Hitchcock County, Nebraska	0.000
Hocking County, Ohio	0.000
Hoke County, North Carolina	0.000
Holmes County, Florida	0.000
Holmes County, Mississippi	0.000
Holmes County, Ohio	0.000
Holt County, Nebraska	0.000
Hooker County, Nebraska	0.000
Hopewell city, Virginia	0.000
Hopkins County, Kentucky	0.000
Hot Spring County, Arkansas	0.000
Hot Springs County, Wyoming	0.000
Houghton County, Michigan	0.000
Houston County, Alabama	0.000
Houston County, Georgia	0.000
Houston County, Minnesota	0.000
Houston County, Tennessee	0.000
Howard County, Arkansas	0.000
Howard County, Indiana	0.000
Howard County, Iowa	0.000
Howard County, Maryland	0.000
Howard County, Nebraska	0.000
Hubbard County, Minnesota	0.000
Hudson County, New Jersey	0.001
Huerfano County, Colorado	0.001



Hughes County, Oklahoma	0.000
Hughes County, South Dakota	0.000
Humboldt County, Iowa	0.000
Humboldt County, Nevada	0.002
Humphreys County, Mississippi	0.000
Humphreys County, Tennessee	0.000
Hunterdon County, New Jersey	0.000
Huntingdon County, Pennsylvania	0.000
Huntington County, Indiana	0.000
Huron County, Michigan	0.000
Huron County, Ohio	0.000
Hutchinson County, South Dakota	0.000
Hyde County, North Carolina	0.000
Hyde County, South Dakota	0.000
Iberia Parish, Louisiana	0.000
Iberville Parish, Louisiana	0.000
Ida County, Iowa	0.000
Independence County, Arkansas	0.000
Indian River County, Florida	0.000
Indiana County, Pennsylvania	0.000
Ingham County, Michigan	0.000
Ionia County, Michigan	0.000
Iosco County, Michigan	0.000
Iowa County, Iowa	0.000
Iowa County, Wisconsin	0.000

Iredell County, North Carolina	0.000
Iron County, Michigan	0.000
Iron County, Utah	0.001
Iron County, Wisconsin	0.000
Irwin County, Georgia	0.000
Isabella County, Michigan	0.000
Isanti County, Minnesota	0.000
Island County, Washington	0.000
Isle of Wight County, Virginia	0.000
Issaquena County, Mississippi	0.000
Itasca County, Minnesota	0.000
Itawamba County, Mississippi	0.000
Izard County, Arkansas	0.000
Jackson County, Alabama	0.000
Jackson County, Arkansas	0.000
Jackson County, Colorado	0.001
Jackson County, Florida	0.000
Jackson County, Georgia	0.000
Jackson County, Indiana	0.000
Jackson County, Iowa	0.000
Jackson County, Kentucky	0.000
Jackson County, Michigan	0.000
Jackson County, Minnesota	0.000
Jackson County, Mississippi	0.000
Jackson County, North Carolina	0.000

Jackson County, Ohio	0.000
Jackson County, Oklahoma	0.002
Jackson County, South Dakota	0.000
Jackson County, Tennessee	0.000
Jackson County, West Virginia	0.000
Jackson County, Wisconsin	0.000
Jackson Parish, Louisiana	0.000
James City County, Virginia	0.000
Jasper County, Georgia	0.000
Jasper County, Indiana	0.000
Jasper County, Iowa	0.000
Jasper County, Mississippi	0.000
Jay County, Indiana	0.000
Jeff Davis County, Georgia	0.000
Jefferson County, Alabama	0.000
Jefferson County, Arkansas	0.000
Jefferson County, Colorado	0.000
Jefferson County, Florida	0.000
Jefferson County, Georgia	0.000
Jefferson County, Indiana	0.000
Jefferson County, Iowa	0.000
Jefferson County, Kentucky	0.000
Jefferson County, Mississippi	0.000
Jefferson County, Montana	0.000
Jefferson County, Nebraska	0.000

Jefferson County, New York	0.000
Jefferson County, Ohio	0.000
Jefferson County, Oklahoma	0.001
Jefferson County, Pennsylvania	0.000
Jefferson County, Tennessee	0.000
Jefferson County, Washington	0.000
Jefferson County, West Virginia	0.000
Jefferson County, Wisconsin	0.000
Jefferson Davis County, Mississippi	0.000
Jefferson Davis Parish, Louisiana	0.000
Jefferson Parish, Louisiana	0.000
Jenkins County, Georgia	0.000
Jennings County, Indiana	0.000
Jerauld County, South Dakota	0.000
Jessamine County, Kentucky	0.000
Johnson County, Arkansas	0.001
Johnson County, Georgia	0.000
Johnson County, Indiana	0.000
Johnson County, Iowa	0.000
Johnson County, Kentucky	0.000
Johnson County, Nebraska	0.000
Johnson County, Tennessee	0.000
Johnson County, Wyoming	0.000
Johnston County, North Carolina	0.001
Johnston County, Oklahoma	0.000

Jones County, Georgia	0.000
Jones County, Iowa	0.000
Jones County, Mississippi	0.000
Jones County, North Carolina	0.000
Jones County, South Dakota	0.000
Juab County, Utah	0.001
Judith Basin County, Montana	0.000
Juneau County, Wisconsin	0.000
Juniata County, Pennsylvania	0.000
Kalamazoo County, Michigan	0.000
Kalkaska County, Michigan	0.000
Kanabec County, Minnesota	0.000
Kanawha County, West Virginia	0.000
Kandiyohi County, Minnesota	0.000
Kane County, Utah	0.000
Kay County, Oklahoma	0.000
Kearney County, Nebraska	0.000
Keith County, Nebraska	0.000
Kemper County, Mississippi	0.000
Kennebec County, Maine	0.000
Kenosha County, Wisconsin	0.000
Kent County, Delaware	0.000
Kent County, Maryland	0.000
Kent County, Michigan	0.000
Kent County, Rhode Island	0.000

Kenton County, Kentucky	0.000
Keokuk County, Iowa	0.000
Kewaunee County, Wisconsin	0.000
Keweenaw County, Michigan	0.000
Keya Paha County, Nebraska	0.000
Kidder County, North Dakota	0.000
Kimball County, Nebraska	0.001
King County, Washington	0.000
King George County, Virginia	0.000
King William County, Virginia	0.000
King and Queen County, Virginia	0.000
Kingfisher County, Oklahoma	0.001
Kings County, New York	0.000
Kingsbury County, South Dakota	0.000
Kiowa County, Colorado	0.000
Kiowa County, Oklahoma	0.000
Kit Carson County, Colorado	0.001
Kitsap County, Washington	0.000
Kittitas County, Washington	0.000
Kittson County, Minnesota	0.000
Klickitat County, Washington	0.000
Knott County, Kentucky	0.000
Knox County, Indiana	0.000
Knox County, Kentucky	0.000
Knox County, Maine	0.000

Knox County, Nebraska	0.000
Knox County, Ohio	0.000
Knox County, Tennessee	0.000
Koochiching County, Minnesota	0.000
Kosciusko County, Indiana	0.001
Kossuth County, Iowa	0.000
La Crosse County, Wisconsin	0.000
La Plata County, Colorado	0.000
LaGrange County, Indiana	0.000
LaMoure County, North Dakota	0.000
LaPorte County, Indiana	0.000
LaSalle Parish, Louisiana	0.000
Lac qui Parle County, Minnesota	0.000
Lackawanna County, Pennsylvania	0.000
Lafayette County, Arkansas	0.000
Lafayette County, Florida	0.001
Lafayette County, Mississippi	0.000
Lafayette County, Wisconsin	0.000
Lafayette Parish, Louisiana	0.000
Lafourche Parish, Louisiana	0.000
Lake County, Colorado	0.002
Lake County, Florida	0.001
Lake County, Indiana	0.001
Lake County, Michigan	0.000
Lake County, Minnesota	0.000

Lake County, Montana	0.000
Lake County, Ohio	0.000
Lake County, South Dakota	0.000
Lake County, Tennessee	0.000
Lake of the Woods County, Minnesota	0.000
Lamar County, Alabama	0.000
Lamar County, Georgia	0.000
Lamar County, Mississippi	0.000
Lamoille County, Vermont	0.000
Lancaster County, Nebraska	0.000
Lancaster County, Pennsylvania	0.000
Lancaster County, Virginia	0.000
Lander County, Nevada	0.002
Langlade County, Wisconsin	0.000
Lanier County, Georgia	0.000
Lapeer County, Michigan	0.000
Laramie County, Wyoming	0.001
Larimer County, Colorado	0.000
Larue County, Kentucky	0.000
Las Animas County, Colorado	0.003
Latimer County, Oklahoma	0.000
Lauderdale County, Alabama	0.000
Lauderdale County, Mississippi	0.000
Lauderdale County, Tennessee	0.000
Laurel County, Kentucky	0.000



Laurens County, Georgia	0.000
Lawrence County, Alabama	0.000
Lawrence County, Arkansas	0.000
Lawrence County, Indiana	0.000
Lawrence County, Kentucky	0.000
Lawrence County, Mississippi	0.000
Lawrence County, Ohio	0.000
Lawrence County, Pennsylvania	0.000
Lawrence County, South Dakota	0.000
Lawrence County, Tennessee	0.000
Le Flore County, Oklahoma	0.000
Le Sueur County, Minnesota	0.000
Leake County, Mississippi	0.000
Lebanon County, Pennsylvania	0.000
Lee County, Alabama	0.000
Lee County, Arkansas	0.000
Lee County, Florida	0.001
Lee County, Georgia	0.000
Lee County, Iowa	0.000
Lee County, Kentucky	0.000
Lee County, Mississippi	0.000
Lee County, North Carolina	0.001
Lee County, Virginia	0.000
Leelanau County, Michigan	0.000
Leflore County, Mississippi	0.000

Lehigh County, Pennsylvania	0.001
Lenawee County, Michigan	0.000
Lenoir County, North Carolina	0.000
Leon County, Florida	0.000
Leslie County, Kentucky	0.000
Letcher County, Kentucky	0.000
Levy County, Florida	0.000
Lewis County, Kentucky	0.000
Lewis County, New York	0.000
Lewis County, Tennessee	0.000
Lewis County, Washington	0.000
Lewis County, West Virginia	0.000
Lewis and Clark County, Montana	0.000
Lexington city, Virginia	0.002
Liberty County, Florida	0.000
Liberty County, Georgia	0.001
Liberty County, Montana	0.000
Licking County, Ohio	0.000
Limestone County, Alabama	0.000
Lincoln County, Arkansas	0.000
Lincoln County, Colorado	0.001
Lincoln County, Georgia	0.000
Lincoln County, Kentucky	0.000
Lincoln County, Maine	0.000
Lincoln County, Minnesota	0.000

Lincoln County, Mississippi	0.000
Lincoln County, Montana	0.000
Lincoln County, Nebraska	0.001
Lincoln County, Nevada	0.001
Lincoln County, North Carolina	0.000
Lincoln County, Oklahoma	0.000
Lincoln County, South Dakota	0.000
Lincoln County, Tennessee	0.000
Lincoln County, Washington	0.000
Lincoln County, West Virginia	0.000
Lincoln County, Wisconsin	0.000
Lincoln County, Wyoming	0.000
Lincoln Parish, Louisiana	0.000
Linn County, Iowa	0.000
Litchfield County, Connecticut	0.000
Little River County, Arkansas	0.000
Livingston County, Kentucky	0.000
Livingston County, Michigan	0.000
Livingston County, New York	0.000
Livingston Parish, Louisiana	0.000
Logan County, Arkansas	0.000
Logan County, Colorado	0.001
Logan County, Kentucky	0.000
Logan County, Nebraska	0.000
Logan County, North Dakota	0.000

Logan County, Ohio	0.000
Logan County, Oklahoma	0.000
Logan County, West Virginia	0.000
Long County, Georgia	0.001
Lonoke County, Arkansas	0.000
Lorain County, Ohio	0.000
Loudon County, Tennessee	0.000
Loudoun County, Virginia	0.000
Louisa County, Iowa	0.001
Louisa County, Virginia	0.000
Loup County, Nebraska	0.000
Love County, Oklahoma	0.001
Lowndes County, Alabama	0.000
Lowndes County, Georgia	0.000
Lowndes County, Mississippi	0.000
Lucas County, Iowa	0.000
Lucas County, Ohio	0.000
Luce County, Michigan	0.000
Lumpkin County, Georgia	0.000
Lunenburg County, Virginia	0.000
Luzerne County, Pennsylvania	0.000
Lycoming County, Pennsylvania	0.000
Lyman County, South Dakota	0.000
Lynchburg city, Virginia	0.000
Lyon County, Iowa	0.000

Lyon County, Kentucky	0.000
Lyon County, Minnesota	0.000
Lyon County, Nevada	0.001
Mackinac County, Michigan	0.000
Macomb County, Michigan	0.000
Macon County, Alabama	0.000
Macon County, Georgia	0.000
Macon County, North Carolina	0.000
Macon County, Tennessee	0.000
Madison County, Alabama	0.000
Madison County, Arkansas	0.000
Madison County, Florida	0.000
Madison County, Georgia	0.000
Madison County, Indiana	0.000
Madison County, Iowa	0.000
Madison County, Kentucky	0.000
Madison County, Mississippi	0.000
Madison County, Montana	0.000
Madison County, Nebraska	0.001
Madison County, New York	0.000
Madison County, North Carolina	0.000
Madison County, Ohio	0.000
Madison County, Tennessee	0.000
Madison County, Virginia	0.000
Madison Parish, Louisiana	0.000

Magoffin County, Kentucky	0.000
Mahaska County, Iowa	0.000
Mahnomen County, Minnesota	0.000
Mahoning County, Ohio	0.000
Major County, Oklahoma	0.001
Manassas Park city, Virginia	0.001
Manassas city, Virginia	0.001
Manatee County, Florida	0.001
Manistee County, Michigan	0.000
Manitowoc County, Wisconsin	0.000
Marathon County, Wisconsin	0.000
Marengo County, Alabama	0.000
Marinette County, Wisconsin	0.000
Marion County, Alabama	0.000
Marion County, Arkansas	0.000
Marion County, Florida	0.000
Marion County, Georgia	0.000
Marion County, Indiana	0.000
Marion County, Iowa	0.000
Marion County, Kentucky	0.000
Marion County, Mississippi	0.000
Marion County, Ohio	0.000
Marion County, Tennessee	0.000
Marion County, West Virginia	0.000
Marquette County, Michigan	0.000

Marquette County, Wisconsin	0.000
Marshall County, Alabama	0.001
Marshall County, Indiana	0.000
Marshall County, Iowa	0.001
Marshall County, Kentucky	0.000
Marshall County, Minnesota	0.000
Marshall County, Mississippi	0.000
Marshall County, Oklahoma	0.001
Marshall County, South Dakota	0.000
Marshall County, Tennessee	0.000
Marshall County, West Virginia	0.000
Martin County, Florida	0.001
Martin County, Indiana	0.000
Martin County, Kentucky	0.000
Martin County, Minnesota	0.000
Martin County, North Carolina	0.000
Martinsville city, Virginia	0.000
Mason County, Kentucky	0.000
Mason County, Michigan	0.000
Mason County, Washington	0.000
Mason County, West Virginia	0.000
Mathews County, Virginia	0.000
Maury County, Tennessee	0.000
Mayes County, Oklahoma	0.000
McClain County, Oklahoma	0.001

McCone County, Montana	0.000
McCook County, South Dakota	0.000
McCracken County, Kentucky	0.000
McCreary County, Kentucky	0.000
McCurtain County, Oklahoma	0.000
McDowell County, North Carolina	0.000
McDowell County, West Virginia	0.000
McDuffie County, Georgia	0.000
McHenry County, North Dakota	0.000
McIntosh County, Georgia	0.000
McIntosh County, North Dakota	0.000
McIntosh County, Oklahoma	0.000
McKean County, Pennsylvania	0.000
McKenzie County, North Dakota	0.000
McLean County, Kentucky	0.000
McLean County, North Dakota	0.000
McLeod County, Minnesota	0.000
McMinn County, Tennessee	0.000
McNairy County, Tennessee	0.000
McPherson County, Nebraska	0.000
McPherson County, South Dakota	0.000
Meade County, Kentucky	0.000
Meade County, South Dakota	0.000
Meagher County, Montana	0.000
Mecklenburg County, North Carolina	0.000



Mecklenburg County, Virginia	0.000
Mecosta County, Michigan	0.000
Medina County, Ohio	0.000
Meeker County, Minnesota	0.000
Meigs County, Ohio	0.000
Meigs County, Tennessee	0.000
Mellette County, South Dakota	0.000
Menifee County, Kentucky	0.000
Menominee County, Michigan	0.000
Menominee County, Wisconsin	0.000
Mercer County, Kentucky	0.000
Mercer County, New Jersey	0.000
Mercer County, North Dakota	0.000
Mercer County, Ohio	0.000
Mercer County, Pennsylvania	0.000
Mercer County, West Virginia	0.000
Meriwether County, Georgia	0.000
Merrick County, Nebraska	0.000
Merrimack County, New Hampshire	0.000
Mesa County, Colorado	0.001
Metcalf County, Kentucky	0.000
Miami County, Indiana	0.000
Miami County, Ohio	0.000
Miami-Dade County, Florida	0.000
Middlesex County, Connecticut	0.000

Middlesex County, Massachusetts	0.000
Middlesex County, New Jersey	0.001
Middlesex County, Virginia	0.000
Midland County, Michigan	0.000
Mifflin County, Pennsylvania	0.000
Millard County, Utah	0.002
Mille Lacs County, Minnesota	0.000
Miller County, Arkansas	0.000
Miller County, Georgia	0.000
Mills County, Iowa	0.000
Milwaukee County, Wisconsin	0.000
Miner County, South Dakota	0.000
Mineral County, Colorado	0.000
Mineral County, Montana	0.000
Mineral County, Nevada	0.000
Mineral County, West Virginia	0.000
Mingo County, West Virginia	0.000
Minnehaha County, South Dakota	0.000
Missaukee County, Michigan	0.000
Mississippi County, Arkansas	0.000
Missoula County, Montana	0.000
Mitchell County, Georgia	0.000
Mitchell County, Iowa	0.000
Mitchell County, North Carolina	0.000
Mobile County, Alabama	0.000

Moffat County, Colorado	0.001
Monmouth County, New Jersey	0.000
Monona County, Iowa	0.000
Monongalia County, West Virginia	0.000
Monroe County, Alabama	0.000
Monroe County, Arkansas	0.000
Monroe County, Florida	0.001
Monroe County, Georgia	0.000
Monroe County, Indiana	0.000
Monroe County, Iowa	0.000
Monroe County, Kentucky	0.000
Monroe County, Michigan	0.000
Monroe County, Mississippi	0.000
Monroe County, New York	0.000
Monroe County, Ohio	0.000
Monroe County, Pennsylvania	0.001
Monroe County, Tennessee	0.000
Monroe County, West Virginia	0.000
Monroe County, Wisconsin	0.000
Montcalm County, Michigan	0.000
Montezuma County, Colorado	0.001
Montgomery County, Alabama	0.000
Montgomery County, Arkansas	0.000
Montgomery County, Georgia	0.000
Montgomery County, Indiana	0.000

Montgomery County, Iowa	0.000
Montgomery County, Kentucky	0.000
Montgomery County, Maryland	0.000
Montgomery County, Mississippi	0.000
Montgomery County, New York	0.000
Montgomery County, North Carolina	0.001
Montgomery County, Ohio	0.000
Montgomery County, Pennsylvania	0.000
Montgomery County, Tennessee	0.000
Montgomery County, Virginia	0.000
Montmorency County, Michigan	0.000
Montour County, Pennsylvania	0.000
Montrose County, Colorado	0.001
Moody County, South Dakota	0.000
Moore County, North Carolina	0.000
Moore County, Tennessee	0.000
Morehouse Parish, Louisiana	0.000
Morgan County, Alabama	0.000
Morgan County, Colorado	0.002
Morgan County, Georgia	0.000
Morgan County, Indiana	0.000
Morgan County, Kentucky	0.000
Morgan County, Ohio	0.000
Morgan County, Tennessee	0.000
Morgan County, Utah	0.000

Morgan County, West Virginia	0.000
Morrill County, Nebraska	0.001
Morris County, New Jersey	0.000
Morrison County, Minnesota	0.000
Morrow County, Ohio	0.000
Morton County, North Dakota	0.000
Mountrail County, North Dakota	0.000
Mower County, Minnesota	0.000
Muhlenberg County, Kentucky	0.000
Murray County, Georgia	0.001
Murray County, Minnesota	0.000
Murray County, Oklahoma	0.000
Muscatine County, Iowa	0.001
Muscogee County, Georgia	0.000
Muskegon County, Michigan	0.000
Muskingum County, Ohio	0.000
Muskogee County, Oklahoma	0.000
Musselshell County, Montana	0.000
Nance County, Nebraska	0.000
Nantucket County, Massachusetts	0.000
Nash County, North Carolina	0.000
Nassau County, Florida	0.000
Nassau County, New York	0.000
Natchitoches Parish, Louisiana	0.000
Natrona County, Wyoming	0.001

Nelson County, Kentucky	0.000
Nelson County, North Dakota	0.000
Nelson County, Virginia	0.000
Nemaha County, Nebraska	0.000
Neshoba County, Mississippi	0.000
Nevada County, Arkansas	0.000
New Castle County, Delaware	0.000
New Hanover County, North Carolina	0.000
New Haven County, Connecticut	0.000
New Kent County, Virginia	0.000
New London County, Connecticut	0.000
New York County, New York	0.001
Newaygo County, Michigan	0.000
Newport County, Rhode Island	0.000
Newport News city, Virginia	0.000
Newton County, Arkansas	0.000
Newton County, Georgia	0.000
Newton County, Indiana	0.000
Newton County, Mississippi	0.000
Niagara County, New York	0.000
Nicholas County, Kentucky	0.000
Nicholas County, West Virginia	0.000
Nicollet County, Minnesota	0.000
Niobrara County, Wyoming	0.000
Noble County, Indiana	0.001

Noble County, Ohio	0.000
Noble County, Oklahoma	0.000
Nobles County, Minnesota	0.001
Norfolk County, Massachusetts	0.000
Norfolk city, Virginia	0.000
Norman County, Minnesota	0.000
Northampton County, North Carolina	0.000
Northampton County, Pennsylvania	0.000
Northampton County, Virginia	0.000
Northumberland County, Pennsylvania	0.000
Northumberland County, Virginia	0.000
Norton city, Virginia	0.000
Nottoway County, Virginia	0.000
Nowata County, Oklahoma	0.000
Noxubee County, Mississippi	0.000
Nuckolls County, Nebraska	0.000
Nye County, Nevada	0.001
O'Brien County, Iowa	0.000
Oakland County, Michigan	0.000
Obion County, Tennessee	0.000
Ocean County, New Jersey	0.000
Oceana County, Michigan	0.001
Oconee County, Georgia	0.000
Oconto County, Wisconsin	0.000
Ogemaw County, Michigan	0.000

Oglethorpe County, Georgia	0.000
Ohio County, Indiana	0.000
Ohio County, Kentucky	0.000
Ohio County, West Virginia	0.000
Okaloosa County, Florida	0.000
Okanogan County, Washington	0.001
Okeechobee County, Florida	0.001
Okfuskee County, Oklahoma	0.000
Oklahoma County, Oklahoma	0.001
Okmulgee County, Oklahoma	0.000
Oktibbeha County, Mississippi	0.000
Oldham County, Kentucky	0.000
Oliver County, North Dakota	0.000
Olmsted County, Minnesota	0.000
Oneida County, New York	0.000
Oneida County, Wisconsin	0.000
Onondaga County, New York	0.000
Onslow County, North Carolina	0.001
Ontario County, New York	0.000
Ontonagon County, Michigan	0.000
Orange County, Florida	0.001
Orange County, Indiana	0.000
Orange County, New York	0.001
Orange County, North Carolina	0.000
Orange County, Vermont	0.000



Orange County, Virginia	0.000
Orleans County, New York	0.000
Orleans County, Vermont	0.000
Orleans Parish, Louisiana	0.000
Osage County, Oklahoma	0.000
Osceola County, Florida	0.002
Osceola County, Iowa	0.000
Osceola County, Michigan	0.000
Oscoda County, Michigan	0.000
Oswego County, New York	0.000
Otero County, Colorado	0.002
Otoe County, Nebraska	0.000
Otsego County, Michigan	0.000
Otsego County, New York	0.000
Ottawa County, Michigan	0.000
Ottawa County, Ohio	0.000
Ottawa County, Oklahoma	0.000
Otter Tail County, Minnesota	0.000
Ouachita County, Arkansas	0.000
Ouachita Parish, Louisiana	0.000
Ouray County, Colorado	0.000
Outagamie County, Wisconsin	0.000
Overton County, Tennessee	0.000
Owen County, Indiana	0.000
Owen County, Kentucky	0.000

Owsley County, Kentucky	0.000
Oxford County, Maine	0.000
Ozaukee County, Wisconsin	0.000
Pacific County, Washington	0.000
Page County, Iowa	0.000
Page County, Virginia	0.000
Palm Beach County, Florida	0.001
Palo Alto County, Iowa	0.000
Pamlico County, North Carolina	0.000
Panola County, Mississippi	0.000
Park County, Colorado	0.000
Park County, Montana	0.000
Park County, Wyoming	0.000
Parke County, Indiana	0.000
Pasco County, Florida	0.000
Pasquotank County, North Carolina	0.000
Passaic County, New Jersey	0.001
Patrick County, Virginia	0.000
Paulding County, Georgia	0.000
Paulding County, Ohio	0.000
Pawnee County, Nebraska	0.000
Pawnee County, Oklahoma	0.000
Payne County, Oklahoma	0.000
Peach County, Georgia	0.000
Pearl River County, Mississippi	0.000

Pembina County, North Dakota	0.000
Pend Oreille County, Washington	0.000
Pender County, North Carolina	0.000
Pendleton County, Kentucky	0.000
Pendleton County, West Virginia	0.000
Pennington County, Minnesota	0.000
Pennington County, South Dakota	0.000
Penobscot County, Maine	0.000
Pepin County, Wisconsin	0.000
Perkins County, Nebraska	0.001
Perkins County, South Dakota	0.000
Perquimans County, North Carolina	0.000
Perry County, Alabama	0.000
Perry County, Arkansas	0.000
Perry County, Indiana	0.000
Perry County, Kentucky	0.000
Perry County, Mississippi	0.000
Perry County, Ohio	0.000
Perry County, Pennsylvania	0.000
Perry County, Tennessee	0.000
Pershing County, Nevada	0.001
Person County, North Carolina	0.000
Petersburg city, Virginia	0.000
Petroleum County, Montana	0.000
Phelps County, Nebraska	0.001

Philadelphia County, Pennsylvania	0.000
Phillips County, Arkansas	0.000
Phillips County, Colorado	0.001
Phillips County, Montana	0.000
Pickaway County, Ohio	0.000
Pickens County, Alabama	0.000
Pickens County, Georgia	0.000
Pickett County, Tennessee	0.000
Pierce County, Georgia	0.000
Pierce County, Nebraska	0.000
Pierce County, North Dakota	0.000
Pierce County, Washington	0.000
Pierce County, Wisconsin	0.000
Pike County, Alabama	0.000
Pike County, Arkansas	0.001
Pike County, Georgia	0.000
Pike County, Indiana	0.000
Pike County, Kentucky	0.000
Pike County, Mississippi	0.000
Pike County, Ohio	0.000
Pike County, Pennsylvania	0.000
Pine County, Minnesota	0.000
Pinellas County, Florida	0.000
Pipestone County, Minnesota	0.000
Piscataquis County, Maine	0.000

Pitkin County, Colorado	0.000
Pitt County, North Carolina	0.000
Pittsburg County, Oklahoma	0.000
Pittsylvania County, Virginia	0.000
Piute County, Utah	0.001
Plaquemines Parish, Louisiana	0.000
Platte County, Nebraska	0.001
Platte County, Wyoming	0.000
Pleasants County, West Virginia	0.000
Plymouth County, Iowa	0.000
Plymouth County, Massachusetts	0.000
Pocahontas County, Iowa	0.000
Pocahontas County, West Virginia	0.000
Poinsett County, Arkansas	0.000
Pointe Coupee Parish, Louisiana	0.000
Polk County, Arkansas	0.000
Polk County, Florida	0.001
Polk County, Georgia	0.001
Polk County, Iowa	0.000
Polk County, Minnesota	0.000
Polk County, Nebraska	0.000
Polk County, North Carolina	0.000
Polk County, Tennessee	0.000
Polk County, Wisconsin	0.000
Pondera County, Montana	0.000

Pontotoc County, Mississippi	0.000
Pontotoc County, Oklahoma	0.000
Pope County, Arkansas	0.000
Pope County, Minnesota	0.000
Poquoson city, Virginia	0.000
Portage County, Ohio	0.000
Portage County, Wisconsin	0.000
Porter County, Indiana	0.000
Portsmouth city, Virginia	0.000
Posey County, Indiana	0.000
Pottawatomie County, Oklahoma	0.000
Pottawattamie County, Iowa	0.000
Potter County, Pennsylvania	0.000
Potter County, South Dakota	0.000
Powder River County, Montana	0.000
Powell County, Kentucky	0.000
Powell County, Montana	0.000
Poweshiek County, Iowa	0.000
Powhatan County, Virginia	0.000
Prairie County, Arkansas	0.000
Prairie County, Montana	0.000
Preble County, Ohio	0.000
Prentiss County, Mississippi	0.000
Presque Isle County, Michigan	0.000
Preston County, West Virginia	0.000

Price County, Wisconsin	0.000
Prince Edward County, Virginia	0.000
Prince George County, Virginia	0.000
Prince George's County, Maryland	0.000
Prince William County, Virginia	0.001
Providence County, Rhode Island	0.001
Prowers County, Colorado	0.003
Pueblo County, Colorado	0.002
Pulaski County, Arkansas	0.000
Pulaski County, Georgia	0.000
Pulaski County, Indiana	0.000
Pulaski County, Kentucky	0.000
Pulaski County, Virginia	0.000
Pushmataha County, Oklahoma	0.000
Putnam County, Florida	0.000
Putnam County, Georgia	0.000
Putnam County, Indiana	0.000
Putnam County, New York	0.000
Putnam County, Ohio	0.000
Putnam County, Tennessee	0.000
Putnam County, West Virginia	0.000
Queen Anne's County, Maryland	0.000
Queens County, New York	0.001
Quitman County, Georgia	0.000
Quitman County, Mississippi	0.000

Rabun County, Georgia	0.000
Racine County, Wisconsin	0.000
Radford city, Virginia	0.000
Raleigh County, West Virginia	0.000
Ramsey County, Minnesota	0.000
Ramsey County, North Dakota	0.000
Randolph County, Alabama	0.000
Randolph County, Arkansas	0.000
Randolph County, Georgia	0.000
Randolph County, Indiana	0.000
Randolph County, North Carolina	0.001
Randolph County, West Virginia	0.000
Rankin County, Mississippi	0.000
Ransom County, North Dakota	0.000
Rapides Parish, Louisiana	0.000
Rappahannock County, Virginia	0.000
Ravalli County, Montana	0.000
Red Lake County, Minnesota	0.000
Red River Parish, Louisiana	0.000
Red Willow County, Nebraska	0.000
Redwood County, Minnesota	0.000
Rensselaer County, New York	0.000
Renville County, Minnesota	0.000
Renville County, North Dakota	0.000
Rhea County, Tennessee	0.000



Rice County, Minnesota	0.000
Rich County, Utah	0.001
Richardson County, Nebraska	0.000
Richland County, Montana	0.000
Richland County, North Dakota	0.000
Richland County, Ohio	0.000
Richland County, Wisconsin	0.000
Richland Parish, Louisiana	0.000
Richmond County, Georgia	0.000
Richmond County, New York	0.001
Richmond County, North Carolina	0.000
Richmond County, Virginia	0.000
Richmond city, Virginia	0.000
Ringgold County, Iowa	0.000
Rio Blanco County, Colorado	0.001
Rio Grande County, Colorado	0.002
Ripley County, Indiana	0.000
Ritchie County, West Virginia	0.000
Roane County, Tennessee	0.000
Roane County, West Virginia	0.000
Roanoke County, Virginia	0.000
Roanoke city, Virginia	0.000
Roberts County, South Dakota	0.000
Robertson County, Kentucky	0.000
Robertson County, Tennessee	0.000

Robeson County, North Carolina	0.000
Rock County, Minnesota	0.000
Rock County, Nebraska	0.000
Rock County, Wisconsin	0.000
Rockbridge County, Virginia	0.000
Rockcastle County, Kentucky	0.000
Rockdale County, Georgia	0.000
Rockingham County, New Hampshire	0.000
Rockingham County, North Carolina	0.000
Rockingham County, Virginia	0.000
Rockland County, New York	0.001
Roger Mills County, Oklahoma	0.001
Rogers County, Oklahoma	0.000
Rolette County, North Dakota	0.000
Roosevelt County, Montana	0.000
Roscommon County, Michigan	0.000
Roseau County, Minnesota	0.000
Rosebud County, Montana	0.000
Ross County, Ohio	0.000
Routt County, Colorado	0.000
Rowan County, Kentucky	0.000
Rowan County, North Carolina	0.000
Rush County, Indiana	0.000
Rusk County, Wisconsin	0.000
Russell County, Alabama	0.000

Russell County, Kentucky	0.000
Russell County, Virginia	0.000
Rutherford County, North Carolina	0.000
Rutherford County, Tennessee	0.000
Rutland County, Vermont	0.000
Sabine Parish, Louisiana	0.000
Sac County, Iowa	0.000
Sagadahoc County, Maine	0.000
Saginaw County, Michigan	0.000
Saguache County, Colorado	0.001
Salem County, New Jersey	0.000
Salem city, Virginia	0.000
Saline County, Arkansas	0.000
Saline County, Nebraska	0.001
Salt Lake County, Utah	0.001
Sampson County, North Carolina	0.001
San Juan County, Colorado	0.000
San Juan County, Utah	0.000
San Juan County, Washington	0.000
San Miguel County, Colorado	0.000
Sanborn County, South Dakota	0.000
Sanders County, Montana	0.000
Sandusky County, Ohio	0.000
Sanilac County, Michigan	0.000
Sanpete County, Utah	0.089

Santa Rosa County, Florida	0.000
Sarasota County, Florida	0.000
Saratoga County, New York	0.000
Sargent County, North Dakota	0.000
Sarpy County, Nebraska	0.000
Sauk County, Wisconsin	0.000
Saunders County, Nebraska	0.000
Sawyer County, Wisconsin	0.000
Schenectady County, New York	0.000
Schley County, Georgia	0.000
Schoharie County, New York	0.000
Schoolcraft County, Michigan	0.000
Schuyler County, New York	0.000
Schuylkill County, Pennsylvania	0.000
Scioto County, Ohio	0.000
Scotland County, North Carolina	0.000
Scott County, Arkansas	0.000
Scott County, Indiana	0.000
Scott County, Iowa	0.000
Scott County, Kentucky	0.000
Scott County, Minnesota	0.000
Scott County, Mississippi	0.000
Scott County, Tennessee	0.000
Scott County, Virginia	0.000
Scotts Bluff County, Nebraska	0.001

Screven County, Georgia	0.000
Searcy County, Arkansas	0.000
Sebastian County, Arkansas	0.001
Sedgwick County, Colorado	0.001
Seminole County, Florida	0.001
Seminole County, Georgia	0.000
Seminole County, Oklahoma	0.000
Seneca County, New York	0.000
Seneca County, Ohio	0.000
Sequatchie County, Tennessee	0.000
Sequoyah County, Oklahoma	0.000
Sevier County, Arkansas	0.002
Sevier County, Tennessee	0.000
Sevier County, Utah	0.001
Seward County, Nebraska	0.000
Sharkey County, Mississippi	0.000
Sharp County, Arkansas	0.000
Shawano County, Wisconsin	0.000
Sheboygan County, Wisconsin	0.000
Shelby County, Alabama	0.000
Shelby County, Indiana	0.000
Shelby County, Iowa	0.000
Shelby County, Kentucky	0.000
Shelby County, Ohio	0.000
Shelby County, Tennessee	0.000

Shenandoah County, Virginia	0.000
Sherburne County, Minnesota	0.000
Sheridan County, Montana	0.000
Sheridan County, Nebraska	0.000
Sheridan County, North Dakota	0.000
Sheridan County, Wyoming	0.000
Sherman County, Nebraska	0.000
Shiawassee County, Michigan	0.000
Sibley County, Minnesota	0.000
Silver Bow County, Montana	0.000
Simpson County, Kentucky	0.000
Simpson County, Mississippi	0.000
Sioux County, Iowa	0.001
Sioux County, Nebraska	0.000
Sioux County, North Dakota	0.000
Skagit County, Washington	0.001
Skamania County, Washington	0.000
Slope County, North Dakota	0.000
Smith County, Mississippi	0.000
Smith County, Tennessee	0.000
Smyth County, Virginia	0.000
Snohomish County, Washington	0.000
Snyder County, Pennsylvania	0.000
Somerset County, Maine	0.000
Somerset County, Maryland	0.000

Somerset County, New Jersey	0.000
Somerset County, Pennsylvania	0.000
Southampton County, Virginia	0.000
Spalding County, Georgia	0.000
Spencer County, Indiana	0.000
Spencer County, Kentucky	0.000
Spink County, South Dakota	0.000
Spokane County, Washington	0.000
Spotsylvania County, Virginia	0.000
St. Bernard Parish, Louisiana	0.000
St. Charles Parish, Louisiana	0.000
St. Clair County, Alabama	0.000
St. Clair County, Michigan	0.000
St. Croix County, Wisconsin	0.000
St. Francis County, Arkansas	0.000
St. Helena Parish, Louisiana	0.000
St. James Parish, Louisiana	0.000
St. John the Baptist Parish, Louisiana	0.000
St. Johns County, Florida	0.000
St. Joseph County, Indiana	0.000
St. Joseph County, Michigan	0.000
St. Landry Parish, Louisiana	0.000
St. Lawrence County, New York	0.000
St. Louis County, Minnesota	0.000
St. Lucie County, Florida	0.001

St. Martin Parish, Louisiana	0.000
St. Mary Parish, Louisiana	0.000
St. Mary's County, Maryland	0.000
St. Tammany Parish, Louisiana	0.000
Stafford County, Virginia	0.000
Stanley County, South Dakota	0.000
Stanly County, North Carolina	0.000
Stanton County, Nebraska	0.000
Stark County, North Dakota	0.000
Stark County, Ohio	0.000
Starke County, Indiana	0.000
Staunton city, Virginia	0.000
Stearns County, Minnesota	0.000
Steele County, Minnesota	0.000
Steele County, North Dakota	0.000
Stephens County, Georgia	0.000
Stephens County, Oklahoma	0.000
Steuben County, Indiana	0.000
Steuben County, New York	0.000
Stevens County, Minnesota	0.000
Stevens County, Washington	0.000
Stewart County, Georgia	0.000
Stewart County, Tennessee	0.000
Stillwater County, Montana	0.000
Stokes County, North Carolina	0.000



Stone County, Arkansas	0.000
Stone County, Mississippi	0.000
Storey County, Nevada	0.000
Story County, Iowa	0.000
Strafford County, New Hampshire	0.000
Stutsman County, North Dakota	0.000
Sublette County, Wyoming	0.001
Suffolk County, Massachusetts	0.001
Suffolk County, New York	0.001
Suffolk city, Virginia	0.000
Sullivan County, Indiana	0.000
Sullivan County, New Hampshire	0.000
Sullivan County, New York	0.000
Sullivan County, Pennsylvania	0.000
Sullivan County, Tennessee	0.000
Sully County, South Dakota	0.000
Summers County, West Virginia	0.000
Summit County, Colorado	0.000
Summit County, Ohio	0.000
Summit County, Utah	0.000
Sumner County, Tennessee	0.000
Sumter County, Alabama	0.000
Sumter County, Florida	0.000
Sumter County, Georgia	0.000
Sunflower County, Mississippi	0.000

Surry County, North Carolina	0.001
Surry County, Virginia	0.000
Susquehanna County, Pennsylvania	0.000
Sussex County, Delaware	0.000
Sussex County, New Jersey	0.000
Sussex County, Virginia	0.000
Suwannee County, Florida	0.000
Swain County, North Carolina	0.000
Sweet Grass County, Montana	0.000
Sweetwater County, Wyoming	0.001
Swift County, Minnesota	0.000
Switzerland County, Indiana	0.000
Talbot County, Georgia	0.000
Talbot County, Maryland	0.000
Taliaferro County, Georgia	0.000
Talladega County, Alabama	0.000
Tallahatchie County, Mississippi	0.000
Tallapoosa County, Alabama	0.000
Tama County, Iowa	0.000
Tangipahoa Parish, Louisiana	0.000
Tate County, Mississippi	0.000
Tattnall County, Georgia	0.000
Taylor County, Florida	0.000
Taylor County, Georgia	0.000
Taylor County, Iowa	0.000

Taylor County, Kentucky	0.000
Taylor County, West Virginia	0.000
Taylor County, Wisconsin	0.000
Tazewell County, Virginia	0.000
Telfair County, Georgia	0.000
Teller County, Colorado	0.000
Tensas Parish, Louisiana	0.000
Terrebonne Parish, Louisiana	0.000
Terrell County, Georgia	0.000
Teton County, Montana	0.000
Teton County, Wyoming	0.000
Texas County, Oklahoma	0.015
Thayer County, Nebraska	0.000
Thomas County, Georgia	0.000
Thomas County, Nebraska	0.005
Thurston County, Nebraska	0.000
Thurston County, Washington	0.000
Tift County, Georgia	0.000
Tillman County, Oklahoma	0.001
Tioga County, New York	0.000
Tioga County, Pennsylvania	0.000
Tippah County, Mississippi	0.000
Tippecanoe County, Indiana	0.000
Tipton County, Indiana	0.000
Tipton County, Tennessee	0.000

Tishomingo County, Mississippi	0.000
Todd County, Kentucky	0.000
Todd County, Minnesota	0.000
Todd County, South Dakota	0.000
Tolland County, Connecticut	0.000
Tompkins County, New York	0.000
Tooele County, Utah	0.001
Toole County, Montana	0.000
Toombs County, Georgia	0.000
Towner County, North Dakota	0.000
Towns County, Georgia	0.000
Traill County, North Dakota	0.000
Transylvania County, North Carolina	0.000
Traverse County, Minnesota	0.000
Treasure County, Montana	0.000
Trempealeau County, Wisconsin	0.000
Treutlen County, Georgia	0.000
Trigg County, Kentucky	0.000
Trimble County, Kentucky	0.000
Tripp County, South Dakota	0.000
Troup County, Georgia	0.000
Trousdale County, Tennessee	0.000
Trumbull County, Ohio	0.000
Tucker County, West Virginia	0.000
Tulsa County, Oklahoma	0.001

Tunica County, Mississippi	0.000
Turner County, Georgia	0.000
Turner County, South Dakota	0.000
Tuscaloosa County, Alabama	0.000
Tuscarawas County, Ohio	0.000
Tuscola County, Michigan	0.000
Twiggs County, Georgia	0.000
Tyler County, West Virginia	0.000
Tyrrell County, North Carolina	0.000
Uinta County, Wyoming	0.001
Uintah County, Utah	0.001
Ulster County, New York	0.000
Unicoi County, Tennessee	0.000
Union County, Arkansas	0.000
Union County, Florida	0.000
Union County, Georgia	0.000
Union County, Indiana	0.000
Union County, Iowa	0.000
Union County, Kentucky	0.000
Union County, Mississippi	0.000
Union County, New Jersey	0.001
Union County, North Carolina	0.000
Union County, Ohio	0.000
Union County, Pennsylvania	0.000
Union County, South Dakota	0.000

Union County, Tennessee	0.000
Union Parish, Louisiana	0.000
Upshur County, West Virginia	0.000
Upson County, Georgia	0.000
Utah County, Utah	0.002
Valley County, Montana	0.000
Valley County, Nebraska	0.000
Van Buren County, Arkansas	0.000
Van Buren County, Iowa	0.000
Van Buren County, Michigan	0.000
Van Buren County, Tennessee	0.000
Van Wert County, Ohio	0.000
Vance County, North Carolina	0.000
Vanderburgh County, Indiana	0.000
Venango County, Pennsylvania	0.000
Vermilion Parish, Louisiana	0.000
Vermillion County, Indiana	0.000
Vernon County, Wisconsin	0.000
Vernon Parish, Louisiana	0.001
Vigo County, Indiana	0.000
Vilas County, Wisconsin	0.000
Vinton County, Ohio	0.000
Virginia Beach city, Virginia	0.000
Volusia County, Florida	0.000
Wabash County, Indiana	0.000

Wabasha County, Minnesota	0.000
Wadena County, Minnesota	0.000
Wagoner County, Oklahoma	0.000
Wahkiakum County, Washington	0.000
Wake County, North Carolina	0.000
Wakulla County, Florida	0.000
Waldo County, Maine	0.000
Walker County, Alabama	0.000
Walker County, Georgia	0.000
Walla Walla County, Washington	0.001
Walsh County, North Dakota	0.000
Walthall County, Mississippi	0.000
Walton County, Florida	0.000
Walton County, Georgia	0.000
Walworth County, South Dakota	0.000
Walworth County, Wisconsin	0.000
Wapello County, Iowa	0.000
Ward County, North Dakota	0.000
Ware County, Georgia	0.000
Warren County, Georgia	0.000
Warren County, Indiana	0.000
Warren County, Iowa	0.000
Warren County, Kentucky	0.000
Warren County, Mississippi	0.000
Warren County, New Jersey	0.000

Warren County, New York	0.000
Warren County, North Carolina	0.000
Warren County, Ohio	0.000
Warren County, Pennsylvania	0.000
Warren County, Tennessee	0.000
Warren County, Virginia	0.000
Warrick County, Indiana	0.000
Wasatch County, Utah	0.001
Waseca County, Minnesota	0.000
Washakie County, Wyoming	0.001
Washburn County, Wisconsin	0.000
Washington County, Alabama	0.000
Washington County, Arkansas	0.001
Washington County, Colorado	0.001
Washington County, Florida	0.000
Washington County, Georgia	0.000
Washington County, Indiana	0.000
Washington County, Iowa	0.000
Washington County, Kentucky	0.000
Washington County, Maine	0.000
Washington County, Maryland	0.000
Washington County, Minnesota	0.000
Washington County, Mississippi	0.000
Washington County, Nebraska	0.000
Washington County, New York	0.000



Washington County, North Carolina	0.000
Washington County, Ohio	0.000
Washington County, Oklahoma	0.000
Washington County, Pennsylvania	0.000
Washington County, Rhode Island	0.000
Washington County, Tennessee	0.000
Washington County, Utah	0.001
Washington County, Vermont	0.000
Washington County, Virginia	0.000
Washington County, Wisconsin	0.000
Washington Parish, Louisiana	0.000
Washita County, Oklahoma	0.001
Washoe County, Nevada	0.001
Washtenaw County, Michigan	0.000
Watauga County, North Carolina	0.000
Watonwan County, Minnesota	0.001
Waukesha County, Wisconsin	0.000
Waupaca County, Wisconsin	0.000
Waushara County, Wisconsin	0.000
Wayne County, Georgia	0.000
Wayne County, Indiana	0.000
Wayne County, Iowa	0.000
Wayne County, Kentucky	0.000
Wayne County, Michigan	0.000
Wayne County, Mississippi	0.000

Wayne County, Nebraska	0.000
Wayne County, New York	0.000
Wayne County, North Carolina	0.000
Wayne County, Ohio	0.000
Wayne County, Pennsylvania	0.000
Wayne County, Tennessee	0.000
Wayne County, Utah	0.001
Wayne County, West Virginia	0.000
Waynesboro city, Virginia	0.000
Weakley County, Tennessee	0.000
Weber County, Utah	0.001
Webster County, Georgia	0.000
Webster County, Iowa	0.000
Webster County, Kentucky	0.000
Webster County, Mississippi	0.000
Webster County, Nebraska	0.000
Webster County, West Virginia	0.000
Webster Parish, Louisiana	0.000
Weld County, Colorado	0.001
Wells County, Indiana	0.000
Wells County, North Dakota	0.000
West Baton Rouge Parish, Louisiana	0.000
West Carroll Parish, Louisiana	0.000
West Feliciana Parish, Louisiana	0.000
Westchester County, New York	0.001

Westmoreland County, Pennsylvania	0.000
Westmoreland County, Virginia	0.000
Weston County, Wyoming	0.000
Wetzel County, West Virginia	0.000
Wexford County, Michigan	0.000
Whatcom County, Washington	0.000
Wheatland County, Montana	0.000
Wheeler County, Georgia	0.000
Wheeler County, Nebraska	0.000
White County, Arkansas	0.000
White County, Georgia	0.000
White County, Indiana	0.000
White County, Tennessee	0.000
White Pine County, Nevada	0.001
Whitfield County, Georgia	0.002
Whitley County, Indiana	0.000
Whitley County, Kentucky	0.000
Whitman County, Washington	0.000
Wibaux County, Montana	0.000
Wicomico County, Maryland	0.000
Wilcox County, Alabama	0.000
Wilcox County, Georgia	0.000
Wilkes County, Georgia	0.000
Wilkes County, North Carolina	0.000
Wilkin County, Minnesota	0.000

Wilkinson County, Georgia	0.000
Wilkinson County, Mississippi	0.000
Williams County, North Dakota	0.000
Williams County, Ohio	0.000
Williamsburg city, Virginia	0.000
Williamson County, Tennessee	0.000
Wilson County, North Carolina	0.000
Wilson County, Tennessee	0.000
Winchester city, Virginia	0.001
Windham County, Connecticut	0.000
Windham County, Vermont	0.000
Windsor County, Vermont	0.000
Winn Parish, Louisiana	0.000
Winnebago County, Iowa	0.000
Winnebago County, Wisconsin	0.000
Winneshiek County, Iowa	0.000
Winona County, Minnesota	0.000
Winston County, Alabama	0.000
Winston County, Mississippi	0.000
Wirt County, West Virginia	0.000
Wise County, Virginia	0.000
Wolfe County, Kentucky	0.000
Wood County, Ohio	0.000
Wood County, West Virginia	0.000
Wood County, Wisconsin	0.000

Woodbury County, Iowa	0.001
Woodford County, Kentucky	0.000
Woodruff County, Arkansas	0.000
Woods County, Oklahoma	0.001
Woodward County, Oklahoma	0.001
Worcester County, Maryland	0.000
Worcester County, Massachusetts	0.000
Worth County, Georgia	0.000
Worth County, Iowa	0.000
Wright County, Iowa	0.000
Wright County, Minnesota	0.000
Wyandot County, Ohio	0.000
Wyoming County, New York	0.000
Wyoming County, Pennsylvania	0.000
Wyoming County, West Virginia	0.000
Wythe County, Virginia	0.000
Yadkin County, North Carolina	0.001
Yakima County, Washington	0.002
Yalobusha County, Mississippi	0.000
Yancey County, North Carolina	0.000
Yankton County, South Dakota	0.000
Yates County, New York	0.000
Yazoo County, Mississippi	0.000
Yell County, Arkansas	0.001
Yellow Medicine County, Minnesota	0.000

Yellowstone County, Montana	0.000
York County, Maine	0.000
York County, Nebraska	0.000
York County, Pennsylvania	0.000
York County, Virginia	0.000
Yuma County, Colorado	0.001
Ziebach County, South Dakota	0.000

**Fig 9.20** WIC Women: Full Parametric V weight list

<b>Predictor</b>	<b>V Weight</b>
One.race_Black.or.African.American	0.004
Hispanic.or.Latino.of.any.race	0.447
Median.nonfamily.income.dollars	0.001
Male_Ed_Some_College_Or_Associates	0.420
Rural	0.034
total_votes_x	0.094
republican_vote_percent_x	0.000

**Fig 9.21** WIC Women: Condensed Parametric W weight list

<b>County</b>	<b>W Weight</b>
Adams County, Washington	0.003
Sanpete County, Utah	0.004
Costilla County, Colorado	0.003
Crowley County, Colorado	0.006
Texas County, Oklahoma	0.004

Beaver County, Oklahoma	0.003
Alamosa County, Colorado	0.003
Thomas County, Nebraska	0.003
Colfax County, Nebraska	0.006
Echols County, Georgia	0.003
Elko County, Nevada	0.005
Franklin County, Washington	0.000
Grant County, Washington	0.003
Las Animas County, Colorado	0.003
Prowers County, Colorado	0.007
Adams County, Colorado	0.003
Cimarron County, Oklahoma	0.004
Conejos County, Colorado	0.003
Dakota County, Nebraska	0.003
Dawson County, Nebraska	0.003
Douglas County, Washington	0.003
Hall County, Georgia	0.003
Hardee County, Florida	0.003
Harmon County, Oklahoma	0.004
Harper County, Oklahoma	0.004
Harrisonburg city, Virginia	0.004
Hendry County, Florida	0.003
Humboldt County, Nevada	0.004
Jackson County, Oklahoma	0.003
Lake County, Colorado	0.004

Lander County, Nevada	0.004
Lexington city, Virginia	0.003
Millard County, Utah	0.004
Morgan County, Colorado	0.003
Osceola County, Florida	0.003
Otero County, Colorado	0.004
Pueblo County, Colorado	0.003
Rio Grande County, Colorado	0.005
Sevier County, Arkansas	0.003
Utah County, Utah	0.003
Whitfield County, Georgia	0.003
Yakima County, Washington	0.003
Adams County, Nebraska	0.003
Albany County, Wyoming	0.003
Alfalfa County, Oklahoma	0.003
Arapahoe County, Colorado	0.003
Archuleta County, Colorado	0.003
Atkinson County, Georgia	0.004
Atlantic County, New Jersey	0.003
Baca County, Colorado	0.003
Banner County, Nebraska	0.003
Barrow County, Georgia	0.003
Beaver County, Utah	0.004
Beckham County, Oklahoma	0.003
Bedford County, Tennessee	0.005



Bent County, Colorado	0.003
Benton County, Arkansas	0.010
Benton County, Washington	0.003
Bergen County, New Jersey	0.018
Berks County, Pennsylvania	0.003
Big Horn County, Wyoming	0.004
Blaine County, Oklahoma	0.003
Blount County, Alabama	0.003
Box Butte County, Nebraska	0.004
Box Elder County, Utah	0.003
Bronx County, New York	0.003
Broward County, Florida	0.005
Buena Vista County, Iowa	0.003
Buffalo County, Nebraska	0.004
Cache County, Utah	0.003
Caddo County, Oklahoma	0.003
Campbell County, Wyoming	0.003
Canadian County, Oklahoma	0.003
Carbon County, Utah	0.003
Carbon County, Wyoming	0.003
Carroll County, Arkansas	0.009
Carson City, Nevada	0.005
Cass County, Indiana	0.003
Chase County, Nebraska	0.004
Chattahoochee County, Georgia	0.003

Chelan County, Washington	0.003
Cherokee County, Georgia	0.003
Cheyenne County, Colorado	0.003
Cheyenne County, Nebraska	0.004
Churchill County, Nevada	0.005
Clark County, Nevada	0.003
Clay County, Nebraska	0.003
Cleveland County, Oklahoma	0.003
Clinton County, Indiana	0.003
Collier County, Florida	0.003
Colquitt County, Georgia	0.005
Comanche County, Oklahoma	0.003
Converse County, Wyoming	0.004
Crawford County, Iowa	0.006
Cumberland County, New Jersey	0.003
Custer County, Oklahoma	0.003
Davis County, Utah	0.003
DeKalb County, Alabama	0.003
DeSoto County, Florida	0.004
Delta County, Colorado	0.004
Denver County, Colorado	0.004
Dewey County, Oklahoma	0.003
Dixon County, Nebraska	0.029
Douglas County, Nevada	0.004
Duchesne County, Utah	0.003

Dundy County, Nebraska	0.003
Duplin County, North Carolina	0.003
Eagle County, Colorado	0.003
El Paso County, Colorado	0.004
Elkhart County, Indiana	0.004
Ellis County, Oklahoma	0.003
Emery County, Utah	0.005
Esmeralda County, Nevada	0.004
Essex County, Massachusetts	0.003
Essex County, New Jersey	0.005
Eureka County, Nevada	0.005
Fairfax city, Virginia	0.003
Forsyth County, Georgia	0.004
Franklin County, Alabama	0.003
Fremont County, Colorado	0.003
Galax city, Virginia	0.005
Garfield County, Colorado	0.003
Garfield County, Oklahoma	0.004
Garfield County, Utah	0.003
Gilmer County, Georgia	0.003
Glades County, Florida	0.080
Gordon County, Georgia	0.005
Goshen County, Wyoming	0.004
Greene County, North Carolina	0.004
Greer County, Oklahoma	0.004

Gwinnett County, Georgia	0.003
Habersham County, Georgia	0.004
Hall County, Nebraska	0.003
Hamblen County, Tennessee	0.004
Hampden County, Massachusetts	0.003
Harnett County, North Carolina	0.004
Hayes County, Nebraska	0.004
Highlands County, Florida	0.003
Hillsborough County, Florida	0.003
Hudson County, New Jersey	0.005
Huerfano County, Colorado	0.003
Iron County, Utah	0.004
Jackson County, Colorado	0.003
Jefferson County, Oklahoma	0.008
Johnson County, Arkansas	0.003
Johnston County, North Carolina	0.003
Juab County, Utah	0.004
Kimball County, Nebraska	0.005
Kingfisher County, Oklahoma	0.003
Kit Carson County, Colorado	0.003
Kosciusko County, Indiana	0.000
Lafayette County, Florida	0.003
Lake County, Florida	0.003
Lake County, Indiana	0.004
Laramie County, Wyoming	0.003

Lee County, Florida	0.003
Lee County, North Carolina	0.003
Lehigh County, Pennsylvania	0.004
Liberty County, Georgia	0.004
Lincoln County, Colorado	0.004
Lincoln County, Nebraska	0.004
Lincoln County, Nevada	0.003
Logan County, Colorado	0.004
Long County, Georgia	0.004
Louisa County, Iowa	0.003
Love County, Oklahoma	0.004
Lyon County, Nevada	0.004
Madison County, Nebraska	0.003
Major County, Oklahoma	0.003
Manassas Park city, Virginia	0.004
Manassas city, Virginia	0.007
Manatee County, Florida	0.004
Marshall County, Alabama	0.004
Marshall County, Iowa	0.003
Marshall County, Oklahoma	0.004
Martin County, Florida	0.004
McClain County, Oklahoma	0.003
Mesa County, Colorado	0.003
Middlesex County, New Jersey	0.003
Moffat County, Colorado	0.004

Monroe County, Florida	0.004
Monroe County, Pennsylvania	0.002
Montezuma County, Colorado	0.004
Montgomery County, North Carolina	0.004
Montrose County, Colorado	0.003
Morrill County, Nebraska	0.003
Murray County, Georgia	0.003
Muscatine County, Iowa	0.003
Natrona County, Wyoming	0.003
New York County, New York	0.005
Noble County, Indiana	0.003
Nobles County, Minnesota	0.003
Nye County, Nevada	0.003
Oceana County, Michigan	0.004
Okanogan County, Washington	0.003
Okeechobee County, Florida	0.005
Oklahoma County, Oklahoma	0.003
Onslow County, North Carolina	0.005
Orange County, Florida	0.003
Orange County, New York	0.004
Palm Beach County, Florida	0.004
Passaic County, New Jersey	0.003
Perkins County, Nebraska	0.004
Pershing County, Nevada	0.005
Phelps County, Nebraska	0.004

Phillips County, Colorado	0.003
Pike County, Arkansas	0.004
Piute County, Utah	0.023
Platte County, Nebraska	0.003
Polk County, Florida	0.003
Polk County, Georgia	0.006
Prince William County, Virginia	0.003
Providence County, Rhode Island	0.003
Queens County, New York	0.006
Randolph County, North Carolina	0.004
Rich County, Utah	0.003
Richmond County, New York	0.006
Rio Blanco County, Colorado	0.004
Rockland County, New York	0.004
Roger Mills County, Oklahoma	0.004
Saguache County, Colorado	0.009
Saline County, Nebraska	0.003
Salt Lake County, Utah	0.004
Sampson County, North Carolina	0.005
Scotts Bluff County, Nebraska	0.004
Sebastian County, Arkansas	0.003
Sedgwick County, Colorado	0.004
Seminole County, Florida	0.003
Sevier County, Utah	0.003
Sioux County, Iowa	0.003

**Fig 9.22** WIC Women: Condensed Parametric V weight list

Predictor	V Weight
One.race_Black.or.African.American	0.225
Hispanic.or.Latino.of.any.race	0.165
Median.nonfamily.income.dollars	0.006
Male_Ed_Some_College_Or_Associates	0.026
Rural	0.184
total_votes_x	0.000
republican_vote_percent_x	0.395

**Fig 9.23** WIC Women: Full Parametric Estimator Comparison List

Predictor	Treatment	Synthetic	Abs. Diff
One.race_Black.or.African.American	5.841	5.841	0.000
Hispanic.or.Latino.of.any.race	18.01	18.01	0.000
Median.nonfamily.income.dollars	50.545	50.546	0.001
Male_Ed_Some_College_Or_Associates	30.105	30.105	0.000
Rural	56.416	56.416	0.000
total_votes_x	52.999	52.999	0.000
republican_vote_percent_x	63.491	63.482	0.009

**Fig 9.24** WIC Women: Condensed Parametric Estimator Comparison List

Predictor	Treatment	Synthetic	Abs. Diff
One.race_Black.or.African.American	5.841	5.841	0.000



Hispanic.or.Latino.of.any.race	18.01	18.01	0.000
Median.nonfamily.income.dollars	50.545	50.552	0.007
Male_Ed_Some_College_Or_Associates	30.105	30.105	0.000
Rural	56.416	56.416	0.000
total_votes_x	52.999	52.89	0.109
republican_vote_percent_x	63.491	63.491	0.000

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