

Project Proposal

US Covid 19 cases tracking, management and analysis

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```
library(tidyverse)
library(modelr)

# Load data
df <- read_csv("C:/Users/clmah/cmu_datasci_cool_team_repo/time_series_covid19_confirmed_US.csv")
```

About this dataset

This data set was obtained from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University. The data sources used to build this data set include the World Health Organization (WHO), the European Centre for Disease Prevention and Control (ECDC), different US data sources per the state (eg. the Colorado Department of Public Health and Environment).

We'll be working with one of the daily time series summary data sets regarding confirmed cases in the US ("time_series_covid19_confirmed_US.csv"). This data is a compilation of daily case reports, also available in the given repository. This is the data structure of the chosen data set:

```
## Data structure
#UID          : num [1:3342] Registry ID
#iso2         : chr [1:3342] US (country code ISO2)
#iso3         : chr [1:3342] USA (country code ISO2)
#code3        : num [1:3342] USA country code
#FIPS         : num [1:3342] 1001 1003 1005 1007 1009 ...
#Admin2       : chr [1:3342] US county, like "Autauga" "Baldwin" ...
#Province_State : chr [1:3342] US State like "Alabama" "Alaska" "Arizona"
#Country_Region : chr [1:3342] "US"
#Lat          : num [1:3342] 32.5 30.7 31.9 33 34 ... ()
#Long_        : num [1:3342] -86.6 -87.7 -85.4 -87.1 -86.6 ...
#Combined_Key : chr [1:3342] US State and county: "Autauga, Alabama, US"...
#MM/DD/YY cols : num [1:3342] Number of cases per day between 2020-2023
#              : each column registers the number of confirmed cases per day
```

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The data set is available as “COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University” or “JHU CSSE COVID-19 Data” for short, and the url: <https://github.com/CSSEGISandData/COVID-19>.

Research questions

When the covid 19 outbreak occurred in the United States, the proliferation of the disease advanced to a large extent, and some states recorded high levels of new COVID-19 hospital admissions in the week. Given the selected data set which provides daily confirmed cases per county/state, it is possible to ask:

1. Which counties and states have the highest number of confirmed cases over time,
2. Is there a relationship between the transmission of the disease regarding proximity to these possible hotspots.

The exploration of the data set and the previous questions brought us to the following hypothesis:

- The geographic location, specifically latitude and longitude, is associated with the rate of COVID-19 transmission in the United States and some states and counties can be identified as transmission hotspots

Given this hypothesis we want to: 1. Explore the distribution of confirmed cases over time, examining trends and patterns. 2. Visualize the spatial distribution of confirmed cases using latitude and longitude information. 3. Examine correlations between geographic location (latitude and longitude) and the number of confirmed cases.

Modeling:

Since we have daily counts of confirmed COVID-19 cases over time, a time series model would be more appropriate for this data set rather than a traditional linear regression model. The autoregressive integrated moving average (ARIMA) model is considered.

However, an additional linear regression model is considered make predictions regarding the number of confirmed cases based on counties latitude and longitude.

```
# Preprocess the data
## The idea is to identify all columns named with a date and their values
date_columns <- grep("^\\d{2}/\\d{2}/\\d{2}$", names(df), value = TRUE)
df[date_columns] <- lapply(df[date_columns], as.Date, format = "%m/%d/%Y")

# Then we convert the data to long format
## we use pivot_longer to lengthen data, increasing the number of rows and
## decreasing the number of columns, starting with the first column/date
long_data <- df %>%
  pivot_longer(cols = starts_with("1/22/23"), names_to = "Dates", values_to = "All_cases") %>%
  mutate(Dates = as.Date(Dates, format = "%m/%d/%Y"))

# Fit the model
## Province_state: US states
## Admin2: Counties
model <- lm(All_cases ~ Dates + Province_State + Admin2, data = long_data)

summary(model)
```

```
##
## Call:
## lm(formula = All_cases ~ Dates + Province_State + Admin2, data = long_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -612960   -3436        0         0   979720
##
## Coefficients: (1 not defined because of singularities)
##
##              Estimate Std. Error t value
## (Intercept)      4278.21    72822.05   0.059
## Dates                NA         NA      NA
## Province_StateAlaska    -10629.38    51248.28  -0.207
## Province_StateArizona     10900.92    45007.79   0.242
## Province_StateArkansas    -9091.83    15158.41  -0.600
## Province_StateCalifornia   38463.48    29860.10   1.288
## Province_StateColorado     1132.20    19099.19   0.059
## Province_StateConnecticut  18519.09    43244.52   0.428
## Province_StateDelaware    27242.64    46555.06   0.585
## Province_StateDistrict of Columbia -1927.25    71713.08  -0.027
## Province_StateFlorida     40377.89    16930.79   2.385
## Province_StateGeorgia    -13028.73    13231.39  -0.985
## Province_StateHawaii     -1927.25    71713.08  -0.027
## Province_StateIdaho      -17708.89    21474.27  -0.825
## Province_StateIllinois    11199.44    13882.74   0.807
## Province_StateIndiana     -80.77    14277.83  -0.006
## Province_StateIowa      -14330.89    14186.78  -1.010
## Province_StateKansas     -10817.69    14695.51  -0.736
## Province_StateKentucky    -2133.92    13896.56  -0.154
## Province_StateLouisiana    5888.87    19110.85   0.308
## Province_StateMaine      -2427.71    27090.67  -0.090
## Province_StateMaryland    15553.64    25779.99   0.603
## Province_StateMassachusetts 136431.68    29490.86   4.626
## Province_StateMichigan    38635.69    18607.91   2.076
## Province_StateMinnesota  -23809.89    17717.99  -1.344
## Province_StateMississippi  -3930.38    14973.22  -0.262
## Province_StateMissouri    -7110.18    13892.95  -0.512
## Province_StateMontana    -10038.19    19804.14  -0.507
## Province_StateNebraska    -15683.46    15408.63  -1.018
## Province_StateNevada      90768.88    30880.60   2.939
## Province_StateNew Hampshire -27664.61    35317.54  -0.783
## Province_StateNew Jersey   90350.68    25114.24   3.598
## Province_StateNew Mexico  -10972.49    25534.09  -0.430
## Province_StateNew York     45288.80    17212.08   2.631
## Province_StateNorth Carolina -4634.72    15901.98  -0.291
## Province_StateNorth Dakota -19331.13    20292.70  -0.953
## Province_StateOhio        15335.71    14853.89   1.032
## Province_StateOklahoma    -8063.41    17086.48  -0.472
## Province_StateOregon       4629.46    20137.54   0.230
## Province_StatePennsylvania 20263.77    16315.16   1.242
## Province_StatePuerto Rico  42763.80    48197.31   0.887
## Province_StateRhode Island 13515.65    39825.60   0.339
## Province_StateSouth Carolina 3403.79    19734.48   0.172
## Province_StateSouth Dakota -13750.73    18394.60  -0.748
```

## Province_StateTennessee	7848.58	14083.39	0.557
## Province_StateTexas	9276.53	13589.58	0.683
## Province_StateUtah	-17177.05	24537.48	-0.700
## Province_StateVermont	-45409.27	31627.07	-1.436
## Province_StateVirginia	-30053.07	15598.77	-1.927
## Province_StateWashington	31629.86	21294.17	1.485
## Province_StateWest Virginia	-198.77	16678.22	-0.012
## Province_StateWisconsin	-2039.96	17282.76	-0.118
## Province_StateWyoming	-9555.58	25694.98	-0.372
## Admin2Acadia	8474.92	101709.01	0.083
## Admin2Accomack	34672.86	100968.63	0.343
## Admin2Ada	171804.68	102235.13	1.680
## Admin2Adair	10066.39	80285.02	0.125
## Admin2Adams	17710.33	74937.92	0.236
## Admin2Addison	48008.06	104753.45	0.458
## Admin2Adjuntas	-40356.01	110905.66	-0.364
## Admin2Aguada	-34434.01	110905.66	-0.310
## Admin2Aguadilla	-31072.01	110905.66	-0.280
## Admin2Aguas Buenas	-38849.01	110905.66	-0.350
## Admin2Aibonito	-38796.01	110905.66	-0.350
## Admin2Aiken	43597.00	99132.25	0.440
## Admin2Aitkin	23180.68	101483.19	0.228
## Admin2Alachua	42849.90	101334.17	0.423
## Admin2Alamance	60768.51	101124.74	0.601
## Admin2Alameda	351976.31	104267.58	3.376
## Admin2Alamosa	396.59	101723.48	0.004
## Admin2Albany	22511.68	88486.35	0.254
## Admin2Albemarle	50514.86	100968.63	0.500
## Admin2Alcona	-41005.90	101636.91	-0.403
## Admin2Alcorn	12295.17	101090.90	0.122
## Admin2Aleutians East	7675.18	112215.50	0.068
## Admin2Aleutians West	8258.18	112215.50	0.074
## Admin2Alexander	-511.07	87715.64	-0.006
## Admin2Alexandria	70600.86	100968.63	0.699
## Admin2Alfalfa	5649.20	101370.01	0.056
## Admin2Alger	-40818.90	101636.91	-0.402
## Admin2Allamakee	13264.69	100917.36	0.131
## Admin2Allegan	-11087.90	101636.91	-0.109
## Admin2Allegany	-18679.43	88406.95	-0.211
## Admin2Alleghany	17110.19	87723.03	0.195
## Admin2Allegheny	309666.02	101180.12	3.061
## Admin2Allen	29779.35	78722.18	0.378
## Admin2Allendale	-5284.00	99132.25	-0.053
## Admin2Alpena	-36488.90	101636.91	-0.359
## Admin2Alpine	-42598.69	104267.58	-0.409
## Admin2Amador	-31379.69	104267.58	-0.301
## Admin2Amelia	29270.86	100968.63	0.290
## Admin2Amherst	35072.86	100968.63	0.347
## Admin2Amite	3489.17	101090.90	0.035
## Admin2Anasco	-38889.01	110905.66	-0.351
## Admin2Anchorage	129179.18	112215.50	1.151
## Admin2Anderson	17750.13	78013.22	0.228
## Admin2Andrew	8434.97	100900.71	0.084
## Admin2Andrews	-8580.73	100854.74	-0.085

## Admin2Androscoggin	25947.50	103438.46	0.251
## Admin2Angelina	3322.27	100854.74	0.033
## Admin2Anne Arundel	97666.15	103018.13	0.948
## Admin2Anoka	137095.68	101483.19	1.351
## Admin2Anson	8598.51	101124.74	0.085
## Admin2Antelope	12684.25	101068.37	0.126
## Admin2Antrim	-37680.90	101636.91	-0.371
## Admin2Apache	20361.87	109551.45	0.186
## Admin2Appanoose	13455.69	100917.36	0.133
## Admin2Appling	13991.52	100789.60	0.139
## Admin2Appomattox	30699.86	100968.63	0.304
## Admin2Aransas	-8098.73	100854.74	-0.080
## Admin2Arapahoe	189607.59	101723.48	1.864
## Admin2Archer	-10948.73	100854.74	-0.109
## Admin2Archuleta	-1893.41	101723.48	-0.019
## Admin2Arecibo	-18064.01	110905.66	-0.163
## Admin2Arenac	-39056.90	101636.91	-0.384
## Admin2Arkansas	11751.62	101084.41	0.116
## Admin2Arlington	91267.86	100968.63	0.904
## Admin2Armstrong	-9671.36	87717.30	-0.110
## Admin2Aroostook	16018.50	103438.46	0.155
## Admin2Arroyo	-41551.01	110905.66	-0.375
## Admin2Arthur	11439.25	101068.37	0.113
## Admin2Ascension	33376.92	101709.01	0.328
## Admin2Ashe	7855.51	101124.74	0.078
## Admin2Ashland	-1509.59	87822.53	-0.017
## Admin2Ashley	10934.62	101084.41	0.108
## Admin2Ashtabula	5751.08	101000.60	0.057
## Admin2Asotin	-30372.07	102154.94	-0.297
## Admin2Assumption	-3551.08	101709.01	-0.035
## Admin2Atascosa	2044.27	100854.74	0.020
## Admin2Atchison	8081.72	87687.41	0.092
## Admin2Athens	-135.92	101000.60	-0.001
## Admin2Atkinson	11187.52	100789.60	0.111
## Admin2Atlantic	-5198.89	102944.26	-0.051
## Admin2Atoka	8449.20	101370.01	0.083
## Admin2Attala	6293.17	101090.90	0.062
## Admin2Audrain	9608.97	100900.71	0.095
## Admin2Audubon	11351.69	100917.36	0.112
## Admin2Auglaize	-5640.92	101000.60	-0.056
## Admin2Augusta	49759.86	100968.63	0.493
## Admin2Aurora	10364.52	101590.98	0.102
## Admin2Austin	-6640.73	100854.74	-0.066
## Admin2Autauga	15110.79	101077.46	0.149
## Admin2Avery	5829.51	101124.74	0.058
## Admin2Avoyelles	3943.92	101709.01	0.039
## Admin2Baca	-4395.41	101723.48	-0.043
## Admin2Bacon	12824.52	100789.60	0.127
## Admin2Bailey	-11817.73	100854.74	-0.117
## Admin2Baker	-9938.42	82961.38	-0.120
## Admin2Baldwin	42152.66	87675.71	0.481
## Admin2Ballard	-422.29	100881.72	-0.004
## Admin2Baltimore	148932.15	103018.13	1.446
## Admin2Baltimore City	126629.15	103018.13	1.229

## Admin2Bamberg	-3474.00	99132.25	-0.035
## Admin2Bandera	-9308.73	100854.74	-0.092
## Admin2Banks	13279.52	100789.60	0.132
## Admin2Banner	11507.25	101068.37	0.114
## Admin2Bannock	37674.68	102235.13	0.369
## Admin2Baraga	-40346.90	101636.91	-0.397
## Admin2Barber	7758.48	100957.45	0.077
## Admin2Barbour	2399.18	87813.44	0.027
## Admin2Barceloneta	-39559.01	110905.66	-0.357
## Admin2Barnes	18610.92	101918.90	0.183
## Admin2Barnstable	-92339.89	104101.43	-0.887
## Admin2Barnwell	-987.00	99132.25	-0.010
## Admin2Barranquitas	-37674.01	110905.66	-0.340
## Admin2Barren	14559.71	100881.72	0.144
## Admin2Barron	13680.75	101338.81	0.135
## Admin2Barrow	34470.52	100789.60	0.342
## Admin2Barry	-7726.97	87897.28	-0.088
## Admin2Bartholomew	21979.56	100945.92	0.218
## Admin2Barton	10150.72	87687.41	0.116
## Admin2Bartow	43608.52	100789.60	0.433
## Admin2Bastrop	13345.27	100854.74	0.132
## Admin2Bates	7235.97	100900.71	0.072
## Admin2Bath	14619.29	87642.00	0.167
## Admin2Baxter	15325.62	101084.41	0.152
## Admin2Bay	-423.50	88016.54	-0.005
## Admin2Bayamon	18303.99	110905.66	0.165
## Admin2Bayfield	2066.75	101338.81	0.020
## Admin2Baylor	-12623.73	100854.74	-0.125
## Admin2Beadle	14940.52	101590.98	0.147
## Admin2Bear Lake	14562.68	102235.13	0.142
## Admin2Bear River	70625.84	102885.05	0.686
## Admin2Beaufort	30729.26	86430.06	0.356
## Admin2Beauregard	859.92	101709.01	0.008
## Admin2Beaver	13888.69	83173.25	0.167
## Admin2Beaverhead	8213.98	101837.48	0.081
## Admin2Becker	29875.68	101483.19	0.294
## Admin2Beckham	10916.20	101370.01	0.108
## Admin2Bedford	13771.70	82791.14	0.166
## Admin2Bee	-3705.73	100854.74	-0.037
## Admin2Belknap	40555.40	105940.11	0.383
## Admin2Bell	39952.49	87654.17	0.456
## Admin2Belmont	-706.92	101000.60	-0.007
## Admin2Beltrami	33611.68	101483.19	0.331
## Admin2Ben Hill	13678.52	100789.60	0.136
## Admin2Benewah	16124.68	102235.13	0.158
## Admin2Bennett	10383.52	101590.98	0.102
## Admin2Bennington	53198.06	104753.45	0.508
## Admin2Benson	17325.92	101918.90	0.170
## Admin2Bent	-2469.41	101723.48	-0.024
## Admin2Benton	19547.46	75868.23	0.258
## Admin2Benzie	-38819.90	101636.91	-0.382
## Admin2Bergen	224540.11	102944.26	2.181
## Admin2Berkeley	48961.28	86476.64	0.566
## Admin2Berks	100116.02	101180.12	0.989

## Admin2Berkshire	-106051.89	104101.43	-1.019
## Admin2Bernalillo	201678.28	103097.60	1.956
## Admin2Berrien	6629.31	87835.67	0.075
## Admin2Bertie	5700.51	101124.74	0.056
## Admin2Bethel	18946.18	112215.50	0.169
## Admin2Bexar	675650.27	100854.74	6.699
## Admin2Bibb	28465.66	87675.71	0.325
## Admin2Bienville	-5289.08	101709.01	-0.052
## Admin2Big Horn	9902.17	88735.03	0.112
## Admin2Big Stone	21262.68	101483.19	0.210
## Admin2Billings	15220.92	101918.90	0.149
## Admin2Bingham	24495.68	102235.13	0.240
## Admin2Black Hawk	48552.69	100917.36	0.481
## Admin2Blackford	-551.44	100945.92	-0.005
## Admin2Bladen	12113.51	101124.74	0.120
## Admin2Blaine	11769.28	80520.46	0.146
## Admin2Blair	10091.02	101180.12	0.100
## Admin2Blanco	-10378.73	100854.74	-0.103
## Admin2Bland	28123.86	100968.63	0.279
## Admin2Bleckley	12590.52	100789.60	0.125
## Admin2Bledsoe	-6788.79	100923.76	-0.067
## Admin2Blount	25021.50	87719.68	0.285
## Admin2Blue Earth	40532.68	101483.19	0.399
## Admin2Boise	14704.68	102235.13	0.144
## Admin2Bolivar	10985.17	101090.90	0.109
## Admin2Bollinger	6038.97	100900.71	0.060
## Admin2Bon Homme	11979.52	101590.98	0.118
## Admin2Bond	-10246.65	100884.40	-0.102
## Admin2Bonner	23608.68	102235.13	0.231
## Admin2Bonneville	48571.68	102235.13	0.475
## Admin2Boone	20452.59	76277.75	0.268
## Admin2Borden	-13432.73	100854.74	-0.133
## Admin2Bosque	-8726.73	100854.74	-0.087
## Admin2Bossier	39461.92	101709.01	0.388
## Admin2Botetourt	35539.86	100968.63	0.352
## Admin2Bottineau	16907.92	101918.90	0.166
## Admin2Boulder	84710.59	101723.48	0.833
## Admin2Boundary	15833.68	102235.13	0.155
## Admin2Bourbon	8792.60	87678.28	0.100
## Admin2Bowie	10738.27	100854.74	0.106
## Admin2Bowman	15976.92	101918.90	0.157
## Admin2Box Butte	13893.25	101068.37	0.137
## Admin2Box Elder	12898.84	102885.05	0.125
## Admin2Boyd	15954.48	87714.55	0.182
## Admin2Boyle	9039.71	100881.72	0.090
## Admin2Bracken	573.71	100881.72	0.006
## Admin2Bradford	-19962.04	87853.25	-0.227
## Admin2Bradley	17372.41	87732.95	0.198
## Admin2Branch	-29645.90	101636.91	-0.292
## Admin2Brantley	13407.52	100789.60	0.133
## Admin2Braxton	864.56	101283.90	0.009
## Admin2Brazoria	101720.27	100854.74	1.009
## Admin2Brazos	60080.27	100854.74	0.596
## Admin2Breathitt	3081.71	100881.72	0.031

## Admin2Breckinridge	4435.71	100881.72	0.044
## Admin2Bremer	16375.69	100917.36	0.162
## Admin2Brevard	127646.90	101334.17	1.260
## Admin2Brewster	-12204.73	100854.74	-0.121
## Admin2Briscoe	-12984.73	100854.74	-0.129
## Admin2Bristol	23517.04	84265.37	0.279
## Admin2Bristol Bay	6351.18	112215.50	0.057
## Admin2Bristol Bay plus Lake and Peninsula	7577.18	112215.50	0.068
## Admin2Broadwater	7277.98	101837.48	0.071
## Admin2Bronx	492343.99	101380.12	4.856
## Admin2Brooke	2170.56	101283.90	0.021
## Admin2Brookings	18736.52	101590.98	0.184
## Admin2Brooks	613.39	87614.45	0.007
## Admin2Broome	8499.99	101380.12	0.084
## Admin2Broomfield	12755.59	101723.48	0.125
## Admin2Broward	718377.90	101334.17	7.089
## Admin2Brown	16853.11	75841.15	0.222
## Admin2Brule	11133.52	101590.98	0.110
## Admin2Brunswick	35182.69	87723.03	0.401
## Admin2Bryan	20211.36	87766.71	0.230
## Admin2Buchanan	26530.51	82766.09	0.321
## Admin2Buckingham	30643.86	100968.63	0.303
## Admin2Bucks	128814.02	101180.12	1.273
## Admin2Buena Vista	22466.77	87652.73	0.256
## Admin2Buffalo	12521.51	82989.68	0.151
## Admin2Bullitt	26453.71	100881.72	0.262
## Admin2Bulloch	26372.52	100789.60	0.262
## Admin2Bullock	-1322.21	101077.46	-0.013
## Admin2Buncombe	69972.51	101124.74	0.692
## Admin2Bureau	-5312.65	100884.40	-0.053
## Admin2Burke	20761.65	82918.82	0.250
## Admin2Burleigh	55674.92	101918.90	0.546
## Admin2Burleson	-7580.73	100854.74	-0.075
## Admin2Burlington	43471.11	102944.26	0.422
## Admin2Burnet	-91.73	100854.74	-0.001
## Admin2Burnett	2808.75	101338.81	0.028
## Admin2Burt	12933.25	101068.37	0.128
## Admin2Butler	25085.50	76256.77	0.329
## Admin2Butte	11763.50	83596.20	0.141
## Admin2Butts	16349.52	100789.60	0.162
## Admin2Cabarrus	71041.51	101124.74	0.703
## Admin2Cabell	29460.56	101283.90	0.291
## Admin2Cabo Rojo	-33165.01	110905.66	-0.299
## Admin2Cache	12898.84	102885.05	0.125
## Admin2Caddo	44836.06	88047.87	0.509
## Admin2Caguas	-3490.01	110905.66	-0.031
## Admin2Calaveras	-33212.69	104267.58	-0.319
## Admin2Calcasieu	56547.92	101709.01	0.556
## Admin2Caldwell	7158.88	78716.76	0.091
## Admin2Caledonia	47624.06	104753.45	0.455
## Admin2Calhoun	346.82	74816.74	0.005
## Admin2Callahan	-10085.73	100854.74	-0.100
## Admin2Callaway	17035.97	100900.71	0.169
## Admin2Calloway	9425.71	100881.72	0.093

## Admin2Calumet	14506.75	101338.81	0.143
## Admin2Calvert	-5292.85	103018.13	-0.051
## Admin2Camas	13609.68	102235.13	0.133
## Admin2Cambria	18056.02	101180.12	0.178
## Admin2Camden	27244.53	80385.22	0.339
## Admin2Cameron	28986.40	82918.22	0.350
## Admin2Camp	-10034.73	100854.74	-0.099
## Admin2Campbell	20571.73	78801.93	0.261
## Admin2Camuy	-35890.01	110905.66	-0.324
## Admin2Canadian	51358.20	101370.01	0.507
## Admin2Candler	11309.52	100789.60	0.112
## Admin2Cannon	-7006.79	100923.76	-0.069
## Admin2Canovanas	-34365.01	110905.66	-0.310
## Admin2Canyon	83072.68	102235.13	0.813
## Admin2Cape Girardeau	25888.97	100900.71	0.257
## Admin2Cape May	-65027.89	102944.26	-0.632
## Admin2Carbon	6658.55	80735.38	0.082
## Admin2Caribou	15092.68	102235.13	0.148
## Admin2Carlisle	-814.29	100881.72	-0.008
## Admin2Carlton	30849.68	101483.19	0.304
## Admin2Carolina	3063.99	110905.66	0.028
## Admin2Caroline	11006.01	88260.89	0.125
## Admin2Carroll	9933.56	74697.52	0.133
## Admin2Carson	-11842.73	100854.74	-0.117
## Admin2Carson City	-77809.09	104563.32	-0.744
## Admin2Carter	10395.81	78751.51	0.132
## Admin2Carteret	18612.51	101124.74	0.184
## Admin2Carver	51207.68	101483.19	0.505
## Admin2Cascade	35531.98	101837.48	0.349
## Admin2Casey	3148.71	100881.72	0.031
## Admin2Cass	15900.98	75856.08	0.210
## Admin2Cassia	18971.68	102235.13	0.186
## Admin2Castro	-10804.73	100854.74	-0.107
## Admin2Caswell	6854.51	101124.74	0.068
## Admin2Catahoula	-7066.08	101709.01	-0.069
## Admin2Catano	-39849.01	110905.66	-0.359
## Admin2Catawba	59929.51	101124.74	0.593
## Admin2Catoosa	25553.52	100789.60	0.254
## Admin2Catron	7223.28	103097.60	0.070
## Admin2Cattaraugus	-30486.01	101380.12	-0.301
## Admin2Cavalier	16020.92	101918.90	0.157
## Admin2Cayey	-32696.01	110905.66	-0.295
## Admin2Cayuga	-29381.01	101380.12	-0.290
## Admin2Cecil	118.15	103018.13	0.001
## Admin2Cedar	11557.30	82824.91	0.140
## Admin2Ceiba	-43875.01	110905.66	-0.396
## Admin2Central Utah	35709.84	102885.05	0.347
## Admin2Centre	18765.02	101180.12	0.185
## Admin2Cerro Gordo	22717.69	100917.36	0.225
## Admin2Chaffee	202.59	101723.48	0.002
## Admin2Chambers	2653.53	87699.46	0.030
## Admin2Champaign	30027.72	87698.57	0.342
## Admin2Chariton	4813.97	100900.71	0.048
## Admin2Charles	18124.15	103018.13	0.176

## Admin2Charles City	27437.86	100968.63	0.272
## Admin2Charles Mix	12946.52	101590.98	0.127
## Admin2Charleston	128710.00	99132.25	1.298
## Admin2Charlevoix	-37082.90	101636.91	-0.365
## Admin2Charlotte	16084.38	87759.55	0.183
## Admin2Charlottesville	38094.86	100968.63	0.377
## Admin2Charlton	12194.52	100789.60	0.121
## Admin2Chase	9811.37	87753.36	0.112
## Admin2Chatham	52323.02	87681.69	0.597
## Admin2Chattahoochee	16573.52	100789.60	0.164
## Admin2Chattooga	16278.52	100789.60	0.162
## Admin2Chautauqua	-6474.77	87818.53	-0.074
## Admin2Chaves	31255.28	103097.60	0.303
## Admin2Cheatham	852.21	100923.76	0.008
## Admin2Cheboygan	-37202.90	101636.91	-0.366
## Admin2Chelan	-11969.07	102154.94	-0.117
## Admin2Chemung	-23174.01	101380.12	-0.229
## Admin2Chenango	-37861.01	101380.12	-0.373
## Admin2Cherokee	18727.56	75819.72	0.247
## Admin2Cherry	12029.25	101068.37	0.119
## Admin2Chesapeake	88874.86	100968.63	0.880
## Admin2Cheshire	42109.40	105940.11	0.397
## Admin2Chester	30236.41	81837.08	0.369
## Admin2Chesterfield	65312.93	86384.42	0.756
## Admin2Cheyenne	5341.11	82961.41	0.064
## Admin2Chickasaw	9865.43	87730.57	0.112
## Admin2Chicot	7919.62	101084.41	0.078
## Admin2Childress	-10538.73	100854.74	-0.104
## Admin2Chilton	8513.79	101077.46	0.084
## Admin2Chippewa	3364.84	83058.24	0.041
## Admin2Chisago	36604.68	101483.19	0.361
## Admin2Chittenden	80298.06	104753.45	0.767
## Admin2Choctaw	3061.72	82901.33	0.037
## Admin2Chouteau	7081.98	101837.48	0.070
## Admin2Chowan	5437.51	101124.74	0.054
## Admin2Christian	14195.01	82800.40	0.171
## Admin2Chugach	8741.18	112215.50	0.078
## Admin2Churchill	-87480.09	104563.32	-0.837
## Admin2Ciales	-41846.01	110905.66	-0.377
## Admin2Cibola	15854.28	103097.60	0.154
## Admin2Cidra	-33029.01	110905.66	-0.298
## Admin2Cimarron	4476.20	101370.01	0.044
## Admin2Citrus	-6267.10	101334.17	-0.062
## Admin2Clackamas	74055.33	101907.72	0.727
## Admin2Claiborne	-1683.90	82933.22	-0.020
## Admin2Clallam	-20335.07	102154.94	-0.199
## Admin2Clare	-34875.90	101636.91	-0.343
## Admin2Clarendon	2969.00	99132.25	0.030
## Admin2Clarion	-14779.98	101180.12	-0.146
## Admin2Clark	63339.38	74968.12	0.845
## Admin2Clarke	18820.41	78640.93	0.239
## Admin2Clatsop	-2734.67	101907.72	-0.027
## Admin2Clay	8857.21	73951.69	0.120
## Admin2Clayton	49752.10	87627.27	0.568

## Admin2Clear Creek	-3504.41	101723.48	-0.034
## Admin2Clearfield	-647.98	101180.12	-0.006
## Admin2Clearwater	19039.18	88254.40	0.216
## Admin2Cleburne	6409.20	87767.37	0.073
## Admin2Clermont	44697.08	101000.60	0.443
## Admin2Cleveland	48806.45	82901.20	0.589
## Admin2Clinch	11195.52	100789.60	0.111
## Admin2Clinton	-2603.84	75834.22	-0.034
## Admin2Cloud	9188.48	100957.45	0.091
## Admin2Coahoma	7697.17	101090.90	0.076
## Admin2Coal	5859.20	101370.01	0.058
## Admin2Coamo	-35620.01	110905.66	-0.321
## Admin2Cobb	222058.52	100789.60	2.203
## Admin2Cochise	23513.87	109551.45	0.215
## Admin2Cochran	-12525.73	100854.74	-0.124
## Admin2Cocke	2364.21	100923.76	0.023
## Admin2Coconino	37128.87	109551.45	0.339
## Admin2Codington	19833.52	101590.98	0.195
## Admin2Coffee	13782.84	82785.08	0.166
## Admin2Coffey	9334.48	100957.45	0.092
## Admin2Coke	-12493.73	100854.74	-0.124
## Admin2Colbert	16379.79	101077.46	0.162
## Admin2Cole	26424.97	100900.71	0.262
## Admin2Coleman	-11502.73	100854.74	-0.114
## Admin2Coles	3277.35	100884.40	0.032
## Admin2Colfax	11907.27	88377.32	0.135
## Admin2Colleton	3465.00	99132.25	0.035
## Admin2Collier	59933.90	101334.17	0.591
## Admin2Collin	258300.27	100854.74	2.561
## Admin2Collingsworth	-12682.73	100854.74	-0.126
## Admin2Colonial Heights	32004.86	100968.63	0.317
## Admin2Colorado	-9123.73	100854.74	-0.090
## Admin2Colquitt	21674.52	100789.60	0.215
## Admin2Columbia	-1842.12	76326.16	-0.024
## Admin2Columbiana	9710.08	101000.60	0.096
## Admin2Columbus	19315.51	101124.74	0.191
## Admin2Colusa	-37480.69	104267.58	-0.359
## Admin2Comal	29190.27	100854.74	0.289
## Admin2Comanche	13324.32	82868.71	0.161
## Admin2Comerio	-41118.01	110905.66	-0.371
## Admin2Concho	-12199.73	100854.74	-0.121
## Admin2Concordia	-3868.08	101709.01	-0.038
## Admin2Conecuh	-794.21	101077.46	-0.008
## Admin2Conejos	-3130.41	101723.48	-0.031
## Admin2Contra Costa	247293.31	104267.58	2.372
## Admin2Converse	8937.37	103150.75	0.087
## Admin2Conway	11199.62	101084.41	0.111
## Admin2Cook	507224.52	82846.87	6.122
## Admin2Cooke	-5059.73	100854.74	-0.050
## Admin2Cooper	7564.97	100900.71	0.075
## Admin2Coos	18710.36	89511.57	0.209
## Admin2Coosa	-580.21	101077.46	-0.006
## Admin2Copiah	8700.17	101090.90	0.086
## Admin2Copper River	7644.18	112215.50	0.068

## Admin2Corozal	-35145.01	110905.66	-0.317
## Admin2Corson	10662.52	101590.98	0.105
## Admin2Cortland	-36411.01	101380.12	-0.359
## Admin2Coryell	7464.27	100854.74	0.074
## Admin2Coshocton	-9669.92	101000.60	-0.096
## Admin2Costilla	-4468.41	101723.48	-0.044
## Admin2Cottle	-13168.73	100854.74	-0.131
## Admin2Cotton	5446.20	101370.01	0.054
## Admin2Cottonwood	23249.68	101483.19	0.229
## Admin2Covington	14323.61	82800.59	0.173
## Admin2Coweta	49306.52	100789.60	0.489
## Admin2Cowley	18884.48	100957.45	0.187
## Admin2Cowlitz	-8828.07	102154.94	-0.086
## Admin2Craig	18443.53	87776.08	0.210
## Admin2Craighead	51234.62	101084.41	0.507
## Admin2Crane	-12028.73	100854.74	-0.119
## Admin2Craven	31860.51	101124.74	0.315
## Admin2Crawford	2609.65	75141.44	0.035
## Admin2Creek	25973.20	101370.01	0.256
## Admin2Crenshaw	369.79	101077.46	0.004
## Admin2Crisp	14272.52	100789.60	0.142
## Admin2Crittenden	11021.66	87722.53	0.126
## Admin2Crockett	-8964.26	87662.74	-0.102
## Admin2Crook	2861.85	88660.66	0.032
## Admin2Crosby	-11316.73	100854.74	-0.112
## Admin2Cross	10491.62	101084.41	0.104
## Admin2Crow Wing	38604.68	101483.19	0.380
## Admin2Crowley	-1872.41	101723.48	-0.018
## Admin2Culberson	-13004.73	100854.74	-0.129
## Admin2Culebra	-46514.01	110905.66	-0.419
## Admin2Cullman	26574.79	101077.46	0.263
## Admin2Culpeper	39936.86	100968.63	0.396
## Admin2Cumberland	24260.03	76329.24	0.318
## Admin2Cuming	13431.25	101068.37	0.133
## Admin2Currituck	6530.51	101124.74	0.065
## Admin2Curry	8718.30	88652.89	0.098
## Admin2Custer	9646.04	77827.40	0.124
## Admin2Cuyahoga	323555.08	101000.60	3.203
## Admin2Dade	8631.25	87628.07	0.098
## Admin2Daggett	12898.84	102885.05	0.125
## Admin2Dakota	86778.47	87915.37	0.987
## Admin2Dale	11806.79	101077.46	0.117
## Admin2Dallam	-11149.73	100854.74	-0.111
## Admin2Dallas	145983.07	78684.90	1.855
## Admin2Dane	174372.75	101338.81	1.721
## Admin2Daniels	6239.98	101837.48	0.061
## Admin2Danville	40136.86	100968.63	0.398
## Admin2Dare	10132.51	101124.74	0.100
## Admin2Darke	-4711.92	101000.60	-0.047
## Admin2Darlington	14364.00	99132.25	0.145
## Admin2Dauphin	46899.02	101180.12	0.464
## Admin2Davidson	137660.36	87735.01	1.569
## Admin2Davie	14936.51	101124.74	0.148
## Admin2Daviess	15207.41	82813.69	0.184

## Admin2Davis	71657.76	88258.22	0.812
## Admin2Davison	16414.52	101590.98	0.162
## Admin2Dawes	12901.25	101068.37	0.128
## Admin2Dawson	8174.76	80310.54	0.102
## Admin2Day	10953.52	101590.98	0.108
## Admin2De Baca	7438.28	103097.60	0.072
## Admin2De Soto	-648.08	101709.01	-0.006
## Admin2De Witt	-10329.65	100884.40	-0.102
## Admin2Deaf Smith	-7842.73	100854.74	-0.078
## Admin2Dearborn	11783.56	100945.92	0.117
## Admin2Decatur	6582.69	78658.28	0.084
## Admin2Deer Lodge	8960.98	101837.48	0.088
## Admin2Defiance	-7381.92	101000.60	-0.073
## Admin2DeKalb	40327.40	77603.83	0.520
## Admin2Del Norte	-34583.69	104267.58	-0.332
## Admin2Delaware	27992.76	77655.71	0.360
## Admin2Delta	-13460.35	83009.64	-0.162
## Admin2Denali	8151.18	112215.50	0.073
## Admin2Dent	6734.97	100900.71	0.067
## Admin2Denton	207119.27	100854.74	2.054
## Admin2Denver	216823.59	101723.48	2.132
## Admin2Des Moines	21113.69	100917.36	0.209
## Admin2Deschutes	51985.33	101907.72	0.510
## Admin2Desha	8437.62	101084.41	0.083
## Admin2DeSoto	13433.54	87847.12	0.153
## Admin2Deuel	11203.89	87947.36	0.127
## Admin2Dewey	8917.36	88034.57	0.101
## Admin2DeWitt	-6288.73	100854.74	-0.062
## Admin2Dickens	-13036.73	100854.74	-0.129
## Admin2Dickenson	30529.86	100968.63	0.302
## Admin2Dickey	16805.92	101918.90	0.165
## Admin2Dickinson	-2183.58	82903.14	-0.026
## Admin2Dickson	7659.21	100923.76	0.076
## Admin2Dillingham	8585.18	112215.50	0.077
## Admin2Dillon	3932.00	99132.25	0.040
## Admin2Dimmit	-7384.73	100854.74	-0.073
## Admin2Dinwiddie	33078.86	100968.63	0.328
## Admin2District of Columbia	173218.04	122937.08	1.409
## Admin2Divide	15632.92	101918.90	0.153
## Admin2Dixie	-39824.10	101334.17	-0.393
## Admin2Dixon	12795.25	101068.37	0.127
## Admin2Doddridge	-1591.44	101283.90	-0.016
## Admin2Dodge	23577.30	80325.03	0.294
## Admin2Dolores	-4990.41	101723.48	-0.049
## Admin2Dona Ana	82808.28	103097.60	0.803
## Admin2Doniphan	9359.48	100957.45	0.093
## Admin2Donley	-12250.73	100854.74	-0.121
## Admin2Dooly	11554.52	100789.60	0.115
## Admin2Door	6443.75	101338.81	0.064
## Admin2Dorado	-34928.01	110905.66	-0.315
## Admin2Dorchester	25462.57	86987.27	0.293
## Admin2Dougherty	32657.52	100789.60	0.324
## Admin2Douglas	28017.44	74981.39	0.374
## Admin2Drew	10326.62	101084.41	0.102

## Admin2Dubois	10498.56	100945.92	0.104
## Admin2Dubuque	40699.69	100917.36	0.403
## Admin2Duchesne	12898.84	102885.05	0.125
## Admin2Dukes	-140709.89	104101.43	-1.352
## Admin2Dukes and Nantucket	-132468.89	104101.43	-1.272
## Admin2Dundy	11805.25	101068.37	0.117
## Admin2Dunklin	12353.97	100900.71	0.122
## Admin2Dunn	14702.34	88103.08	0.167
## Admin2DuPage	268954.35	100884.40	2.666
## Admin2Duplin	20777.51	101124.74	0.205
## Admin2Durham	101104.51	101124.74	1.000
## Admin2Dutchess	34294.99	101380.12	0.338
## Admin2Duval	129758.58	87776.61	1.478
## Admin2Dyer	3356.21	100923.76	0.033
## Admin2Eagle	13237.59	101723.48	0.130
## Admin2Early	11846.52	100789.60	0.118
## Admin2East Baton Rouge	127654.92	101709.01	1.255
## Admin2East Carroll	-6944.08	101709.01	-0.068
## Admin2East Feliciana	-1981.08	101709.01	-0.019
## Admin2Eastland	-10180.73	100854.74	-0.101
## Admin2Eaton	-8475.90	101636.91	-0.083
## Admin2Eau Claire	33917.75	101338.81	0.335
## Admin2Echols	9799.52	100789.60	0.097
## Admin2Ector	29788.27	100854.74	0.295
## Admin2Eddy	20902.60	88646.98	0.236
## Admin2Edgar	-8995.65	100884.40	-0.089
## Admin2Edgecombe	17623.51	101124.74	0.174
## Admin2Edgefield	556.00	99132.25	0.006
## Admin2Edmonson	1070.71	100881.72	0.011
## Admin2Edmunds	10518.52	101590.98	0.104
## Admin2Edwards	-6378.30	82787.10	-0.077
## Admin2Effingham	11021.44	87618.17	0.126
## Admin2El Dorado	-4023.69	104267.58	-0.039
## Admin2El Paso	234223.43	87900.63	2.665
## Admin2Elbert	7193.06	87863.73	0.082
## Admin2Elk	-4424.75	87742.75	-0.050
## Admin2Elkhart	56619.56	100945.92	0.561
## Admin2Elko	-82201.09	104563.32	-0.786
## Admin2Elliott	1402.71	100881.72	0.014
## Admin2Ellis	21098.65	82868.71	0.255
## Admin2Ellsworth	8960.48	100957.45	0.089
## Admin2Elmore	23611.23	88103.63	0.268
## Admin2Emanuel	15507.52	100789.60	0.154
## Admin2Emery	12898.84	102885.05	0.125
## Admin2Emmet	-11331.61	87900.87	-0.129
## Admin2Emmons	15888.92	101918.90	0.156
## Admin2Emporia	27376.86	100968.63	0.271
## Admin2Erath	-3688.73	100854.74	-0.037
## Admin2Erie	89242.36	82913.28	1.076
## Admin2Escambia	29956.35	87830.35	0.341
## Admin2Esmeralda	-94923.09	104563.32	-0.908
## Admin2Essex	66723.23	79228.85	0.842
## Admin2Estill	3045.71	100881.72	0.030
## Admin2Etowah	29394.79	101077.46	0.291

## Admin2Eureka	-94859.09	104563.32	-0.907
## Admin2Evangeline	-81.08	101709.01	-0.001
## Admin2Evans	11562.52	100789.60	0.115
## Admin2Fairbanks North Star	39536.18	112215.50	0.352
## Admin2Fairfax	281870.86	100968.63	2.792
## Admin2Fairfax City	28409.86	100968.63	0.281
## Admin2Fairfield	88404.93	82859.15	1.067
## Admin2Fajardo	-37693.01	110905.66	-0.340
## Admin2Fall River	11896.52	101590.98	0.117
## Admin2Fallon	6548.98	101837.48	0.064
## Admin2Falls	-9117.73	100854.74	-0.090
## Admin2Falls Church	29207.86	100968.63	0.289
## Admin2Fannin	4460.89	87614.45	0.051
## Admin2Faribault	23948.68	101483.19	0.236
## Admin2Faulk	10151.52	101590.98	0.100
## Admin2Faulkner	47252.62	101084.41	0.467
## Admin2Fauquier	42106.86	100968.63	0.417
## Admin2Fayette	16230.34	75123.90	0.216
## Admin2Federal Correctional Institution (FCI)	-42584.90	101636.91	-0.419
## Admin2Fentress	-5210.79	100923.76	-0.052
## Admin2Fergus	8683.98	101837.48	0.085
## Admin2Ferry	-34122.07	102154.94	-0.334
## Admin2Fillmore	19006.97	87915.37	0.216
## Admin2Finney	19775.48	100957.45	0.196
## Admin2Fisher	-12835.73	100854.74	-0.127
## Admin2Flagler	-16155.10	101334.17	-0.159
## Admin2Flathead	39373.98	101837.48	0.387
## Admin2Fleming	2772.71	100881.72	0.027
## Admin2Florence	20574.37	86492.72	0.238
## Admin2Florida	-42400.01	110905.66	-0.382
## Admin2Floyd	17777.77	77569.26	0.229
## Admin2Fluvanna	32573.86	100968.63	0.323
## Admin2Foard	-13304.73	100854.74	-0.132
## Admin2Fond du Lac	36492.75	101338.81	0.360
## Admin2Ford	4270.92	87675.58	0.049
## Admin2Forest	-10482.12	87855.17	-0.119
## Admin2Forrest	26636.17	101090.90	0.263
## Admin2Forsyth	98713.02	87681.69	1.126
## Admin2Fort Bend	228602.27	100854.74	2.267
## Admin2Foster	16205.92	101918.90	0.159
## Admin2Fountain	2154.56	100945.92	0.021
## Admin2Franklin	16710.37	73433.06	0.228
## Admin2Franklin City	28416.86	100968.63	0.281
## Admin2Frederick	44796.51	88260.89	0.508
## Admin2Fredericksburg	32881.86	100968.63	0.326
## Admin2Freeborn	29984.68	101483.19	0.295
## Admin2Freestone	-9291.73	100854.74	-0.092
## Admin2Fremont	15637.33	80648.35	0.194
## Admin2Fresno	280503.31	104267.58	2.690
## Admin2Frio	-6914.73	100854.74	-0.069
## Admin2Frontier	12016.25	101068.37	0.119
## Admin2Fulton	28313.98	76268.62	0.371
## Admin2Furnas	12709.25	101068.37	0.126
## Admin2Gadsden	-27343.10	101334.17	-0.270

## Admin2Gage	15911.25	101068.37	0.157
## Admin2Gaines	-11171.73	100854.74	-0.111
## Admin2Galax	28975.86	100968.63	0.287
## Admin2Gallatin	11208.68	82921.65	0.135
## Admin2Gallia	-9456.92	101000.60	-0.094
## Admin2Galveston	104767.27	100854.74	1.039
## Admin2Garden	11878.25	101068.37	0.118
## Admin2Garfield	4909.63	77876.21	0.063
## Admin2Garland	31644.62	101084.41	0.313
## Admin2Garrard	3707.71	100881.72	0.037
## Admin2Garrett	-12805.85	103018.13	-0.124
## Admin2Garvin	12227.20	101370.01	0.121
## Admin2Garza	-12074.73	100854.74	-0.120
## Admin2Gasconade	6862.97	100900.71	0.068
## Admin2Gaston	80860.51	101124.74	0.800
## Admin2Gates	2713.51	101124.74	0.027
## Admin2Geary	17810.48	100957.45	0.176
## Admin2Geauga	490.08	101000.60	0.005
## Admin2Gem	17648.68	102235.13	0.173
## Admin2Genesee	23849.04	88049.24	0.271
## Admin2Geneva	3451.79	101077.46	0.034
## Admin2Gentry	5477.97	100900.71	0.054
## Admin2George	8235.17	101090.90	0.081
## Admin2Georgetown	11719.00	99132.25	0.118
## Admin2Gibson	9645.38	87697.44	0.110
## Admin2Gila	6037.87	109551.45	0.055
## Admin2Gilchrist	-39135.10	101334.17	-0.386
## Admin2Giles	15074.04	87648.40	0.172
## Admin2Gillespie	-7358.73	100854.74	-0.073
## Admin2Gilliam	-8586.67	101907.72	-0.084
## Admin2Gilmer	7662.54	87724.37	0.087
## Admin2Gilpin	-4244.41	101723.48	-0.042
## Admin2Glacier	10428.98	101837.48	0.102
## Admin2Glades	-42384.10	101334.17	-0.418
## Admin2Gladwin	-36206.90	101636.91	-0.356
## Admin2Glascock	9456.52	100789.60	0.094
## Admin2Glasscock	-13328.73	100854.74	-0.132
## Admin2Glenn	-34994.69	104267.58	-0.336
## Admin2Gloucester	15004.49	88294.16	0.170
## Admin2Glynn	35553.52	100789.60	0.353
## Admin2Gogebic	-38664.90	101636.91	-0.380
## Admin2Golden Valley	10746.95	88269.17	0.122
## Admin2Goliad	-12016.73	100854.74	-0.119
## Admin2Gonzales	-8235.73	100854.74	-0.082
## Admin2Goochland	31424.86	100968.63	0.311
## Admin2Goodhue	34954.68	101483.19	0.344
## Admin2Gooding	17304.68	102235.13	0.169
## Admin2Gordon	28285.52	100789.60	0.281
## Admin2Goshen	9893.37	103150.75	0.096
## Admin2Gosper	11852.25	101068.37	0.117
## Admin2Gove	7460.48	100957.45	0.074
## Admin2Grady	18004.36	87766.71	0.205
## Admin2Grafton	46267.40	105940.11	0.437
## Admin2Graham	3133.62	84054.94	0.037

## Admin2Grainger	-4011.79	100923.76	-0.040
## Admin2Grand	5759.72	88583.49	0.065
## Admin2Grand Forks	41466.92	101918.90	0.407
## Admin2Grand Isle	42408.06	104753.45	0.405
## Admin2Grand Traverse	-21562.90	101636.91	-0.212
## Admin2Granite	6422.98	101837.48	0.063
## Admin2Grant	8307.38	74395.89	0.112
## Admin2Granville	19422.51	101124.74	0.192
## Admin2Gratiot	-30151.90	101636.91	-0.297
## Admin2Graves	11346.71	100881.72	0.112
## Admin2Gray	679.37	87672.90	0.008
## Admin2Grays Harbor	-15709.07	102154.94	-0.154
## Admin2Grayson	18956.28	82748.87	0.229
## Admin2Greeley	9399.87	87753.36	0.107
## Admin2Green	5904.73	87780.83	0.067
## Admin2Green Lake	4045.75	101338.81	0.040
## Admin2Greenbrier	8565.56	101283.90	0.085
## Admin2Greene	11424.60	74467.55	0.153
## Admin2Greenlee	-12491.13	109551.45	-0.114
## Admin2Greensville	29577.86	100968.63	0.293
## Admin2Greenup	14133.71	100881.72	0.140
## Admin2Greenville	196220.00	99132.25	1.979
## Admin2Greenwood	13615.24	86381.15	0.158
## Admin2Greer	5340.20	101370.01	0.053
## Admin2Gregg	13173.27	100854.74	0.131
## Admin2Gregory	10680.52	101590.98	0.105
## Admin2Grenada	5987.17	101090.90	0.059
## Admin2Griggs	15722.92	101918.90	0.154
## Admin2Grimes	-3551.73	100854.74	-0.035
## Admin2Grundy	2976.80	80248.79	0.037
## Admin2Guadalupe	19857.27	88307.71	0.225
## Admin2Guanica	-43215.01	110905.66	-0.390
## Admin2Guayama	-35191.01	110905.66	-0.317
## Admin2Guayanilla	-41294.01	110905.66	-0.372
## Admin2Guaynabo	-17218.01	110905.66	-0.155
## Admin2Guernsey	-6159.92	101000.60	-0.061
## Admin2Guilford	156986.51	101124.74	1.552
## Admin2Gulf	-39681.10	101334.17	-0.392
## Admin2Gunnison	-1456.41	101723.48	-0.014
## Admin2Gurabo	-32486.01	110905.66	-0.293
## Admin2Guthrie	12797.69	100917.36	0.127
## Admin2Gwinnett	262079.52	100789.60	2.600
## Admin2Haakon	9987.52	101590.98	0.098
## Admin2Habersham	20126.52	100789.60	0.200
## Admin2Haines	7144.18	112215.50	0.064
## Admin2Hale	-1956.47	87699.46	-0.022
## Admin2Halifax	27004.19	87723.03	0.308
## Admin2Hall	29977.01	82778.95	0.362
## Admin2Hamblen	11922.21	100923.76	0.118
## Admin2Hamilton	33630.48	75444.88	0.446
## Admin2Hamlin	11227.52	101590.98	0.111
## Admin2Hampden	28442.11	104101.43	0.273
## Admin2Hampshire	-49250.16	88708.49	-0.555
## Admin2Hampton	30901.43	86384.42	0.358

## Admin2Hancock	5386.44	75460.18	0.071
## Admin2Hand	10127.52	101590.98	0.100
## Admin2Hanover	54186.86	100968.63	0.537
## Admin2Hansford	-11274.73	100854.74	-0.112
## Admin2Hanson	10202.52	101590.98	0.100
## Admin2Haralson	14954.52	100789.60	0.148
## Admin2Hardee	-34438.10	101334.17	-0.340
## Admin2Hardeman	-7813.26	87662.74	-0.089
## Admin2Hardin	5071.38	77608.60	0.065
## Admin2Harding	8243.90	88554.88	0.093
## Admin2Hardy	1541.56	101283.90	0.015
## Admin2Harford	29191.15	103018.13	0.283
## Admin2Harlan	11076.98	87714.55	0.126
## Admin2Harmon	4643.20	101370.01	0.046
## Admin2Harnett	42357.51	101124.74	0.419
## Admin2Harney	-6953.67	101907.72	-0.068
## Admin2Harper	6524.34	87844.91	0.074
## Admin2Harris	628712.89	87614.45	7.176
## Admin2Harrison	13353.50	76270.25	0.175
## Admin2Harrisonburg	40730.86	100968.63	0.403
## Admin2Hart	9448.62	87615.71	0.108
## Admin2Hartford	211113.70	108531.74	1.945
## Admin2Hartley	-12058.73	100854.74	-0.120
## Admin2Harvey	18206.48	100957.45	0.180
## Admin2Haskell	750.65	82868.71	0.009
## Admin2Hatillo	-35249.01	110905.66	-0.318
## Admin2Hawaii	39651.04	122937.08	0.323
## Admin2Hawkins	8984.21	100923.76	0.089
## Admin2Hayes	11513.25	101068.37	0.114
## Admin2Hays	63851.27	100854.74	0.633
## Admin2Haywood	6489.36	87735.01	0.074
## Admin2Heard	11294.52	100789.60	0.112
## Admin2Hemphill	-12122.73	100854.74	-0.120
## Admin2Hempstead	10396.62	101084.41	0.103
## Admin2Henderson	7525.21	78673.46	0.096
## Admin2Hendricks	43023.56	100945.92	0.426
## Admin2Hendry	-31050.10	101334.17	-0.306
## Admin2Hennepin	398601.68	101483.19	3.928
## Admin2Henrico	114080.86	100968.63	1.130
## Admin2Henry	15094.87	75411.33	0.200
## Admin2Herkimer	-32306.01	101380.12	-0.319
## Admin2Hernando	8329.90	101334.17	0.082
## Admin2Hertford	6579.51	101124.74	0.065
## Admin2Hettinger	16003.92	101918.90	0.157
## Admin2Hickman	-2410.04	87674.38	-0.027
## Admin2Hickory	5199.97	100900.71	0.052
## Admin2Hidalgo	128707.77	88307.71	1.457
## Admin2Highland	9950.47	87666.07	0.114
## Admin2Highlands	-14357.10	101334.17	-0.142
## Admin2Hill	3795.62	87930.17	0.043
## Admin2Hillsborough	285001.65	89303.43	3.191
## Admin2Hillsdale	-30362.90	101636.91	-0.299
## Admin2Hinds	66146.17	101090.90	0.654
## Admin2Hinsdale	-5251.41	101723.48	-0.052

## Admin2Hitchcock	12029.25	101068.37	0.119
## Admin2Hocking	-11112.92	101000.60	-0.110
## Admin2Hockley	-4252.73	100854.74	-0.042
## Admin2Hodgeman	7031.48	100957.45	0.070
## Admin2Hoke	19358.51	101124.74	0.191
## Admin2Holmes	-15801.28	82880.33	-0.191
## Admin2Holt	9044.11	87728.16	0.103
## Admin2Honolulu	258577.04	122937.08	2.103
## Admin2Hood	1336.27	100854.74	0.013
## Admin2Hood River	-4321.67	101907.72	-0.042
## Admin2Hooker	11531.25	101068.37	0.114
## Admin2Hoonah-Angoon	6351.18	112215.50	0.057
## Admin2Hopewell	33443.86	100968.63	0.331
## Admin2Hopkins	6112.49	87654.17	0.070
## Admin2Hormigueros	-42062.01	110905.66	-0.379
## Admin2Horry	111484.00	99132.25	1.125
## Admin2Hot Spring	17774.62	101084.41	0.176
## Admin2Hot Springs	6709.37	103150.75	0.065
## Admin2Houghton	-33506.90	101636.91	-0.330
## Admin2Houston	18409.89	78689.86	0.234
## Admin2Howard	14708.50	76883.83	0.191
## Admin2Howell	13707.97	100900.71	0.136
## Admin2Hubbard	25547.68	101483.19	0.252
## Admin2Hudson	139392.11	102944.26	1.354
## Admin2Hudspeth	-12391.73	100854.74	-0.123
## Admin2Huerfano	-3663.41	101723.48	-0.036
## Admin2Hughes	10651.36	88034.57	0.121
## Admin2Humacao	-30131.01	110905.66	-0.272
## Admin2Humboldt	-31030.03	83831.08	-0.370
## Admin2Humphreys	-2075.31	87733.00	-0.024
## Admin2Hunt	5911.27	100854.74	0.059
## Admin2Hunterdon	-60594.89	102944.26	-0.589
## Admin2Huntingdon	-10877.98	101180.12	-0.108
## Admin2Huntington	9963.56	100945.92	0.099
## Admin2Huron	-17521.41	87918.99	-0.199
## Admin2Hutchinson	2722.89	87865.05	0.031
## Admin2Hyde	5924.52	87927.39	0.067
## Admin2Iberia	13479.92	101709.01	0.133
## Admin2Iberville	1204.92	101709.01	0.012
## Admin2Ida	12151.69	100917.36	0.120
## Admin2Idaho	16974.68	102235.13	0.166
## Admin2Imperial	45040.31	104267.58	0.432
## Admin2Independence	17487.62	101084.41	0.173
## Admin2Indian River	-2718.10	101334.17	-0.027
## Admin2Indiana	-3048.98	101180.12	-0.030
## Admin2Ingham	40488.10	101636.91	0.398
## Admin2Inyo	-36761.69	104267.58	-0.353
## Admin2Ionia	-23207.90	101636.91	-0.228
## Admin2Iosco	-37301.90	101636.91	-0.367
## Admin2Iowa	9460.22	87792.50	0.108
## Admin2Iredell	60973.51	101124.74	0.603
## Admin2Irion	-12956.73	100854.74	-0.128
## Admin2Iron	-5365.34	80511.06	-0.067
## Admin2Iroquois	-6719.65	100884.40	-0.067

## Admin2Irwin	10927.52	100789.60	0.108
## Admin2Isabela	-33006.01	110905.66	-0.298
## Admin2Isabella	-25126.90	101636.91	-0.247
## Admin2Isanti	31105.68	101483.19	0.307
## Admin2Island	-22416.07	102154.94	-0.219
## Admin2Isle of Wight	34785.86	100968.63	0.345
## Admin2Issaquena	-47.83	101090.90	0.000
## Admin2Itasca	32876.68	101483.19	0.324
## Admin2Itawamba	8919.17	101090.90	0.088
## Admin2Izard	9461.62	101084.41	0.094
## Admin2Jack	-11905.73	100854.74	-0.118
## Admin2Jackson	13539.06	73489.13	0.184
## Admin2James City	46624.86	100968.63	0.462
## Admin2Jasper	8742.82	75819.37	0.115
## Admin2Jay	1551.56	100945.92	0.015
## Admin2Jayuya	-41533.01	110905.66	-0.374
## Admin2Jeff Davis	-96.11	87614.45	-0.001
## Admin2Jefferson	36962.40	73384.27	0.504
## Admin2Jefferson Davis	570.55	87968.31	0.006
## Admin2Jenkins	10474.52	100789.60	0.104
## Admin2Jennings	3886.56	100945.92	0.039
## Admin2Jerauld	9947.52	101590.98	0.098
## Admin2Jerome	20461.68	102235.13	0.200
## Admin2Jersey	-7717.65	100884.40	-0.076
## Admin2Jessamine	16524.71	100881.72	0.164
## Admin2Jewell	7485.48	100957.45	0.074
## Admin2Jim Hogg	-9823.73	100854.74	-0.097
## Admin2Jim Wells	445.27	100854.74	0.004
## Admin2Jo Daviess	-10378.65	100884.40	-0.103
## Admin2Johnson	31094.83	74904.03	0.415
## Admin2Johnston	41211.86	87861.70	0.469
## Admin2Jones	10229.61	77625.51	0.132
## Admin2Josephine	11725.33	101907.72	0.115
## Admin2Juab	12898.84	102885.05	0.125
## Admin2Juana Diaz	-32663.01	110905.66	-0.295
## Admin2Judith Basin	6041.98	101837.48	0.059
## Admin2Juncos	-34401.01	110905.66	-0.310
## Admin2Juneau	12613.96	91253.89	0.138
## Admin2Juniata	-18879.98	101180.12	-0.187
## Admin2Kalamazoo	31801.10	101636.91	0.313
## Admin2Kalawao	-2350.96	122937.08	-0.019
## Admin2Kalkaska	-38452.90	101636.91	-0.378
## Admin2Kanabec	23781.68	101483.19	0.234
## Admin2Kanawha	54444.56	101283.90	0.538
## Admin2Kandiyohi	35043.68	101483.19	0.345
## Admin2Kane	80353.60	88251.21	0.911
## Admin2Kankakee	20822.35	100884.40	0.206
## Admin2Kansas City	140828.97	100900.71	1.396
## Admin2Karnes	-7173.73	100854.74	-0.071
## Admin2Kauai	16503.04	122937.08	0.134
## Admin2Kaufman	28531.27	100854.74	0.283
## Admin2Kay	19248.20	101370.01	0.190
## Admin2Kearney	12781.25	101068.37	0.126
## Admin2Kearny	7907.48	100957.45	0.078

## Admin2Keith	13188.25	101068.37	0.130
## Admin2Kemper	2220.17	101090.90	0.022
## Admin2Kenai Peninsula	28773.18	112215.50	0.256
## Admin2Kendall	10892.81	87651.15	0.124
## Admin2Kenedy	-13451.73	100854.74	-0.133
## Admin2Kennebec	27700.50	103438.46	0.268
## Admin2Kenosha	53479.75	101338.81	0.528
## Admin2Kent	40898.36	79752.91	0.513
## Admin2Kenton	50956.71	100881.72	0.505
## Admin2Keokuk	12511.69	100917.36	0.124
## Admin2Kern	262419.31	104267.58	2.517
## Admin2Kerr	-2619.73	100854.74	-0.026
## Admin2Kershaw	19628.00	99132.25	0.198
## Admin2Ketchikan Gateway	11468.18	112215.50	0.102
## Admin2Kewaunee	4525.75	101338.81	0.045
## Admin2Keweenaw	-42266.90	101636.91	-0.416
## Admin2Keya Paha	11540.25	101068.37	0.114
## Admin2Kidder	15640.92	101918.90	0.153
## Admin2Kimball	12233.25	101068.37	0.121
## Admin2Kimble	-12635.73	100854.74	-0.125
## Admin2King	246010.10	88025.15	2.795
## Admin2King and Queen	27210.86	100968.63	0.269
## Admin2King George	32536.86	100968.63	0.322
## Admin2King William	30415.86	100968.63	0.301
## Admin2Kingfisher	8572.20	101370.01	0.085
## Admin2Kingman	8833.48	100957.45	0.087
## Admin2Kings	459801.15	88834.26	5.176
## Admin2Kingsbury	11000.52	101590.98	0.108
## Admin2Kinney	-12728.73	100854.74	-0.126
## Admin2Kiowa	2810.43	83007.59	0.034
## Admin2Kit Carson	-3545.41	101723.48	-0.035
## Admin2Kitsap	15775.93	102154.94	0.154
## Admin2Kittitas	-25639.07	102154.94	-0.251
## Admin2Kittson	20753.68	101483.19	0.205
## Admin2Klamath	8720.33	101907.72	0.086
## Admin2Kleberg	-4424.73	100854.74	-0.044
## Admin2Klickitat	-31620.07	102154.94	-0.310
## Admin2Knott	3808.71	100881.72	0.038
## Admin2Knox	19367.77	75842.07	0.255
## Admin2Kodiak Island	12142.18	112215.50	0.108
## Admin2Koochiching	23161.68	101483.19	0.228
## Admin2Kootenai	60172.68	102235.13	0.589
## Admin2Kosciusko	18501.56	100945.92	0.183
## Admin2Kossuth	14365.69	100917.36	0.142
## Admin2Kusilvak	11171.18	112215.50	0.100
## Admin2La Crosse	40729.75	101338.81	0.402
## Admin2La Paz	-9264.13	109551.45	-0.085
## Admin2La Plata	10288.59	101723.48	0.101
## Admin2La Salle	-10973.73	100854.74	-0.109
## Admin2Labette	14386.48	100957.45	0.143
## Admin2Lac qui Parle	21680.68	101483.19	0.214
## Admin2Lackawanna	32773.02	101180.12	0.324
## Admin2Laclede	12342.97	100900.71	0.122
## Admin2Lafayette	10780.39	77679.53	0.139

## Admin2Lafourche	23824.92	101709.01	0.234
## Admin2LaGrange	2285.56	100945.92	0.023
## Admin2Lajas	-40259.01	110905.66	-0.363
## Admin2Lake	31950.97	74976.61	0.426
## Admin2Lake of the Woods	20445.68	101483.19	0.201
## Admin2Lamar	8580.19	80245.39	0.107
## Admin2Lamb	-8470.73	100854.74	-0.084
## Admin2Lamoille	45458.06	104753.45	0.434
## Admin2LaMoure	16201.92	101918.90	0.159
## Admin2Lampasas	-7230.73	100854.74	-0.072
## Admin2Lancaster	69758.03	79459.43	0.878
## Admin2Lander	-93712.09	104563.32	-0.896
## Admin2Lane	37996.90	87985.62	0.432
## Admin2Langlade	4379.75	101338.81	0.043
## Admin2Lanier	11417.52	100789.60	0.113
## Admin2Lapeer	-18844.90	101636.91	-0.185
## Admin2LaPorte	27173.56	100945.92	0.269
## Admin2Laramie	36574.37	103150.75	0.355
## Admin2Lares	-36082.01	110905.66	-0.325
## Admin2Larimer	101728.59	101723.48	1.000
## Admin2Larue	2591.71	100881.72	0.026
## Admin2Las Animas	-1049.41	101723.48	-0.010
## Admin2Las Marias	-44222.01	110905.66	-0.399
## Admin2Las Piedras	-35040.01	110905.66	-0.316
## Admin2LaSalle	7964.64	87905.19	0.091
## Admin2Lassen	-31466.69	104267.58	-0.302
## Admin2Latah	21076.68	102235.13	0.206
## Admin2Latimer	6455.20	101370.01	0.064
## Admin2Lauderdale	14666.06	82842.76	0.177
## Admin2Laurel	24298.71	100881.72	0.241
## Admin2Laurens	19919.26	86332.14	0.231
## Admin2Lavaca	-8692.73	100854.74	-0.086
## Admin2Lawrence	5550.27	75147.05	0.074
## Admin2Le Flore	19117.20	101370.01	0.189
## Admin2Le Sueur	26960.68	101483.19	0.266
## Admin2Lea	29325.28	103097.60	0.284
## Admin2Leake	7144.17	101090.90	0.071
## Admin2Leavenworth	30454.48	100957.45	0.302
## Admin2Lebanon	20156.02	101180.12	0.199
## Admin2Lee	29536.20	74561.51	0.396
## Admin2Leelanau	-38517.90	101636.91	-0.379
## Admin2Leflore	8207.17	101090.90	0.081
## Admin2Lehigh	85354.02	101180.12	0.844
## Admin2Lemhi	15156.68	102235.13	0.148
## Admin2Lenawee	-12406.90	101636.91	-0.122
## Admin2Lenoir	20091.51	101124.74	0.199
## Admin2Leon	28962.58	87776.61	0.330
## Admin2Leslie	2989.71	100881.72	0.030
## Admin2Letcher	7552.71	100881.72	0.075
## Admin2Levy	-32107.10	101334.17	-0.317
## Admin2Lewis	-5475.28	76941.56	-0.071
## Admin2Lewis and Clark	27437.98	101837.48	0.269
## Admin2Lexington	71208.43	86384.42	0.824
## Admin2Liberty	-730.08	80321.75	-0.009

## Admin2Licking	32401.08	101000.60	0.321
## Admin2Limestone	9751.03	87699.46	0.111
## Admin2Lincoln	4887.99	73537.42	0.066
## Admin2Linn	28431.62	80330.96	0.354
## Admin2Lipscomb	-12747.73	100854.74	-0.126
## Admin2Litchfield	18330.70	108531.74	0.169
## Admin2Little River	8668.62	101084.41	0.086
## Admin2Live Oak	-11150.73	100854.74	-0.111
## Admin2Livingston	3393.84	77695.13	0.044
## Admin2Llano	-8510.73	100854.74	-0.084
## Admin2Logan	7229.08	75480.95	0.096
## Admin2Loiza	-41450.01	110905.66	-0.374
## Admin2Long	12189.52	100789.60	0.121
## Admin2Lonoke	28480.62	101084.41	0.282
## Admin2Lorain	68096.08	101000.60	0.674
## Admin2Los Alamos	11258.28	103097.60	0.109
## Admin2Los Angeles	3622623.31	104267.58	34.744
## Admin2Loudon	6174.21	100923.76	0.061
## Admin2Loudoun	121610.86	100968.63	1.204
## Admin2Louisa	23753.77	87652.73	0.271
## Admin2Loup	11497.25	101068.37	0.114
## Admin2Love	7695.20	101370.01	0.076
## Admin2Loving	-13165.73	100854.74	-0.131
## Admin2Lowndes	21559.49	82815.96	0.260
## Admin2Lubbock	98223.27	100854.74	0.974
## Admin2Lucas	58394.88	87701.61	0.666
## Admin2Luce	-41258.90	101636.91	-0.406
## Admin2Lumpkin	17540.52	100789.60	0.174
## Admin2Luna	14649.28	103097.60	0.142
## Admin2Lunenburg	29055.86	100968.63	0.288
## Admin2Luquillo	-41959.01	110905.66	-0.378
## Admin2Luzerne	67818.02	101180.12	0.670
## Admin2Lycoming	9684.02	101180.12	0.096
## Admin2Lyman	10876.52	101590.98	0.107
## Admin2Lynchburg	49536.86	100968.63	0.491
## Admin2Lynn	-11863.73	100854.74	-0.118
## Admin2Lyon	-4461.71	78912.21	-0.057
## Admin2Mackinac	-39959.90	101636.91	-0.393
## Admin2Macomb	253185.10	101636.91	2.491
## Admin2Macon	8598.39	77598.97	0.111
## Admin2Macoupin	317.35	100884.40	0.003
## Admin2Madera	11895.31	104267.58	0.114
## Admin2Madison	17546.85	73760.77	0.238
## Admin2Magoffin	2929.71	100881.72	0.029
## Admin2Mahaska	15775.69	100917.36	0.156
## Admin2Mahnomen	21666.68	101483.19	0.214
## Admin2Mahoning	46597.08	101000.60	0.461
## Admin2Major	6303.20	101370.01	0.062
## Admin2Malheur	610.33	101907.72	0.006
## Admin2Manassas	37372.86	100968.63	0.370
## Admin2Manassas Park	30585.86	100968.63	0.303
## Admin2Manatee	76853.90	101334.17	0.758
## Admin2Manati	-34763.01	110905.66	-0.313
## Admin2Manistee	-38115.90	101636.91	-0.375

## Admin2Manitowoc	22622.75	101338.81	0.223
## Admin2Marathon	46420.75	101338.81	0.458
## Admin2Marengo	1713.79	101077.46	0.017
## Admin2Maricao	-45473.01	110905.66	-0.410
## Admin2Maricopa	1478415.87	109551.45	13.495
## Admin2Maries	4765.97	100900.71	0.047
## Admin2Marin	11142.31	104267.58	0.107
## Admin2Marinette	12041.75	101338.81	0.119
## Admin2Marion	28692.84	73845.13	0.389
## Admin2Mariposa	-38243.69	104267.58	-0.367
## Admin2Marlboro	2054.00	99132.25	0.021
## Admin2Marquette	-10866.08	88033.57	-0.123
## Admin2Marshall	10432.99	74903.20	0.139
## Admin2Martin	2892.94	77642.48	0.037
## Admin2Martinsville	30247.86	100968.63	0.300
## Admin2Mason	-11587.51	77694.46	-0.149
## Admin2Massac	-10883.65	100884.40	-0.108
## Admin2Matagorda	-3403.73	100854.74	-0.034
## Admin2Matanuska-Susitna	46794.18	112215.50	0.417
## Admin2Mathews	27791.86	100968.63	0.275
## Admin2Maui	42707.04	122937.08	0.347
## Admin2Maunabo	-43776.01	110905.66	-0.395
## Admin2Maury	22449.21	100923.76	0.222
## Admin2Maverick	10401.27	100854.74	0.103
## Admin2Mayaguez	-25013.01	110905.66	-0.226
## Admin2Mayes	16756.20	101370.01	0.165
## Admin2McClain	18258.20	101370.01	0.180
## Admin2McCone	6207.98	101837.48	0.061
## Admin2McCook	10954.52	101590.98	0.108
## Admin2McCormick	-4977.00	99132.25	-0.050
## Admin2McCracken	21526.71	100881.72	0.213
## Admin2McCreary	5459.71	100881.72	0.054
## Admin2McCulloch	-11725.73	100854.74	-0.116
## Admin2McCurtain	13404.20	101370.01	0.132
## Admin2McDonald	8963.97	100900.71	0.089
## Admin2McDonough	-6606.65	100884.40	-0.065
## Admin2McDowell	10303.04	87821.06	0.117
## Admin2McDuffie	14836.52	100789.60	0.147
## Admin2McHenry	48950.64	87971.32	0.556
## Admin2McIntosh	12293.55	82972.08	0.148
## Admin2McKean	-14891.98	101180.12	-0.147
## Admin2McKenzie	18668.92	101918.90	0.183
## Admin2McKinley	39356.28	103097.60	0.382
## Admin2McLean	22335.33	82936.81	0.269
## Admin2McLennan	60362.27	100854.74	0.599
## Admin2McLeod	32354.68	101483.19	0.319
## Admin2McMinn	7461.21	100923.76	0.074
## Admin2McMullen	-13370.73	100854.74	-0.133
## Admin2McNairy	-2682.79	100923.76	-0.027
## Admin2McPherson	12471.09	82942.76	0.150
## Admin2Meade	10265.90	82897.72	0.124
## Admin2Meagher	6348.98	101837.48	0.062
## Admin2Mecklenburg	197393.69	87723.03	2.250
## Admin2Mecosta	-32780.90	101636.91	-0.323

## Admin2Medina	14433.17	87677.83	0.165
## Admin2Meeker	26577.68	101483.19	0.262
## Admin2Meigs	-10695.86	87701.53	-0.122
## Admin2Mellette	10110.52	101590.98	0.100
## Admin2Menard	-11938.69	87651.15	-0.136
## Admin2Mendocino	-21242.69	104267.58	-0.204
## Admin2Menifee	174.71	100881.72	0.002
## Admin2Menominee	-17918.08	88033.57	-0.204
## Admin2Merced	45303.31	104267.58	0.434
## Admin2Mercer	5749.84	76321.46	0.075
## Admin2Meriwether	14216.52	100789.60	0.141
## Admin2Merrick	13454.25	101068.37	0.133
## Admin2Merrimack	63068.40	105940.11	0.595
## Admin2Mesa	45726.59	101723.48	0.450
## Admin2Metcalfe	1472.71	100881.72	0.015
## Admin2Miami	11448.71	82817.92	0.138
## Admin2Miami-Dade	1480341.90	101334.17	14.609
## Admin2Michigan Department of Corrections (MDOC)	-1018.90	101636.91	-0.010
## Admin2Middlesex	127330.95	81338.41	1.565
## Admin2Midland	7077.18	87873.64	0.081
## Admin2Mifflin	-9655.98	101180.12	-0.095
## Admin2Milam	-7627.73	100854.74	-0.076
## Admin2Millard	12898.84	102885.05	0.125
## Admin2Mille Lacs	27817.68	101483.19	0.274
## Admin2Miller	12296.37	82797.80	0.149
## Admin2Mills	1037.98	87658.46	0.012
## Admin2Milwaukee	334132.75	101338.81	3.297
## Admin2Miner	10005.52	101590.98	0.098
## Admin2Mineral	-21391.74	80749.53	-0.265
## Admin2Mingo	5771.56	101283.90	0.057
## Admin2Minidoka	18171.68	102235.13	0.178
## Admin2Minnehaha	73629.52	101590.98	0.725
## Admin2Missaukee	-39370.90	101636.91	-0.387
## Admin2Mississippi	14079.29	87739.15	0.160
## Admin2Missoula	39229.98	101837.48	0.385
## Admin2Mitchell	5927.89	78653.86	0.075
## Admin2Mobile	128536.79	101077.46	1.272
## Admin2Moca	-33972.01	110905.66	-0.306
## Admin2Modoc	-41424.69	104267.58	-0.397
## Admin2Moffat	-1726.41	101723.48	-0.017
## Admin2Mohave	51492.87	109551.45	0.470
## Admin2Moniteau	7133.97	100900.71	0.071
## Admin2Monmouth	124473.11	102944.26	1.209
## Admin2Mono	-39138.69	104267.58	-0.375
## Admin2Monona	12102.69	100917.36	0.120
## Admin2Monongalia	26831.56	101283.90	0.265
## Admin2Monroe	13735.53	74063.09	0.185
## Admin2Montague	-8233.73	100854.74	-0.082
## Admin2Montcalm	-25147.90	101636.91	-0.247
## Admin2Monterey	77260.31	104267.58	0.741
## Admin2Montezuma	2144.59	101723.48	0.021
## Admin2Montgomery	50051.27	73930.71	0.677
## Admin2Montmorency	-40935.90	101636.91	-0.403
## Admin2Montour	-18736.98	101180.12	-0.185

## Admin2Montrose	5666.59	101723.48	0.056
## Admin2Moody	11140.52	101590.98	0.110
## Admin2Moore	4897.33	82808.61	0.059
## Admin2Mora	7677.28	103097.60	0.074
## Admin2Morehouse	-1761.08	101709.01	-0.017
## Admin2Morgan	6782.38	75168.05	0.090
## Admin2Morovis	-37944.01	110905.66	-0.342
## Admin2Morrill	12747.25	101068.37	0.126
## Admin2Morris	21906.95	83052.37	0.264
## Admin2Morrison	30498.68	101483.19	0.301
## Admin2Morrow	-7935.80	87990.65	-0.090
## Admin2Morton	17692.20	87982.37	0.201
## Admin2Motley	-13231.73	100854.74	-0.131
## Admin2Moultrie	-10596.65	100884.40	-0.105
## Admin2Mountrail	18859.92	101918.90	0.185
## Admin2Mower	33238.68	101483.19	0.328
## Admin2Muhlenberg	10942.71	100881.72	0.108
## Admin2Multnomah	159600.33	101907.72	1.566
## Admin2Murray	17658.14	82919.44	0.213
## Admin2Muscatine	21207.69	100917.36	0.210
## Admin2Muscogee	53778.52	100789.60	0.534
## Admin2Muskegon	5145.10	101636.91	0.051
## Admin2Muskingum	11586.08	101000.60	0.115
## Admin2Muskogee	27791.20	101370.01	0.274
## Admin2Musselshell	6851.98	101837.48	0.067
## Admin2Nacogdoches	1109.27	100854.74	0.011
## Admin2Naguabo	-39901.01	110905.66	-0.360
## Admin2Nance	12288.25	101068.37	0.122
## Admin2Nantucket	-140709.89	104101.43	-1.352
## Admin2Napa	-7347.69	104267.58	-0.070
## Admin2Naranjito	-37465.01	110905.66	-0.338
## Admin2Nash	32427.51	101124.74	0.321
## Admin2Nassau	238520.94	87938.14	2.712
## Admin2Natchitoches	2619.92	101709.01	0.026
## Admin2Natrona	30936.37	103150.75	0.300
## Admin2Navajo	32454.87	109551.45	0.296
## Admin2Navarro	703.27	100854.74	0.007
## Admin2Nelson	20570.50	82894.61	0.248
## Admin2Nemaha	11649.37	87753.36	0.133
## Admin2Neosho	12578.48	100957.45	0.125
## Admin2Neshoba	12127.17	101090.90	0.120
## Admin2Ness	7423.48	100957.45	0.074
## Admin2Nevada	-6494.04	88724.14	-0.073
## Admin2New Castle	152460.15	110162.31	1.384
## Admin2New Hanover	63716.51	101124.74	0.630
## Admin2New Haven	231400.70	108531.74	2.132
## Admin2New Kent	31613.86	100968.63	0.313
## Admin2New London	49982.70	108531.74	0.461
## Admin2New Madrid	8790.97	100900.71	0.087
## Admin2New York	535549.99	101380.12	5.283
## Admin2Newaygo	-29373.90	101636.91	-0.289
## Admin2Newberry	8502.00	99132.25	0.086
## Admin2Newport	8244.14	107515.35	0.077
## Admin2Newport News	74429.86	100968.63	0.737

## Admin2Newton	9319.18	77614.35	0.120
## Admin2Nez Perce	23908.68	102235.13	0.234
## Admin2Niagara	9344.99	101380.12	0.092
## Admin2Nicholas	2848.64	87778.90	0.032
## Admin2Nicollet	29270.68	101483.19	0.288
## Admin2Niobrara	6136.37	103150.75	0.059
## Admin2Noble	999.62	82879.41	0.012
## Admin2Nobles	27378.68	101483.19	0.270
## Admin2Nodaway	9996.97	100900.71	0.099
## Admin2Nolan	-10055.73	100854.74	-0.100
## Admin2Nome	13468.18	112215.50	0.120
## Admin2Norfolk	54587.99	88650.74	0.616
## Admin2Norman	21304.68	101483.19	0.210
## Admin2North Slope	11669.18	112215.50	0.104
## Admin2Northampton	36237.80	82820.33	0.438
## Admin2Northumberland	15970.94	87726.72	0.182
## Admin2Northwest Arctic	12067.18	112215.50	0.108
## Admin2Norton	18163.17	87652.83	0.207
## Admin2Nottoway	31355.86	100968.63	0.311
## Admin2Nowata	6973.20	101370.01	0.069
## Admin2Noxubee	3203.17	101090.90	0.032
## Admin2Nuckolls	12502.25	101068.37	0.124
## Admin2Nueces	88447.27	100854.74	0.877
## Admin2Nye	-85931.09	104563.32	-0.822
## Admin2O'Brien	13885.69	100917.36	0.138
## Admin2Oakland	336072.10	101636.91	3.307
## Admin2Obion	1011.21	100923.76	0.010
## Admin2Ocean	116749.11	102944.26	1.134
## Admin2Oceana	-35298.90	101636.91	-0.347
## Admin2Ochiltree	-10903.73	100854.74	-0.108
## Admin2Ocone	20069.26	86332.14	0.232
## Admin2Oconto	10980.75	101338.81	0.108
## Admin2Ogemaw	-37888.90	101636.91	-0.373
## Admin2Oglala Lakota	14285.52	101590.98	0.141
## Admin2Ogle	1805.35	100884.40	0.018
## Admin2Oglethorpe	12473.52	100789.60	0.124
## Admin2Ohio	4634.28	82854.55	0.056
## Admin2Okaaloosa	16439.90	101334.17	0.162
## Admin2Okanogan	-25463.07	102154.94	-0.249
## Admin2Okeechobee	-32357.10	101334.17	-0.319
## Admin2Okfuskee	7957.20	101370.01	0.078
## Admin2Oklahoma	245103.20	101370.01	2.418
## Admin2Oklmulgee	15315.20	101370.01	0.151
## Admin2Oktibbeha	13127.17	101090.90	0.130
## Admin2Oldham	3940.49	87654.17	0.045
## Admin2Oliver	15426.92	101918.90	0.151
## Admin2Olmsted	71795.68	101483.19	0.707
## Admin2Oneida	13899.81	83112.34	0.167
## Admin2Onondaga	91488.99	101380.12	0.902
## Admin2Onslow	64362.51	101124.74	0.636
## Admin2Ontario	-23688.01	101380.12	-0.234
## Admin2Ontonagon	-41594.90	101636.91	-0.409
## Admin2Orange	172464.81	76416.61	2.257
## Admin2Orangeburg	21412.00	99132.25	0.216

## Admin2Oregon	5235.97	100900.71	0.052
## Admin2Orleans	36781.99	83541.35	0.440
## Admin2Orocovis	-40552.01	110905.66	-0.366
## Admin2Osage	11732.55	82877.95	0.142
## Admin2Osborne	7543.48	100957.45	0.075
## Admin2Osceola	24110.23	82958.44	0.291
## Admin2Oscoda	-41227.90	101636.91	-0.406
## Admin2Oswego	-15378.01	101380.12	-0.152
## Admin2Otero	11768.44	88649.12	0.133
## Admin2Otoe	15256.25	101068.37	0.151
## Admin2Otsego	-36306.46	88049.24	-0.412
## Admin2Ottawa	14587.97	80353.63	0.182
## Admin2Otter Tail	35539.68	101483.19	0.350
## Admin2Ouachita	32353.27	87964.80	0.368
## Admin2Ouray	-4303.41	101723.48	-0.042
## Admin2Out of AK	6351.18	112215.50	0.057
## Admin2Out of AL	-4278.21	101077.46	-0.042
## Admin2Out of AR	4813.62	101084.41	0.048
## Admin2Out of AZ	-15179.13	109551.45	-0.139
## Admin2Out of CA	-42741.69	104267.58	-0.410
## Admin2Out of CO	-5410.41	101723.48	-0.053
## Admin2Out of CT	-22797.30	108531.74	-0.210
## Admin2Out of DC	-2350.96	122937.08	-0.019
## Admin2Out of DE	-31520.85	110162.31	-0.286
## Admin2Out of FL	-44656.10	101334.17	-0.441
## Admin2Out of GA	106447.52	100789.60	1.056
## Admin2Out of HI	6732.04	122937.08	0.055
## Admin2Out of IA	10052.69	100917.36	0.100
## Admin2Out of ID	13430.68	102235.13	0.131
## Admin2Out of IL	-15473.65	100884.40	-0.153
## Admin2Out of IN	-4197.44	100945.92	-0.042
## Admin2Out of KS	6539.48	100957.45	0.065
## Admin2Out of KY	-2144.29	100881.72	-0.021
## Admin2Out of LA	-10167.08	101709.01	-0.100
## Admin2Out of MA	-140709.89	104101.43	-1.352
## Admin2Out of MD	-19831.85	103018.13	-0.193
## Admin2Out of ME	-1850.50	103438.46	-0.018
## Admin2Out of MI	-33646.90	101636.91	-0.331
## Admin2Out of MN	19531.68	101483.19	0.192
## Admin2Out of MO	2831.97	100900.71	0.028
## Admin2Out of MS	-347.83	101090.90	-0.003
## Admin2Out of MT	5759.98	101837.48	0.057
## Admin2Out of NC	356.51	101124.74	0.004
## Admin2Out of ND	15052.92	101918.90	0.148
## Admin2Out of NE	11405.25	101068.37	0.113
## Admin2Out of NH	23386.40	105940.11	0.221
## Admin2Out of NJ	-94628.89	102944.26	-0.919
## Admin2Out of NM	6694.28	103097.60	0.065
## Admin2Out of NV	-95047.09	104563.32	-0.909
## Admin2Out of NY	-49567.01	101380.12	-0.489
## Admin2Out of OH	-19613.92	101000.60	-0.194
## Admin2Out of OK	3785.20	101370.01	0.037
## Admin2Out of OR	-8907.67	101907.72	-0.087
## Admin2Out of PA	-24541.98	101180.12	-0.243

## Admin2Out of PR	-46608.01	110905.66	-0.420
## Admin2Out of RI	-17793.86	107515.35	-0.166
## Admin2Out of SC	-7682.00	99132.25	-0.077
## Admin2Out of SD	9472.52	101590.98	0.093
## Admin2Out of TN	49980.21	100923.76	0.495
## Admin2Out of TX	-13554.73	100854.74	-0.134
## Admin2Out of UT	12898.84	102885.05	0.125
## Admin2Out of VA	25774.86	100968.63	0.255
## Admin2Out of VT	41131.06	104753.45	0.393
## Admin2Out of WA	-35908.07	102154.94	-0.352
## Admin2Out of WI	-2238.25	101338.81	-0.022
## Admin2Out of WV	-4079.44	101283.90	-0.040
## Admin2Out of WY	5277.37	103150.75	0.051
## Admin2Outagamie	61776.75	101338.81	0.610
## Admin2Overton	-3598.79	100923.76	-0.036
## Admin2Owen	1778.64	87692.39	0.020
## Admin2Owsley	-84.29	100881.72	-0.001
## Admin2Owyhee	16005.68	102235.13	0.157
## Admin2Oxford	12420.50	103438.46	0.120
## Admin2Ozark	4854.97	100900.71	0.048
## Admin2Ozaukee	25281.75	101338.81	0.249
## Admin2Pacific	-31117.07	102154.94	-0.305
## Admin2Page	23276.77	87652.73	0.266
## Admin2Palm Beach	427754.90	101334.17	4.221
## Admin2Palo Alto	12419.69	100917.36	0.123
## Admin2Palo Pinto	-5600.73	100854.74	-0.056
## Admin2Pamlico	3735.51	101124.74	0.037
## Admin2Panola	1942.72	87708.03	0.022
## Admin2Park	7276.65	83467.35	0.087
## Admin2Parke	91.56	100945.92	0.001
## Admin2Parker	26415.27	100854.74	0.262
## Admin2Parmer	-10893.73	100854.74	-0.108
## Admin2Pasco	112244.90	101334.17	1.108
## Admin2Pasquotank	10778.51	101124.74	0.107
## Admin2Passaic	94562.11	102944.26	0.919
## Admin2Patillas	-41450.01	110905.66	-0.374
## Admin2Patrick	30617.86	100968.63	0.303
## Admin2Paulding	20298.30	87645.24	0.232
## Admin2Pawnee	9922.65	82910.46	0.120
## Admin2Payette	20032.68	102235.13	0.196
## Admin2Payne	26487.20	101370.01	0.261
## Admin2Peach	16539.52	100789.60	0.164
## Admin2Pearl River	17264.17	101090.90	0.171
## Admin2Pecos	-9992.73	100854.74	-0.099
## Admin2Pembina	17389.92	101918.90	0.171
## Admin2Pemiscot	6509.97	100900.71	0.065
## Admin2Pend Oreille	-32953.07	102154.94	-0.323
## Admin2Pender	18787.51	101124.74	0.186
## Admin2Pendleton	193.64	87778.90	0.002
## Admin2Pennington	35708.10	88077.07	0.405
## Admin2Penobscot	34531.50	103438.46	0.334
## Admin2Penuelas	-41308.01	110905.66	-0.372
## Admin2Peoria	43522.35	100884.40	0.431
## Admin2Pepin	37.75	101338.81	0.000

## Admin2Perkins	11122.89	87947.36	0.126
## Admin2Perquimans	3827.51	101124.74	0.038
## Admin2Perry	-581.05	75442.57	-0.008
## Admin2Pershing	-92700.09	104563.32	-0.887
## Admin2Person	12340.51	101124.74	0.122
## Admin2Petersburg	21523.52	91083.00	0.236
## Admin2Petroleum	5802.98	101837.48	0.057
## Admin2Pettis	17563.97	100900.71	0.174
## Admin2Phelps	14833.61	87728.16	0.169
## Admin2Philadelphia	360870.02	101180.12	3.567
## Admin2Phillips	5364.17	80425.15	0.067
## Admin2Piatt	-9993.65	100884.40	-0.099
## Admin2Pickaway	1344.08	101000.60	0.013
## Admin2Pickens	22226.44	81805.82	0.272
## Admin2Pickett	-9971.79	100923.76	-0.099
## Admin2Pierce	52168.28	78818.10	0.662
## Admin2Pike	3994.68	75434.09	0.053
## Admin2Pima	296946.87	109551.45	2.711
## Admin2Pinal	139654.87	109551.45	1.275
## Admin2Pine	27985.68	101483.19	0.276
## Admin2Pinellas	227321.90	101334.17	2.243
## Admin2Pipestone	21857.68	101483.19	0.215
## Admin2Piscataquis	1994.50	103438.46	0.019
## Admin2Pitkin	2617.59	101723.48	0.026
## Admin2Pitt	66008.51	101124.74	0.653
## Admin2Pittsburg	17372.20	101370.01	0.171
## Admin2Pittsylvania	44315.86	100968.63	0.439
## Admin2Piute	12898.84	102885.05	0.125
## Admin2Placer	47360.31	104267.58	0.454
## Admin2Plaquemines	-2413.08	101709.01	-0.024
## Admin2Platte	14842.20	83145.41	0.179
## Admin2Pleasants	-1589.44	101283.90	-0.016
## Admin2Plumas	-38477.69	104267.58	-0.369
## Admin2Plymouth	8855.90	88599.55	0.100
## Admin2Pocahontas	5215.62	87777.85	0.059
## Admin2Poinsett	14716.62	101084.41	0.146
## Admin2Pointe Coupee	-2438.08	101709.01	-0.024
## Admin2Polk	39351.89	74896.41	0.525
## Admin2Ponce	-6042.01	110905.66	-0.054
## Admin2Pondera	7222.98	101837.48	0.071
## Admin2Pontotoc	16085.69	87862.12	0.183
## Admin2Pope	11606.88	82905.79	0.140
## Admin2Poquoson	28685.86	100968.63	0.284
## Admin2Portage	21949.41	87822.53	0.250
## Admin2Porter	42818.56	100945.92	0.424
## Admin2Portsmouth	51928.86	100968.63	0.514
## Admin2Posey	3592.56	100945.92	0.036
## Admin2Pottawatomie	21782.84	87844.91	0.248
## Admin2Pottawattamie	37786.69	100917.36	0.374
## Admin2Potter	6185.60	82905.50	0.075
## Admin2Powder River	6175.98	101837.48	0.061
## Admin2Powell	6058.35	87942.42	0.069
## Admin2Power	15069.68	102235.13	0.147
## Admin2Poweshiek	14631.69	100917.36	0.145

## Admin2Powhatan	32050.86	100968.63	0.317
## Admin2Prairie	6626.30	88003.25	0.075
## Admin2Pratt	8791.48	100957.45	0.087
## Admin2Preble	-8142.92	101000.60	-0.081
## Admin2Prentiss	9755.17	101090.90	0.096
## Admin2Presidio	-12350.73	100854.74	-0.122
## Admin2Presque Isle	-40540.90	101636.91	-0.399
## Admin2Preston	6867.56	101283.90	0.068
## Admin2Price	1752.75	101338.81	0.017
## Admin2Prince Edward	32320.86	100968.63	0.320
## Admin2Prince George	37124.86	100968.63	0.368
## Admin2Prince George's	204830.15	103018.13	1.988
## Admin2Prince of Wales-Hyder	8165.18	112215.50	0.073
## Admin2Prince William	150956.86	100968.63	1.495
## Admin2Providence	255765.14	107515.35	2.379
## Admin2Prowers	-2190.41	101723.48	-0.022
## Admin2Pueblo	55891.59	101723.48	0.549
## Admin2Pulaski	28260.09	76817.11	0.368
## Admin2Pushmataha	6997.20	101370.01	0.069
## Admin2Putnam	-819.21	75813.21	-0.011
## Admin2Quay	9229.28	103097.60	0.090
## Admin2Quebradillas	-38172.01	110905.66	-0.344
## Admin2Queen Anne's	-11100.85	103018.13	-0.108
## Admin2Queens	838763.99	101380.12	8.273
## Admin2Quitman	5373.35	87681.46	0.061
## Admin2Rabun	12813.52	100789.60	0.127
## Admin2Racine	68188.75	101338.81	0.673
## Admin2Radford	30799.86	100968.63	0.305
## Admin2Rains	-11312.73	100854.74	-0.112
## Admin2Raleigh	25823.56	101283.90	0.255
## Admin2Ralls	5749.97	100900.71	0.057
## Admin2Ramsey	97694.80	88184.78	1.108
## Admin2Randall	16118.27	100854.74	0.160
## Admin2Randolph	10698.86	76257.88	0.140
## Admin2Rankin	45554.17	101090.90	0.451
## Admin2Ransom	16947.92	101918.90	0.166
## Admin2Rapides	31143.92	101709.01	0.306
## Admin2Rappahannock	27118.86	100968.63	0.269
## Admin2Ravalli	14119.98	101837.48	0.139
## Admin2Rawlins	7307.48	100957.45	0.072
## Admin2Ray	8951.97	100900.71	0.089
## Admin2Reagan	-12582.73	100854.74	-0.125
## Admin2Real	-12555.73	100854.74	-0.124
## Admin2Red Lake	20582.68	101483.19	0.203
## Admin2Red River	-9223.91	87894.22	-0.105
## Admin2Red Willow	14060.25	101068.37	0.139
## Admin2Redwood	24172.68	101483.19	0.238
## Admin2Reeves	-8009.73	100854.74	-0.079
## Admin2Refugio	-11301.73	100854.74	-0.112
## Admin2Reno	28984.48	100957.45	0.287
## Admin2Rensselaer	-8283.01	101380.12	-0.082
## Admin2Renville	19838.80	88184.78	0.225
## Admin2Republic	8084.48	100957.45	0.080
## Admin2Reynolds	4199.97	100900.71	0.042

## Admin2Rhea	-494.79	100923.76	-0.005
## Admin2Rice	24816.58	87867.03	0.282
## Admin2Rich	12898.84	102885.05	0.125
## Admin2Richardson	13632.25	101068.37	0.135
## Admin2Richland	27069.43	76441.11	0.354
## Admin2Richmond	71711.22	80244.37	0.894
## Admin2Richmond City	86913.86	100968.63	0.861
## Admin2Riley	22721.48	100957.45	0.225
## Admin2Rincon	-42727.01	110905.66	-0.385
## Admin2Ringgold	11362.69	100917.36	0.113
## Admin2Rio Arriba	19881.28	103097.60	0.193
## Admin2Rio Blanco	-3208.41	101723.48	-0.032
## Admin2Rio Grande	-17446.21	91101.57	-0.192
## Admin2Ripley	5833.26	87698.23	0.067
## Admin2Ritchie	-1074.44	101283.90	-0.011
## Admin2Riverside	725717.31	104267.58	6.960
## Admin2Roane	3692.38	87777.19	0.042
## Admin2Roanoke	53539.86	100968.63	0.530
## Admin2Roanoke City	53540.86	100968.63	0.530
## Admin2Roberts	-548.61	87865.05	-0.006
## Admin2Robertson	1302.06	82788.10	0.016
## Admin2Robeson	51541.51	101124.74	0.510
## Admin2Rock	28762.90	82976.21	0.347
## Admin2Rock Island	26229.35	100884.40	0.260
## Admin2Rockbridge	30822.86	100968.63	0.305
## Admin2Rockcastle	4348.71	100881.72	0.043
## Admin2Rockdale	31976.52	100789.60	0.317
## Admin2Rockingham	59516.59	83505.99	0.713
## Admin2Rockland	68152.99	101380.12	0.672
## Admin2Rockwall	17676.27	100854.74	0.175
## Admin2Roger Mills	4872.20	101370.01	0.048
## Admin2Rogers	34804.20	101370.01	0.343
## Admin2Rolette	22649.92	101918.90	0.222
## Admin2Rooks	8120.48	100957.45	0.080
## Admin2Roosevelt	11254.63	88631.71	0.127
## Admin2Roscommon	-37338.90	101636.91	-0.367
## Admin2Roseau	24532.68	101483.19	0.242
## Admin2Rosebud	8854.98	101837.48	0.087
## Admin2Ross	4997.08	101000.60	0.049
## Admin2Routt	2370.59	101723.48	0.023
## Admin2Rowan	29179.11	87716.70	0.333
## Admin2Runnels	-10831.73	100854.74	-0.107
## Admin2Rush	4640.02	87698.05	0.053
## Admin2Rusk	357.01	87770.38	0.004
## Admin2Russell	14540.46	80210.30	0.181
## Admin2Rutherford	62247.36	87735.01	0.709
## Admin2Rutland	57784.06	104753.45	0.552
## Admin2Sabana Grande	-40694.01	110905.66	-0.367
## Admin2Sabine	-7146.91	87894.22	-0.081
## Admin2Sac	12884.69	100917.36	0.128
## Admin2Sacramento	360444.31	104267.58	3.457
## Admin2Sagadahoc	5016.50	103438.46	0.048
## Admin2Saginaw	17489.10	101636.91	0.172
## Admin2Saguache	-3914.41	101723.48	-0.038

## Admin2Salem	-21844.51	88294.16	-0.247
## Admin2Salinas	-38941.01	110905.66	-0.351
## Admin2Saline	17047.33	78699.67	0.217
## Admin2Salt Lake	419278.84	102885.05	4.075
## Admin2Saluda	-3188.00	99132.25	-0.032
## Admin2Sampson	23391.51	101124.74	0.231
## Admin2San Augustine	-12343.73	100854.74	-0.122
## Admin2San Benito	-24228.69	104267.58	-0.232
## Admin2San Bernardino	694716.31	104267.58	6.663
## Admin2San Diego	1010059.31	104267.58	9.687
## Admin2San Francisco	162705.31	104267.58	1.560
## Admin2San German	-38021.01	110905.66	-0.343
## Admin2San Jacinto	-6937.73	100854.74	-0.069
## Admin2San Joaquin	181282.31	104267.58	1.739
## Admin2San Juan	18032.13	79722.70	0.226
## Admin2San Lorenzo	-35362.01	110905.66	-0.319
## Admin2San Luis Obispo	30881.31	104267.58	0.296
## Admin2San Mateo	148224.31	104267.58	1.422
## Admin2San Miguel	5773.44	88649.12	0.065
## Admin2San Patricio	774.27	100854.74	0.008
## Admin2San Saba	-12076.73	100854.74	-0.120
## Admin2San Sebastian	-33502.01	110905.66	-0.302
## Admin2Sanborn	10142.52	101590.98	0.100
## Admin2Sanders	8160.98	101837.48	0.080
## Admin2Sandoval	51149.28	103097.60	0.496
## Admin2Sandusky	-2314.92	101000.60	-0.023
## Admin2Sangamon	59747.35	100884.40	0.592
## Admin2Sanilac	-32430.90	101636.91	-0.319
## Admin2Sanpete	12898.84	102885.05	0.125
## Admin2Santa Barbara	75588.31	104267.58	0.725
## Admin2Santa Clara	445802.31	104267.58	4.276
## Admin2Santa Cruz	16351.59	91596.35	0.179
## Admin2Santa Fe	46521.28	103097.60	0.451
## Admin2Santa Isabel	-40533.01	110905.66	-0.365
## Admin2Santa Rosa	13722.90	101334.17	0.135
## Admin2Sarasota	75444.90	101334.17	0.745
## Admin2Saratoga	11266.99	101380.12	0.111
## Admin2Sargent	16323.92	101918.90	0.160
## Admin2Sarpy	69622.25	101068.37	0.689
## Admin2Sauk	18472.75	101338.81	0.182
## Admin2Saunders	16958.25	101068.37	0.168
## Admin2Sawyer	3661.75	101338.81	0.036
## Admin2Schenectady	-6408.01	101380.12	-0.063
## Admin2Schleicher	-12961.73	100854.74	-0.129
## Admin2Schley	10137.52	100789.60	0.101
## Admin2Schoharie	-43039.01	101380.12	-0.425
## Admin2Schoolcraft	-40724.90	101636.91	-0.401
## Admin2Schuyler	-18196.23	82865.99	-0.220
## Admin2Schuylerkill	17277.02	101180.12	0.171
## Admin2Scioto	7577.08	101000.60	0.075
## Admin2Scotland	8262.74	87725.06	0.094
## Admin2Scott	19032.21	75133.03	0.253
## Admin2Scotts Bluff	22568.25	101068.37	0.223
## Admin2Screven	11876.52	100789.60	0.118

## Admin2Scurry	-7554.73	100854.74	-0.075
## Admin2Searcy	7342.62	101084.41	0.073
## Admin2Sebastian	43785.62	101084.41	0.433
## Admin2Sedgwick	85502.04	87942.58	0.972
## Admin2Seminole	35998.54	82883.16	0.434
## Admin2Seneca	-23017.97	87847.27	-0.262
## Admin2Sequatchie	-7054.79	100923.76	-0.070
## Admin2Sequoyah	16583.20	101370.01	0.164
## Admin2Sevier	16228.89	83099.66	0.195
## Admin2Seward	14865.87	87753.36	0.169
## Admin2Shackelford	-12457.73	100854.74	-0.124
## Admin2Shannon	4729.97	100900.71	0.047
## Admin2Sharkey	796.17	101090.90	0.008
## Admin2Sharp	10481.62	101084.41	0.104
## Admin2Shasta	1729.31	104267.58	0.017
## Admin2Shawano	11809.75	101338.81	0.117
## Admin2Shawnee	66374.48	100957.45	0.657
## Admin2Sheboygan	36756.75	101338.81	0.363
## Admin2Shelby	41321.29	75804.55	0.545
## Admin2Shenandoah	39478.86	100968.63	0.391
## Admin2Sherburne	51125.68	101483.19	0.504
## Admin2Sheridan	11408.40	78953.74	0.144
## Admin2Sherman	-284.42	80344.12	-0.004
## Admin2Shiawassee	-20999.90	101636.91	-0.207
## Admin2Shoshone	16528.68	102235.13	0.162
## Admin2Sibley	23735.68	101483.19	0.234
## Admin2Sierra	-16599.21	89405.49	-0.186
## Admin2Silver Bow	15555.98	101837.48	0.153
## Admin2Simpson	6658.44	87719.42	0.076
## Admin2Sioux	15667.62	82959.86	0.189
## Admin2Siskiyou	-33918.69	104267.58	-0.325
## Admin2Sitka	9831.18	112215.50	0.088
## Admin2Skagit	-7736.07	102154.94	-0.076
## Admin2Skagway	7026.18	112215.50	0.063
## Admin2Skamania	-34126.07	102154.94	-0.334
## Admin2Slope	15123.92	101918.90	0.148
## Admin2Smith	12390.03	80251.51	0.154
## Admin2Smyth	37581.86	100968.63	0.372
## Admin2Snohomish	165645.93	102154.94	1.622
## Admin2Snyder	-14946.98	101180.12	-0.148
## Admin2Socorro	11397.28	103097.60	0.111
## Admin2Solano	77712.31	104267.58	0.745
## Admin2Somerset	-1013.56	80782.96	-0.013
## Admin2Somervell	-11332.73	100854.74	-0.112
## Admin2Sonoma	75093.31	104267.58	0.720
## Admin2Southampton	30165.86	100968.63	0.299
## Admin2Southeast Fairbanks	8801.18	112215.50	0.078
## Admin2Southeast Utah	24773.84	102885.05	0.241
## Admin2Southwest Utah	85023.84	102885.05	0.826
## Admin2Spalding	27753.52	100789.60	0.275
## Admin2Spartanburg	107306.00	99132.25	1.082
## Admin2Spencer	3309.64	87692.39	0.038
## Admin2Spink	11150.52	101590.98	0.110
## Admin2Spokane	115994.93	102154.94	1.135

## Admin2Spotsylvania	60462.86	100968.63	0.599
## Admin2St. Bernard	3951.92	101709.01	0.039
## Admin2St. Charles	63649.95	87916.08	0.724
## Admin2St. Clair	26207.80	80311.84	0.326
## Admin2St. Croix	28058.75	101338.81	0.277
## Admin2St. Francis	13316.62	101084.41	0.132
## Admin2St. Francois	25944.97	100900.71	0.257
## Admin2St. Helena	-7953.08	101709.01	-0.078
## Admin2St. James	-2935.08	101709.01	-0.029
## Admin2St. John the Baptist	2785.92	101709.01	0.027
## Admin2St. Johns	32860.90	101334.17	0.324
## Admin2St. Joseph	26301.33	87905.39	0.299
## Admin2St. Landry	16925.92	101709.01	0.166
## Admin2St. Lawrence	-23562.01	101380.12	-0.232
## Admin2St. Louis	185641.83	87853.42	2.113
## Admin2St. Louis City	77701.97	100900.71	0.770
## Admin2St. Lucie	49648.90	101334.17	0.490
## Admin2St. Martin	5371.92	101709.01	0.053
## Admin2St. Mary	4846.92	101709.01	0.048
## Admin2St. Mary's	4388.15	103018.13	0.043
## Admin2St. Tammany	79770.92	101709.01	0.784
## Admin2Stafford	37421.67	87652.83	0.427
## Admin2Stanislaus	123558.31	104267.58	1.185
## Admin2Stanley	10195.52	101590.98	0.100
## Admin2Stanly	23997.51	101124.74	0.237
## Admin2Stanton	9608.37	87753.36	0.109
## Admin2Stark	30608.12	82952.81	0.369
## Admin2Starke	1367.56	100945.92	0.014
## Admin2Starr	10214.27	100854.74	0.101
## Admin2Staunton	33450.86	100968.63	0.331
## Admin2Ste. Genevieve	7580.97	100900.71	0.075
## Admin2Stearns	80048.68	101483.19	0.789
## Admin2Steele	23451.80	88184.78	0.266
## Admin2Stephens	7133.00	82827.09	0.086
## Admin2Stephenson	-792.65	100884.40	-0.008
## Admin2Sterling	-13232.73	100854.74	-0.131
## Admin2Steuben	-8661.23	87834.82	-0.099
## Admin2Stevens	1719.70	83074.74	0.021
## Admin2Stewart	1762.37	87627.11	0.020
## Admin2Stillwater	7477.98	101837.48	0.073
## Admin2Stoddard	9937.97	100900.71	0.098
## Admin2Stokes	15542.51	101124.74	0.154
## Admin2Stone	8145.92	82854.50	0.098
## Admin2Stonewall	-13135.73	100854.74	-0.130
## Admin2Storey	-94856.09	104563.32	-0.907
## Admin2Story	33039.69	100917.36	0.327
## Admin2Strafford	59841.40	105940.11	0.565
## Admin2Stutsman	23192.92	101918.90	0.228
## Admin2Sublette	7580.37	103150.75	0.073
## Admin2Suffolk	229113.66	83317.67	2.750
## Admin2Sullivan	6718.19	77827.76	0.086
## Admin2Sully	9735.52	101590.98	0.096
## Admin2Summers	-415.44	101283.90	-0.004
## Admin2Summit	52079.84	83242.99	0.626

## Admin2Sumner	32688.34	87683.89	0.373
## Admin2Sumter	7046.80	79477.71	0.089
## Admin2Sunflower	6516.17	101090.90	0.064
## Admin2Surry	27717.69	87723.03	0.316
## Admin2Susquehanna	-14630.98	101180.12	-0.145
## Admin2Sussex	7992.04	84472.81	0.095
## Admin2Sutter	-14765.69	104267.58	-0.142
## Admin2Sutton	-12633.73	100854.74	-0.125
## Admin2Suwannee	-29044.10	101334.17	-0.287
## Admin2Swain	5211.51	101124.74	0.052
## Admin2Sweet Grass	6666.98	101837.48	0.065
## Admin2Sweetwater	17719.37	103150.75	0.172
## Admin2Swift	22198.68	101483.19	0.219
## Admin2Swisher	-10930.73	100854.74	-0.108
## Admin2Switzerland	-1565.44	100945.92	-0.016
## Admin2Talbot	-1301.16	88194.36	-0.015
## Admin2Taliaferro	9085.52	100789.60	0.090
## Admin2Talladega	23628.79	101077.46	0.234
## Admin2Tallahatchie	3455.17	101090.90	0.034
## Admin2Tallapoosa	10048.79	101077.46	0.099
## Admin2Tama	14647.69	100917.36	0.145
## Admin2Taney	18750.97	100900.71	0.186
## Admin2Tangipahoa	33800.92	101709.01	0.332
## Admin2Taos	13918.28	103097.60	0.135
## Admin2Tarrant	663899.27	100854.74	6.583
## Admin2Tate	8296.17	101090.90	0.082
## Admin2Tattnall	14444.52	100789.60	0.143
## Admin2Taylor	3909.48	76844.82	0.051
## Admin2Tazewell	34647.11	87636.04	0.395
## Admin2Tehama	-25021.69	104267.58	-0.240
## Admin2Telfair	12218.52	100789.60	0.121
## Admin2Teller	464.59	101723.48	0.005
## Admin2Tensas	-8866.08	101709.01	-0.087
## Admin2Terrebonne	28026.92	101709.01	0.276
## Admin2Terrell	-1084.11	87614.45	-0.012
## Admin2Terry	-10629.73	100854.74	-0.105
## Admin2Teton	13658.34	83551.43	0.163
## Admin2Texas	9479.09	87813.44	0.108
## Admin2Thayer	12694.25	101068.37	0.126
## Admin2Thomas	14458.75	82795.74	0.175
## Admin2Throckmorton	-13259.73	100854.74	-0.131
## Admin2Thurston	19897.09	88108.98	0.226
## Admin2Tift	22363.52	100789.60	0.222
## Admin2Tillamook	-3976.67	101907.72	-0.039
## Admin2Tillman	5580.20	101370.01	0.055
## Admin2Tioga	-25076.00	87900.85	-0.285
## Admin2Tippah	8506.17	101090.90	0.084
## Admin2Tippecanoe	55949.56	100945.92	0.554
## Admin2Tipton	4707.88	87697.44	0.054
## Admin2Tishomingo	7220.17	101090.90	0.071
## Admin2Titus	-3404.73	100854.74	-0.034
## Admin2Toa Alta	-25513.01	110905.66	-0.230
## Admin2Toa Baja	-22946.01	110905.66	-0.207
## Admin2Todd	14164.64	82989.18	0.171

## Admin2Tolland	4690.70	108531.74	0.043
## Admin2Tom Green	26263.27	100854.74	0.260
## Admin2Tompkins	-23340.01	101380.12	-0.230
## Admin2Tooele	37758.84	102885.05	0.367
## Admin2Toole	7157.98	101837.48	0.070
## Admin2Toombs	16674.52	100789.60	0.165
## Admin2Torrance	9996.28	103097.60	0.097
## Admin2Towner	15794.92	101918.90	0.155
## Admin2Towns	11764.52	100789.60	0.117
## Admin2Traill	17502.92	101918.90	0.172
## Admin2Transylvania	8554.51	101124.74	0.085
## Admin2Traverse	20527.68	101483.19	0.202
## Admin2Travis	314461.27	100854.74	3.118
## Admin2Treasure	5906.98	101837.48	0.058
## Admin2Trego	7460.48	100957.45	0.074
## Admin2Trempealeau	7544.75	101338.81	0.074
## Admin2Treutlen	10607.52	100789.60	0.105
## Admin2TriCounty	27762.84	102885.05	0.270
## Admin2Trigg	2906.71	100881.72	0.029
## Admin2Trimble	566.71	100881.72	0.006
## Admin2Trinity	-25578.71	88649.63	-0.289
## Admin2Tripp	11138.52	101590.98	0.110
## Admin2Troup	27236.52	100789.60	0.270
## Admin2Trousedale	-7432.79	100923.76	-0.074
## Admin2Trujillo Alto	-28109.01	110905.66	-0.253
## Admin2Trumbull	32274.08	101000.60	0.320
## Admin2Tucker	-1681.44	101283.90	-0.017
## Admin2Tulare	123545.31	104267.58	1.185
## Admin2Tulsa	212785.20	101370.01	2.099
## Admin2Tunica	2685.17	101090.90	0.027
## Admin2Tuolumne	-25147.69	104267.58	-0.241
## Admin2Turner	11755.52	87824.57	0.134
## Admin2Tuscaloosa	64895.79	101077.46	0.642
## Admin2Tuscarawas	5369.08	101000.60	0.053
## Admin2Tuscola	-27346.90	101636.91	-0.269
## Admin2Twiggs	10576.52	100789.60	0.105
## Admin2Twin Falls	41772.68	102235.13	0.409
## Admin2Tyler	-4937.59	87759.44	-0.056
## Admin2Tyrrell	1541.51	101124.74	0.015
## Admin2Uinta	11623.37	103150.75	0.113
## Admin2Uintah	12898.84	102885.05	0.125
## Admin2Ulster	-6922.01	101380.12	-0.068
## Admin2Umatilla	17187.33	101907.72	0.169
## Admin2Unassigned	-2350.96	72707.10	-0.032
## Admin2Unicoi	-5442.79	100923.76	-0.054
## Admin2Union	10369.25	73765.08	0.141
## Admin2Upshur	124.91	87759.44	0.001
## Admin2Upson	18219.52	100789.60	0.181
## Admin2Upton	-12615.73	100854.74	-0.125
## Admin2Utah	237779.84	102885.05	2.311
## Admin2Utuado	-38906.01	110905.66	-0.351
## Admin2Uvalde	-2056.73	100854.74	-0.020
## Admin2Val Verde	2241.27	100854.74	0.022
## Admin2Valdez-Cordova	6351.18	112215.50	0.057

## Admin2Valencia	30507.28	103097.60	0.296
## Admin2Valley	12217.31	83182.77	0.147
## Admin2Van Buren	-2853.85	80320.61	-0.036
## Admin2Van Wert	-11535.92	101000.60	-0.114
## Admin2Van Zandt	-1047.73	100854.74	-0.010
## Admin2Vance	15814.51	101124.74	0.156
## Admin2Vanderburgh	65566.56	100945.92	0.650
## Admin2Vega Alta	-35213.01	110905.66	-0.318
## Admin2Vega Baja	-27169.01	110905.66	-0.245
## Admin2Venango	-10929.98	101180.12	-0.108
## Admin2Ventura	193805.31	104267.58	1.859
## Admin2Vermilion	13828.64	87905.19	0.157
## Admin2Vermillion	664.56	100945.92	0.007
## Admin2Vernon	5197.21	82965.63	0.063
## Admin2Victoria	9262.27	100854.74	0.092
## Admin2Vieques	-45284.01	110905.66	-0.408
## Admin2Vigo	30483.56	100945.92	0.302
## Admin2Vilas	4181.75	101338.81	0.041
## Admin2Villalba	-39604.01	110905.66	-0.357
## Admin2Vinton	-15978.92	101000.60	-0.158
## Admin2Virginia Beach	139256.86	100968.63	1.379
## Admin2Volusia	103880.90	101334.17	1.025
## Admin2Wabash	-2334.54	87689.28	-0.027
## Admin2Wabasha	26110.68	101483.19	0.257
## Admin2Wabaunsee	8501.48	100957.45	0.084
## Admin2Wadena	24671.68	101483.19	0.243
## Admin2Wagoner	30418.20	101370.01	0.300
## Admin2Wahkiakum	-35275.07	102154.94	-0.345
## Admin2Wake	385535.51	101124.74	3.812
## Admin2Wakulla	-32679.10	101334.17	-0.322
## Admin2Waldo	6045.50	103438.46	0.058
## Admin2Walker	18741.53	82778.95	0.226
## Admin2Walla Walla	-17209.07	102154.94	-0.168
## Admin2Wallace	7026.48	100957.45	0.070
## Admin2Waller	-2076.73	100854.74	-0.021
## Admin2Wallowa	-7356.67	101907.72	-0.072
## Admin2Walsh	19066.92	101918.90	0.187
## Admin2Walthall	4211.17	101090.90	0.042
## Admin2Walton	5221.71	87746.10	0.060
## Admin2Walworth	20805.13	88010.64	0.236
## Admin2Wapello	20373.69	100917.36	0.202
## Admin2Ward	14248.09	87947.26	0.162
## Admin2Ware	20029.52	100789.60	0.199
## Admin2Warren	6278.13	74480.16	0.084
## Admin2Warrick	20307.56	100945.92	0.201
## Admin2Wasatch	25033.84	102885.05	0.243
## Admin2Wasco	-2264.67	101907.72	-0.022
## Admin2Waseca	25813.68	101483.19	0.254
## Admin2Washakie	8010.37	103150.75	0.078
## Admin2Washburn	2734.75	101338.81	0.027
## Admin2Washington	19720.12	73171.93	0.270
## Admin2Washita	7017.20	101370.01	0.069
## Admin2Washoe	31376.91	104563.32	0.300
## Admin2Washtenaw	65100.10	101636.91	0.641

## Admin2Watauga	15115.51	101124.74	0.149
## Admin2Watsonwan	22916.68	101483.19	0.226
## Admin2Waukesha	135858.75	101338.81	1.341
## Admin2Waupaca	13933.75	101338.81	0.137
## Admin2Waushara	5347.75	101338.81	0.053
## Admin2Wayne	36224.72	74197.93	0.488
## Admin2Waynesboro	33167.86	100968.63	0.328
## Admin2Weakley	-546.79	100923.76	-0.005
## Admin2Webb	96952.27	100854.74	0.961
## Admin2Weber	12898.84	102885.05	0.125
## Admin2Weber-Morgan	101311.84	102885.05	0.985
## Admin2Webster	8227.60	76276.52	0.108
## Admin2Weld	99446.59	101723.48	0.978
## Admin2Wells	9778.24	87981.93	0.111
## Admin2West Baton Rouge	-956.08	101709.01	-0.009
## Admin2West Carroll	-5491.08	101709.01	-0.054
## Admin2West Feliciana	-6924.08	101709.01	-0.068
## Admin2Westchester	282103.99	101380.12	2.783
## Admin2Westmoreland	51517.94	87726.72	0.587
## Admin2Weston	7161.37	103150.75	0.069
## Admin2Wetzel	1336.56	101283.90	0.013
## Admin2Wexford	-34309.90	101636.91	-0.338
## Admin2Wharton	-2169.73	100854.74	-0.022
## Admin2Whatcom	12783.93	102154.94	0.125
## Admin2Wheatland	6217.98	101837.48	0.061
## Admin2Wheeler	254.09	80312.66	0.003
## Admin2White	8011.45	78673.84	0.102
## Admin2White Pine	-93265.09	104563.32	-0.892
## Admin2Whiteside	3757.35	100884.40	0.037
## Admin2Whitfield	47457.52	100789.60	0.471
## Admin2Whitley	10915.14	87692.39	0.124
## Admin2Whitman	-25937.07	102154.94	-0.254
## Admin2Wibaux	6004.98	101837.48	0.059
## Admin2Wichita	17071.87	87672.90	0.195
## Admin2Wicomico	4599.15	103018.13	0.045
## Admin2Wilbarger	-9397.73	100854.74	-0.093
## Admin2Wilcox	5208.66	87675.71	0.059
## Admin2Wilkes	17125.02	87681.69	0.195
## Admin2Wilkin	21447.68	101483.19	0.211
## Admin2Wilkinson	6477.35	87681.46	0.074
## Admin2Will	197390.35	100884.40	1.957
## Admin2Willacy	-4887.73	100854.74	-0.048
## Admin2Williams	9615.00	88001.14	0.109
## Admin2Williamsburg	15285.93	86384.42	0.177
## Admin2Williamson	76695.28	82785.95	0.926
## Admin2Wilson	18825.12	80246.96	0.235
## Admin2Winchester	33832.86	100968.63	0.335
## Admin2Windham	29086.88	91358.14	0.318
## Admin2Windsor	52738.06	104753.45	0.503
## Admin2Winkler	-11360.73	100854.74	-0.113
## Admin2Winn	-4728.08	101709.01	-0.046
## Admin2Winnebago	52676.93	82842.37	0.636
## Admin2Winneshiek	14505.69	100917.36	0.144
## Admin2Winona	35174.68	101483.19	0.347

## Admin2Winston	5584.48	87779.05	0.064
## Admin2Wirt	-2352.44	101283.90	-0.023
## Admin2Wise	22604.56	87624.69	0.258
## Admin2Wolfe	1311.71	100881.72	0.013
## Admin2Wood	15634.91	80293.69	0.195
## Admin2Woodbury	42773.69	100917.36	0.424
## Admin2Woodford	2020.03	87668.44	0.023
## Admin2Woodruff	7071.62	101084.41	0.070
## Admin2Woods	6481.20	101370.01	0.064
## Admin2Woodson	7565.48	100957.45	0.075
## Admin2Woodward	9894.20	101370.01	0.098
## Admin2Worcester	43668.13	89282.46	0.489
## Admin2Worth	9888.06	82771.21	0.119
## Admin2Wrangell	7130.18	112215.50	0.064
## Admin2Wright	27740.45	82887.94	0.335
## Admin2Wyandot	-13015.92	101000.60	-0.129
## Admin2Wyandotte	60588.48	100957.45	0.600
## Admin2Wyoming	-17476.14	82938.39	-0.211
## Admin2Wythe	35203.86	100968.63	0.349
## Admin2Yabucoa	-36987.01	110905.66	-0.333
## Admin2Yadkin	15128.51	101124.74	0.150
## Admin2Yakima	46740.93	102154.94	0.458
## Admin2Yakutat	7310.18	112215.50	0.065
## Admin2Yalobusha	4451.17	101090.90	0.044
## Admin2Yamhill	13485.33	101907.72	0.132
## Admin2Yancey	6639.51	101124.74	0.066
## Admin2Yankton	16298.52	101590.98	0.160
## Admin2Yates	-45157.01	101380.12	-0.445
## Admin2Yauco	-35934.01	110905.66	-0.324
## Admin2Yavapai	44321.87	109551.45	0.405
## Admin2Yazoo	9468.17	101090.90	0.094
## Admin2Yell	12382.62	101084.41	0.122
## Admin2Yellow Medicine	22584.68	101483.19	0.223
## Admin2Yellowstone	56317.98	101837.48	0.553
## Admin2Yoakum	-11909.73	100854.74	-0.118
## Admin2Yolo	11530.31	104267.58	0.111
## Admin2York	62307.33	78139.82	0.797
## Admin2Young	-9147.73	100854.74	-0.091
## Admin2Yuba	-21065.69	104267.58	-0.202
## Admin2Yukon-Koyukuk	8063.18	112215.50	0.072
## Admin2Yuma	26071.23	90597.64	0.288
## Admin2Zapata	-9112.73	100854.74	-0.090
## Admin2Zavala	-9052.73	100854.74	-0.090
## Admin2Ziebach	10179.52	101590.98	0.100
##	Pr(> t)		
## (Intercept)	0.953161		
## Dates	NA		
## Province_StateAlaska	0.835722		
## Province_StateArizona	0.808663		
## Province_StateArkansas	0.548752		
## Province_StateCalifornia	0.197931		
## Province_StateColorado	0.952738		
## Province_StateConnecticut	0.668546		
## Province_StateDelaware	0.558534		

## Province_StateDistrict of Columbia	0.978564
## Province_StateFlorida	0.017227 *
## Province_StateGeorgia	0.324962
## Province_StateHawaii	0.978564
## Province_StateIdaho	0.409718
## Province_StateIllinois	0.419977
## Province_StateIndiana	0.995487
## Province_StateIowa	0.312607
## Province_StateKansas	0.461789
## Province_StateKentucky	0.877982
## Province_StateLouisiana	0.758023
## Province_StateMaine	0.928607
## Province_StateMaryland	0.546399
## Province_StateMassachusetts	4.09e-06 ***
## Province_StateMichigan	0.038061 *
## Province_StateMinnesota	0.179238
## Province_StateMississippi	0.792982
## Province_StateMissouri	0.608890
## Province_StateMontana	0.612329
## Province_StateNebraska	0.308944
## Province_StateNevada	0.003347 **
## Province_StateNew Hampshire	0.433587
## Province_StateNew Jersey	0.000333 ***
## Province_StateNew Mexico	0.667471
## Province_StateNew York	0.008608 **
## Province_StateNorth Carolina	0.770749
## Province_StateNorth Dakota	0.340961
## Province_StateOhio	0.302059
## Province_StateOklahoma	0.637064
## Province_StateOregon	0.818212
## Province_StatePennsylvania	0.214452
## Province_StatePuerto Rico	0.375100
## Province_StateRhode Island	0.734385
## Province_StateSouth Carolina	0.863087
## Province_StateSouth Dakota	0.454871
## Province_StateTennessee	0.577422
## Province_StateTexas	0.494968
## Province_StateUtah	0.484031
## Province_StateVermont	0.151307
## Province_StateVirginia	0.054243 .
## Province_StateWashington	0.137686
## Province_StateWest Virginia	0.990493
## Province_StateWisconsin	0.906059
## Province_StateWyoming	0.710039
## Admin2Acadia	0.933606
## Admin2Accomack	0.731351
## Admin2Ada	0.093102 .
## Admin2Adair	0.900240
## Admin2Adams	0.813211
## Admin2Addison	0.646816
## Admin2Adjuntas	0.716009
## Admin2Aguada	0.756245
## Admin2Aguadilla	0.779394
## Admin2Aguas Buenas	0.726178

## Admin2Aibonito	0.726537
## Admin2Aiken	0.660165
## Admin2Aitkin	0.819356
## Admin2Alachua	0.672469
## Admin2Alamance	0.547993
## Admin2Alameda	0.000758 ***
## Admin2Alamosa	0.996890
## Admin2Albany	0.799220
## Admin2Albemarle	0.616946
## Admin2Alcona	0.686680
## Admin2Alcorn	0.903215
## Admin2Aleutians East	0.945480
## Admin2Aleutians West	0.941346
## Admin2Alexander	0.995352
## Admin2Alexandria	0.484529
## Admin2Alfalfa	0.955567
## Admin2Alger	0.688033
## Admin2Allamakee	0.895447
## Admin2Allegan	0.913145
## Admin2Allegany	0.832695
## Admin2Alleghany	0.845386
## Admin2Allegheny	0.002254 **
## Admin2Allen	0.705281
## Admin2Allendale	0.957499
## Admin2Alpena	0.719644
## Admin2Alpine	0.682936
## Admin2Amador	0.763498
## Admin2Amelia	0.771938
## Admin2Amherst	0.728374
## Admin2Amite	0.972472
## Admin2Anasco	0.725908
## Admin2Anchorage	0.249873
## Admin2Anderson	0.820049
## Admin2Andrew	0.933390
## Admin2Andrews	0.932211
## Admin2Androscoggin	0.801970
## Admin2Angelina	0.973727
## Admin2Anne Arundel	0.343280
## Admin2Anoka	0.176955
## Admin2Anson	0.932252
## Admin2Antelope	0.900146
## Admin2Antrim	0.710891
## Admin2Apache	0.852579
## Admin2Appanoose	0.893950
## Admin2Appling	0.889615
## Admin2Appomattox	0.761136
## Admin2Aransas	0.936010
## Admin2Arapahoe	0.062553 .
## Admin2Archer	0.913569
## Admin2Archuleta	0.985152
## Admin2Arecibo	0.870640
## Admin2Arenac	0.700835
## Admin2Arkansas	0.907468
## Admin2Arlington	0.366203

## Admin2Armstrong	0.912223
## Admin2Aroostook	0.876955
## Admin2Arroyo	0.707980
## Admin2Arthur	0.909903
## Admin2Ascension	0.742843
## Admin2Ashe	0.938093
## Admin2Ashland	0.986288
## Admin2Ashley	0.913875
## Admin2Ashtabula	0.954601
## Admin2Asotin	0.766274
## Admin2Assumption	0.972154
## Admin2Atascosa	0.983832
## Admin2Atchison	0.926581
## Admin2Athens	0.998926
## Admin2Atkinson	0.911634
## Admin2Atlantic	0.959730
## Admin2Atoka	0.933586
## Admin2Attala	0.950371
## Admin2Audrain	0.924145
## Admin2Audubon	0.910456
## Admin2Auglaize	0.955470
## Admin2Augusta	0.622219
## Admin2Aurora	0.918755
## Admin2Austin	0.947512
## Admin2Autauga	0.881184
## Admin2Avery	0.954039
## Admin2Avoyelles	0.969074
## Admin2Baca	0.965541
## Admin2Bacon	0.898770
## Admin2Bailey	0.906739
## Admin2Baker	0.904663
## Admin2Baldwin	0.630754
## Admin2Ballard	0.996661
## Admin2Baltimore	0.148505
## Admin2Baltimore City	0.219221
## Admin2Bamberg	0.972050
## Admin2Bandera	0.926475
## Admin2Banks	0.895198
## Admin2Banner	0.909369
## Admin2Bannock	0.712553
## Admin2Baraga	0.691454
## Admin2Barber	0.938755
## Admin2Barbour	0.978208
## Admin2Barceloneta	0.721381
## Admin2Barnes	0.855136
## Admin2Barnstable	0.375232
## Admin2Barnwell	0.992058
## Admin2Barranquitas	0.734141
## Admin2Barren	0.885266
## Admin2Barron	0.892633
## Admin2Barrow	0.732402
## Admin2Barry	0.929962
## Admin2Bartholomew	0.827669
## Admin2Barton	0.907860

## Admin2Bartow	0.665327
## Admin2Bastrop	0.894750
## Admin2Bates	0.942841
## Admin2Bath	0.867548
## Admin2Baxter	0.879516
## Admin2Bay	0.996162
## Admin2Bayamon	0.868937
## Admin2Bayfield	0.983732
## Admin2Baylor	0.900410
## Admin2Beadle	0.883103
## Admin2Bear Lake	0.886752
## Admin2Bear River	0.492549
## Admin2Beaufort	0.722243
## Admin2Beauregard	0.993255
## Admin2Beaver	0.867408
## Admin2Beaverhead	0.935727
## Admin2Becker	0.768506
## Admin2Beckham	0.914261
## Admin2Bedford	0.867913
## Admin2Bee	0.970695
## Admin2Belknap	0.701920
## Admin2Bell	0.648612
## Admin2Belmont	0.994417
## Admin2Beltrami	0.740543
## Admin2Ben Hill	0.892069
## Admin2Benewah	0.874701
## Admin2Bennett	0.918606
## Admin2Bennington	0.611651
## Admin2Benson	0.865039
## Admin2Bent	0.980636
## Admin2Benton	0.796718
## Admin2Benzie	0.702563
## Admin2Bergen	0.029348 *
## Admin2Berkeley	0.571369
## Admin2Berks	0.322610
## Admin2Berkshire	0.308517
## Admin2Bernalillo	0.050656 .
## Admin2Berrien	0.939849
## Admin2Bertie	0.955055
## Admin2Bethel	0.865951
## Admin2Bexar	3.11e-11 ***
## Admin2Bibb	0.745483
## Admin2Bienville	0.958535
## Admin2Big Horn	0.911164
## Admin2Big Stone	0.834076
## Admin2Billings	0.881306
## Admin2Bingham	0.810677
## Admin2Black Hawk	0.630517
## Admin2Blackford	0.995642
## Admin2Bladen	0.904670
## Admin2Blaine	0.883814
## Admin2Blair	0.920571
## Admin2Blanco	0.918052
## Admin2Bland	0.780642

## Admin2Bleckley	0.900607
## Admin2Bledsoe	0.946380
## Admin2Blount	0.775503
## Admin2Blue Earth	0.689662
## Admin2Boise	0.885655
## Admin2Bolivar	0.913484
## Admin2Bollinger	0.952284
## Admin2Bon Homme	0.906150
## Admin2Bond	0.919115
## Admin2Bonner	0.817409
## Admin2Bonneville	0.634797
## Admin2Boone	0.788639
## Admin2Borden	0.894065
## Admin2Bosque	0.931060
## Admin2Bossier	0.698088
## Admin2Botetourt	0.724903
## Admin2Bottineau	0.868265
## Admin2Boulder	0.405136
## Admin2Boundary	0.876944
## Admin2Bourbon	0.920135
## Admin2Bowie	0.915224
## Admin2Bowman	0.875457
## Admin2Box Butte	0.890685
## Admin2Box Elder	0.900249
## Admin2Boyd	0.855697
## Admin2Boyle	0.928613
## Admin2Bracken	0.995463
## Admin2Bradford	0.820288
## Admin2Bradley	0.843064
## Admin2Branch	0.770574
## Admin2Brantley	0.894194
## Admin2Braxton	0.993191
## Admin2Brazoria	0.313362
## Admin2Brazos	0.551472
## Admin2Breathitt	0.975635
## Admin2Breckinridge	0.964936
## Admin2Bremer	0.871120
## Admin2Brevard	0.208016
## Admin2Brewster	0.903699
## Admin2Briscoe	0.897578
## Admin2Bristol	0.780225
## Admin2Bristol Bay	0.954874
## Admin2Bristol Bay plus Lake and Peninsula	0.946175
## Admin2Broadwater	0.943037
## Admin2Bronx	1.34e-06 ***
## Admin2Brooke	0.982906
## Admin2Brookings	0.853704
## Admin2Brooks	0.994415
## Admin2Broome	0.933194
## Admin2Broomfield	0.900230
## Admin2Broward	2.20e-12 ***
## Admin2Brown	0.824181
## Admin2Brule	0.912750
## Admin2Brunswick	0.688437

## Admin2Bryan	0.817906
## Admin2Buchanan	0.748604
## Admin2Buckingham	0.761558
## Admin2Bucks	0.203204
## Admin2Buena Vista	0.797747
## Admin2Buffalo	0.880093
## Admin2Bullitt	0.793189
## Admin2Bulloch	0.793626
## Admin2Bullock	0.989565
## Admin2Buncombe	0.489096
## Admin2Bureau	0.958010
## Admin2Burke	0.802329
## Admin2Burleigh	0.584976
## Admin2Burleson	0.940095
## Admin2Burlington	0.672892
## Admin2Burnet	0.999274
## Admin2Burnett	0.977893
## Admin2Burt	0.898196
## Admin2Butler	0.742238
## Admin2Butte	0.888114
## Admin2Butts	0.871162
## Admin2Cabarrus	0.482484
## Admin2Cabell	0.771196
## Admin2Cabo Rojo	0.764959
## Admin2Cache	0.900249
## Admin2Caddo	0.610682
## Admin2Caguas	0.974901
## Admin2Calaveras	0.750131
## Admin2Calcasieu	0.578322
## Admin2Caldwell	0.927550
## Admin2Caledonia	0.649451
## Admin2Calhoun	0.996302
## Admin2Callahan	0.920358
## Admin2Callaway	0.865950
## Admin2Calloway	0.925574
## Admin2Calumet	0.886193
## Admin2Calvert	0.959032
## Admin2Camas	0.894118
## Admin2Cambria	0.858394
## Admin2Camden	0.734721
## Admin2Cameron	0.726712
## Admin2Camp	0.920759
## Admin2Campbell	0.794090
## Admin2Camuy	0.746286
## Admin2Canadian	0.612492
## Admin2Candler	0.910675
## Admin2Cannon	0.944661
## Admin2Canovanas	0.756718
## Admin2Canyon	0.416616
## Admin2Cape Girardeau	0.797545
## Admin2Cape May	0.527706
## Admin2Carbon	0.934283
## Admin2Caribou	0.882660
## Admin2Carlisle	0.993561

## Admin2Carlton	0.761185
## Admin2Carolina	0.977964
## Admin2Caroline	0.900781
## Admin2Carroll	0.894227
## Admin2Carson	0.906542
## Admin2Carson City	0.456930
## Admin2Carter	0.894998
## Admin2Carteret	0.853999
## Admin2Carver	0.613930
## Admin2Cascade	0.727214
## Admin2Casey	0.975105
## Admin2Cass	0.833997
## Admin2Cassia	0.852812
## Admin2Castro	0.914701
## Admin2Caswell	0.945969
## Admin2Catahoula	0.944623
## Admin2Catano	0.719425
## Admin2Catawba	0.553532
## Admin2Catoosa	0.799896
## Admin2Catron	0.944155
## Admin2Cattaraugus	0.763684
## Admin2Cavalier	0.875117
## Admin2Cayey	0.768186
## Admin2Cayuga	0.772007
## Admin2Cecil	0.999085
## Admin2Cedar	0.889046
## Admin2Ceiba	0.692460
## Admin2Central Utah	0.728584
## Admin2Centre	0.852896
## Admin2Cerro Gordo	0.821928
## Admin2Chaffee	0.998411
## Admin2Chambers	0.975867
## Admin2Champaign	0.732107
## Admin2Chariton	0.961955
## Admin2Charles	0.860375
## Admin2Charles City	0.785860
## Admin2Charles Mix	0.898614
## Admin2Charleston	0.194391
## Admin2Charlevoix	0.715278
## Admin2Charlotte	0.854608
## Admin2Charlottesville	0.706016
## Admin2Charlton	0.903718
## Admin2Chase	0.910994
## Admin2Chatham	0.550786
## Admin2Chattahoochee	0.869413
## Admin2Chattooga	0.871717
## Admin2Chautauqua	0.941237
## Admin2Chaves	0.761815
## Admin2Cheatham	0.993264
## Admin2Cheboygan	0.714397
## Admin2Chelan	0.906747
## Admin2Chemung	0.819227
## Admin2Chenango	0.708870
## Admin2Cherokee	0.804946

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## Admin2Chesapeake	0.378901
## Admin2Cheshire	0.691076
## Admin2Chester	0.711837
## Admin2Chesterfield	0.449742
## Admin2Cheyenne	0.948677
## Admin2Chickasaw	0.910483
## Admin2Chicot	0.937564
## Admin2Childress	0.916793
## Admin2Chilton	0.932886
## Admin2Chippewa	0.967691
## Admin2Chisago	0.718384
## Admin2Chittenden	0.443492
## Admin2Choctaw	0.970545
## Admin2Chouteau	0.944569
## Admin2Chowan	0.957126
## Admin2Christian	0.863907
## Admin2Chugach	0.937922
## Admin2Churchill	0.402958
## Admin2Ciales	0.706003
## Admin2Cibola	0.877808
## Admin2Cidra	0.765894
## Admin2Cimarron	0.964786
## Admin2Citrus	0.950695
## Admin2Clackamas	0.467546
## Admin2Claiborne	0.983804
## Admin2Clallam	0.842246
## Admin2Clare	0.731547
## Admin2Clarendon	0.976112
## Admin2Clarion	0.883884
## Admin2Clark	0.398330
## Admin2Clarke	0.810894
## Admin2Clatsop	0.978596
## Admin2Clay	0.904684
## Admin2Clayton	0.570289
## Admin2Clear Creek	0.972523
## Admin2Clearfield	0.994891
## Admin2Clearwater	0.829231
## Admin2Cleburne	0.941797
## Admin2Clermont	0.658170
## Admin2Cleveland	0.556144
## Admin2Clinch	0.911571
## Admin2Clinton	0.972615
## Admin2Cloud	0.927496
## Admin2Coahoma	0.939319
## Admin2Coal	0.953917
## Admin2Coamo	0.748130
## Admin2Cobb	0.027756 *
## Admin2Cochise	0.830083
## Admin2Cochran	0.901179
## Admin2Cocke	0.981314
## Admin2Coconino	0.734727
## Admin2Codington	0.845244
## Admin2Coffee	0.867798

## Admin2Coffey	0.926347
## Admin2Coke	0.901431
## Admin2Colbert	0.871290
## Admin2Cole	0.793447
## Admin2Coleman	0.909214
## Admin2Coles	0.974089
## Admin2Colfax	0.892844
## Admin2Colleton	0.972122
## Admin2Collier	0.554323
## Admin2Collin	0.010545 *
## Admin2Collingsworth	0.899947
## Admin2Colonial Heights	0.751311
## Admin2Colorado	0.927932
## Admin2Colquitt	0.829764
## Admin2Columbia	0.980749
## Admin2Columbiana	0.923425
## Admin2Columbus	0.848550
## Admin2Colusa	0.719304
## Admin2Comal	0.772299
## Admin2Comanche	0.872285
## Admin2Comerio	0.710886
## Admin2Concho	0.903739
## Admin2Concordia	0.969669
## Admin2Conecuh	0.993732
## Admin2Conejos	0.975455
## Admin2Contra Costa	0.017850 *
## Admin2Converse	0.930968
## Admin2Conway	0.911796
## Admin2Cook	1.22e-09 ***
## Admin2Cooke	0.959996
## Admin2Cooper	0.940247
## Admin2Coos	0.834460
## Admin2Coosa	0.995421
## Admin2Copiah	0.931430
## Admin2Copper River	0.945700
## Admin2Corozal	0.751377
## Admin2Corson	0.916427
## Admin2Cortland	0.719538
## Admin2Coryell	0.941014
## Admin2Coshocton	0.923741
## Admin2Costilla	0.964969
## Admin2Cottle	0.896135
## Admin2Cotton	0.957162
## Admin2Cottonwood	0.818828
## Admin2Covington	0.862687
## Admin2Coweta	0.624781
## Admin2Cowley	0.851647
## Admin2Cowlitz	0.931147
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## Admin2Craighead	0.612346
## Admin2Crane	0.905081
## Admin2Craven	0.752765
## Admin2Crawford	0.972300
## Admin2Creek	0.797820

## Admin2Crenshaw	0.997082
## Admin2Crisp	0.887412
## Admin2Crittenden	0.900034
## Admin2Crockett	0.918567
## Admin2Crook	0.974255
## Admin2Crosby	0.910676
## Admin2Cross	0.917351
## Admin2Crow Wing	0.703707
## Admin2Crowley	0.985317
## Admin2Culberson	0.897421
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## Admin2Cullman	0.792658
## Admin2Culpeper	0.692511
## Admin2Cumberland	0.750662
## Admin2Cuming	0.894299
## Admin2Currituck	0.948519
## Admin2Curry	0.921676
## Admin2Custer	0.901381
## Admin2Cuyahoga	0.001391 **
## Admin2Dade	0.921551
## Admin2Daggett	0.900249
## Admin2Dakota	0.323792
## Admin2Dale	0.907029
## Admin2Dallam	0.911988
## Admin2Dallas	0.063781 .
## Admin2Dane	0.085544 .
## Admin2Daniels	0.951150
## Admin2Danville	0.691050
## Admin2Dare	0.920202
## Admin2Darke	0.962797
## Admin2Darlington	0.884814
## Admin2Dauphin	0.643069
## Admin2Davidson	0.116879
## Admin2Davie	0.882599
## Admin2Daviess	0.854329
## Admin2Davis	0.416991
## Admin2Davison	0.871666
## Admin2Dawes	0.898447
## Admin2Dawson	0.918940
## Admin2Day	0.914155
## Admin2De Baca	0.942495
## Admin2De Soto	0.994917
## Admin2De Witt	0.918462
## Admin2Deaf Smith	0.938029
## Admin2Dearborn	0.907091
## Admin2Decatur	0.933318
## Admin2Deer Lodge	0.929896
## Admin2Defiance	0.941747
## Admin2DeKalb	0.603391
## Admin2Del Norte	0.740183
## Admin2Delaware	0.718552
## Admin2Delta	0.871210
## Admin2Denali	0.942105
## Admin2Dent	0.946792

## Admin2Denton	0.040210 *
## Admin2Denver	0.033234 *
## Admin2Des Moines	0.834311
## Admin2Deschutes	0.610053
## Admin2Desha	0.933490
## Admin2DeSoto	0.878485
## Admin2Deuel	0.898649
## Admin2Dewey	0.919333
## Admin2DeWitt	0.950290
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## Admin2Dillon	0.968367
## Admin2Dimmit	0.941641
## Admin2Dinwiddie	0.743255
## Admin2District of Columbia	0.159074
## Admin2Divide	0.878118
## Admin2Dixie	0.694385
## Admin2Dixon	0.899277
## Admin2Doddridge	0.987466
## Admin2Dodge	0.769169
## Admin2Dolores	0.960880
## Admin2Dona Ana	0.422004
## Admin2Doniphan	0.926150
## Admin2Donley	0.903338
## Admin2Dooly	0.908748
## Admin2Door	0.949309
## Admin2Dorado	0.752862
## Admin2Dorchester	0.769786
## Admin2Dougherty	0.745977
## Admin2Douglas	0.708719
## Admin2Drew	0.918647
## Admin2Dubois	0.917184
## Admin2Dubuque	0.686796
## Admin2Duchesne	0.900249
## Admin2Dukes	0.176718
## Admin2Dukes and Nantucket	0.203423
## Admin2Dundy	0.907033
## Admin2Dunklin	0.902572
## Admin2Dunn	0.867493
## Admin2DuPage	0.007772 **
## Admin2Duplin	0.837241
## Admin2Durham	0.317593
## Admin2Dutchess	0.735206
## Admin2Duval	0.139574
## Admin2Dyer	0.973476
## Admin2Eagle	0.896481
## Admin2Early	0.906452
## Admin2East Baton Rouge	0.209667
## Admin2East Carroll	0.945578
## Admin2East Feliciana	0.984463

## Admin2Eastland	0.919610
## Admin2Eaton	0.933551
## Admin2Eau Claire	0.737908
## Admin2Echols	0.922561
## Admin2Ector	0.767767
## Admin2Eddy	0.813628
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## Admin2Edgecombe	0.861676
## Admin2Edgefield	0.995526
## Admin2Edmonson	0.991533
## Admin2Edmunds	0.917552
## Admin2Edwards	0.938600
## Admin2Effingham	0.899918
## Admin2El Dorado	0.969223
## Admin2El Paso	0.007802 **
## Admin2Elbert	0.934766
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## Admin2Emmet	0.897446
## Admin2Emmons	0.876138
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## Admin2Escambia	0.733105
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## Admin2Essex	0.399854
## Admin2Estill	0.975919
## Admin2Etowah	0.771239
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## Admin2Evangeline	0.999364
## Admin2Evans	0.908685
## Admin2Fairbanks North Star	0.724652
## Admin2Fairfax	0.005320 **
## Admin2Fairfax City	0.778469
## Admin2Fairfield	0.286201
## Admin2Fajardo	0.734012
## Admin2Fall River	0.906797
## Admin2Fallon	0.948735
## Admin2Falls	0.927980
## Admin2Falls Church	0.772416
## Admin2Fannin	0.959401
## Admin2Faribault	0.813480
## Admin2Faulk	0.920419
## Admin2Faulkner	0.640251
## Admin2Fauquier	0.676726
## Admin2Fayette	0.828984
## Admin2Federal Correctional Institution (FCI)	0.675292

## Admin2Fentress	0.958831
## Admin2Fergus	0.932057
## Admin2Ferry	0.738416
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## Admin2Finney	0.844735
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## Admin2Flathead	0.699089
## Admin2Fleming	0.978077
## Admin2Florence	0.812016
## Admin2Florida	0.702296
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## Admin2Fond du Lac	0.718826
## Admin2Ford	0.961156
## Admin2Forest	0.905047
## Admin2Forrest	0.792217
## Admin2Forsyth	0.260452
## Admin2Fort Bend	0.023575 *
## Admin2Foster	0.873687
## Admin2Fountain	0.982975
## Admin2Franklin	0.820025
## Admin2Franklin City	0.778416
## Admin2Frederick	0.611857
## Admin2Fredericksburg	0.744731
## Admin2Freeborn	0.767686
## Admin2Freestone	0.926609
## Admin2Fremont	0.846288
## Admin2Fresno	0.007231 **
## Admin2Frio	0.945349
## Admin2Frontier	0.905379
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## Admin2Furnas	0.899950
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## Admin2Gage	0.874930
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## Admin2Garrard	0.970688
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## Admin2Garvin	0.904011
## Admin2Garza	0.904720
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## Admin2Geauga	0.996129
## Admin2Gem	0.862970

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## Admin2Glynn	0.724333
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## Admin2Goliad	0.905176
## Admin2Gonzales	0.934930
## Admin2Goochland	0.755672
## Admin2Goodhue	0.730572
## Admin2Gooding	0.865616
## Admin2Gordon	0.779032
## Admin2Goshen	0.923605
## Admin2Gosper	0.906664
## Admin2Gove	0.941103
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## Admin2Grafton	0.662378
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## Admin2Grainger	0.968298
## Admin2Grand	0.948168
## Admin2Grand Forks	0.684176
## Admin2Grand Isle	0.685664
## Admin2Grand Traverse	0.832018
## Admin2Granite	0.949720
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## Admin2Granville	0.847721
## Admin2Gratiot	0.766771
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## Admin2Grays Harbor	0.877809
## Admin2Grayson	0.818841
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## Admin2Green Lake	0.968161
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## Admin2Greene	0.878093
## Admin2Greenlee	0.909239

## Admin2Greenville	0.769614
## Admin2Greenup	0.888601
## Admin2Greenville	0.047984 *
## Admin2Greenwood	0.874782
## Admin2Greer	0.957995
## Admin2Gregg	0.896099
## Admin2Gregory	0.916287
## Admin2Grenada	0.952781
## Admin2Griggs	0.877422
## Admin2Grimes	0.971913
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## Admin2Guadalupe	0.822120
## Admin2Guanica	0.696855
## Admin2Guayama	0.751062
## Admin2Guayanilla	0.709704
## Admin2Guaynabo	0.876649
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## Admin2Guilford	0.120808
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## Admin2Gunnison	0.988579
## Admin2Gurabo	0.769633
## Admin2Guthrie	0.899108
## Admin2Gwinnett	0.009420 **
## Admin2Haakon	0.921700
## Admin2Habersham	0.841755
## Admin2Haines	0.949247
## Admin2Hale	0.982205
## Admin2Halifax	0.758257
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## Admin2Hamblen	0.905982
## Admin2Hamilton	0.655843
## Admin2Hamlin	0.912016
## Admin2Hampden	0.784731
## Admin2Hampshire	0.578859
## Admin2Hampton	0.720611
## Admin2Hancock	0.943105
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## Admin2Hanover	0.591587
## Admin2Hansford	0.911006
## Admin2Hanson	0.920020
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## Admin2Hardeman	0.928993
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## Admin2Hardy	0.987859
## Admin2Harford	0.776946
## Admin2Harlan	0.899526
## Admin2Harmon	0.963473
## Admin2Harnett	0.675384
## Admin2Harney	0.945609
## Admin2Harper	0.940806
## Admin2Harris	1.20e-12 ***
## Admin2Harrison	0.861043

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## Admin2Hays	0.526778
## Admin2Haywood	0.941049
## Admin2Heard	0.910793
## Admin2Hemphill	0.904343
## Admin2Hempstead	0.918097
## Admin2Henderson	0.923812
## Admin2Hendricks	0.670029
## Admin2Hendry	0.759339
## Admin2Hennepin	9.02e-05 ***
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## Admin2Herkimer	0.750034
## Admin2Hernando	0.934498
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## Admin2Hettinger	0.875249
## Admin2Hickman	0.978074
## Admin2Hickory	0.958907
## Admin2Hidalgo	0.145221
## Admin2Highland	0.909648
## Admin2Highlands	0.887354
## Admin2Hill	0.965576
## Admin2Hillsborough	0.001450 **
## Admin2Hillsdale	0.765187
## Admin2Hinds	0.513019
## Admin2Hinsdale	0.958836
## Admin2Hitchcock	0.905277
## Admin2Hocking	0.912404
## Admin2Hockley	0.966372
## Admin2Hodgeman	0.944485
## Admin2Hoke	0.848217
## Admin2Holmes	0.848828
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## Admin2Hunterdon	0.556219
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## Admin2Huntington	0.921390
## Admin2Huron	0.842067
## Admin2Hutchinson	0.975283
## Admin2Hyde	0.946290
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## Admin2Iberville	0.990550
## Admin2Ida	0.904175
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## Admin2Ingham	0.690430
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## Admin2Irwin	0.913680
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## Admin2Isabella	0.804775
## Admin2Isanti	0.759265
## Admin2Island	0.826348
## Admin2Isle of Wight	0.730510
## Admin2Issaquena	0.999623
## Admin2Itasca	0.746019
## Admin2Itawamba	0.929708
## Admin2Izard	0.925440
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## Admin2Jeff Davis	0.999125
## Admin2Jefferson	0.614569
## Admin2Jefferson Davis	0.994826

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## Admin2Jerauld	0.922013
## Admin2Jerome	0.841400
## Admin2Jersey	0.939033
## Admin2Jessamine	0.869912
## Admin2Jewell	0.940906
## Admin2Jim Hogg	0.922420
## Admin2Jim Wells	0.996478
## Admin2Jo Daviess	0.918077
## Admin2Johnson	0.678116
## Admin2Johnston	0.639110
## Admin2Jones	0.895177
## Admin2Josephine	0.908417
## Admin2Juab	0.900249
## Admin2Juana Diaz	0.768414
## Admin2Judith Basin	0.952699
## Admin2Juncos	0.756472
## Admin2Juneau	0.890081
## Admin2Juniata	0.852005
## Admin2Kalamazoo	0.754415
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## Admin2Kalkaska	0.705243
## Admin2Kanabec	0.814757
## Admin2Kanawha	0.590984
## Admin2Kandiyohi	0.729913
## Admin2Kane	0.362722
## Admin2Kankakee	0.836512
## Admin2Kansas City	0.163037
## Admin2Karnes	0.943306
## Admin2Kauai	0.893234
## Admin2Kaufman	0.777302
## Admin2Kay	0.849432
## Admin2Kearney	0.899386
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## Admin2Keith	0.896200
## Admin2Kemper	0.982482
## Admin2Kenai Peninsula	0.797675
## Admin2Kendall	0.901117
## Admin2Kenedy	0.893916
## Admin2Kennebec	0.788898
## Admin2Kenosha	0.597775
## Admin2Kent	0.608169
## Admin2Kenton	0.613564
## Admin2Keokuk	0.901351
## Admin2Kern	0.011962 *
## Admin2Kerr	0.979281
## Admin2Kershaw	0.843077
## Admin2Ketchikan Gateway	0.918615
## Admin2Kewaunee	0.964385
## Admin2Keweenaw	0.677580
## Admin2Keya Paha	0.909111
## Admin2Kidder	0.878056
## Admin2Kimball	0.903678

## Admin2Kimble	0.900316
## Admin2King	0.005270 **
## Admin2King and Queen	0.787589
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## Admin2King William	0.763279
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## Admin2Kingman	0.930290
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## Admin2Kiowa	0.972996
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## Admin2Kittson	0.837992
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## Admin2Knott	0.969889
## Admin2Knox	0.798478
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## Admin2Kootenai	0.556251
## Admin2Kosciusko	0.854605
## Admin2Kossuth	0.886825
## Admin2Kusilvak	0.920716
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## Admin2La Paz	0.932621
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## Admin2Lafayette	0.889645
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## Admin2LaGrange	0.981940
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## Admin2Lamar	0.914865
## Admin2Lamb	0.933078
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## Admin2LaMoure	0.873718
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## Admin2Lancaster	0.380155
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## Admin2Lanier	0.909825
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## Admin2LaPorte	0.787827
## Admin2Laramie	0.722968
## Admin2Lares	0.744976

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## Admin2Larue	0.979508
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## Admin2Las Marias	0.690153
## Admin2Las Piedras	0.752095
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## Admin2Laurel	0.809699
## Admin2Laurens	0.817562
## Admin2Lavaca	0.931328
## Admin2Lawrence	0.941134
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## Admin2Le Sueur	0.790538
## Admin2Lea	0.776117
## Admin2Leake	0.943671
## Admin2Leavenworth	0.762962
## Admin2Lebanon	0.842130
## Admin2Lee	0.692072
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## Admin2Leflore	0.935306
## Admin2Lehigh	0.399056
## Admin2Lemhi	0.882166
## Admin2Lenawee	0.902862
## Admin2Lenoir	0.842544
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## Admin2Leslie	0.976362
## Admin2Letcher	0.940332
## Admin2Levy	0.751413
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## Admin2Lewis and Clark	0.787642
## Admin2Lexington	0.409908
## Admin2Liberty	0.992749
## Admin2Licking	0.748413
## Admin2Limestone	0.911485
## Admin2Lincoln	0.947014
## Admin2Linn	0.723448
## Admin2Lipscomb	0.899437
## Admin2Litchfield	0.865904
## Admin2Little River	0.931673
## Admin2Live Oak	0.911980
## Admin2Livingston	0.965165
## Admin2Llano	0.932762
## Admin2Logan	0.923715
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## Admin2Long	0.903757
## Admin2Lonoke	0.778179
## Admin2Lorain	0.500294
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## Admin2Love	0.939501
## Admin2Loving	0.896158
## Admin2Lowndes	0.794650
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## Admin2Lucas	0.505634
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## Admin2Luquillo	0.705246
## Admin2Luzerne	0.502804
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## Admin2Lynchburg	0.623780
## Admin2Lynn	0.906377
## Admin2Lyon	0.954920
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## Admin2Macoupin	0.997491
## Admin2Madera	0.909188
## Admin2Madison	0.812005
## Admin2Magoffin	0.976836
## Admin2Mahaska	0.875803
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## Admin2Malheur	0.995222
## Admin2Manassas	0.711336
## Admin2Manassas Park	0.761996
## Admin2Manatee	0.448336
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## Admin2Manistee	0.707706
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## Admin2Marquette	0.901785
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## Admin2Martin	0.970284
## Admin2Martinsville	0.764548
## Admin2Mason	0.881465
## Admin2Massac	0.914106
## Admin2Matagorda	0.973083
## Admin2Matanuska-Susitna	0.676745

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## Admin2Maui	0.728355
## Admin2Maunabo	0.693118
## Admin2Maury	0.824008
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## Admin2Mayes	0.868735
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## Admin2Meagher	0.950298
## Admin2Mecklenburg	0.024603 *
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## Admin2Mellette	0.920739
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## Admin2Merrick	0.894119
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## Admin2Metcalfe	0.988355
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## Admin2Millard	0.900249
## Admin2Mille Lacs	0.784043
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## Admin2Mills	0.990554
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## Admin2Minidoka	0.858952
## Admin2Minnehaha	0.468727
## Admin2Missaukee	0.698547
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## Admin2Montgomery	0.498524
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## Admin2Naranjito	0.735561
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## Admin2Nassau	0.006768 **
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## Admin2New Hanover	0.528754
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## Admin2New London	0.645209
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## Admin2Osceola	0.771380
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## Admin2Oswego	0.879458
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## Admin2Toe	0.880039
## Admin2Otsego	0.680156
## Admin2Ottawa	0.855966
## Admin2Otter Tail	0.726243
## Admin2Ouachita	0.713084
## Admin2Ouray	0.966262
## Admin2Out of AK	0.954874
## Admin2Out of AL	0.966245
## Admin2Out of AR	0.962027
## Admin2Out of AZ	0.889822

## Admin2Out of CA	0.681930
## Admin2Out of CO	0.957591
## Admin2Out of CT	0.833660
## Admin2Out of DC	0.984746
## Admin2Out of DE	0.774823
## Admin2Out of FL	0.659517
## Admin2Out of GA	0.291102
## Admin2Out of HI	0.956338
## Admin2Out of IA	0.920667
## Admin2Out of ID	0.895502
## Admin2Out of IL	0.878122
## Admin2Out of IN	0.966839
## Admin2Out of KS	0.948363
## Admin2Out of KY	0.983045
## Admin2Out of LA	0.920390
## Admin2Out of MA	0.176718
## Admin2Out of MD	0.847374
## Admin2Out of ME	0.985729
## Admin2Out of MI	0.740660
## Admin2Out of MN	0.847410
## Admin2Out of MO	0.977613
## Admin2Out of MS	0.997255
## Admin2Out of MT	0.954904
## Admin2Out of NC	0.997188
## Admin2Out of ND	0.882606
## Admin2Out of NE	0.910169
## Admin2Out of NH	0.825321
## Admin2Out of NJ	0.358148
## Admin2Out of NM	0.948238
## Admin2Out of NV	0.363523
## Admin2Out of NY	0.624979
## Admin2Out of OH	0.846053
## Admin2Out of OK	0.970219
## Admin2Out of OR	0.930360
## Admin2Out of PA	0.808386
## Admin2Out of PR	0.674373
## Admin2Out of RI	0.868576
## Admin2Out of SC	0.938244
## Admin2Out of SD	0.925726
## Admin2Out of TN	0.620523
## Admin2Out of TX	0.893108
## Admin2Out of UT	0.900249
## Admin2Out of VA	0.798550
## Admin2Out of VT	0.694645
## Admin2Out of WA	0.725266
## Admin2Out of WI	0.982382
## Admin2Out of WV	0.967878
## Admin2Out of WY	0.959205
## Admin2Outagamie	0.542229
## Admin2Overton	0.971560
## Admin2Owen	0.983821
## Admin2Owsley	0.999333
## Admin2Owyhee	0.875618
## Admin2Oxford	0.904441

## Admin2Ozark	0.961631
## Admin2Ozaukee	0.803031
## Admin2Pacific	0.760714
## Admin2Page	0.790623
## Admin2Palm Beach	2.60e-05 ***
## Admin2Palo Alto	0.902072
## Admin2Palo Pinto	0.955723
## Admin2Pamlico	0.970539
## Admin2Panola	0.982332
## Admin2Park	0.930542
## Admin2Parke	0.999276
## Admin2Parker	0.793429
## Admin2Parmer	0.914001
## Admin2Pasco	0.268208
## Admin2Pasquotank	0.915134
## Admin2Passaic	0.358487
## Admin2Patillas	0.708658
## Admin2Patrick	0.761754
## Admin2Paulding	0.816888
## Admin2Pawnee	0.904756
## Admin2Payette	0.844682
## Admin2Payne	0.793908
## Admin2Peach	0.869678
## Admin2Pearl River	0.864424
## Admin2Pecos	0.921090
## Admin2Pembina	0.864545
## Admin2Pemiscot	0.948567
## Admin2Pend Oreille	0.747066
## Admin2Pender	0.852642
## Admin2Pendleton	0.998240
## Admin2Pennington	0.685236
## Admin2Penobscot	0.738557
## Admin2Penuelas	0.709610
## Admin2Peoria	0.666243
## Admin2Pepin	0.999703
## Admin2Perkins	0.899378
## Admin2Perquimans	0.969814
## Admin2Perry	0.993856
## Admin2Pershing	0.375487
## Admin2Person	0.902892
## Admin2Petersburg	0.813232
## Admin2Petroleum	0.954568
## Admin2Pettis	0.861836
## Admin2Phelps	0.865755
## Admin2Philadelphia	0.000375 ***
## Admin2Phillips	0.946833
## Admin2Piatt	0.921106
## Admin2Pickaway	0.989384
## Admin2Pickens	0.785898
## Admin2Pickett	0.921308
## Admin2Pierce	0.508164
## Admin2Pike	0.957775
## Admin2Pima	0.006805 **
## Admin2Pinal	0.202611

## Admin2Pine	0.782771
## Admin2Pinellas	0.025045 *
## Admin2Pipestone	0.829503
## Admin2Piscataquis	0.984619
## Admin2Pitkin	0.979475
## Admin2Pitt	0.514037
## Admin2Pittsburg	0.863956
## Admin2Pittsylvania	0.660801
## Admin2Piute	0.900249
## Admin2Placer	0.649747
## Admin2Plaquemines	0.981075
## Admin2Platte	0.858351
## Admin2Pleasants	0.987482
## Admin2Plumas	0.712166
## Admin2Plymouth	0.920396
## Admin2Pocahontas	0.952628
## Admin2Poinsett	0.884270
## Admin2Pointe Coupee	0.980879
## Admin2Polk	0.599382
## Admin2Ponce	0.956562
## Admin2Pondera	0.943467
## Admin2Pontotoc	0.854765
## Admin2Pope	0.888681
## Admin2Poquoson	0.776374
## Admin2Portage	0.802681
## Admin2Porter	0.671509
## Admin2Portsmouth	0.607125
## Admin2Posey	0.971616
## Admin2Pottawatomie	0.804197
## Admin2Pottawattamie	0.708144
## Admin2Potter	0.940536
## Admin2Powder River	0.951651
## Admin2Powell	0.945088
## Admin2Power	0.882837
## Admin2Poweshiek	0.884744
## Admin2Powhatan	0.750965
## Admin2Prairie	0.939991
## Admin2Pratt	0.930620
## Admin2Preble	0.935755
## Admin2Prentiss	0.923139
## Admin2Presidio	0.902553
## Admin2Presque Isle	0.690047
## Admin2Preston	0.945951
## Admin2Price	0.986203
## Admin2Prince Edward	0.748938
## Admin2Prince George	0.713166
## Admin2Prince George's	0.046988 *
## Admin2Prince of Wales-Hyder	0.942006
## Admin2Prince William	0.135134
## Admin2Providence	0.017509 *
## Admin2Prowers	0.982824
## Admin2Pueblo	0.582793
## Admin2Pulaski	0.713016
## Admin2Pushmataha	0.944979

## Admin2Putnam	0.991380
## Admin2Quay	0.928683
## Admin2Quebradillas	0.730763
## Admin2Queen Anne's	0.914206
## Admin2Queens	3.18e-16 ***
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## Admin2Rabun	0.898856
## Admin2Racine	0.501143
## Admin2Radford	0.760381
## Admin2Rains	0.910707
## Admin2Raleigh	0.798793
## Admin2Ralls	0.954565
## Admin2Ramsey	0.268134
## Admin2Randall	0.873050
## Admin2Randolph	0.888446
## Admin2Rankin	0.652334
## Admin2Ransom	0.867956
## Admin2Rapides	0.759497
## Admin2Rappahannock	0.788290
## Admin2Ravalli	0.889746
## Admin2Rawlins	0.942309
## Admin2Ray	0.929318
## Admin2Reagan	0.900732
## Admin2Real	0.900944
## Admin2Red Lake	0.839308
## Admin2Red River	0.916437
## Admin2Red Willow	0.889380
## Admin2Redwood	0.811768
## Admin2Reeves	0.936712
## Admin2Refugio	0.910793
## Admin2Reno	0.774084
## Admin2Rensselaer	0.934896
## Admin2Renville	0.822039
## Admin2Republic	0.936187
## Admin2Reynolds	0.966804
## Admin2Rhea	0.996089
## Admin2Rice	0.777656
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## Admin2Richardson	0.892726
## Admin2Richland	0.723305
## Admin2Richmond	0.371668
## Admin2Richmond City	0.389506
## Admin2Riley	0.821968
## Admin2Rincon	0.700111
## Admin2Ringgold	0.910370
## Admin2Rio Arriba	0.847115
## Admin2Rio Blanco	0.974843
## Admin2Rio Grande	0.848161
## Admin2Ripley	0.946978
## Admin2Ritchie	0.991538
## Admin2Riverside	5.37e-12 ***
## Admin2Roane	0.966453
## Admin2Roanoke	0.596020
## Admin2Roanoke City	0.596013

## Admin2Roberts	0.995019
## Admin2Robertson	0.987454
## Admin2Robeson	0.610360
## Admin2Rock	0.728917
## Admin2Rock Island	0.794909
## Admin2Rockbridge	0.760208
## Admin2Rockcastle	0.965623
## Admin2Rockdale	0.751097
## Admin2Rockingham	0.476145
## Admin2Rockland	0.501542
## Admin2Rockwall	0.860899
## Admin2Roger Mills	0.961673
## Admin2Rogers	0.731399
## Admin2Rolette	0.824166
## Admin2Rooks	0.935904
## Admin2Roosevelt	0.898974
## Admin2Roscommon	0.713399
## Admin2Roseau	0.809019
## Admin2Rosebud	0.930723
## Admin2Ross	0.960548
## Admin2Routt	0.981411
## Admin2Rowan	0.739451
## Admin2Runnels	0.914489
## Admin2Rush	0.957812
## Admin2Rusk	0.996755
## Admin2Russell	0.856177
## Admin2Rutherford	0.478145
## Admin2Rutland	0.581303
## Admin2Sabana Grande	0.713735
## Admin2Sabine	0.935206
## Admin2Sac	0.898425
## Admin2Sacramento	0.000564 ***
## Admin2Sagadahoc	0.961327
## Admin2Saginaw	0.863406
## Admin2Saguache	0.969310
## Admin2Salem	0.804633
## Admin2Salinas	0.725556
## Admin2Saline	0.828544
## Admin2Salt Lake	4.87e-05 ***
## Admin2Saluda	0.974350
## Admin2Sampson	0.817108
## Admin2San Augustine	0.902608
## Admin2San Benito	0.816287
## Admin2San Bernardino	3.95e-11 ***
## Admin2San Diego	< 2e-16 ***
## Admin2San Francisco	0.118894
## Admin2San German	0.731787
## Admin2San Jacinto	0.945168
## Admin2San Joaquin	0.082336 .
## Admin2San Juan	0.821092
## Admin2San Lorenzo	0.749893
## Admin2San Luis Obispo	0.767145
## Admin2San Mateo	0.155388
## Admin2San Miguel	0.948083

## Admin2San Patricio	0.993876
## Admin2San Saba	0.904704
## Admin2San Sebastian	0.762642
## Admin2Sanborn	0.920489
## Admin2Sanders	0.936140
## Admin2Sandoval	0.619890
## Admin2Sandusky	0.981718
## Admin2Sangamon	0.553795
## Admin2Sanilac	0.749712
## Admin2Sanpete	0.900249
## Admin2Santa Barbara	0.468615
## Admin2Santa Clara	2.05e-05 ***
## Admin2Santa Cruz	0.858344
## Admin2Santa Fe	0.651895
## Admin2Santa Isabel	0.714818
## Admin2Santa Rosa	0.892299
## Admin2Sarasota	0.456698
## Admin2Saratoga	0.911526
## Admin2Sargent	0.872775
## Admin2Sarpy	0.491032
## Admin2Sauk	0.855386
## Admin2Saunders	0.866775
## Admin2Sawyer	0.971181
## Admin2Schenectady	0.949611
## Admin2Schleicher	0.897758
## Admin2Schley	0.919898
## Admin2Schoharie	0.671249
## Admin2Schoolcraft	0.688714
## Admin2Schuyler	0.826228
## Admin2Schuyldkill	0.864443
## Admin2Scioto	0.940210
## Admin2Scotland	0.924973
## Admin2Scott	0.800066
## Admin2Scotts Bluff	0.823339
## Admin2Screven	0.906217
## Admin2Scurry	0.940300
## Admin2Searcy	0.942105
## Admin2Sebastian	0.664971
## Admin2Sedgwick	0.331107
## Admin2Seminole	0.664122
## Admin2Seneca	0.793345
## Admin2Sequatchie	0.944282
## Admin2Sequoyah	0.870079
## Admin2Sevier	0.845193
## Admin2Seward	0.865504
## Admin2Shackelford	0.901713
## Admin2Shannon	0.962618
## Admin2Sharkey	0.993717
## Admin2Sharp	0.917430
## Admin2Shasta	0.986770
## Admin2Shawano	0.907245
## Admin2Shawnee	0.511008
## Admin2Sheboygan	0.716879
## Admin2Shelby	0.585776

## Admin2Shenandoah	0.695860
## Admin2Sherburne	0.614498
## Admin2Sheridan	0.885132
## Admin2Sherman	0.997176
## Admin2Shiawassee	0.836341
## Admin2Shoshone	0.871588
## Admin2Sibley	0.815109
## Admin2Sierra	0.852739
## Admin2Silver Bow	0.878617
## Admin2Simpson	0.939505
## Admin2Sioux	0.850234
## Admin2Siskiyou	0.745003
## Admin2Sitka	0.930200
## Admin2Skagit	0.939647
## Admin2Skagway	0.950084
## Admin2Skamania	0.738387
## Admin2Slope	0.882057
## Admin2Smith	0.877326
## Admin2Smyth	0.709794
## Admin2Snohomish	0.105148
## Admin2Snyder	0.882581
## Admin2Socorro	0.911991
## Admin2Solano	0.456215
## Admin2Somerset	0.989991
## Admin2Somervell	0.910550
## Admin2Sonoma	0.471532
## Admin2Southampton	0.765167
## Admin2Southeast Fairbanks	0.937497
## Admin2Southeast Utah	0.809755
## Admin2Southwest Utah	0.408730
## Admin2Spalding	0.783083
## Admin2Spartanburg	0.279251
## Admin2Spencer	0.969900
## Admin2Spink	0.912617
## Admin2Spokane	0.256383
## Admin2Spotsylvania	0.549391
## Admin2St. Bernard	0.969012
## Admin2St. Charles	0.469205
## Admin2St. Clair	0.744230
## Admin2St. Croix	0.781916
## Admin2St. Francis	0.895212
## Admin2St. Francois	0.797116
## Admin2St. Helena	0.937685
## Admin2St. James	0.976983
## Admin2St. John the Baptist	0.978152
## Admin2St. Johns	0.745776
## Admin2St. Joseph	0.764835
## Admin2St. Landry	0.867856
## Admin2St. Lawrence	0.816254
## Admin2St. Louis	0.034783 *
## Admin2St. Louis City	0.441390
## Admin2St. Lucie	0.624250
## Admin2St. Martin	0.957886
## Admin2St. Mary	0.961999

## Admin2St. Mary's	0.966030
## Admin2St. Tammany	0.433003
## Admin2Stafford	0.669500
## Admin2Stanislaus	0.236229
## Admin2Stanley	0.920075
## Admin2Stanly	0.812457
## Admin2Stanton	0.912828
## Admin2Stark	0.712201
## Admin2Starke	0.989193
## Admin2Starr	0.919346
## Admin2Staunton	0.740471
## Admin2Ste. Genevieve	0.940120
## Admin2Stearns	0.430379
## Admin2Steele	0.790328
## Admin2Stephens	0.931385
## Admin2Stephenson	0.993732
## Admin2Sterling	0.895633
## Admin2Steuben	0.921465
## Admin2Stevens	0.983488
## Admin2Stewart	0.983957
## Admin2Stillwater	0.941475
## Admin2Stoddard	0.921556
## Admin2Stokes	0.877873
## Admin2Stone	0.921697
## Admin2Stonewall	0.896393
## Admin2Storey	0.364487
## Admin2Story	0.743423
## Admin2Strafford	0.572266
## Admin2Stutsman	0.820022
## Admin2Sublette	0.941429
## Admin2Suffolk	0.006044 **
## Admin2Sullivan	0.931224
## Admin2Sully	0.923670
## Admin2Summers	0.996728
## Admin2Summit	0.531663
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## Admin2Sumter	0.929363
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## Admin2Sussex	0.924638
## Admin2Sutter	0.887407
## Admin2Sutton	0.900332
## Admin2Suwannee	0.774451
## Admin2Swain	0.958907
## Admin2Sweet Grass	0.947812
## Admin2Sweetwater	0.863636
## Admin2Swift	0.826885
## Admin2Swisher	0.913710
## Admin2Switzerland	0.987630
## Admin2Talbot	0.988231
## Admin2Taliaferro	0.928187
## Admin2Talladega	0.815201
## Admin2Tallahatchie	0.972740

## Admin2Tallapoosa	0.920823
## Admin2Tama	0.884619
## Admin2Taney	0.852602
## Admin2Tangipahoa	0.739694
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## Admin2Tarrant	6.67e-11 ***
## Admin2Tate	0.934606
## Admin2Tattnall	0.886065
## Admin2Taylor	0.959433
## Admin2Tazewell	0.692648
## Admin2Tehama	0.810387
## Admin2Telfair	0.903529
## Admin2Teller	0.996357
## Admin2Tensas	0.930549
## Admin2Terrebonne	0.782930
## Admin2Terrell	0.990129
## Admin2Terry	0.916077
## Admin2Teton	0.870172
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## Admin2Tillman	0.956109
## Admin2Tioga	0.775478
## Admin2Tippah	0.932955
## Admin2Tippecanoe	0.579501
## Admin2Tipton	0.957196
## Admin2Tishomingo	0.943072
## Admin2Titus	0.973075
## Admin2Toa Alta	0.818095
## Admin2Toa Baja	0.836123
## Admin2Todd	0.864501
## Admin2Tolland	0.965533
## Admin2Tom Green	0.794591
## Admin2Tompkins	0.817955
## Admin2Tooele	0.713678
## Admin2Toole	0.943975
## Admin2Toombs	0.868624
## Admin2Torrance	0.922774
## Admin2Towner	0.876865
## Admin2Towns	0.907097
## Admin2Traill	0.863673
## Admin2Transylvania	0.932597
## Admin2Traverse	0.839732
## Admin2Travis	0.001861 **
## Admin2Treasure	0.953754
## Admin2Trego	0.941103
## Admin2Trempealeau	0.940663
## Admin2Treutlen	0.916198
## Admin2TriCounty	0.787324
## Admin2Trigg	0.977018

## Admin2Trimble	0.995519
## Admin2Trinity	0.772981
## Admin2Tripp	0.912711
## Admin2Troup	0.787025
## Admin2Trousdale	0.941302
## Admin2Trujillo Alto	0.799961
## Admin2Trumbull	0.749366
## Admin2Tucker	0.986757
## Admin2Tulare	0.236278
## Admin2Tulsa	0.036000 *
## Admin2Tunica	0.978813
## Admin2Tuolumne	0.809450
## Admin2Turner	0.893540
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## Admin2Tuscarawas	0.957613
## Admin2Tuscola	0.787922
## Admin2Twiggs	0.916442
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## Admin2Tyrrell	0.987840
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## Admin2Umatilla	0.866094
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## Admin2Unicoi	0.956999
## Admin2Union	0.888230
## Admin2Upshur	0.998865
## Admin2Upson	0.856578
## Admin2Upton	0.900473
## Admin2Utah	0.020981 *
## Admin2Utuado	0.725793
## Admin2Uvalde	0.983733
## Admin2Val Verde	0.982274
## Admin2Valdez-Cordova	0.954874
## Admin2Valencia	0.767348
## Admin2Valley	0.883255
## Admin2Van Buren	0.971662
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## Admin2Van Zandt	0.991713
## Admin2Vance	0.875753
## Admin2Vanderburgh	0.516116
## Admin2Vega Alta	0.750912
## Admin2Vega Baja	0.806515
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## Admin2Vermilion	0.875022
## Admin2Vermillion	0.994748
## Admin2Vernon	0.950060
## Admin2Victoria	0.926841
## Admin2Vieques	0.683112
## Admin2Vigo	0.762716
## Admin2Vilas	0.967091
## Admin2Villalba	0.721077

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## Admin2Wabasha	0.796995
## Admin2Wabaunsee	0.932904
## Admin2Wadena	0.807958
## Admin2Wagoner	0.764171
## Admin2Wahkiakum	0.729917
## Admin2Wake	0.000144 ***
## Admin2Wakulla	0.747134
## Admin2Waldo	0.953403
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## Admin2Walla Walla	0.866247
## Admin2Wallace	0.944524
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## Admin2Walthall	0.966778
## Admin2Walton	0.952556
## Admin2Walworth	0.813165
## Admin2Wapello	0.840038
## Admin2Ward	0.871325
## Admin2Ware	0.842508
## Admin2Warren	0.932837
## Admin2Warrick	0.840595
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## Admin2Wasco	0.982274
## Admin2Waseca	0.799254
## Admin2Washakie	0.938113
## Admin2Washburn	0.978475
## Admin2Washington	0.787585
## Admin2Washita	0.944822
## Admin2Washoe	0.764167
## Admin2Washtenaw	0.521949
## Admin2Watauga	0.881203
## Admin2Watsonwan	0.821379
## Admin2Waukesha	0.180271
## Admin2Waupaca	0.890659
## Admin2Waushara	0.957922
## Admin2Wayne	0.625478
## Admin2Waynesboro	0.742589
## Admin2Weakley	0.995678
## Admin2Webb	0.336576
## Admin2Weber	0.900249
## Admin2Weber-Morgan	0.324950
## Admin2Webster	0.914119
## Admin2Weld	0.328445
## Admin2Wells	0.911523
## Admin2West Baton Rouge	0.992501
## Admin2West Carroll	0.956953
## Admin2West Feliciana	0.945735
## Admin2Westchester	0.005470 **
## Admin2Westmoreland	0.557134

## Admin2Weston	0.944661
## Admin2Wetzel	0.989473
## Admin2Wexford	0.735739
## Admin2Wharton	0.982839
## Admin2Whatcom	0.900430
## Admin2Wheatland	0.951322
## Admin2Wheeler	0.997476
## Admin2White	0.918906
## Admin2White Pine	0.372585
## Admin2Whiteside	0.970296
## Admin2Whitfield	0.637821
## Admin2Whitley	0.900962
## Admin2Whitman	0.799613
## Admin2Wibaux	0.952988
## Admin2Wichita	0.845641
## Admin2Wicomico	0.964398
## Admin2Wilbarger	0.925774
## Admin2Wilcox	0.952636
## Admin2Wilkes	0.845181
## Admin2Wilkin	0.832653
## Admin2Wilkinson	0.941122
## Admin2Will	0.050608
## Admin2Willacy	0.961355
## Admin2Williams	0.913013
## Admin2Williamsburg	0.859573
## Admin2Williamson	0.354395
## Admin2Wilson	0.814564
## Admin2Winchester	0.737616
## Admin2Windham	0.750245
## Admin2Windsor	0.614733
## Admin2Winkler	0.910330
## Admin2Winn	0.962930
## Admin2Winnebago	0.524973
## Admin2Winneshiek	0.885729
## Admin2Winona	0.728943
## Admin2Winston	0.949283
## Admin2Wirt	0.981473
## Admin2Wise	0.796471
## Admin2Wolfe	0.989628
## Admin2Wood	0.845641
## Admin2Woodbury	0.671746
## Admin2Woodford	0.981621
## Admin2Woodruff	0.944238
## Admin2Woods	0.949031
## Admin2Woodson	0.940276
## Admin2Woodward	0.922261
## Admin2Worcester	0.624852
## Admin2Worth	0.904927
## Admin2Wrangell	0.949346
## Admin2Wright	0.737925
## Admin2Wyandot	0.897481
## Admin2Wyandotte	0.548518
## Admin2Wyoming	0.833145
## Admin2Wythe	0.727400

```
## Admin2Yabucoa 0.738811
## Admin2Yadkin 0.881101
## Admin2Yakima 0.647352
## Admin2Yakutat 0.948069
## Admin2Yalobusha 0.964886
## Admin2Yamhill 0.894745
## Admin2Yancey 0.947661
## Admin2Yankton 0.872565
## Admin2Yates 0.656088
## Admin2Yauco 0.745986
## Admin2Yavapai 0.685856
## Admin2Yazoo 0.925394
## Admin2Yell 0.902524
## Admin2Yellow Medicine 0.823924
## Admin2Yellowstone 0.580346
## Admin2Yoakum 0.906016
## Admin2Yolo 0.911963
## Admin2York 0.425374
## Admin2Young 0.927743
## Admin2Yuba 0.839921
## Admin2Yukon-Koyukuk 0.942729
## Admin2Yuma 0.773569
## Admin2Zapata 0.928019
## Admin2Zavala 0.928492
## Admin2Ziebach 0.920200
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 70100 on 1305 degrees of freedom
## (6 observations deleted due to missingness)
## Multiple R-squared:  0.8316, Adjusted R-squared:  0.5697
## F-statistic: 3.175 on 2030 and 1305 DF, p-value: < 2.2e-16
```

US_State coefficients: The coefficients for each US_State variable represent the estimated change in the response variable for a one-unit increase in that state, compared to the reference state (usually the first state listed alphabetically or numerically, depending on how the data is encoded). A positive coefficient indicates that the number of confirmed cases tends to be higher in that state compared to the reference state, while a negative coefficient indicates the opposite. The magnitude of the coefficient indicates the strength of the effect.

US_county coefficients: Similarly, the coefficients for each UD_county variable represent the estimated change in the response variable for a one-unit increase in that county, compared to the reference county. Again, positive coefficients indicate higher confirmed cases in that county compared to the reference county, while negative coefficients indicate the opposite.

```
# Preprocess the data
date_columns <- grep("^\\d{2}/\\d{2}/\\d{2}$", names(df), value = TRUE)
df[date_columns] <- lapply(df[date_columns], as.Date, format = "%m/%d/%Y")

# Convert the data to long format
long_data <- df %>%
  pivot_longer(cols = starts_with("1/22/20"), names_to = "Dates", values_to = "All_cases") %>%
  mutate(Date = as.Date(Dates, format = "%m/%d/%Y"))
```

```

# Fit the model
model_coords <- lm(All_cases ~ Date + df$Lat + df$Long_, data = long_data)

summary(model_coords)

##
## Call:
## lm(formula = All_cases ~ Date + df$Lat + df$Long_, data = long_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.00203 -0.00048 -0.00032 -0.00017  0.99900
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -1.617e-03  1.342e-03  -1.204   0.229
## Date                NA           NA      NA     NA
## df$Lat          5.862e-06  4.767e-05   0.123   0.902
## df$Long_        -1.919e-05  1.987e-05  -0.965   0.334
##
## Residual standard error: 0.0173 on 3339 degrees of freedom
## Multiple R-squared:  0.0007001, Adjusted R-squared:  0.0001016
## F-statistic:  1.17 on 2 and 3339 DF,  p-value: 0.3106

```

Latitude coefficient: The coefficient for the Latitude variable represents the estimated change in the response variable for a one-unit increase in latitude, holding all other variables constant. Since latitude represents north-south position, a positive coefficient suggests that moving north tends to be associated with higher confirmed cases, while a negative coefficient suggests the opposite.

Longitude coefficient: Similarly, the coefficient for the Longitude variable represents the estimated change in the response variable for a one-unit increase in longitude, holding all other variables constant. Since longitude represents east-west position, a positive coefficient suggests that moving east tends to be associated with higher confirmed cases, while a negative coefficient suggests the opposite.

Plots and data exploration

Plot 1: This ggplot visualizes the total number of COVID-19 cases for each state, providing insights into the distribution of cases across different states.

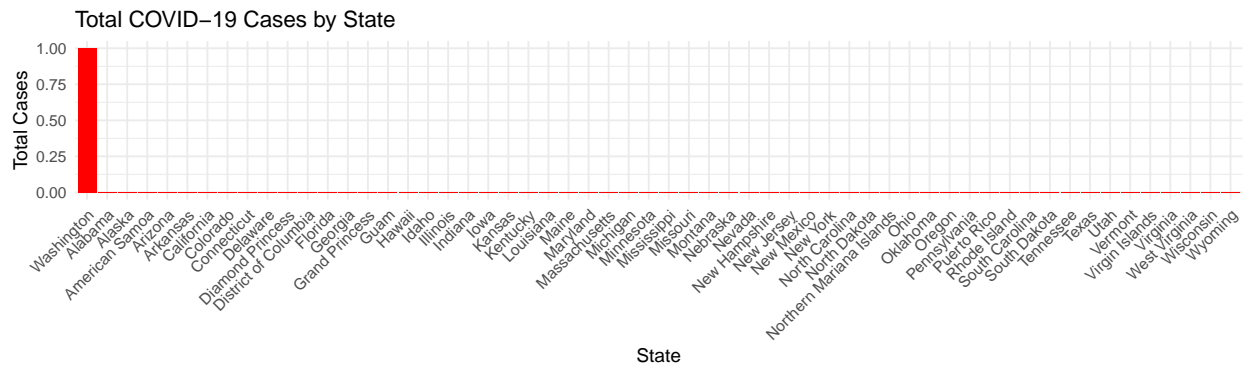
```

# Summarize total confirmed cases by state
total_cases_by_state <- df %>%
  group_by(Province_State) %>%
  summarise(Total_Cases = sum(`1/23/20`, na.rm = TRUE)) %>%
  arrange(desc(Total_Cases))

# Plot the bar plot of total confirmed cases for each state
ggplot(total_cases_by_state, aes(x = reorder(Province_State, desc(Total_Cases)),
                                y = Total_Cases)) +
  geom_bar(stat = "identity", fill = "red") +
  labs(title = "Total COVID-19 Cases by State",
       x = "State",
       y = "Total Cases") +

```

```
theme_minimal() +
# Rotate state names for better readability
theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



The bar for Washington is noticeably high while the bars for other states are negligible, it suggests that Washington had a significantly higher number of COVID-19 cases compared to the other top 10 states on the selected date (in this case, January 23, 2020).

This could be due to various factors such as:

1. Early outbreak: Washington might have experienced an earlier and more significant outbreak compared to other states, resulting in a higher number of cases by January 23, 2020.
2. Population density: Washington might have a higher population density or other demographic factors that contributed to the rapid spread of the virus in the early stages of the pandemic.
3. Testing availability: Differences in testing availability and testing strategies between states could have influenced the number of reported cases.
4. Reporting discrepancies: Variations in reporting standards and practices between states might have affected the accuracy and consistency of case reporting.
5. Public health measures: Differences in public health interventions, policies, and compliance with preventive measures could have impacted the spread of the virus in each state.

Plot 2: This plot visualizes the trend of COVID-19 cases in Washington from January 23, 2020, to January 23, 2022.

While similar trend is followed for other states, this graph shows the exponential surge of active cases in Washington (with the highest number of cases as seen in the previous plot) over a span of 2 years. It is observed that there was a significant surge in the active cases in the span of these years with a consistently upward graph.

Additional questions

Using the COVID-19 dataset, there are numerous questions that can be explored using plots and modeling techniques.

Trend Analysis:

1. What is the overall trend of COVID-19 cases over time globally, nationally, or within specific regions/states?

2. How do the trends vary across different countries, states, or regions?

Spatial Analysis:

1. Where are the COVID-19 hotspots geographically located?
2. How does the distribution of COVID-19 cases vary spatially across different regions, states, or countries?

Demographic Analysis:

1. Are there any demographic factors (age, gender, ethnicity) associated with higher rates of COVID-19 transmission or mortality?
2. How does the impact of COVID-19 vary across different demographic groups?

Public Health Interventions:

1. How effective are public health interventions (e.g., lockdowns, mask mandates, vaccination campaigns) in reducing the spread of COVID-19?
2. What strategies can be implemented to mitigate the impact of COVID-19 and prevent future outbreaks?

Comparative Analysis:

1. What can we learn from comparing the responses to COVID-19 across different countries or regions?

To provide significant insights and conclusions, additional datasets can be integrated with the COVID-19 dataset. Some potential datasets include:

Google COVID-19 Community Mobility Reports:

Dataset: Google COVID-19 Community Mobility Reports

Questions:

1. How does human mobility (e.g., visits to workplaces, retail, parks) correlate with COVID-19 transmission rates?
2. What is the impact of mobility restrictions and lockdown measures on reducing COVID-19 spread?

Centers for Disease Control and Prevention (CDC) COVID-19 Vaccination Data:

Dataset: Centers for Disease Control and Prevention (CDC) COVID-19 Vaccination Data

Questions:

1. What is the impact of COVID-19 vaccination campaigns on reducing infection rates, hospitalizations, and mortality?
2. Are there disparities in COVID-19 vaccination coverage based on demographic factors, socioeconomic status, or geographic location?

United Nations World Population Prospects:

Dataset: United Nations World Population Prospects

Questions:

1. How does the age distribution of the population affect COVID-19 transmission and mortality rates?
2. Are there disparities in COVID-19 outcomes based on population density or urban-rural divide?

References

Dong, E., Du, H., & Gardner, L. (2020). An interactive web-based dashboard to track COVID-19 in real time. *The Lancet infectious diseases*, 20(5), 533-534.