Assignment 5

Due at 11:59pm on November 28.

You may work in pairs or individually for this assignment. Make sure you join a group in Canvas if you are working in pairs. Turn in this assignment as an HTML or PDF file to ELMS. Make sure to include the R Markdown or Quarto file that was used to generate it. Include the GitHub link for the repository containing these files.

```
library(censusapi)
Attaching package: 'censusapi'
The following object is masked from 'package:methods':
    getFunction
  library(tidyverse)
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
           1.1.4
v dplyr
                     v readr
                                 2.1.4
v forcats
           1.0.0
                                 1.5.1
                     v stringr
v ggplot2
           3.4.4
                     v tibble
                                 3.2.1
v lubridate 1.9.3
                     v tidyr
                                 1.3.0
v purrr
           1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
                 masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
```

```
library(magrittr)
Attaching package: 'magrittr'
The following object is masked from 'package:purrr':
     set_names
The following object is masked from 'package:tidyr':
     extract
   library(factoextra)
Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
   library(ggmap)
i Google's Terms of Service: <a href="https://mapsplatform.google.com">https://mapsplatform.google.com</a>
  Stadia Maps' Terms of Service: <a href="https://stadiamaps.com/terms-of-service/">https://stadiamaps.com/terms-of-service/</a>
  OpenStreetMap's Tile Usage Policy: <a href="https://operations.osmfoundation.org/policies/tiles/">https://operations.osmfoundation.org/policies/tiles/</a>
i Please cite ggmap if you use it! Use `citation("ggmap")` for details.
Attaching package: 'ggmap'
The following object is masked from 'package:magrittr':
     inset
```

Exploring ACS Data

In this notebook, we use the Census API to gather data from the American Community Survey (ACS). This requires an access key, which can be obtained here:

https://api.census.gov/data/key_signup.html

	state	county			NAME	pop	${\tt hh_income}$	income
1	17	067	Hancock	County,	Illinois	18633	50077	25647
2	17	063	Grundy	County,	Illinois	50338	67162	30232
3	17	091	Kankakee	County,	Illinois	111493	54697	25111
4	17	043	DuPage	County,	Illinois	930514	81521	40547
5	17	003	Alexander	County,	Illinois	7051	29071	16067
6	17	129	Menard	County,	Illinois	12576	60420	31323

Pull map data for Illinois into a data frame.

```
il_map <- map_data("county", region = "illinois")
head(il_map)</pre>
```

```
lat group order
                                    region subregion
       long
1 -91.49563 40.21018
                                1 illinois
                                                adams
2 -90.91121 40.19299
                         1
                                2 illinois
                                                adams
3 -90.91121 40.19299
                                3 illinois
                                                adams
                         1
4 -90.91121 40.10704
                         1
                                4 illinois
                                                adams
5 -90.91121 39.83775
                                5 illinois
                                                adams
6 -90.91694 39.75754
                                6 illinois
                                                adams
```

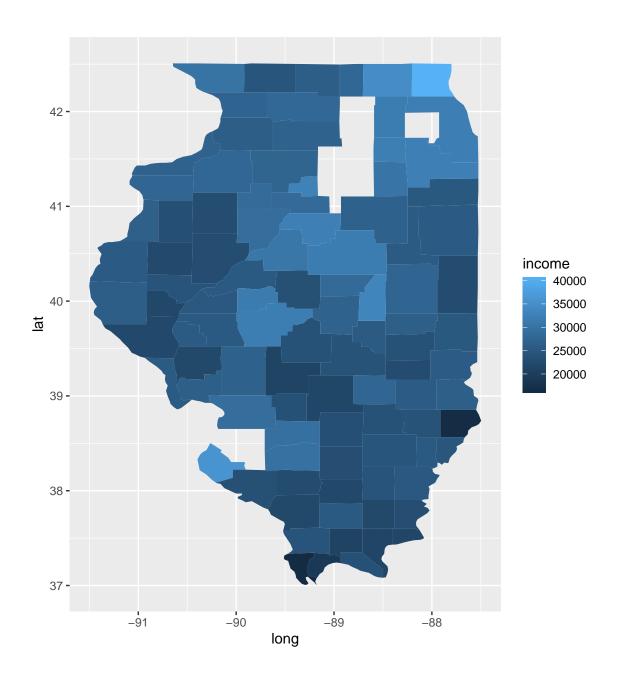
Join the ACS data with the map data. Not that il_map has a column subregion which includes county names. We need a corresponding variable in the ACS data to join both data sets. This needs some transformations, among which the function tolower() might be useful. Call the joined data acs_map.

```
acs_il_c$county_name <- tolower(sapply(strsplit(acs_il_c$NAME, ","), `[`, 1))
acs_il_c$county_name <- gsub(" county", "", acs_il_c$county_name)</pre>
```

```
acs_map <- left_join(acs_il_c, il_map, by = c("county_name" = "subregion"))</pre>
  head(acs_map)
  state county
                                   NAME
                                          pop hh_income income county_name
           067 Hancock County, Illinois 18633
                                                   50077
                                                         25647
1
     17
                                                                    hancock
           067 Hancock County, Illinois 18633
2
     17
                                                  50077 25647
                                                                    hancock
3
     17
          067 Hancock County, Illinois 18633
                                                  50077 25647
                                                                   hancock
4
     17
           067 Hancock County, Illinois 18633
                                                  50077 25647
                                                                    hancock
           067 Hancock County, Illinois 18633
5
     17
                                                   50077 25647
                                                                   hancock
6
           067 Hancock County, Illinois 18633
                                                   50077 25647
                                                                    hancock
       long
                 lat group order
                                   region
1 -91.18623 40.63417
                        34
                             573 illinois
2 -90.89976 40.63417
                        34
                            574 illinois
3 -90.91121 40.27893
                        34
                            575 illinois
4 -90.91121 40.19299
                        34
                            576 illinois
5 -91.49563 40.21018
                        34
                             577 illinois
6 -91.48990 40.25029
                             578 illinois
                        34
```

After you do this, plot a map of Illinois with Counties colored by per capita income.

```
ggplot(acs_map) +
geom_polygon(aes(x = long, y = lat, group = group, fill = income))
```



Hierarchical Clustering

We want to find clusters of counties that are similar in their population, average household income and per capita income. First, clean the data so that you have the appropriate variables to use for clustering. Next, create the distance matrix of the cleaned data. This distance matrix can be used to cluster counties, e.g. using the ward method.

```
acs_map$pop <- as.numeric(acs_map$pop)
acs_map$hh_income <- as.numeric(acs_map$hh_income)
acs_map$income <- as.numeric(acs_map$income)

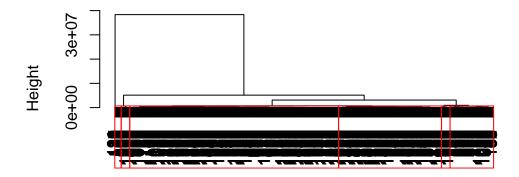
acs_map <- na.omit(acs_map)

# hclust_data <-
# acs_map %>%
# select(pop, hh_income, income) %>%
# mutate_all(scale)
hclust_data <- acs_map[, c("pop", "hh_income", "income")]

hclust_d <- dist(hclust_data)
hc_ward <- hclust(hclust_d, method = "ward.D2")</pre>
```

Plot the dendrogram to find a reasonable number of clusters. Draw boxes around the clusters of your cluster solution.

Ward



```
clusters <- cutree(hc_ward, 6)</pre>
```

Visualize the county clusters on a map. For this task, create a new acs_map object that now also includes cluster membership as a new column. This column should be called cluster.

```
acs_map %>%
mutate(cluster = cutree(hc_ward, 6))
```

	state	county			NAME	pop	hh_income	income
1	17	067	Hancock	County,	Illinois	18633	50077	25647
2	17	067	Hancock	County,	Illinois	18633	50077	25647
3	17	067	Hancock	County,	Illinois	18633	50077	25647
4	17	067	Hancock	County,	Illinois	18633	50077	25647
5	17	067	Hancock	County,	Illinois	18633	50077	25647
6	17	067	Hancock	County,	Illinois	18633	50077	25647
7	17	067	Hancock	County,	Illinois	18633	50077	25647
8	17	067	Hancock	County,	Illinois	18633	50077	25647
9	17	067	Hancock	County,	Illinois	18633	50077	25647
10	17	067	Hancock	County,	Illinois	18633	50077	25647
11	17	067	Hancock	County,	Illinois	18633	50077	25647
12	17	067	Hancock	County,	Illinois	18633	50077	25647
13	17	067	Hancock	County,	Illinois	18633	50077	25647

14	17	067		·	Illinois	18633	50077	25647
15	17	067		County,	Illinois	18633	50077	25647
16	17	067		County,	Illinois	18633	50077	25647
17	17	067		County,	Illinois	18633	50077	25647
18	17	067		County,	Illinois	18633	50077	25647
19	17	067		County,	Illinois	18633	50077	25647
20	17	067		County,	Illinois	18633	50077	25647
21	17	067		County,	Illinois	18633	50077	25647
22	17	063	•	County,	Illinois	50338	67162	30232
23	17	063	Grundy	County,	Illinois	50338	67162	30232
24	17	063	Grundy	County,	Illinois	50338	67162	30232
25	17	063	Grundy	County,	Illinois	50338	67162	30232
26	17	063	Grundy	County,	Illinois	50338	67162	30232
27	17	063	Grundy	County,	Illinois	50338	67162	30232
28	17	091	Kankakee	County,	Illinois	111493	54697	25111
29	17	091	Kankakee	County,	Illinois	111493	54697	25111
30	17	091	Kankakee	County,	Illinois	111493	54697	25111
31	17	091	Kankakee	County,	Illinois	111493	54697	25111
32	17	091	Kankakee	County,	Illinois	111493	54697	25111
33	17	091	Kankakee	County,	Illinois	111493	54697	25111
34	17	091	Kankakee	County,	Illinois	111493	54697	25111
35	17	091	Kankakee	County,	Illinois	111493	54697	25111
36	17	091	Kankakee	County,	Illinois	111493	54697	25111
37	17	091	Kankakee	County,	Illinois	111493	54697	25111
39	17	003	Alexander	County,	Illinois	7051	29071	16067
40	17	003	Alexander	County,	Illinois	7051	29071	16067
41	17	003	Alexander	County,	Illinois	7051	29071	16067
42	17	003	Alexander	County,	Illinois	7051	29071	16067
43	17	003	Alexander	County,	Illinois	7051	29071	16067
44	17	003	Alexander	County,	Illinois	7051	29071	16067
45	17	003	Alexander	County,	Illinois	7051	29071	16067
46	17	003	Alexander	County,	Illinois	7051	29071	16067
47	17	003	Alexander	County,	Illinois	7051	29071	16067
48	17	003	Alexander	County,	Illinois	7051	29071	16067
49	17	003	Alexander	•	Illinois	7051	29071	16067
50	17	003	Alexander	County,	Illinois	7051	29071	16067
51	17	003	Alexander	County,	Illinois	7051	29071	16067
52	17	003	Alexander	County,	Illinois	7051	29071	16067
53	17	003	Alexander	•	Illinois	7051	29071	16067
54	17	003	Alexander	•	Illinois	7051	29071	16067
55	17	003	Alexander	-	Illinois	7051	29071	16067
56	17	003	Alexander	•	Illinois	7051	29071	16067
57	17	003	Alexander	•	Illinois	7051	29071	16067
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58	17	003	Alexander	•		7051	29071	16067
59	17	003	Alexander	•	Illinois	7051	29071	16067
60	17	003	Alexander	•	Illinois	7051	29071	16067
61	17	003	Alexander	•	Illinois	7051	29071	16067
62	17	003	Alexander	•	Illinois	7051	29071	16067
63	17	003	Alexander	•	Illinois	7051	29071	16067
64	17	003	Alexander	•	Illinois	7051	29071	16067
65	17	003	Alexander	County,	Illinois	7051	29071	16067
66	17	003	Alexander	County,	Illinois	7051	29071	16067
67	17	003	Alexander	County,	Illinois	7051	29071	16067
68	17	003	Alexander	County,	Illinois	7051	29071	16067
69	17	003	Alexander	County,	Illinois	7051	29071	16067
70	17	003	Alexander	County,	Illinois	7051	29071	16067
71	17	003	Alexander	County,	Illinois	7051	29071	16067
72	17	003	Alexander	County,	Illinois	7051	29071	16067
73	17	003	Alexander	County,	Illinois	7051	29071	16067
74	17	003	Alexander	County,	Illinois	7051	29071	16067
75	17	003	Alexander	County,	Illinois	7051	29071	16067
76	17	003	Alexander	County,	Illinois	7051	29071	16067
77	17	003	Alexander	County,	Illinois	7051	29071	16067
78	17	003	Alexander	County,	Illinois	7051	29071	16067
79	17	129	Menard	County,	Illinois	12576	60420	31323
80	17	129	Menard	County,	Illinois	12576	60420	31323
81	17	129	Menard	County,	Illinois	12576	60420	31323
82	17	129	Menard	County,	Illinois	12576	60420	31323
83	17	129	Menard	County,	Illinois	12576	60420	31323
84	17	129	Menard	County,	Illinois	12576	60420	31323
85	17	129	Menard	County,	Illinois	12576	60420	31323
86	17	129	Menard	County,	Illinois	12576	60420	31323
87	17	129		County,	Illinois	12576	60420	31323
88	17	129		County,	Illinois	12576	60420	31323
89	17	129		County,	Illinois	12576	60420	31323
90	17	129	Menard	County,	Illinois	12576	60420	31323
91	17	129		County,	Illinois	12576	60420	31323
92	17	129		County,	Illinois	12576	60420	31323
93	17	129		County,	Illinois	12576	60420	31323
94	17	129		County,	Illinois	12576	60420	31323
95	17	129		County,	Illinois	12576	60420	31323
96	17	129		County,	Illinois	12576	60420	31323
97	17	129		County,	Illinois	12576	60420	31323
98	17	129		County,	Illinois	12576	60420	31323
99	17	129		County,	Illinois	12576	60420	31323
100	17	129		County,	Illinois	12576	60420	31323
100	- 1	120	c.ia. a	Journey,		12010	00120	31320

101	17	129		·	Illinois	12576	60420	31323
102	17	129		County,	Illinois	12576	60420	31323
104	17	031	Cook	County,	Illinois	5227575	56902	32179
105	17	031	Cook	County,	Illinois	5227575	56902	32179
106	17	031	Cook	County,	Illinois	5227575	56902	32179
107	17	031	Cook	County,	Illinois	5227575	56902	32179
108	17	031	Cook	County,	Illinois	5227575	56902	32179
109	17	031	Cook	County,	Illinois	5227575	56902	32179
110	17	031	Cook	County,	Illinois	5227575	56902	32179
111	17	031	Cook	County,	Illinois	5227575	56902	32179
112	17	031	Cook	County,	Illinois	5227575	56902	32179
113	17	031	Cook	County,	Illinois	5227575	56902	32179
114	17	031	Cook	County,	Illinois	5227575	56902	32179
115	17	031	Cook	County,	Illinois	5227575	56902	32179
116	17	031	Cook	County,	Illinois	5227575	56902	32179
117	17	031	Cook	County,	Illinois	5227575	56902	32179
118	17	031	Cook	County,	Illinois	5227575	56902	32179
119	17	031	Cook	County,	Illinois	5227575	56902	32179
120	17	031	Cook	County,	Illinois	5227575	56902	32179
121	17	031	Cook	County,	Illinois	5227575	56902	32179
122	17	031	Cook	County,	Illinois	5227575	56902	32179
123	17	031	Cook	County,	Illinois	5227575	56902	32179
124	17	031	Cook	County,	Illinois	5227575	56902	32179
125	17	031	Cook	County,	Illinois	5227575	56902	32179
126	17	031	Cook	County,	Illinois	5227575	56902	32179
127	17	031	Cook	County,	Illinois	5227575	56902	32179
128	17	031	Cook	County,	Illinois	5227575	56902	32179
129	17	031	Cook	County,	Illinois	5227575	56902	32179
130	17	031	Cook	County,	Illinois	5227575	56902	32179
131	17	031	Cook	County,	Illinois	5227575	56902	32179
132	17	115	Macon	County,	Illinois	108404	47477	27010
133	17	115	Macon	County,	Illinois	108404	47477	27010
134	17	115	Macon	County,	Illinois	108404	47477	27010
135	17	115	Macon	County,	Illinois	108404	47477	27010
136	17	115	Macon	County,	Illinois	108404	47477	27010
137	17	115	Macon	County,	Illinois	108404	47477	27010
138	17	115	Macon	County,	Illinois	108404	47477	27010
139	17	115	Macon	County,	Illinois	108404	47477	27010
140	17	115	Macon	County,	Illinois	108404	47477	27010
141	17	115		County,	Illinois	108404	47477	27010
142	17	115		County,	Illinois	108404	47477	27010
143	17	115		County,	Illinois	108404	47477	27010
144	17	115		County,	Illinois	108404	47477	27010
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145	17	115	Macon	County,	Illinois	108404	47477	27010
146	17	115	Macon	County,	Illinois	108404	47477	27010
147	17	115	Macon	County,	Illinois	108404	47477	27010
148	17	137	Morgan	County,	Illinois	34801	47760	25201
149	17	137	Morgan	County,	Illinois	34801	47760	25201
150	17	137	Morgan	County,	Illinois	34801	47760	25201
151	17	137	Morgan	County,	Illinois	34801	47760	25201
152	17	137	Morgan	County,	Illinois	34801	47760	25201
153	17	137	Morgan	County,	Illinois	34801	47760	25201
154	17	137	Morgan	County,	Illinois	34801	47760	25201
155	17	137	Morgan	County,	Illinois	34801	47760	25201
156	17	137	Morgan	County,	Illinois	34801	47760	25201
157	17	137	Morgan	County,	Illinois	34801	47760	25201
158	17	137	Morgan	County,	Illinois	34801	47760	25201
159	17	137	Morgan	County,	Illinois	34801	47760	25201
160	17	137	Morgan	County,	Illinois	34801	47760	25201
161	17	137	Morgan	County,	Illinois	34801	47760	25201
162	17	137	Morgan	County,	Illinois	34801	47760	25201
163	17	137	Morgan	County,	Illinois	34801	47760	25201
164	17	137	_	County,	Illinois	34801	47760	25201
165	17	137	_	County,	Illinois	34801	47760	25201
166	17	137	_	County,	Illinois	34801	47760	25201
167	17	191	_	County,	Illinois	16517	46903	24342
168	17	191	•	County,	Illinois	16517	46903	24342
169	17	191	•	County,	Illinois	16517	46903	24342
170	17	191	•	County,	Illinois	16517	46903	24342
171	17	191	•	County,	Illinois	16517	46903	24342
172	17	191	•	County,	Illinois	16517	46903	24342
173	17	191	•	County,	Illinois	16517	46903	24342
174	17	191	•	County,	Illinois	16517	46903	24342
175	17	191	Wayne	County,	Illinois	16517	46903	24342
176	17	203	Woodford	•	Illinois	39123	68040	32360
177	17	203	Woodford	County,	Illinois	39123	68040	32360
178	17	203	Woodford	•	Illinois	39123	68040	32360
179	17	203	Woodford	•	Illinois	39123	68040	32360
180	17	203	Woodford	•	Illinois	39123	68040	32360
181	17	203	Woodford	•	Illinois	39123	68040	32360
182	17	203	Woodford	•	Illinois	39123	68040	32360
183	17	203	Woodford	•	Illinois	39123	68040	32360
184	17	203	Woodford	•	Illinois	39123	68040	32360
185	17	203	Woodford	•	Illinois	39123	68040	32360
186	17	203	Woodford	•	Illinois	39123	68040	32360
187	17	203	Woodford	•	Illinois	39123	68040	32360
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188	17	203	Woodford	County,	Illinois	39123	68040	32360
189	17	203	Woodford	County,	Illinois	39123	68040	32360
190	17	203	Woodford	County,	Illinois	39123	68040	32360
191	17	203	Woodford	County,	Illinois	39123	68040	32360
192	17	203	Woodford	County,	Illinois	39123	68040	32360
193	17	203	Woodford	County,	Illinois	39123	68040	32360
194	17	203	Woodford	County,	Illinois	39123	68040	32360
195	17	203	Woodford	County,	Illinois	39123	68040	32360
196	17	203	Woodford	County,	Illinois	39123	68040	32360
197	17	203	Woodford	County,	Illinois	39123	68040	32360
198	17	055	Franklin	County,	Illinois	39503	39507	22119
199	17	055	Franklin	County,	Illinois	39503	39507	22119
200	17	055	Franklin	County,	Illinois	39503	39507	22119
201	17	055	Franklin	County,	Illinois	39503	39507	22119
202	17	055	Franklin	County,	Illinois	39503	39507	22119
203	17	055	Franklin	County,	Illinois	39503	39507	22119
204	17	055	Franklin	County,	Illinois	39503	39507	22119
205	17	055	Franklin	County,	Illinois	39503	39507	22119
206	17	055	Franklin	County,	Illinois	39503	39507	22119
207	17	055	Franklin	County,	Illinois	39503	39507	22119
208	17	055	Franklin	County,	Illinois	39503	39507	22119
209	17	055	Franklin	County,	Illinois	39503	39507	22119
210	17	055	Franklin	County,	Illinois	39503	39507	22119
211	17	055	Franklin	County,	Illinois	39503	39507	22119
212	17	055	Franklin	County,	Illinois	39503	39507	22119
213	17	055	Franklin	County,	Illinois	39503	39507	22119
214	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
215	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
216	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
217	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
218	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
219	17	109	${\tt McDonough}$	County,	Illinois	31727	41484	22387
220	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
221	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
222	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
223	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
224	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
225	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
226	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
227	17	111	${ t McHenry}$	County,	Illinois	307083	79836	34589
228	17	139	Moultrie	County,	Illinois	14915	51432	25351
229	17	139	Moultrie	County,	Illinois	14915	51432	25351
230	17	139	Moultrie	County,	Illinois	14915	51432	25351

231	17	139	Moultrie	County,	Illinois	14915	51432	25351
232	17	139	Moultrie	County,	Illinois	14915	51432	25351
233	17	139	Moultrie	County,	Illinois	14915	51432	25351
234	17	139	Moultrie	County,	Illinois	14915	51432	25351
235	17	139	Moultrie	County,	Illinois	14915	51432	25351
236	17	139	Moultrie	County,	Illinois	14915	51432	25351
237	17	139	Moultrie	County,	Illinois	14915	51432	25351
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239	17	139	Moultrie	County,	Illinois	14915	51432	25351
240	17	139	Moultrie	County,	Illinois	14915	51432	25351
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244	17	139	Moultrie	County,	Illinois	14915	51432	25351
245	17	139	Moultrie	County,	Illinois	14915	51432	25351
246	17	139	Moultrie	County,	Illinois	14915	51432	25351
247	17	139	Moultrie	County,	Illinois	14915	51432	25351
248	17	145	Perry	County,	Illinois	21595	43308	22650
249	17	145	Perry	County,	Illinois	21595	43308	22650
250	17	145	Perry	County,	Illinois	21595	43308	22650
251	17	145	Perry	County,	Illinois	21595	43308	22650
252	17	145	Perry	County,	Illinois	21595	43308	22650
253	17	145	Perry	County,	Illinois	21595	43308	22650
254	17	145	Perry	County,	Illinois	21595	43308	22650
255	17	145	Perry	County,	Illinois	21595	43308	22650
256	17	145	Perry	County,	Illinois	21595	43308	22650
257	17	145	Perry	County,	Illinois	21595	43308	22650
258	17	145	Perry	County,	Illinois	21595	43308	22650
259	17	145	Perry	County,	Illinois	21595	43308	22650
260	17	145	Perry	County,	Illinois	21595	43308	22650
261	17	145	Perry	County,	Illinois	21595	43308	22650
262	17	145	Perry	County,	Illinois	21595	43308	22650
263	17	145	Perry	County,	Illinois	21595	43308	22650
264	17	145	Perry	County,	Illinois	21595	43308	22650
265	17	151	Pope	County,	Illinois	4255	39243	21427
266	17	151	Pope	County,	Illinois	4255	39243	21427
267	17	151	Pope	County,	Illinois	4255	39243	21427
268	17	151	Pope	County,	Illinois	4255	39243	21427
269	17	151	Pope	County,	Illinois	4255	39243	21427
270	17	151	Pope	County,	Illinois	4255	39243	21427
271	17	151	Pope	County,	Illinois	4255	39243	21427
272	17	151	Pope	County,	Illinois	4255	39243	21427
273	17	151	Pope	County,	Illinois	4255	39243	21427

274	17	151	Pope	County,	Illinois	4255	39243	21427
275	17	151	Pope	County,	Illinois	4255	39243	21427
276	17	151	Pope	County,	Illinois	4255	39243	21427
277	17	151	Pope	County,	Illinois	4255	39243	21427
278	17	151	Pope	County,	Illinois	4255	39243	21427
279	17	151	Pope	County,	Illinois	4255	39243	21427
280	17	151	Pope	County,	Illinois	4255	39243	21427
281	17	151	Pope	County,	Illinois	4255	39243	21427
282	17	151	Pope	County,	Illinois	4255	39243	21427
284	17	173	Shelby	County,	Illinois	22011	48572	23974
285	17	173	Shelby	County,	Illinois	22011	48572	23974
286	17	173	Shelby	County,	Illinois	22011	48572	23974
287	17	173	Shelby	County,	Illinois	22011	48572	23974
288	17	173	Shelby	County,	Illinois	22011	48572	23974
289	17	173	Shelby	County,	Illinois	22011	48572	23974
290	17	173	Shelby	County,	Illinois	22011	48572	23974
291	17	173	Shelby	County,	Illinois	22011	48572	23974
292	17	173	Shelby	County,	Illinois	22011	48572	23974
293	17	173	Shelby	County,	Illinois	22011	48572	23974
294	17	173	Shelby	County,	Illinois	22011	48572	23974
295	17	173	Shelby	County,	Illinois	22011	48572	23974
296	17	173	Shelby	County,	Illinois	22011	48572	23974
297	17	173	Shelby	County,	Illinois	22011	48572	23974
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304	17	173	Shelby	County,	Illinois	22011	48572	23974
305	17	019	Champaign	County,	Illinois	206420	48899	27373
306	17	019	Champaign	County,	Illinois	206420	48899	27373
307	17	019	Champaign	County,	Illinois	206420	48899	27373
308	17	019	Champaign	County,	Illinois	206420	48899	27373
309	17	019	Champaign	County,	Illinois	206420	48899	27373
310	17	019	Champaign	County,	Illinois	206420	48899	27373
311	17	019	Champaign	County,	Illinois	206420	48899	27373
312	17	019	Champaign	County,	Illinois	206420	48899	27373
313	17	019	Champaign	County,	Illinois	206420	48899	27373
314	17	019	Champaign	County,	Illinois	206420	48899	27373
315	17	019	Champaign	County,	Illinois	206420	48899	27373
316	17	019	Champaign	County,	Illinois	206420	48899	27373
317	17	013	Calhoun	County,	Illinois	4962	52949	25341

318	17	013	Calhoun	County,	Illinois	4962	52949	25341
319	17	013	Calhoun	County,	Illinois	4962	52949	25341
320	17	013	Calhoun	County,	Illinois	4962	52949	25341
321	17	013	Calhoun	County,	Illinois	4962	52949	25341
322	17	013	Calhoun	County,	Illinois	4962	52949	25341
323	17	013	Calhoun	County,	Illinois	4962	52949	25341
324	17	013	Calhoun	County,	Illinois	4962	52949	25341
325	17	013	Calhoun	County,	Illinois	4962	52949	25341
326	17	013	Calhoun	County,	Illinois	4962	52949	25341
327	17	013	Calhoun	County,	Illinois	4962	52949	25341
328	17	013	Calhoun	County,	Illinois	4962	52949	25341
329	17	013	Calhoun	County,	Illinois	4962	52949	25341
330	17	013	Calhoun	County,	Illinois	4962	52949	25341
331	17	013	Calhoun	County,	Illinois	4962	52949	25341
332	17	013	Calhoun	County,	Illinois	4962	52949	25341
333	17	013	Calhoun	County,	Illinois	4962	52949	25341
334	17	013	Calhoun	County,	Illinois	4962	52949	25341
335	17	013	Calhoun	County,	Illinois	4962	52949	25341
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345	17	013	Calhoun	County,	Illinois	4962	52949	25341
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348	17	013	Calhoun	County,	Illinois	4962	52949	25341
349	17	013	Calhoun	County,	Illinois	4962	52949	25341
350	17	013	Calhoun	County,	Illinois	4962	52949	25341
351	17	053	Ford	County,	Illinois	13758	49257	25524
352	17	053	Ford	County,	Illinois	13758	49257	25524
353	17	053	Ford	County,	Illinois	13758	49257	25524
354	17	053	Ford	County,	Illinois	13758	49257	25524
355	17	053	Ford	County,	Illinois	13758	49257	25524
356	17	053	Ford	County,	Illinois	13758	49257	25524
357	17	053	Ford	County,	Illinois	13758	49257	25524
358	17	053	Ford	County,	Illinois	13758	49257	25524
359	17	053	Ford	County,	Illinois	13758	49257	25524
360	17	053	Ford	County,	Illinois	13758	49257	25524
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361	17	053	Ford	County,	Illinois	13758	49257	25524
362	17	053	Ford	County,	Illinois	13758	49257	25524
363	17	053	Ford	County,	Illinois	13758	49257	25524
364	17	053	Ford	County,	Illinois	13758	49257	25524
365	17	053	Ford	County,	Illinois	13758	49257	25524
366	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
367	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
368	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
369	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
370	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
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372	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
373	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
374	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
375	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
376	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
377	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
378	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
379	17	085	Jo Daviess	County,	Illinois	22186	54702	29892
380	17	093	Kendall	County,	Illinois	121452	85736	31920
381	17	093	Kendall	County,	Illinois	121452	85736	31920
382	17	093	Kendall	County,	Illinois	121452	85736	31920
383	17	093	Kendall	County,	Illinois	121452	85736	31920
384	17	093	Kendall	County,	Illinois	121452	85736	31920
385	17	093	Kendall	County,	Illinois	121452	85736	31920
386	17	101	Lawrence	County,	Illinois	16582	42650	16417
387	17	101	Lawrence	County,	Illinois	16582	42650	16417
388	17	101	Lawrence	County,	Illinois	16582	42650	16417
389	17	101	Lawrence	County,	Illinois	16582	42650	16417
390	17	101	Lawrence	County,	Illinois	16582	42650	16417
391	17	101	Lawrence	County,	Illinois	16582	42650	16417
392	17	101	Lawrence	County,	Illinois	16582	42650	16417
393	17	101	Lawrence	County,	Illinois	16582	42650	16417
394	17	101	Lawrence	County,	Illinois	16582	42650	16417
395	17	101	Lawrence	County,	Illinois	16582	42650	16417
396	17	101	Lawrence	County,	Illinois	16582	42650	16417
397	17	101	Lawrence	County,	Illinois	16582	42650	16417
398	17	121	Marion	County,	Illinois	38503	43427	23366
399	17	121	Marion	County,	Illinois	38503	43427	23366
400	17	121	Marion	County,	Illinois	38503	43427	23366
401	17	121	Marion	County,	Illinois	38503	43427	23366
402	17	121	Marion	County,	Illinois	38503	43427	23366
403	17	121	Marion	County,	Illinois	38503	43427	23366
				-				

404	17	121	Marion	County,	Illinois	38503	43427	23366
405	17	121	Marion	County,	Illinois	38503	43427	23366
406	17	125	Mason	County,	Illinois	13931	43125	25166
407	17	125	Mason	County,	Illinois	13931	43125	25166
408	17	125	Mason	County,	Illinois	13931	43125	25166
409	17	125	Mason	County,	Illinois	13931	43125	25166
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411	17	125	Mason	County,	Illinois	13931	43125	25166
412	17	125	Mason	County,	Illinois	13931	43125	25166
413	17	125	Mason	County,	Illinois	13931	43125	25166
414	17	125	Mason	County,	Illinois	13931	43125	25166
415	17	125	Mason	County,	Illinois	13931	43125	25166
416	17	125	Mason	County,	Illinois	13931	43125	25166
417	17	125	Mason	County,	Illinois	13931	43125	25166
418	17	125	Mason	County,	Illinois	13931	43125	25166
419	17	125	Mason	County,	Illinois	13931	43125	25166
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421	17	125	Mason	County,	Illinois	13931	43125	25166
422	17	125	Mason	County,	Illinois	13931	43125	25166
423	17	125		County,	Illinois	13931	43125	25166
424	17	125		County,	Illinois	13931	43125	25166
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426	17	125		County,	Illinois	13931	43125	25166
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434	17	125		County,	Illinois	13931	43125	25166
435	17	125		County,	Illinois	13931	43125	25166
436	17	125		County,	Illinois	13931	43125	25166
437	17	125		•	Illinois	13931	43125	25166
438	17	125		County,	Illinois	13931	43125	25166
439	17	125		County,	Illinois	13931	43125	25166
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445	17	125		County,	Illinois	13931	43125	25166
446	17	125		County,	Illinois	13931	43125	25166
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447	17	125	Mason	County,	Illinois	13931	43125	25166
448	17	125	Mason	County,	Illinois	13931	43125	25166
449	17	125	Mason	County,	Illinois	13931	43125	25166
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451	17	125	Mason	County,	Illinois	13931	43125	25166
452	17	075	Iroquois	County,	Illinois	28814	47823	25562
453	17	075	Iroquois	County,	Illinois	28814	47823	25562
454	17	075	Iroquois	County,	Illinois	28814	47823	25562
455	17	075	Iroquois	County,	Illinois	28814	47823	25562
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461	17	075	Iroquois	County,	Illinois	28814	47823	25562
462	17	075	Iroquois	County,	Illinois	28814	47823	25562
463	17	025	Clay	County,	Illinois	13466	45984	23843
464	17	025	Clay	County,	Illinois	13466	45984	23843
465	17	025	Clay	County,	Illinois	13466	45984	23843
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467	17	025	Clay	County,	Illinois	13466	45984	23843
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472	17	025	Clay	County,	Illinois	13466	45984	23843
473	17	025	Clay	County,	Illinois	13466	45984	23843
474	17	025	Clay	County,	Illinois	13466	45984	23843
475	17	025	Clay	County,	Illinois	13466	45984	23843
476	17	025	Clay	County,	Illinois	13466	45984	23843
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480	17	025	Clay	County,	Illinois	13466	45984	23843
481	17	025	Clay	County,	Illinois	13466	45984	23843
482	17	059	Gallatin	County,	Illinois	5325	41269	23109
483	17	059	Gallatin	County,	Illinois	5325	41269	23109
484	17	059	Gallatin	County,	Illinois	5325	41269	23109
485	17	059	Gallatin	County,	Illinois	5325	41269	23109
486	17	059	Gallatin	County,	Illinois	5325	41269	23109
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488	17	059	Gallatin	County,	Illinois	5325	41269	23109
489	17	059	Gallatin	County,	Illinois	5325	41269	23109

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491	17	059	Gallatin	County,	Illinois	5325	41269	23109
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498	17	059	Gallatin	County,	Illinois	5325	41269	23109
499	17	133	Monroe	County,	Illinois	33703	72956	35699
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521	17	133	Monroe	County,	Illinois	33703	72956	35699
522	17	143	Peoria	County,	Illinois	186818	51632	29055
523	17	143	Peoria	County,	Illinois	186818	51632	29055
524	17	143	Peoria	County,	Illinois	186818	51632	29055
525	17	143	Peoria	County,	Illinois	186818	51632	29055
526	17	143	Peoria	County,	Illinois	186818	51632	29055
527	17	143	Peoria	County,	Illinois	186818	51632	29055
528	17	143	Peoria	County,	Illinois	186818	51632	29055
529	17	143	Peoria	County,	Illinois	186818	51632	29055
530	17	143	Peoria	County,	Illinois	186818	51632	29055
531	17	143		County,	Illinois	186818	51632	29055
532	17	143	Peoria	County,	Illinois	186818	51632	29055

533	17	143	Peoria	County,	Illinois	186818	51632	29055
534	17	143	Peoria	County,	Illinois	186818	51632	29055
535	17	143	Peoria	County,	Illinois	186818	51632	29055
536	17	143	Peoria	County,	Illinois	186818	51632	29055
537	17	143	Peoria	County,	Illinois	186818	51632	29055
538	17	143	Peoria	County,	Illinois	186818	51632	29055
539	17	143	Peoria	County,	Illinois	186818	51632	29055
540	17	143	Peoria	County,	Illinois	186818	51632	29055
541	17	143	Peoria	County,	Illinois	186818	51632	29055
542	17	143	Peoria	County,	Illinois	186818	51632	29055
543	17	143	Peoria	County,	Illinois	186818	51632	29055
544	17	143	Peoria	County,	Illinois	186818	51632	29055
545	17	143	Peoria	County,	Illinois	186818	51632	29055
546	17	143	Peoria	County,	Illinois	186818	51632	29055
547	17	119	Madison	County,	Illinois	266759	54573	29100
548	17	119	Madison	County,	Illinois	266759	54573	29100
549	17	119	Madison	County,	Illinois	266759	54573	29100
550	17	119	Madison	County,	Illinois	266759	54573	29100
551	17	119	Madison	County,	Illinois	266759	54573	29100
552	17	119	Madison	County,	Illinois	266759	54573	29100
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568	17	131	Mercer	County,	Illinois	15971	55750	27566
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618	17	157	Randolph	•	Illinois	32934	48343	23424
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619	17	157	Randolph	County,	Illinois	32934	48343	23424
620	17	157	Randolph	County,	Illinois	32934	48343	23424
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644	17	141	Ogle	County,	Illinois	52034	55832	28026
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662	17	141	Ogle	County,	Illinois	52034	55832	28026
663	17	177	Stephenson	•	Illinois	46283	45624	24529
664	17	177	Stephenson	•	Illinois	46283	45624	24529
665	17	177	Stephenson	•	Illinois	46283	45624	24529
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668	17	177	Stephenson	·	Illinois	46283	45624	24529
669	17	177	Stephenson	•	Illinois	46283	45624	24529
670	17	193	-	County,	Illinois	14410	43678	25065
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703	17	071	Henderson	County,	Illinois	6966	46216	26504
704	17	113	McLean	County,	Illinois	173254	63420	31752

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726	17	149	Pike	County,	Illinois	16054	40157	22048
727	17	149	Pike	County,	Illinois	16054	40157	22048
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815	17	035	Cumberland	County,	Illinois	10890	44281	22786
816	17	035	Cumberland	County,	Illinois	10890	44281	22786
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818	17	035	Cumberland	County,	Illinois	10890	44281	22786
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821	17	035	Cumberland	County,	Illinois	10890	44281	22786
822	17	089	Kane	County,	Illinois	526615	71602	31774
823	17	089	Kane	County,	Illinois	526615	71602	31774
824	17	089	Kane	County,	Illinois	526615	71602	31774
825	17	089	Kane	County,	Illinois	526615	71602	31774
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830	17	089	Kane	County,	Illinois	526615	71602	31774
831	17	089	Kane	County,	Illinois	526615	71602	31774
832	17	009	Brown	County,	Illinois	6836	52500	21822
833	17	009	Brown	County,	Illinois	6836	52500	21822

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838	17	009	Brown	County,	Illinois	6836	52500	21822
839	17	009	Brown	County,	Illinois	6836	52500	21822
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846	17	009	Brown	County,	Illinois	6836	52500	21822
847	17	009	Brown	County,	Illinois	6836	52500	21822
848	17	123	Marshall	County,	Illinois	12060	54189	28279
849	17	123	Marshall	County,	Illinois	12060	54189	28279
850	17	123	Marshall	County,	Illinois	12060	54189	28279
851	17	123	Marshall	County,	Illinois	12060	54189	28279
852	17	123	Marshall	County,	Illinois	12060	54189	28279
853	17	123	Marshall	County,	Illinois	12060	54189	28279
854	17	123	Marshall	County,	Illinois	12060	54189	28279
855	17	123	Marshall	County,	Illinois	12060	54189	28279
856	17	123	Marshall	County,	Illinois	12060	54189	28279
857	17	123	Marshall	County,	Illinois	12060	54189	28279
858	17	123	Marshall	County,	Illinois	12060	54189	28279
859	17	021	Christian	County,	Illinois	33888	47417	23823
860	17	021	Christian	County,	Illinois	33888	47417	23823
861	17	021	Christian	County,	Illinois	33888	47417	23823
862	17	021	Christian	County,	Illinois	33888	47417	23823
863	17	021	Christian	County,	Illinois	33888	47417	23823
864	17	021	Christian	County,	Illinois	33888	47417	23823
865	17	021	Christian	County,	Illinois	33888	47417	23823
866	17	021	Christian	County,	Illinois	33888	47417	23823
867	17	021	Christian	County,	Illinois	33888	47417	23823
868	17	021	Christian	County,	Illinois	33888	47417	23823
869	17	021	Christian	County,	Illinois	33888	47417	23823
870	17	021	Christian	County,	Illinois	33888	47417	23823
871	17	021	Christian	County,	Illinois	33888	47417	23823
872	17	021	Christian	County,	Illinois	33888	47417	23823
873	17	021	Christian	County,	Illinois	33888	47417	23823
874	17	021	Christian	County,	Illinois	33888	47417	23823
875	17	021	Christian	County,	Illinois	33888	47417	23823
876	17	021	Christian	County,	Illinois	33888	47417	23823

877	17	021	Christian	County,	Illinois	33888	47417	23823
878	17	021	Christian	County,	Illinois	33888	47417	23823
879	17	021	Christian	County,	Illinois	33888	47417	23823
880	17	021	Christian	County,	Illinois	33888	47417	23823
881	17	021	Christian	County,	Illinois	33888	47417	23823
882	17	077	Jackson	County,	Illinois	59188	33845	21948
883	17	077	Jackson	County,	Illinois	59188	33845	21948
884	17	077	Jackson	County,	Illinois	59188	33845	21948
885	17	077	Jackson	County,	Illinois	59188	33845	21948
886	17	077	Jackson	County,	Illinois	59188	33845	21948
887	17	077	Jackson	County,	Illinois	59188	33845	21948
888	17	077	Jackson	County,	Illinois	59188	33845	21948
889	17	077	Jackson	County,	Illinois	59188	33845	21948
890	17	077	Jackson	County,	Illinois	59188	33845	21948
891	17	077	Jackson	County,	Illinois	59188	33845	21948
892	17	077	Jackson	County,	Illinois	59188	33845	21948
893	17	077	Jackson	County,	Illinois	59188	33845	21948
894	17	077	Jackson	County,	Illinois	59188	33845	21948
895	17	077	Jackson	County,	Illinois	59188	33845	21948
896	17	077	Jackson	County,	Illinois	59188	33845	21948
897	17	077	Jackson	County,	Illinois	59188	33845	21948
898	17	077	Jackson	County,	Illinois	59188	33845	21948
899	17	077	Jackson	County,	Illinois	59188	33845	21948
900	17	077	Jackson	County,	Illinois	59188	33845	21948
901	17	077	Jackson	County,	Illinois	59188	33845	21948
902	17	077	Jackson	County,	Illinois	59188	33845	21948
903	17	181	Union	County,	Illinois	17458	45464	24296
904	17	181	Union	County,	Illinois	17458	45464	24296
905	17	181	Union	County,	Illinois	17458	45464	24296
906	17	181	Union	County,	Illinois	17458	45464	24296
907	17	181	Union	County,	Illinois	17458	45464	24296
908	17	181	Union	County,	Illinois	17458	45464	24296
909	17	181	Union	County,	Illinois	17458	45464	24296
910	17	181	Union	County,	Illinois	17458	45464	24296
911	17	181	Union	County,	Illinois	17458	45464	24296
912	17	181	Union	County,	Illinois	17458	45464	24296
913	17	181	Union	County,	Illinois	17458	45464	24296
914	17	181	Union	County,	Illinois	17458	45464	24296
915	17	181	Union	County,	Illinois	17458	45464	24296
916	17	181		County,	Illinois	17458	45464	24296
917	17	181		County,	Illinois	17458	45464	24296
918	17	181		County,	Illinois	17458	45464	24296
919	17	165	Saline	County,	Illinois	24659	40290	21917

920	17	165	Saline	County,	Illinois	24659	40290	21917
921	17	165	Saline	County,	Illinois	24659	40290	21917
922	17	165	Saline	County,	Illinois	24659	40290	21917
923	17	165	Saline	County,	Illinois	24659	40290	21917
924	17	165	Saline	County,	Illinois	24659	40290	21917
925	17	165	Saline	County,	Illinois	24659	40290	21917
926	17	195	Whiteside	County,	Illinois	57155	49151	26155
927	17	195	Whiteside	County,	Illinois	57155	49151	26155
928	17	195	Whiteside	County,	Illinois	57155	49151	26155
929	17	195	Whiteside	County,	Illinois	57155	49151	26155
930	17	195	Whiteside	County,	Illinois	57155	49151	26155
931	17	195	Whiteside	County,	Illinois	57155	49151	26155
932	17	195	Whiteside	County,	Illinois	57155	49151	26155
933	17	195	Whiteside	County,	Illinois	57155	49151	26155
934	17	195	Whiteside	County,	Illinois	57155	49151	26155
935	17	195	Whiteside	County,	Illinois	57155	49151	26155
936	17	195	Whiteside	County,	Illinois	57155	49151	26155
937	17	195	Whiteside	County,	Illinois	57155	49151	26155
938	17	195	Whiteside	County,	Illinois	57155	49151	26155
939	17	195	Whiteside	County,	Illinois	57155	49151	26155
940	17	195	Whiteside	County,	Illinois	57155	49151	26155
941	17	195	Whiteside	County,	Illinois	57155	49151	26155
942	17	195	Whiteside	County,	Illinois	57155	49151	26155
943	17	195	Whiteside	County,	Illinois	57155	49151	26155
945	17	079	Jasper	County,	Illinois	9592	56305	25811
946	17	079	Jasper	County,	Illinois	9592	56305	25811
947	17	079	Jasper	County,	Illinois	9592	56305	25811
948	17	079	Jasper	County,	Illinois	9592	56305	25811
949	17	079	Jasper	County,	Illinois	9592	56305	25811
950	17	079	Jasper	County,	Illinois	9592	56305	25811
951	17	079	Jasper	County,	Illinois	9592	56305	25811
952	17	079	Jasper	County,	Illinois	9592	56305	25811
953	17	197	Will	County,	Illinois	685378	77507	32311
954	17	197	Will	County,	Illinois	685378	77507	32311
955	17	197	Will	County,	Illinois	685378	77507	32311
956	17	197	Will	County,	Illinois	685378	77507	32311
957	17	197	Will	County,	Illinois	685378	77507	32311
958	17	197	Will	County,	Illinois	685378	77507	32311
959	17	197	Will	County,	Illinois	685378	77507	32311
960	17	197	Will	County,	Illinois	685378	77507	32311
961	17	197		County,	Illinois	685378	77507	32311
962	17	197		County,	Illinois	685378	77507	32311
963	17	197	Will	County,	Illinois	685378	77507	32311

964 17 197 Will County, Illinois 685378 77507 32311 965 17 197 Will County, Illinois 685378 77507 32311 966 17 197 Will County, Illinois 685378 77507 32311 967 17 197 Will County, Illinois 685378 77507 32311 968 17 O41 Douglas County, Illinois 19770 52984 26309 969 17 O41 Douglas County, Illinois 19770 52984 26309 970 17 O41 Douglas County, Illinois 19770 52984 26309 971 17 O41 Douglas County, Illinois 19770 52984 26309 972 17 O41 Douglas County, Illinois 19770 52984 26309 973 17 O41 Douglas County, Illinois 19770 52984 26309 974 17 O41 Douglas County, Illinois 19770 52984 26309 975 17 O41 Douglas County, Illinois 19770 52984 26309 976 17 O41 Douglas County, Illinois 19770 52984 26309 977 17 O41 Douglas County, Illinois 19770 52984 26309 978 17 O41 Douglas County, Illinois 19770 52984 26309 978 17 O41 Douglas County, Illinois 19770 52984 26309 978 17 O61 Greene County, Illinois 19770 52984 26309 978 17 O61 Greene County, Illinois 19770 52984 26309 980 17 O61 Greene County, Illinois 13390 42880 21916 981 17 O61 Greene County, Illinois 13390 42880 21916 982 17 O61 Greene County, Illinois 13390 42880 21916 983 17 O61 Greene County, Illinois 13390 42880 21916 984 17 O61 Greene County, Illinois 13390 42880 21916 985 17 O61 Greene County, Illinois 13390 42880 21916 986 17 O61 Greene County, Illinois 13390 42880 21916 987 17 O61 Greene County, Illinois 13390 42880 21916 988 17 O61 Greene County, Illinois 13390 42880 21916 989 17 O61 Greene County, Illinois 13390 42880 21916 990 17 O61 Greene County, Illinois 13390 42880 21916 991 17 O61 Greene County, Illinois 13390 42880 21916 991 17 O61 Greene County, Illinois 13390 42880 21916 992 17 O61 Greene County, Illinois 13390 42880 21916 993 17 O61 Greene County, Illinois 13390 42880 21916 994 17 O61 Greene County, Illinois 13390 42880 21916 995 17 O61 Greene County, Illinois 13390 42880 21916 996 17 O61 Greene County, Illinois 13390 42880 21916 997 17 O61 Greene County, Illinois 13390 42880 21916 998 17 O61 Greene County, Illinois 13390 42880 21916 999 17 O61 Greene County									
966 17 197 Will County, Illinois 685378 77507 32311 967 17 197 Will County, Illinois 685378 77507 32311 968 17 041 Douglas County, Illinois 19770 52984 26309 970 17 041 Douglas County, Illinois 19770 52984 26309 971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 133	964	17	197	Will	County,	Illinois	685378	77507	32311
967 17 197 Will County, Illinois 685378 77507 32311 968 17 041 Douglas County, Illinois 19770 52984 26309 969 17 041 Douglas County, Illinois 19770 52984 26309 970 17 041 Douglas County, Illinois 19770 52984 26309 971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13	965	17	197	Will	County,	Illinois	685378	77507	32311
968 17 041 Douglas County, Illinois 19770 52984 26309 969 17 041 Douglas County, Illinois 19770 52984 26309 970 17 041 Douglas County, Illinois 19770 52984 26309 971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois	966	17	197	Will	County,	Illinois	685378	77507	32311
969 17 041 Douglas County, Illinois 19770 52984 26309 970 17 041 Douglas County, Illinois 19770 52984 26309 971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene Coun	967	17	197	Will	County,	Illinois	685378	77507	32311
970 17 041 Douglas County, Illinois 19770 52984 26309 971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 19770 52984 26309 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene Count	968	17	041	Douglas	County,	Illinois	19770	52984	26309
971 17 041 Douglas County, Illinois 19770 52984 26309 972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 978 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 133	969	17	041	Douglas	County,	Illinois	19770	52984	26309
972 17 041 Douglas County, Illinois 19770 52984 26309 973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 1339	970	17	041	Douglas	County,	Illinois	19770	52984	26309
973 17 041 Douglas County, Illinois 19770 52984 26309 974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390	971	17	041	Douglas	County,	Illinois	19770	52984	26309
974 17 041 Douglas County, Illinois 19770 52984 26309 975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 4280 21916 1004 17 061 Greene County, Illinois 13390 42880 21916	972	17	041	Douglas	County,	Illinois	19770	52984	26309
975 17 041 Douglas County, Illinois 19770 52984 26309 976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 </td <td>973</td> <td>17</td> <td>041</td> <td>Douglas</td> <td>County,</td> <td>Illinois</td> <td>19770</td> <td>52984</td> <td>26309</td>	973	17	041	Douglas	County,	Illinois	19770	52984	26309
976 17 041 Douglas County, Illinois 19770 52984 26309 977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 <td>974</td> <td>17</td> <td>041</td> <td>Douglas</td> <td>County,</td> <td>Illinois</td> <td>19770</td> <td>52984</td> <td>26309</td>	974	17	041	Douglas	County,	Illinois	19770	52984	26309
977 17 041 Douglas County, Illinois 19770 52984 26309 978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 <td>975</td> <td>17</td> <td>041</td> <td>Douglas</td> <td>County,</td> <td>Illinois</td> <td>19770</td> <td>52984</td> <td>26309</td>	975	17	041	Douglas	County,	Illinois	19770	52984	26309
978 17 061 Greene County, Illinois 13390 42880 21916 979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390	976	17	041	Douglas	County,	Illinois	19770	52984	26309
979 17 061 Greene County, Illinois 13390 42880 21916 980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916	977	17	041	Douglas	County,	Illinois	19770	52984	26309
980 17 061 Greene County, Illinois 13390 42880 21916 981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390	978	17	061	Greene	County,	Illinois	13390	42880	21916
981 17 061 Greene County, Illinois 13390 42880 21916 982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene Count	979	17	061	Greene	County,	Illinois	13390	42880	21916
982 17 061 Greene County, Illinois 13390 42880 21916 983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene Count	980	17	061	Greene	County,	Illinois	13390	42880	21916
983 17 061 Greene County, Illinois 13390 42880 21916 984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916	981	17	061	Greene	County,	Illinois	13390	42880	21916
984 17 061 Greene County, Illinois 13390 42880 21916 985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390	982	17	061	Greene	County,	Illinois	13390	42880	21916
985 17 061 Greene County, Illinois 13390 42880 21916 986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390	983	17	061	Greene	County,	Illinois	13390	42880	21916
986 17 061 Greene County, Illinois 13390 42880 21916 987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene Count	984	17	061	Greene	County,	Illinois	13390	42880	21916
987 17 061 Greene County, Illinois 13390 42880 21916 988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	985	17	061	Greene	County,	Illinois	13390	42880	21916
988 17 061 Greene County, Illinois 13390 42880 21916 989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene Coun	986	17	061	Greene	County,	Illinois	13390	42880	21916
989 17 061 Greene County, Illinois 13390 42880 21916 990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	987	17	061	Greene	County,	Illinois	13390	42880	21916
990 17 061 Greene County, Illinois 13390 42880 21916 991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	988	17	061	Greene	County,	Illinois	13390	42880	21916
991 17 061 Greene County, Illinois 13390 42880 21916 992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	989	17	061	Greene	County,	Illinois	13390	42880	21916
992 17 061 Greene County, Illinois 13390 42880 21916 993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	990	17	061	Greene	County,	Illinois	13390	42880	21916
993 17 061 Greene County, Illinois 13390 42880 21916 994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	991	17	061	Greene	County,	Illinois	13390	42880	21916
994 17 061 Greene County, Illinois 13390 42880 21916 995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	992	17	061	Greene	County,	Illinois	13390	42880	21916
995 17 061 Greene County, Illinois 13390 42880 21916 996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	993	17	061	Greene	County,	Illinois	13390	42880	21916
996 17 061 Greene County, Illinois 13390 42880 21916 997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	994	17	061	Greene	County,	Illinois	13390	42880	21916
997 17 061 Greene County, Illinois 13390 42880 21916 998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 13390 42880 21916	995	17	061	Greene	County,	Illinois	13390	42880	21916
998 17 061 Greene County, Illinois 13390 42880 21916 999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	996	17	061	Greene	County,	Illinois	13390	42880	21916
999 17 061 Greene County, Illinois 13390 42880 21916 1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	997	17	061	Greene	County,	Illinois	13390	42880	21916
1000 17 061 Greene County, Illinois 13390 42880 21916 1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	998	17	061	Greene	County,	Illinois	13390	42880	21916
1001 17 061 Greene County, Illinois 13390 42880 21916 1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	999	17	061	Greene	County,	Illinois	13390	42880	21916
1002 17 061 Greene County, Illinois 13390 42880 21916 1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	1000	17	061	Greene	County,	Illinois	13390	42880	21916
1003 17 061 Greene County, Illinois 13390 42880 21916 1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	1001	17	061	Greene	County,	Illinois	13390	42880	21916
1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	1002	17	061	Greene	County,	Illinois	13390	42880	21916
1004 17 061 Greene County, Illinois 13390 42880 21916 1005 17 069 Hardin County, Illinois 4173 39926 21573	1003	17	061	Greene	County,	Illinois	13390	42880	21916
1005 17 069 Hardin County, Illinois 4173 39926 21573	1004	17	061		•	Illinois	13390	42880	21916
V ·					•				
v ·	1006	17	069	Hardin	County,	Illinois	4173	39926	21573

1007	17	069	Hardin	County,	Illinois	4173	39926	21573
1008	17	069	Hardin	County,	Illinois	4173	39926	21573
1009	17	069	Hardin	County,	Illinois	4173	39926	21573
1010	17	069	Hardin	County,	Illinois	4173	39926	21573
1011	17	069	Hardin	County,	Illinois	4173	39926	21573
1012	17	069	Hardin	County,	Illinois	4173	39926	21573
1013	17	069	Hardin	County,	Illinois	4173	39926	21573
1014	17	069	Hardin	County,	Illinois	4173	39926	21573
1015	17	069	Hardin	County,	Illinois	4173	39926	21573
1016	17	069	Hardin	County,	Illinois	4173	39926	21573
1017	17	069	Hardin	County,	Illinois	4173	39926	21573
1018	17	069	Hardin	County,	Illinois	4173	39926	21573
1019	17	095	Knox	County,	Illinois	51752	40605	22939
1020	17	095	Knox	County,	Illinois	51752	40605	22939
1021	17	095	Knox	County,	Illinois	51752	40605	22939
1022	17	095	Knox	County,	Illinois	51752	40605	22939
1023	17	095	Knox	County,	Illinois	51752	40605	22939
1024	17	095	Knox	County,	Illinois	51752	40605	22939
1025	17	095	Knox	County,	Illinois	51752	40605	22939
1026	17	127	Massac	County,	Illinois	14883	42706	23673
1027	17	127	Massac	County,	Illinois	14883	42706	23673
1028	17	127	Massac	County,	Illinois	14883	42706	23673
1029	17	127	Massac	County,	Illinois	14883	42706	23673
1030	17	127	Massac	County,	Illinois	14883	42706	23673
1031	17	127	Massac	County,	Illinois	14883	42706	23673
1032	17	127	Massac	County,	Illinois	14883	42706	23673
1033	17	127	Massac	County,	Illinois	14883	42706	23673
1034	17	127	Massac	County,	Illinois	14883	42706	23673
1035	17	127	Massac	County,	Illinois	14883	42706	23673
1036	17	127	Massac	County,	Illinois	14883	42706	23673
1037	17	127	Massac	County,	Illinois	14883	42706	23673
1038	17	127	Massac	County,	Illinois	14883	42706	23673
1039	17	127	Massac	County,	Illinois	14883	42706	23673
1040	17	127	Massac	County,	Illinois	14883	42706	23673
1041	17	127	Massac	County,	Illinois	14883	42706	23673
1042	17	179	Tazewell	County,	Illinois	135400	60178	30700
1043	17	179	Tazewell	County,	Illinois	135400	60178	30700
1044	17	179	Tazewell	County,	Illinois	135400	60178	30700
1045	17	179	Tazewell	County,	Illinois	135400	60178	30700
1046	17	179	Tazewell	County,	Illinois	135400	60178	30700
1047	17	179	Tazewell	County,	Illinois	135400	60178	30700
1048	17	179	Tazewell	County,	Illinois	135400	60178	30700
1049	17	179	Tazewell	County,	Illinois	135400	60178	30700

1050	17	179	Tazewell	County,	Illinois	135400	60178	30700
1051	17	179	Tazewell	County,	Illinois	135400	60178	30700
1052	17	179	Tazewell	County,	Illinois	135400	60178	30700
1053	17	179	Tazewell	County,	Illinois	135400	60178	30700
1054	17	179	Tazewell	County,	Illinois	135400	60178	30700
1055	17	179	Tazewell	County,	Illinois	135400	60178	30700
1056	17	179	Tazewell	County,	Illinois	135400	60178	30700
1057	17	179	Tazewell	County,	Illinois	135400	60178	30700
1058	17	179	Tazewell	County,	Illinois	135400	60178	30700
1059	17	179	Tazewell	County,	Illinois	135400	60178	30700
1060	17	179	Tazewell	County,	Illinois	135400	60178	30700
1061	17	179	Tazewell	County,	Illinois	135400	60178	30700
1062	17	179	Tazewell	County,	Illinois	135400	60178	30700
1063	17	179	Tazewell	County,	Illinois	135400	60178	30700
1064	17	179	Tazewell	County,	Illinois	135400	60178	30700
1065	17	179	Tazewell	County,	Illinois	135400	60178	30700
1066	17	179	Tazewell	County,	Illinois	135400	60178	30700
1067	17	201	Winnebago	County,	Illinois	288896	49468	26187
1068	17	201	Winnebago	County,	Illinois	288896	49468	26187
1069	17	201	Winnebago	County,	Illinois	288896	49468	26187
1070	17	201	Winnebago	County,	Illinois	288896	49468	26187
1071	17	201	Winnebago	County,	Illinois	288896	49468	26187
1072	17	201	Winnebago	County,	Illinois	288896	49468	26187
1073	17	201	Winnebago	County,	Illinois	288896	49468	26187
1074	17	201	Winnebago	County,	Illinois	288896	49468	26187
1075	17	147	Piatt	County,	Illinois	16469	69160	33197
1076	17	147	Piatt	County,	Illinois	16469	69160	33197
1077	17	147	Piatt	County,	Illinois	16469	69160	33197
1078	17	147	Piatt	County,	Illinois	16469	69160	33197
1079	17	147	Piatt	County,	Illinois	16469	69160	33197
1080	17	147	Piatt	County,	Illinois	16469	69160	33197
1081	17	147	Piatt	County,	Illinois	16469	69160	33197
1082	17	147	Piatt	County,	Illinois	16469	69160	33197
1083	17	147	Piatt	County,	Illinois	16469	69160	33197
1084	17	147	Piatt	County,	Illinois	16469	69160	33197
1085	17	147	Piatt	County,	Illinois	16469	69160	33197
1086	17	147	Piatt	County,	Illinois	16469	69160	33197
1087	17	147	Piatt	County,	Illinois	16469	69160	33197
1088	17	153	Pulaski	County,	Illinois	5792	32538	18924
1089	17	153	Pulaski	County,	Illinois	5792	32538	18924
1090	17	153	Pulaski	County,	Illinois	5792	32538	18924
1091	17	153	Pulaski	County,	Illinois	5792	32538	18924
1092	17	153	Pulaski	County,	Illinois	5792	32538	18924

1093	17	153	Pulaski	County,	Illinois	5792	32538	18924
1094	17	153	Pulaski	County,	Illinois	5792	32538	18924
1095	17	153	Pulaski	County,	Illinois	5792	32538	18924
1096	17	153	Pulaski	County,	Illinois	5792	32538	18924
1097	17	153	Pulaski	County,	Illinois	5792	32538	18924
1098	17	153	Pulaski	County,	Illinois	5792	32538	18924
1099	17	153	Pulaski	County,	Illinois	5792	32538	18924
1100	17	153	Pulaski	County,	Illinois	5792	32538	18924
1101	17	153	Pulaski	County,	Illinois	5792	32538	18924
1102	17	153	Pulaski	County,	Illinois	5792	32538	18924
1103	17	153	Pulaski	County,	Illinois	5792	32538	18924
1104	17	153	Pulaski	County,	Illinois	5792	32538	18924
1105	17	153	Pulaski	County,	Illinois	5792	32538	18924
1106	17	153	Pulaski	County,	Illinois	5792	32538	18924
1107	17	153	Pulaski	County,	Illinois	5792	32538	18924
1108	17	153	Pulaski	County,	Illinois	5792	32538	18924
1109	17	153	Pulaski	County,	Illinois	5792	32538	18924
1110	17	153	Pulaski	County,	Illinois	5792	32538	18924
1111	17	153	Pulaski	County,	Illinois	5792	32538	18924
1112	17	153	Pulaski	County,	Illinois	5792	32538	18924
1113	17	153	Pulaski	County,	Illinois	5792	32538	18924
1114	17	153	Pulaski	County,	Illinois	5792	32538	18924
1115	17	153	Pulaski	County,	Illinois	5792	32538	18924
1116	17	153	Pulaski	County,	Illinois	5792	32538	18924
1117	17	153	Pulaski	County,	Illinois	5792	32538	18924
1118	17	153	Pulaski	County,	Illinois	5792	32538	18924
1119	17	153	Pulaski	County,	Illinois	5792	32538	18924
1120	17	153	Pulaski	County,	Illinois	5792	32538	18924
1121	17	169	Schuyler	County,	Illinois	7205	48396	24323
1122	17	169	Schuyler	County,	Illinois	7205	48396	24323
1123	17	169	Schuyler	County,	Illinois	7205	48396	24323
1124	17	169	Schuyler	County,	Illinois	7205	48396	24323
1125	17	169	Schuyler	County,	Illinois	7205	48396	24323
1126	17	169	Schuyler	County,	Illinois	7205	48396	24323
1127	17	169	Schuyler	County,	Illinois	7205	48396	24323
1128	17	169	Schuyler	County,	Illinois	7205	48396	24323
1129	17	169	Schuyler	County,	Illinois	7205	48396	24323
1130	17	169	Schuyler	County,	Illinois	7205	48396	24323
1131	17	169	Schuyler	County,	Illinois	7205	48396	24323
1132	17	169	Schuyler	County,	Illinois	7205	48396	24323
1133	17	169	Schuyler	County,	Illinois	7205	48396	24323
1134	17	169	Schuyler	County,	Illinois	7205	48396	24323
1135	17	169	Schuyler	County,	Illinois	7205	48396	24323

1136	17	169	Schuyler	County,	Illinois	7205	48396	24323
1137	17	169	Schuyler	County,	Illinois	7205	48396	24323
1138	17	169	Schuyler	County,	Illinois	7205	48396	24323
1139	17	169	Schuyler	County,	Illinois	7205	48396	24323
1140	17	169	Schuyler	County,	Illinois	7205	48396	24323
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1142	17	169	Schuyler	County,	Illinois	7205	48396	24323
1143	17	169	Schuyler	County,	Illinois	7205	48396	24323
1144	17	169	Schuyler	County,	Illinois	7205	48396	24323
1145	17	169	Schuyler	County,	Illinois	7205	48396	24323
1146	17	169	Schuyler	County,	Illinois	7205	48396	24323
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1148	17	169	Schuyler	County,	Illinois	7205	48396	24323
1149	17	175	Stark	County,	Illinois	5840	52058	28545
1150	17	175	Stark	County,	Illinois	5840	52058	28545
1151	17	175	Stark	County,	Illinois	5840	52058	28545
1152	17	175	Stark	County,	Illinois	5840	52058	28545
1153	17	175	Stark	County,	Illinois	5840	52058	28545
1154	17	175	Stark	County,	Illinois	5840	52058	28545
1155	17	175	Stark	County,	Illinois	5840	52058	28545
1156	17	175	Stark	County,	Illinois	5840	52058	28545
1157	17	175	Stark	County,	Illinois	5840	52058	28545
1158	17	045	Edgar	County,	Illinois	17828	46440	25122
1159	17	045	Edgar	County,	Illinois	17828	46440	25122
1160	17	045	Edgar	County,	Illinois	17828	46440	25122
1161	17	045	Edgar	County,	Illinois	17828	46440	25122
1162	17	045	Edgar	County,	Illinois	17828	46440	25122
1163	17	045	Edgar	County,	Illinois	17828	46440	25122
1164	17	045	Edgar	County,	Illinois	17828	46440	25122
1165	17	045	Edgar	County,	Illinois	17828	46440	25122
1166	17	045	Edgar	County,	Illinois	17828	46440	25122
1167	17	045	Edgar	County,	Illinois	17828	46440	25122
1168	17	045	Edgar	County,	Illinois	17828	46440	25122
1169	17	045	Edgar	County,	Illinois	17828	46440	25122
1170	17	045	Edgar	County,	Illinois	17828	46440	25122
1171	17	005	Bond	County,	Illinois	17137	52159	23660
1172	17	005	Bond	County,	Illinois	17137	52159	23660
1173	17	005	Bond	County,	Illinois	17137	52159	23660
1174	17	005	Bond	County,	Illinois	17137	52159	23660
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1176	17	005	Bond	County,	Illinois	17137	52159	23660
1177	17	005	Bond	County,	Illinois	17137	52159	23660
1178	17	005	Bond	County,	Illinois	17137	52159	23660

1179	17	005	Bond	County,	Illinois	17137	52159	23660
1180	17	005	Bond	County,	Illinois	17137	52159	23660
1181	17	005	Bond	County,	Illinois	17137	52159	23660
1182	17	007	Boone	County,	Illinois	53656	60063	27825
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1184	17	007	Boone	County,	Illinois	53656	60063	27825
1185	17	007	Boone	County,	Illinois	53656	60063	27825
1186	17	007	Boone	County,	Illinois	53656	60063	27825
1187	17	007	Boone	County,	Illinois	53656	60063	27825
1188	17	011	Bureau	County,	Illinois	33822	51425	27332
1189	17	011	Bureau	County,	Illinois	33822	51425	27332
1190	17	011	Bureau	County,	Illinois	33822	51425	27332
1191	17	011	Bureau	County,	Illinois	33822	51425	27332
1192	17	011	Bureau	County,	Illinois	33822	51425	27332
1193	17	011	Bureau	County,	Illinois	33822	51425	27332
1194	17	011	Bureau	County,	Illinois	33822	51425	27332
1195	17	011	Bureau	County,	Illinois	33822	51425	27332
1196	17	011	Bureau	County,	Illinois	33822	51425	27332
1197	17	011	Bureau	County,	Illinois	33822	51425	27332
1198	17	011	Bureau	County,	Illinois	33822	51425	27332
1199	17	011	Bureau	County,	Illinois	33822	51425	27332
1200	17	011	Bureau	County,	Illinois	33822	51425	27332
1201	17	011	Bureau	County,	Illinois	33822	51425	27332
1202	17	011	Bureau	County,	Illinois	33822	51425	27332
1203	17	011	Bureau	County,	Illinois	33822	51425	27332
1204	17	011	Bureau	County,	Illinois	33822	51425	27332
1205	17	011	Bureau	County,	Illinois	33822	51425	27332
1206	17	015	Carroll	County,	Illinois	14793	50052	27325
1207	17	015	Carroll	County,	Illinois	14793	50052	27325
1208	17	015	Carroll	County,	Illinois	14793	50052	27325
1209	17	015	Carroll	County,	Illinois	14793	50052	27325
1210	17	015	Carroll	County,	Illinois	14793	50052	27325
1211	17	015	Carroll	County,	Illinois	14793	50052	27325
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1213	17	015	Carroll	County,	Illinois	14793	50052	27325
1214	17	015	Carroll	County,	Illinois	14793	50052	27325
1215	17	015	Carroll	County,	Illinois	14793	50052	27325
1216	17	015	Carroll	County,	Illinois	14793	50052	27325
1217	17	015	Carroll	County,	Illinois	14793	50052	27325
1218	17	029	Coles	County,	Illinois	52802	38800	23944
1219	17	029	Coles	County,	Illinois	52802	38800	23944
1220	17	029	Coles	County,	Illinois	52802	38800	23944
1221	17	029	Coles	County,	Illinois	52802	38800	23944

1222	17	029	Coles	County,	Illinois	52802	38800	23944
1223	17	029	Coles	County,	Illinois	52802	38800	23944
1224	17	029	Coles	County,	Illinois	52802	38800	23944
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1227	17	029	Coles	County,	Illinois	52802	38800	23944
1228	17	033	Crawford	County,	Illinois	19441	47364	26245
1229	17	033	Crawford	County,	Illinois	19441	47364	26245
1230	17	033	Crawford	County,	Illinois	19441	47364	26245
1231	17	033	${\tt Crawford}$	County,	Illinois	19441	47364	26245
1232	17	033	Crawford	County,	Illinois	19441	47364	26245
1233	17	033	Crawford	County,	Illinois	19441	47364	26245
1234	17	033	Crawford	County,	Illinois	19441	47364	26245
1235	17	033	Crawford	County,	Illinois	19441	47364	26245
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1242	17	033	Crawford	County,	Illinois	19441	47364	26245
1243	17	033	Crawford	County,	Illinois	19441	47364	26245
1244	17	083	Jersey	County,	Illinois	22441	52738	26346
1245	17	083	Jersey	County,	Illinois	22441	52738	26346
1246	17	083	Jersey	County,	Illinois	22441	52738	26346
1247	17	083	Jersey	County,	Illinois	22441	52738	26346
1248	17	083	Jersey	County,	Illinois	22441	52738	26346
1249	17	083	Jersey	County,	Illinois	22441	52738	26346
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1255	17	083	Jersey	County,	Illinois	22441	52738	26346
1256	17	083	Jersey	County,	Illinois	22441	52738	26346
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1262	17	083	Jersey	County,	Illinois	22441	52738	26346
1263	17	083	Jersey	County,	Illinois	22441	52738	26346
1264	17	083	Jersey	County,	Illinois	22441	52738	26346

1265	17	083	Jersey	County,	Illinois	22441	52738	26346
1266	17	083	Jersey	County,	Illinois	22441	52738	26346
1267	17	083	Jersey	County,	Illinois	22441	52738	26346
1268	17	083	Jersey	County,	Illinois	22441	52738	26346
1269	17	155	Putnam	County,	Illinois	5746	64085	32584
1270	17	155	Putnam	County,	Illinois	5746	64085	32584
1271	17	155	Putnam	County,	Illinois	5746	64085	32584
1272	17	155	Putnam	County,	Illinois	5746	64085	32584
1273	17	155	Putnam	County,	Illinois	5746	64085	32584
1274	17	155	Putnam	County,	Illinois	5746	64085	32584
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1276	17	155	Putnam	County,	Illinois	5746	64085	32584
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1279	17	155	Putnam	County,	Illinois	5746	64085	32584
1280	17	155	Putnam	County,	Illinois	5746	64085	32584
1281	17	155	Putnam	County,	Illinois	5746	64085	32584
1282	17	039	De Witt	County,	Illinois	16322	53510	28294
1283	17	039	De Witt	County,	Illinois	16322	53510	28294
1284	17	039	De Witt	County,	Illinois	16322	53510	28294
1285	17	039	De Witt	County,	Illinois	16322	53510	28294
1286	17	039	De Witt	County,	Illinois	16322	53510	28294
1287	17	039	De Witt	County,	Illinois	16322	53510	28294
1288	17	039	De Witt	County,	Illinois	16322	53510	28294
1289	17	039	De Witt	County,	Illinois	16322	53510	28294
1290	17	039	De Witt	County,	Illinois	16322	53510	28294
1291	17	051	Fayette	County,	Illinois	22025	44745	21665
1292	17	051	Fayette	County,	Illinois	22025	44745	21665
1293	17	051	Fayette	County,	Illinois	22025	44745	21665
1294	17	051	Fayette	County,	Illinois	22025	44745	21665
1295	17	051	Fayette	County,	Illinois	22025	44745	21665
1296	17	051	Fayette	County,	Illinois	22025	44745	21665
1297	17	051	Fayette	County,	Illinois	22025	44745	21665
1298	17	051	Fayette	County,	Illinois	22025	44745	21665
1299	17	051	Fayette	County,	Illinois	22025	44745	21665
1300	17	051	Fayette	County,	Illinois	22025	44745	21665
1301	17	051	Fayette	County,	Illinois	22025	44745	21665
1302	17	051	Fayette	County,	Illinois	22025	44745	21665
1303	17	051	Fayette	County,	Illinois	22025	44745	21665
1304	17	103	Lee	County,	Illinois	34718	55067	27021
1305	17	103	Lee	County,	Illinois	34718	55067	27021
1306	17	103	Lee	County,	Illinois	34718	55067	27021
1307	17	103	Lee	County,	Illinois	34718	55067	27021

1308	17	103	Lee	County,	Illinois	34718	55067	27021
1309	17	103	Lee	County,	Illinois	34718	55067	27021
1310	17	103	Lee	County,	Illinois	34718	55067	27021
1311	17	103	Lee	County,	Illinois	34718	55067	27021
1312	17	103	Lee	County,	Illinois	34718	55067	27021
1313	17	103	Lee	County,	Illinois	34718	55067	27021
1314	17	103	Lee	County,	Illinois	34718	55067	27021
1315	17	103	Lee	County,	Illinois	34718	55067	27021
1316	17	103	Lee	County,	Illinois	34718	55067	27021
1317	17	103	Lee	County,	Illinois	34718	55067	27021
1318	17	103	Lee	County,	Illinois	34718	55067	27021
1319	17	103	Lee	County,	Illinois	34718	55067	27021
1320	17	103	Lee	County,	Illinois	34718	55067	27021
1321	17	107	Logan	County,	Illinois	29820	52676	23410
1322	17	107	Logan	County,	Illinois	29820	52676	23410
1323	17	107	Logan	County,	Illinois	29820	52676	23410
1324	17	107	Logan	County,	Illinois	29820	52676	23410
1325	17	107	Logan	County,	Illinois	29820	52676	23410
1326	17	107	Logan	County,	Illinois	29820	52676	23410
1327	17	107	Logan	County,	Illinois	29820	52676	23410
1328	17	107	Logan	County,	Illinois	29820	52676	23410
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1333	17	107	Logan	County,	Illinois	29820	52676	23410
1334	17	107	Logan	County,	Illinois	29820	52676	23410
1335	17	107	Logan	County,	Illinois	29820	52676	23410
1336	17	107	Logan	County,	Illinois	29820	52676	23410
1337	17	117	Macoupin	County,	Illinois	46482	52337	26779
1338	17	117	Macoupin	County,	Illinois	46482	52337	26779
1339	17	117	Macoupin	County,	Illinois	46482	52337	26779
1340	17	117	Macoupin	County,	Illinois	46482	52337	26779
1341	17	117	Macoupin	County,	Illinois	46482	52337	26779
1342	17	117	Macoupin	County,	Illinois	46482	52337	26779
1343	17	117	Macoupin	County,	Illinois	46482	52337	26779
1344	17	117	Macoupin	County,	Illinois	46482	52337	26779
1345	17	117	Macoupin	County,	Illinois	46482	52337	26779
1346	17	117	Macoupin	County,	Illinois	46482	52337	26779
1347	17	159	Richland	County,	Illinois	16072	45597	23972
1348	17	159	Richland	County,	Illinois	16072	45597	23972
1349	17	159	Richland	County,	Illinois	16072	45597	23972
1350	17	159	Richland	County,	Illinois	16072	45597	23972

1351	17	159	Richland	County,	Illinois	16072	45597	23972
1352	17	159	Richland	County,	Illinois	16072	45597	23972
1353	17	159	Richland	County,	Illinois	16072	45597	23972
1354	17	159	Richland	County,	Illinois	16072	45597	23972
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1359	17	159	Richland	County,	Illinois	16072	45597	23972
1360	17	159	Richland	County,	Illinois	16072	45597	23972
1361	17	159	Richland	County,	Illinois	16072	45597	23972
1362	17	159	Richland	County,	Illinois	16072	45597	23972
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1365	17	159	Richland	County,	Illinois	16072	45597	23972
1366	17	159	Richland	County,	Illinois	16072	45597	23972
1367	17	189	Washington	County,	Illinois	14369	54936	29548
1368	17	189	Washington	County,	Illinois	14369	54936	29548
1369	17	189	Washington	County,	Illinois	14369	54936	29548
1370	17	189	Washington	County,	Illinois	14369	54936	29548
1371	17	189	Washington	County,	Illinois	14369	54936	29548
1372	17	189	Washington	County,	Illinois	14369	54936	29548
1373	17	189	Washington	County,	Illinois	14369	54936	29548
1374	17	189	Washington	County,	Illinois	14369	54936	29548
1375	17	189	Washington	County,	Illinois	14369	54936	29548
1376	17	189	Washington	County,	Illinois	14369	54936	29548
1377	17	189	Washington	County,	Illinois	14369	54936	29548
1378	17	189	Washington	County,	Illinois	14369	54936	29548
1379	17	189	Washington	County,	Illinois	14369	54936	29548
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1381	17	189	Washington	County,	Illinois	14369	54936	29548
1382	17	189	Washington	County,	Illinois	14369	54936	29548
1383	17	189	Washington	County,	Illinois	14369	54936	29548
1384	17	189	Washington	County,	Illinois	14369	54936	29548
1385	17	189	Washington	County,	Illinois	14369	54936	29548
1386	17	189	Washington	County,	Illinois	14369	54936	29548
1387	17	189	Washington	County,	Illinois	14369	54936	29548
1388	17	189	Washington	County,	Illinois	14369	54936	29548
1389	17	189	Washington	County,	Illinois	14369	54936	29548
1390	17	189	Washington	County,	Illinois	14369	54936	29548
1391	17	135	Montgomery	County,	Illinois	29301	45173	21072
1392	17	135	Montgomery	County,	Illinois	29301	45173	21072
1393	17	135	Montgomery	County,	Illinois	29301	45173	21072

1394	17	135	Montgomery	County,	Illinois	29301	45173	21072
1395	17	135	Montgomery	County,	Illinois	29301	45173	21072
1396	17	135	Montgomery	County,	Illinois	29301	45173	21072
1397	17	135	Montgomery	County,	Illinois	29301	45173	21072
1398	17	135	Montgomery	County,	Illinois	29301	45173	21072
1399	17	135	Montgomery	County,	Illinois	29301	45173	21072
1400	17	135	Montgomery	County,	Illinois	29301	45173	21072
1401	17	135	Montgomery	County,	Illinois	29301	45173	21072
1402	17	135	Montgomery	County,	Illinois	29301	45173	21072
1403	17	135	Montgomery	County,	Illinois	29301	45173	21072
1404	17	001	Adams	County,	Illinois	66949	48065	26053
1405	17	001	Adams	County,	Illinois	66949	48065	26053
1406	17	001	Adams	County,	Illinois	66949	48065	26053
1407	17	001	Adams	County,	Illinois	66949	48065	26053
1408	17	001	Adams	County,	Illinois	66949	48065	26053
1409	17	001	Adams	County,	Illinois	66949	48065	26053
1410	17	001	Adams	County,	Illinois	66949	48065	26053
1411	17	001	Adams	County,	Illinois	66949	48065	26053
1412	17	001	Adams	County,	Illinois	66949	48065	26053
1413	17	001	Adams	County,	Illinois	66949	48065	26053
1414	17	001	Adams	County,	Illinois	66949	48065	26053
1415	17	001	Adams	County,	Illinois	66949	48065	26053
1416	17	001	Adams	County,	Illinois	66949	48065	26053
1417	17	001	Adams	County,	Illinois	66949	48065	26053
1418	17	001	Adams	County,	Illinois	66949	48065	26053
1419	17	001	Adams	County,	Illinois	66949	48065	26053
1420	17	027	Clinton	County,	Illinois	37858	63929	29512
1421	17	027	Clinton	County,	Illinois	37858	63929	29512
1422	17	027	Clinton	County,	Illinois	37858	63929	29512
1423	17	027	Clinton	County,	Illinois	37858	63929	29512
1424	17	027	Clinton	County,	Illinois	37858	63929	29512
1425	17	027	Clinton	County,	Illinois	37858	63929	29512
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1427	17	027	Clinton	County,	Illinois	37858	63929	29512
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1431	17	027	Clinton	County,	Illinois	37858	63929	29512
1432	17	027	Clinton	County,	Illinois	37858	63929	29512
1433	17	027	Clinton	County,	Illinois	37858	63929	29512
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1435	17	027	Clinton	County,	Illinois	37858	63929	29512
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1459	17	081	Jefferson	County,	Illinois	38523	43467	23054
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1467	17	183	Vermilion	County,	Illinois	79613	43552	22733
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                                              442 illinois
1512
       effingham -88.36728 38.91529
                                        25
                                                                  2
                                              443 illinois
1513
          fulton -90.44712 40.62271
                                        29
                                              492 illinois
```

1514	fulton	-90.44712	40.71438	29	493	illinois	2
1515	fulton	-89.98875	40.71438	29	494	illinois	2
1516	fulton	-89.99448	40.61698	29	495	illinois	2
1517	fulton	-89.86843	40.61698	29	496	illinois	2
1518	fulton	-89.86843	40.50812	29	497	illinois	2
1519	fulton	-89.87416	40.49093	29	498	illinois	2
1520	fulton	-89.88562	40.46228	29	499	illinois	2
1521	fulton	-89.91427	40.42790	29	500	illinois	2
1522	fulton	-89.96583	40.41071	29	501	illinois	2
1523	fulton	-90.02313	40.37634	29	502	illinois	2
1524	fulton	-90.05177	40.34769	29	503	illinois	2
1525	fulton	-90.08042	40.27893	29	504	illinois	2
1526	fulton	-90.10334	40.26747	29	505	illinois	2
1527	fulton	-90.13199	40.22164	29	506	illinois	2
1528	fulton	-90.18356	40.20445	29	507	illinois	2
1529	fulton	-90.20075	40.18726	29	508	illinois	2
1530	fulton	-90.45284	40.18726	29	509	illinois	2
1531	fulton	-90.45284	40.27320	29	510	illinois	2
1532	fulton	-90.44712	40.62271	29	511	illinois	2
1533	hamilton	-88.38447	38.25066	33	566	illinois	1
1534	hamilton	-88.37874	37.90689	33	567	illinois	1
1535	hamilton	-88.70533	37.90689	33	568	illinois	1
1536	hamilton	-88.71106	38.11888	33	569	illinois	1
1537	hamilton	-88.70533	38.25066	33	570	illinois	1
1538	hamilton	-88.38447	38.25066	33	571	illinois	1
1539	henry	-90.17210	41.58527	37	625	illinois	2
1540	henry	-89.85124	41.59101	37	626	illinois	2
1541	henry	-89.85124	41.48214	37	627	illinois	2
1542	henry	-89.83405	41.48214	37	628	illinois	2
1543	henry	-89.83405	41.24150	37	629	illinois	2
1544	henry	-89.85697	41.24150	37	630	illinois	2
1545	henry	-89.85697	41.14410	37	631	illinois	2
1546	henry	-89.98875	41.14410	37	632	illinois	2
1547	henry	-90.44139	41.14410	37	633	illinois	2
1548	henry	-90.43566	41.32745	37	634	illinois	2
1549	henry	-90.42993	41.46495	37	635	illinois	2
1550	henry	-90.37836	41.48214	37	636	illinois	2
1551	henry	-90.36691	41.49934	37	637	illinois	2
1552	henry	-90.29242	41.51652	37	638	illinois	2
1553	henry	-90.24658	41.52225	37	639	illinois	2
1554	henry	-90.21793	41.53371	37	640	illinois	2
1555	•	-90.18356		37	641	illinois	2
1556	henry	-90.17210	41.58527	37	642	illinois	2

```
1557
         johnson -89.04910 37.60322
                                         44
                                              737 illinois
                                                                  1
1558
         johnson -88.71106 37.60322
                                         44
                                              738 illinois
                                                                  1
1559
         johnson -88.71106 37.34539
                                         44
                                              739 illinois
                                                                  1
1560
         johnson -88.94024 37.34539
                                         44
                                                                  1
                                              740 illinois
1561
         johnson -88.91732 37.32820
                                         44
                                              741 illinois
                                                                  1
1562
         johnson -88.91732 37.31674
                                         44
                                              742 illinois
                                                                  1
1563
         johnson -88.92878 37.31101
                                         44
                                              743 illinois
                                                                  1
1564
         johnson -88.94597 37.30528
                                         44
                                              744 illinois
                                                                  1
1565
         johnson -88.96316 37.31101
                                         44
                                              745 illinois
                                                                  1
1566
         johnson -88.98035 37.31674
                                         44
                                              746 illinois
                                                                  1
1567
         johnson -88.99754 37.32820
                                         44
                                              747 illinois
                                                                  1
         johnson -89.02618 37.32247
                                         44
1568
                                              748 illinois
                                                                  1
1569
         johnson -89.04910 37.31674
                                         44
                                                                  1
                                              749 illinois
1570
         johnson -89.04910 37.33393
                                         44
                                              750 illinois
                                                                  1
1571
         johnson -89.04910 37.60322
                                         44
                                              751 illinois
                                                                  1
1572
            lake -87.77141 42.15824
                                         49
                                                                  6
                                              790 illinois
1573
            lake -88.20686 42.15824
                                         49
                                              791 illinois
                                                                  6
1574
            lake -88.20112 42.50774
                                         49
                                                                  6
                                              792 illinois
1575
            lake -87.80006 42.50201
                                         49
                                              793 illinois
                                                                  6
1576
            lake -87.80006 42.47336
                                         49
                                              794 illinois
                                                                  6
1577
            lake -87.80006 42.43325
                                         49
                                              795 illinois
                                                                  6
1578
            lake -87.81152 42.37023
                                         49
                                              796 illinois
                                                                  6
1579
            lake -87.82870 42.32439
                                         49
                                              797 illinois
                                                                  6
1580
            lake -87.82870 42.27856
                                                                  6
                                         49
                                              798 illinois
1581
            lake -87.81724 42.23272
                                         49
                                              799 illinois
                                                                  6
                                         49
                                                                  6
1582
            lake -87.78859 42.19261
                                              800 illinois
1583
            lake -87.77141 42.15824
                                         49
                                                                  6
                                              801 illinois
                                                                  2
1584
      livingston -88.93451 40.74876
                                         53
                                              848 illinois
      livingston -88.92878 40.92637
                                         53
                                                                  2
1585
                                              849 illinois
1586
      livingston -88.92878 41.10399
                                         53
                                              850 illinois
                                                                  2
1587
      livingston -88.59074 41.10399
                                         53
                                                                  2
                                              851 illinois
1588
      livingston -88.24696 41.10972
                                         53
                                              852 illinois
                                                                  2
1589
      livingston -88.24696 41.00086
                                         53
                                              853 illinois
                                                                  2
      livingston -88.24696 40.61125
1590
                                         53
                                                                  2
                                              854 illinois
1591
      livingston -88.46468 40.60552
                                                                  2
                                         53
                                              855 illinois
1592
      livingston -88.57928 40.60552
                                         53
                                              856 illinois
                                                                  2
                                                                  2
1593
      livingston -88.57928 40.65136
                                         53
                                              857 illinois
1594
      livingston -88.59074 40.65136
                                         53
                                              858 illinois
                                                                  2
      livingston -88.59074 40.74876
                                                                  2
1595
                                         53
                                              859 illinois
1596
      livingston -88.93451 40.74876
                                         53
                                              860 illinois
                                                                  2
1597
           scott -90.60755 39.78619
                                         86
                                                                  1
                                             1524 illinois
1598
           scott -90.48723 39.78619
                                                                  1
                                         86
                                             1525 illinois
1599
           scott -90.48723 39.75181
                                             1526 illinois
                                                                  1
                                         86
```

1600	scott	-90.37263	39.74608	86	1527	illinois	1
1601	scott	-90.37263	39.66587	86	1528	illinois	1
1602	scott	-90.33253	39.66014	86	1529	illinois	1
1603	scott	-90.33253	39.63149	86	1530	illinois	1
1604	scott	-90.29815	39.63149	86	1531	illinois	1
1605	scott	-90.30388	39.52263	86	1532	illinois	1
1606	scott	-90.58463	39.52263	86	1533	illinois	1
1607	scott	-90.58463	39.55701	86	1534	illinois	1
1608	scott	-90.65339	39.67160	86	1535	illinois	1
1609	scott	-90.65339	39.70024	86	1536	illinois	1
1610	scott	-90.64192	39.73462	86	1537	illinois	1
1611	scott	-90.60755	39.78619	86	1538	illinois	1
1612	cass	-90.51014	39.98672	9	162	illinois	1
1613	cass	-90.49295	39.99818	9	163	illinois	1
1614	cass	-90.44712	40.02110	9	164	illinois	1
1615	cass	-90.42993	40.04402	9	165	illinois	1
1616	cass	-90.41273	40.07267	9	166	illinois	1
1617	cass	-90.38409	40.08986	9	167	illinois	1
1618	cass	-90.37836	40.10704	9	168	illinois	1
1619	cass	-90.36118	40.11851	9	169	illinois	1
1620	cass	-90.32680	40.10704	9	170	illinois	1
1621	cass	-90.30388	40.08413	9	171	illinois	1
1622	cass	-90.29815	40.06121	9	172	illinois	1
1623	cass	-90.28669	40.04975	9	173	illinois	1
1624	cass	-90.26377	40.06121	9	174	illinois	1
1625	cass	-90.22366	40.04975	9	175	illinois	1
1626	cass	-90.19501	40.06694	9	176	illinois	1
1627	cass	-90.17210	40.06121	9	177	illinois	1
1628	cass	-90.13199	40.07267	9	178	illinois	1
1629	cass	-90.10908	40.07840	9	179	illinois	1
1630	cass	-90.07470	40.08986	9	180	illinois	1
1631	cass	-90.03459	40.10131	9	181	illinois	1
1632	cass	-90.02313	40.10131	9	182	illinois	1
1633	cass	-89.98875	40.12423	9	183	illinois	1
1634	cass	-89.98875	39.90078	9	184	illinois	1
1635	cass	-89.99448	39.86641	9	185	illinois	1
1636	cass	-90.58463	39.86641	9	186	illinois	1
1637	cass	-90.58463	39.88359	9	187	illinois	1
1638	cass	-90.54452	39.92943	9	188	illinois	1
1639	cass	-90.52734	39.96381	9	189	illinois	1
1640	cass	-90.51014	39.98672	9	190	illinois	1
1641	warren	-90.44139	41.06388	94	1663	illinois	1
1642	warren	-90.44712	40.71438	94	1664	illinois	1

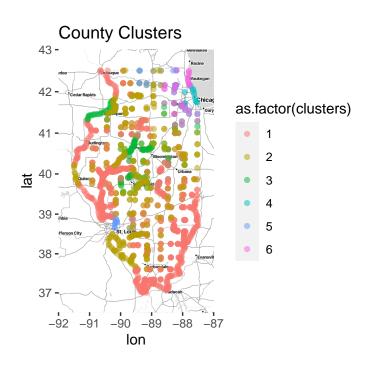
```
1643
         warren -90.44712 40.62271
                                      94 1665 illinois
1644
         warren -90.79662 40.62271
                                     94 1666 illinois
                                                               1
1645
         warren -90.79662 41.06388
                                      94
                                          1667 illinois
                                                               1
1646
         warren -90.44139 41.06388
                                      94 1668 illinois
                                                               1
  register_stadiamaps('d79ae55c-4f24-4156-84b2-c2fbbb1407fb')
  # Define the bounding box for the area of interest
  bbox <- c(left = -92, bottom = 36.5, right = -87, top = 43)
```

Fetch the base map

i © Stadia Maps © Stamen Design © OpenMapTiles © OpenStreetMap contributors.

map <- get_stadiamap(bbox = bbox, zoom = 7, maptype = "stamen_toner_lite")</pre>

```
ggmap(map) +
  geom_point(data = acs_map, aes(x = long, y = lat, color = as.factor(clusters)), alpha =
  labs(title = "County Clusters")
```



Census Tracts

For the next section we need ACS data on a census tract level. We use the same variables as before.

```
acs_il_t <-getCensus(name = "acs/acs5",</pre>
                      vintage = 2016,
                       vars = c("NAME", "B01003_001E", "B19013_001E", "B19301_001E"),
                      region = "tract:*",
                       regionin = "state:17",
                       key = '457e74535811f68ac33753e2d9107cb373e935d4') %>%
              mutate_all(list(~ifelse(.==-666666666, NA, .))) %>%
              rename(pop = B01003_001E,
                      hh_income = B19013_001E,
                      income = B19301_001E)
  head(acs_il_t)
 state county tract
                                                              NAME pop
1
     17
           031 806002 Census Tract 8060.02, Cook County, Illinois 7304
           031 806003 Census Tract 8060.03, Cook County, Illinois 7577
2
     17
3
     17
                         Census Tract 8064, Cook County, Illinois 2684
           031 806400
           031 806501 Census Tract 8065.01, Cook County, Illinois 2590
4
     17
                         Census Tract 7506, Cook County, Illinois 3594
5
     17
           031 750600
     17
           031 310200
                         Census Tract 3102, Cook County, Illinois 1521
 hh income income
      56975 23750
1
2
      53769 25016
3
      62750 30154
4
      53583 20282
5
      40125 18347
      63250 31403
```

k-Means

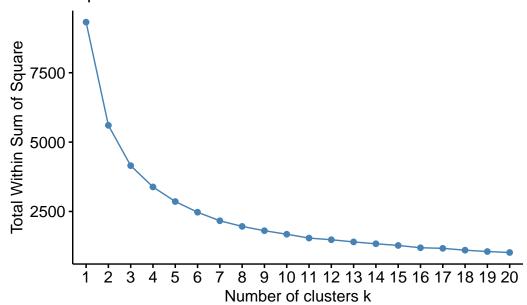
As before, clean our data for clustering census tracts based on population, average household income and per capita income.

```
acs_il_t$pop <- as.numeric(acs_il_t$pop)
acs_il_t$hh_income <- as.numeric(acs_il_t$hh_income)
acs_il_t$income <- as.numeric(acs_il_t$income)</pre>
```

```
acs_il_t <- na.omit(acs_il_t)</pre>
```

Since we want to use K Means in this section, we start by determining the optimal number of K that results in Clusters with low within but high between variation. Plot within cluster sums of squares for a range of K (e.g. up to 20).

Optimal number of clusters



Run kmeans() for the optimal number of clusters based on the plot above.

```
set.seed(123)
km_1 <- kmeans(hclust_data2, 6, nstart = 25)
km_1</pre>
```

K-means clustering with 6 clusters of sizes 527, 154, 690, 764, 914, 60

Cluster means:

pop hh_income income
1 0.1981152 1.0686452 0.91096067
2 -0.1621974 2.5027520 2.92927259
3 0.9361393 -0.2454763 -0.35947856
4 -0.7350496 -0.9786683 -0.84454539
5 -0.4206269 -0.1061549 -0.07767296
6 3.6777750 1.0917832 0.55136196

Clustering vector:

5 3 3 5 4 3 4 3 5 5 4 1 5 4 3 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 4 3 4 4 5 5 5 5 1 1 3 1 3 5 2	5 273 5
<i>A</i>	5
± 0 + + 0 0 0 1 1 0 1 0 0 2	
274 275 276 277 278 279 280 281 282 283 284 285 286 287 288	289
2 5 5 1 5 1 5 5 1 2 5 5 5 1	1
290 291 292 293 294 295 296 297 298 299 300 301 302 303 304	305
1 1 1 2 1 1 1 5 5 4 3 3 5 3	5
306 307 308 309 310 311 312 313 314 315 316 317 318 319 320	321
5 3 5 5 5 5 5 3 5 4 5 3 3 3	1
322 323 324 325 326 327 328 329 330 331 332 333 334 335 336	337
1 5 3 1 2 5 1 1 5 3 3 3 5 1 5	4
338 339 340 341 342 343 344 345 346 347 348 349 350 351 352	353
5 3 1 1 6 2 2 2 1 4 4 5 1 3 3	3
354 355 356 357 358 359 360 361 362 363 364 365 366 367 368	369
1 1 3 4 4 1 3 1 5 3 4 5 5 5 5	5
370 371 372 373 374 375 376 377 378 379 380 381 382 383 384	385
5 5 5 3 4 4 4 4 4 3 5 4 5 4 5	4
386 387 388 389 390 391 392 393 394 395 396 397 398 399 400	401
3 4 3 5 3 5 4 5 4 5 5 3 3 2 4	1
402 403 404 405 406 407 408 409 410 411 412 413 414 415 416	417
1 3 4 5 5 4 4 3 5 5 5 1 1 4 4	4
418 419 420 421 422 423 424 425 426 427 428 429 430 431 432	433
1 4 1 1 1 1 3 5 4 1 1 5 4 5 4	1
434 435 436 437 438 439 440 441 442 443 444 445 446 447 448	449
1 4 3 4 4 5 5 5 5 4 4 4 4 5 3	5
450 451 452 453 454 455 456 457 458 459 460 461 462 464 465	466
4 5 5 4 5 5 3 2 1 2 2 2 2 3	4
467 468 469 470 471 472 473 474 475 476 477 478 479 480 481	482
5 3 4 5 2 3 3 3 5 1 3 4 3 3	3
483 484 485 486 487 488 489 490 491 492 493 494 495 496 497	498
4 5 2 3 3 5 3 5 3 1 3 5 5 5 5	1
499 500 501 502 503 504 505 506 507 508 509 510 511 512 513	514
5 1 1 1 1 1 1 1 1 5 1 5 1	5
515 516 517 518 519 520 521 522 523 524 525 526 527 528 529	530
1 1 1 5 5 5 3 1 1 3 4 4 1 1 6	6
531 532 533 534 535 536 537 538 539 540 541 542 543 544 545	546
3 2 5 2 3 4 4 5 3 3 4 4 4 4 4	1
547 548 549 550 551 552 553 554 555 556 557 558 559 560 561	562
1 5 2 1 1 2 1 1 2 4 5 3 3 5	5
563 564 565 566 567 568 569 570 571 572 573 574 575 576 577	578
5 1 5 5 1 5 1 1 1 3 3 5 5 3 5	2
579 580 581 582 583 584 585 586 587 588 589 590 591 592 593	594
2 1 2 1 2 2 1 1 1 1 2 2 5 5 5	3

```
5
                   5
                        3
                              5
                                   1
                                         4
                                              3
                                                         3
                                                              4
3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037
                   4
                              4
                                   4
                                         5
                                                         4
                                                                               5
        1
                        4
                                              3
                                                    1
                                                               3
                                                                    3
                                                                         1
3039 3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050 3051 3052 3053 3054
              4
                   4
                        3
                              3
                                    3
                                         3
                                              1
                                                    3
                                                         4
                                                                    3
                                                                         3
                                                                                    3
3055 3056 3057 3058 3059 3060 3061 3062 3063 3064 3065
                                                           3066 3067 3068 3069
                   5
                              5
                                         5
                                              5
                                                               3
3071 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084 3085 3086
        5
             5
                   5
                        3
                              3
                                   5
                                         4
                                              5
                                                    5
                                                         5
                                                               5
                                                                    5
                                                                         3
3087 3088 3089 3090 3091 3092 3093 3094 3095 3096 3097 3098 3099 3100 3101 3102
        5
                   5
                        5
                              3
                                   3
                                         3
                                              3
                                                    3
                                                               5
                                                                    3
                                                                         3
              5
                                                         1
3103 3104 3105 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118
                                                               2
                   3
                        3
                              4
                                   4
                                         5
                                              3
                                                    1
                                                         3
                                                                    3
                                                                         5
                                                                                    5
3119 3120 3121 3122 3123
        5
              4
                   5
Within cluster sum of squares by cluster:
[1] 559.7110 447.2754 472.1113 327.3738 393.5146 270.3285
 (between_SS / total_SS = 73.5 %)
Available components:
[1] "cluster"
                    "centers"
                                     "totss"
                                                     "withinss"
                                                                     "tot.withinss"
[6] "betweenss"
                    "size"
                                                     "ifault"
                                     "iter"
  acs_il_t$cluster <- km_1$cluster</pre>
```

Find the mean population, household income and per capita income grouped by clusters. In addition, display the most frequent county that can be observed within each cluster.

```
acs_il_t <- acs_il_t %>%
  mutate(county_name = sapply(strsplit(NAME, ", "), `[`, 2))

summary_cluster <- acs_il_t %>%
  group_by(cluster) %>%
  summarize(
    mean_pop = mean(pop),
    mean_hh_income = mean(hh_income),
    mean_income = mean(income),
    most_frequent_county = names(sort(table(county_name), decreasing = TRUE)[1])
  )

summary_cluster
```

A tibble: 6 x 5 cluster mean_pop mean_hh_income mean_income most_frequent_county <int> <dbl> <dbl> <chr> <dbl> 1 45055. Cook County 1 4519. 92963. 2 2 3812. 135623. 77010. Cook County 3 3 24940. Cook County 5965. 53872. 4 4 2689. 32061. 17260. Cook County 5 5 3306. 58016. 29402. Cook County 6 6 11340. 93651. 39361. Will County

As you might have seen earlier, it's not always clear which number of clusters is the optimal choice. To automate K Means clustering, program a function based on kmeans() that takes K as an argument. You can fix the other arguments, e.g. such that a specific dataset is always used when calling the function.

```
km_func <- function(K) {
   set.seed(123)
   km <- kmeans(hclust_data2, centers = K, nstart = 20)
   return(km)
}</pre>
```

We want to utilize this function to iterate over multiple Ks (e.g., K = 2, ..., 10) and -- each time -- add the resulting cluster membership as a new variable to our (cleaned) original data frame (acs_il_t). There are multiple solutions for this task, e.g. think about the apply family or for loops.

```
cluster_list <- list()
for (K in 2:10) {
   km_result <- km_func(K)
   cluster_col_name <- paste("cluster ", K, sep = "")
   acs_il_t[cluster_col_name] <- km_result$cluster
   cluster_list[[K]] <- km_result
}</pre>
```

Finally, display the first rows of the updated data set (with multiple cluster columns).

```
head(acs_il_t)

state county tract

NAME pop

1 17 031 806002 Census Tract 8060.02, Cook County, Illinois 7304

2 17 031 806003 Census Tract 8060.03, Cook County, Illinois 7577

3 17 031 806400 Census Tract 8064, Cook County, Illinois 2684
```

```
4
           031 806501 Census Tract 8065.01, Cook County, Illinois 2590
     17
5
     17
           031 750600
                          Census Tract 7506, Cook County, Illinois 3594
6
     17
           031 310200
                          Census Tract 3102, Cook County, Illinois 1521
  hh_income income cluster county_name cluster 2 cluster 3 cluster 4 cluster 5
      56975
             23750
                          3 Cook County
                                                 2
                                                            3
                                                                      4
                                                                                 4
1
2
      53769
                          3 Cook County
                                                 2
                                                            3
                                                                      4
                                                                                 4
             25016
                                                            2
                                                                                 5
      62750 30154
                          5 Cook County
                                                 2
                                                                      1
3
                                                                      2
      53583 20282
                          5 Cook County
                                                 2
                                                            2
                                                                                 2
4
5
      40125 18347
                          4 Cook County
                                                 2
                                                            2
                                                                      2
                                                                                 2
                          5 Cook County
6
      63250
             31403
                                                 2
                                                            2
                                                                      1
                                                                                 5
  cluster 6 cluster 7 cluster 8 cluster 9 cluster 10
          3
                     6
                               3
                                          7
                                                     8
1
2
          3
                     6
                               3
                                          7
                                                     8
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