

Bivariate

Mapping Census 2000: The Geography of U.S. Diversity

Source: U.S. Census Bureau

Internet Release date: December 7, 2001

11 = less than 7.0 people per square mile AND a population loss

12 = 7.0 to 70.2 people per square mile AND a population loss

13 = 70.3 or more people per square mile AND a population loss

21 = less than 7.0 people per square mile AND a population gain of no more than 13.1%

22 = 7.0 to 70.2 people per square mile AND a population gain of no more than 13.1%

23 = 70.3 or more people per square mile AND a population gain of no more than 13.1%

31 = less than 7.0 people per square mile AND a population gain equal to or greater than 13.2%

32 = 7.0 to 70.2 people per square mile AND a population gain equal to or greater than 13.2%

33 = 70.3 or more people per square mile AND a population gain equal to or greater than 13.2%

FIPS	STATE	COUNTY	BIVARIATE CODE
00	USA		33
01	AL		23
02	AK		31
04	AZ		32
05	AR		32
06	CA		33
08	CO		32
09	CT		23
10	DE		33
11	DC		13
12	FL		33
13	GA		33
15	HI		23
16	ID		32
17	IL		23
18	IN		23
19	IA		22
20	KS		22
21	KY		23
22	LA		23
23	ME		22
24	MD		23
25	MA		23
26	MI		23
27	MN		22
28	MS		22
29	MO		23
30	MT		21
31	NE		22
32	NV		32
33	NH		23
34	NJ		23
35	NM		32
36	NY		23
37	NC		33
38	ND		22
39	OH		23
40	OK		22
41	OR		32
42	PA		23
44	RI		23
45	SC		33
46	SD		22
47	TN		33
48	TX		32
49	UT		32

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FIPS	STATE	COUNTY	BIVARIATE CODE
50	VT		22
51	VA		33
53	WA		33
54	WV		23
55	WI		23
56	WY		21
72	PR		23
01001	AL	Autauga County	32
01003	AL	Baldwin County	32
01005	AL	Barbour County	32
01007	AL	Bibb County	32
01009	AL	Blount County	32
01011	AL	Bullock County	22
01013	AL	Butler County	12
01015	AL	Calhoun County	13
01017	AL	Chambers County	12
01019	AL	Cherokee County	32
01021	AL	Chilton County	32
01023	AL	Choctaw County	12
01025	AL	Clarke County	22
01027	AL	Clay County	22
01029	AL	Cleburne County	22
01031	AL	Coffee County	22
01033	AL	Colbert County	23
01035	AL	Conecuh County	22
01037	AL	Coosa County	22
01039	AL	Covington County	22
01041	AL	Crenshaw County	22
01043	AL	Cullman County	33
01045	AL	Dale County	13
01047	AL	Dallas County	12
01049	AL	DeKalb County	32
01051	AL	Elmore County	33
01053	AL	Escambia County	22
01055	AL	Etowah County	23
01057	AL	Fayette County	22
01059	AL	Franklin County	22
01061	AL	Geneva County	22
01063	AL	Greene County	12
01065	AL	Hale County	22
01067	AL	Henry County	22
01069	AL	Houston County	23
01071	AL	Jackson County	22
01073	AL	Jefferson County	23
01075	AL	Lamar County	22
01077	AL	Lauderdale County	23
01079	AL	Lawrence County	22
01081	AL	Lee County	33
01083	AL	Limestone County	33
01085	AL	Lowndes County	22
01087	AL	Macon County	12
01089	AL	Madison County	33
01091	AL	Marengo County	12
01093	AL	Marion County	22
01095	AL	Marshall County	33
01097	AL	Mobile County	23
01099	AL	Monroe County	22
01101	AL	Montgomery County	23
01103	AL	Morgan County	23
01105	AL	Perry County	12
01107	AL	Pickens County	22
01109	AL	Pike County	22
01111	AL	Randolph County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
01113	AL	Russell County	23
01115	AL	St. Clair County	33
01117	AL	Shelby County	33
01119	AL	Sumter County	12
01121	AL	Talladega County	23
01123	AL	Tallapoosa County	22
01125	AL	Tuscaloosa County	23
01127	AL	Walker County	23
01129	AL	Washington County	22
01131	AL	Wilcox County	12
01133	AL	Winston County	22
02013	AK	Aleutians East Borough	21
02016	AK	Aleutians West Census Area	11
02020	AK	Anchorage Municipality	33
02050	AK	Bethel Census Area	31
02060	AK	Bristol Bay Borough	11
02068	AK	Denali Borough	21
02070	AK	Dillingham Census Area	31
02090	AK	Fairbanks North Star Borough	22
02100	AK	Haines Borough	21
02110	AK	Juneau City and Borough	32
02122	AK	Kenai Peninsula Borough	31
02130	AK	Ketchikan Gateway Borough	22
02150	AK	Kodiak Island Borough	21
02164	AK	Lake and Peninsula Borough	21
02170	AK	Matanuska-Susitna Borough	31
02180	AK	Nome Census Area	21
02185	AK	North Slope Borough	31
02188	AK	Northwest Arctic Borough	31
02201	AK	Prince of Wales-Outer Ketchikan Census	11
02220	AK	Sitka City and Borough	21
02232	AK	Skagway-Hoonah-Angoon Census Area	11
02240	AK	Southeast Fairbanks Census Area	21
02261	AK	Valdez-Cordova Census Area	21
02270	AK	Wade Hampton Census Area	31
02280	AK	Wrangell-Petersburg Census Area	11
02282	AK	Yakutat City and Borough	31
02290	AK	Yukon-Koyukuk Census Area	11
04001	AZ	Apache County	21
04003	AZ	Cochise County	32
04005	AZ	Coconino County	31
04007	AZ	Gila County	32
04009	AZ	Graham County	31
04011	AZ	Greenlee County	21
04012	AZ	La Paz County	31
04013	AZ	Maricopa County	33
04015	AZ	Mohave County	32
04017	AZ	Navajo County	32
04019	AZ	Pima County	33
04021	AZ	Pinal County	32
04023	AZ	Santa Cruz County	32
04025	AZ	Yavapai County	32
04027	AZ	Yuma County	32
05001	AR	Arkansas County	12
05003	AR	Ashley County	12
05005	AR	Baxter County	32
05007	AR	Benton County	33
05009	AR	Boone County	32
05011	AR	Bradley County	22
05013	AR	Calhoun County	12
05015	AR	Carroll County	32
05017	AR	Chicot County	12
05019	AR	Clark County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
05021	AR	Clay County	12
05023	AR	Cleburne County	32
05025	AR	Cleveland County	22
05027	AR	Columbia County	12
05029	AR	Conway County	22
05031	AR	Craighead County	33
05033	AR	Crawford County	33
05035	AR	Crittenden County	23
05037	AR	Cross County	22
05039	AR	Dallas County	12
05041	AR	Desha County	12
05043	AR	Drew County	22
05045	AR	Faulkner County	33
05047	AR	Franklin County	32
05049	AR	Fulton County	32
05051	AR	Garland County	33
05053	AR	Grant County	32
05055	AR	Greene County	32
05057	AR	Hempstead County	22
05059	AR	Hot Spring County	32
05061	AR	Howard County	22
05063	AR	Independence County	22
05065	AR	Izard County	32
05067	AR	Jackson County	12
05069	AR	Jefferson County	13
05071	AR	Johnson County	32
05073	AR	Lafayette County	12
05075	AR	Lawrence County	22
05077	AR	Lee County	12
05079	AR	Lincoln County	22
05081	AR	Little River County	12
05083	AR	Logan County	22
05085	AR	Lonoke County	32
05087	AR	Madison County	32
05089	AR	Marion County	32
05091	AR	Miller County	22
05093	AR	Mississippi County	12
05095	AR	Monroe County	12
05097	AR	Montgomery County	32
05099	AR	Nevada County	12
05101	AR	Newton County	22
05103	AR	Ouachita County	12
05105	AR	Perry County	32
05107	AR	Phillips County	12
05109	AR	Pike County	22
05111	AR	Poinsett County	22
05113	AR	Polk County	32
05115	AR	Pope County	32
05117	AR	Prairie County	22
05119	AR	Pulaski County	23
05121	AR	Randolph County	22
05123	AR	St. Francis County	22
05125	AR	Saline County	33
05127	AR	Scott County	22
05129	AR	Searcy County	22
05131	AR	Sebastian County	33
05133	AR	Sevier County	32
05135	AR	Sharp County	32
05137	AR	Stone County	32
05139	AR	Union County	12
05141	AR	Van Buren County	32
05143	AR	Washington County	33
05145	AR	White County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
05147	AR	Woodruff County	12
05149	AR	Yell County	32
06001	CA	Alameda County	23
06003	CA	Alpine County	21
06005	CA	Amador County	32
06007	CA	Butte County	23
06009	CA	Calaveras County	32
06011	CA	Colusa County	32
06013	CA	Contra Costa County	33
06015	CA	Del Norte County	32
06017	CA	El Dorado County	33
06019	CA	Fresno County	33
06021	CA	Glenn County	22
06023	CA	Humboldt County	22
06025	CA	Imperial County	32
06027	CA	Inyo County	11
06029	CA	Kern County	32
06031	CA	Kings County	33
06033	CA	Lake County	32
06035	CA	Lassen County	31
06037	CA	Los Angeles County	23
06039	CA	Madera County	32
06041	CA	Marin County	23
06043	CA	Mariposa County	32
06045	CA	Mendocino County	22
06047	CA	Merced County	33
06049	CA	Modoc County	11
06051	CA	Mono County	31
06053	CA	Monterey County	23
06055	CA	Napa County	23
06057	CA	Nevada County	33
06059	CA	Orange County	33
06061	CA	Placer County	33
06063	CA	Plumas County	22
06065	CA	Riverside County	33
06067	CA	Sacramento County	33
06069	CA	San Benito County	32
06071	CA	San Bernardino County	33
06073	CA	San Diego County	23
06075	CA	San Francisco County	23
06077	CA	San Joaquin County	33
06079	CA	San Luis Obispo County	32
06081	CA	San Mateo County	23
06083	CA	Santa Barbara County	23
06085	CA	Santa Clara County	23
06087	CA	Santa Cruz County	23
06089	CA	Shasta County	22
06091	CA	Sierra County	21
06093	CA	Siskiyou County	21
06095	CA	Solano County	33
06097	CA	Sonoma County	33
06099	CA	Stanislaus County	33
06101	CA	Sutter County	33
06103	CA	Tehama County	22
06105	CA	Trinity County	11
06107	CA	Tulare County	32
06109	CA	Tuolumne County	22
06111	CA	Ventura County	23
06113	CA	Yolo County	33
06115	CA	Yuba County	23
08001	CO	Adams County	33
08003	CO	Alamosa County	22
08005	CO	Arapahoe County	33

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FIPS	STATE	COUNTY	BIVARIATE CODE
08007	CO	Archuleta County	31
08009	CO	Baca County	11
08011	CO	Bent County	31
08013	CO	Boulder County	33
08015	CO	Chaffee County	32
08017	CO	Cheyenne County	11
08019	CO	Clear Creek County	32
08021	CO	Conejos County	21
08023	CO	Costilla County	31
08025	CO	Crowley County	31
08027	CO	Custer County	31
08029	CO	Delta County	32
08031	CO	Denver County	33
08033	CO	Dolores County	31
08035	CO	Douglas County	33
08037	CO	Eagle County	32
08039	CO	Elbert County	31
08041	CO	El Paso County	33
08043	CO	Fremont County	32
08045	CO	Garfield County	32
08047	CO	Gilpin County	32
08049	CO	Grand County	31
08051	CO	Gunnison County	31
08053	CO	Hinsdale County	31
08055	CO	Huerfano County	31
08057	CO	Jackson County	11
08059	CO	Jefferson County	33
08061	CO	Kiowa County	11
08063	CO	Kit Carson County	21
08065	CO	Lake County	32
08067	CO	La Plata County	32
08069	CO	Larimer County	33
08071	CO	Las Animas County	21
08073	CO	Lincoln County	31
08075	CO	Logan County	32
08077	CO	Mesa County	32
08079	CO	Mineral County	31
08081	CO	Moffat County	31
08083	CO	Montezuma County	32
08085	CO	Montrose County	32
08087	CO	Morgan County	32
08089	CO	Otero County	22
08091	CO	Ouray County	31
08093	CO	Park County	31
08095	CO	Phillips County	21
08097	CO	Pitkin County	32
08099	CO	Prowers County	22
08101	CO	Pueblo County	32
08103	CO	Rio Blanco County	21
08105	CO	Rio Grande County	32
08107	CO	Routt County	31
08109	CO	Saguache County	31
08111	CO	San Juan County	11
08113	CO	San Miguel County	31
08115	CO	Sedgwick County	21
08117	CO	Summit County	32
08119	CO	Teller County	32
08121	CO	Washington County	21
08123	CO	Weld County	32
08125	CO	Yuma County	21
09001	CT	Fairfield County	23
09003	CT	Hartford County	23
09005	CT	Litchfield County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
09007	CT	Middlesex County	23
09009	CT	New Haven County	23
09011	CT	New London County	23
09013	CT	Tolland County	23
09015	CT	Windham County	23
10001	DE	Kent County	33
10003	DE	New Castle County	33
10005	DE	Sussex County	33
11001	DC	District of Columbia	13
12001	FL	Alachua County	33
12003	FL	Baker County	32
12005	FL	Bay County	33
12007	FL	Bradford County	33
12009	FL	Brevard County	33
12011	FL	Broward County	33
12013	FL	Calhoun County	32
12015	FL	Charlotte County	33
12017	FL	Citrus County	33
12019	FL	Clay County	33
12021	FL	Collier County	33
12023	FL	Columbia County	32
12027	FL	DeSoto County	32
12029	FL	Dixie County	32
12031	FL	Duval County	33
12033	FL	Escambia County	23
12035	FL	Flagler County	32
12037	FL	Franklin County	32
12039	FL	Gadsden County	23
12041	FL	Gilchrist County	32
12043	FL	Glades County	32
12045	FL	Gulf County	32
12047	FL	Hamilton County	32
12049	FL	Hardee County	32
12051	FL	Hendry County	32
12053	FL	Hernando County	33
12055	FL	Highlands County	32
12057	FL	Hillsborough County	33
12059	FL	Holmes County	32
12061	FL	Indian River County	33
12063	FL	Jackson County	22
12065	FL	Jefferson County	32
12067	FL	Lafayette County	32
12069	FL	Lake County	33
12071	FL	Lee County	33
12073	FL	Leon County	33
12075	FL	Levy County	32
12077	FL	Liberty County	31
12079	FL	Madison County	22
12081	FL	Manatee County	33
12083	FL	Marion County	33
12085	FL	Martin County	33
12086	FL	Miami-Dade County	33
12087	FL	Monroe County	23
12089	FL	Nassau County	32
12091	FL	Okaloosa County	33
12093	FL	Okeechobee County	32
12095	FL	Orange County	33
12097	FL	Osceola County	33
12099	FL	Palm Beach County	33
12101	FL	Pasco County	33
12103	FL	Pinellas County	23
12105	FL	Polk County	33
12107	FL	Putnam County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
12109	FL	St. Johns County	33
12111	FL	St. Lucie County	33
12113	FL	Santa Rosa County	33
12115	FL	Sarasota County	33
12117	FL	Seminole County	33
12119	FL	Sumter County	32
12121	FL	Suwannee County	32
12123	FL	Taylor County	22
12125	FL	Union County	32
12127	FL	Volusia County	33
12129	FL	Wakulla County	32
12131	FL	Walton County	32
12133	FL	Washington County	32
13001	GA	Appling County	22
13003	GA	Atkinson County	32
13005	GA	Bacon County	22
13007	GA	Baker County	22
13009	GA	Baldwin County	23
13011	GA	Banks County	32
13013	GA	Barrow County	33
13015	GA	Bartow County	33
13017	GA	Ben Hill County	22
13019	GA	Berrien County	32
13021	GA	Bibb County	23
13023	GA	Bleckley County	22
13025	GA	Brantley County	32
13027	GA	Brooks County	22
13029	GA	Bryan County	32
13031	GA	Bulloch County	32
13033	GA	Burke County	22
13035	GA	Butts County	33
13037	GA	Calhoun County	32
13039	GA	Camden County	32
13043	GA	Candler County	32
13045	GA	Carroll County	33
13047	GA	Catoosa County	33
13049	GA	Charlton County	32
13051	GA	Chatham County	23
13053	GA	Chattahoochee County	12
13055	GA	Chattooga County	33
13057	GA	Cherokee County	33
13059	GA	Clarke County	33
13061	GA	Clay County	12
13063	GA	Clayton County	33
13065	GA	Clinch County	22
13067	GA	Cobb County	33
13069	GA	Coffee County	32
13071	GA	Colquitt County	32
13073	GA	Columbia County	33
13075	GA	Cook County	32
13077	GA	Coweta County	33
13079	GA	Crawford County	32
13081	GA	Crisp County	23
13083	GA	Dade County	33
13085	GA	Dawson County	32
13087	GA	Decatur County	22
13089	GA	DeKalb County	33
13091	GA	Dodge County	22
13093	GA	Dooly County	32
13095	GA	Dougherty County	13
13097	GA	Douglas County	33
13099	GA	Early County	22
13101	GA	Echols County	31

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FIPS	STATE	COUNTY	BIVARIATE CODE
13103	GA	Effingham County	32
13105	GA	Elbert County	22
13107	GA	Emanuel County	22
13109	GA	Evans County	32
13111	GA	Fannin County	32
13113	GA	Fayette County	33
13115	GA	Floyd County	23
13117	GA	Forsyth County	33
13119	GA	Franklin County	32
13121	GA	Fulton County	33
13123	GA	Gilmer County	32
13125	GA	Glascocock County	22
13127	GA	Glynn County	23
13129	GA	Gordon County	33
13131	GA	Grady County	32
13133	GA	Greene County	32
13135	GA	Gwinnett County	33
13137	GA	Habersham County	33
13139	GA	Hall County	33
13141	GA	Hancock County	22
13143	GA	Haralson County	33
13145	GA	Harris County	32
13147	GA	Hart County	33
13149	GA	Heard County	32
13151	GA	Henry County	33
13153	GA	Houston County	33
13155	GA	Irwin County	32
13157	GA	Jackson County	33
13159	GA	Jasper County	32
13161	GA	Jeff Davis County	22
13163	GA	Jefferson County	12
13165	GA	Jenkins County	22
13167	GA	Johnson County	22
13169	GA	Jones County	32
13171	GA	Lamar County	33
13173	GA	Lanier County	32
13175	GA	Laurens County	22
13177	GA	Lee County	32
13179	GA	Liberty County	33
13181	GA	Lincoln County	22
13183	GA	Long County	32
13185	GA	Lowndes County	33
13187	GA	Lumpkin County	32
13189	GA	McDuffie County	23
13191	GA	McIntosh County	32
13193	GA	Macon County	22
13195	GA	Madison County	33
13197	GA	Marion County	32
13199	GA	Meriwether County	22
13201	GA	Miller County	22
13205	GA	Mitchell County	32
13207	GA	Monroe County	32
13209	GA	Montgomery County	32
13211	GA	Morgan County	32
13213	GA	Murray County	33
13215	GA	Muscogee County	23
13217	GA	Newton County	33
13219	GA	Oconee County	33
13221	GA	Oglethorpe County	32
13223	GA	Paulding County	33
13225	GA	Peach County	23
13227	GA	Pickens County	32
13229	GA	Pierce County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
13231	GA	Pike County	32
13233	GA	Polk County	23
13235	GA	Pulaski County	32
13237	GA	Putnam County	32
13239	GA	Quitman County	32
13241	GA	Rabun County	32
13243	GA	Randolph County	12
13245	GA	Richmond County	23
13247	GA	Rockdale County	33
13249	GA	Schley County	22
13251	GA	Screven County	22
13253	GA	Seminole County	22
13255	GA	Spalding County	23
13257	GA	Stephens County	23
13259	GA	Stewart County	12
13261	GA	Sumter County	22
13263	GA	Talbot County	12
13265	GA	Taliaferro County	22
13267	GA	Tattnall County	32
13269	GA	Taylor County	32
13271	GA	Telfair County	22
13273	GA	Terrell County	22
13275	GA	Thomas County	23
13277	GA	Tift County	23
13279	GA	Toombs County	22
13281	GA	Towns County	32
13283	GA	Treutlen County	32
13285	GA	Troup County	23
13287	GA	Turner County	22
13289	GA	Twiggs County	22
13291	GA	Union County	32
13293	GA	Upton County	23
13295	GA	Walker County	23
13297	GA	Walton County	33
13299	GA	Ware County	22
13301	GA	Warren County	22
13303	GA	Washington County	22
13305	GA	Wayne County	32
13307	GA	Webster County	22
13309	GA	Wheeler County	32
13311	GA	White County	32
13313	GA	Whitfield County	33
13315	GA	Wilcox County	32
13317	GA	Wilkes County	22
13319	GA	Wilkinson County	12
13321	GA	Worth County	22
15001	HI	Hawaii County	32
15003	HI	Honolulu County	23
15005	HI	Kalawao County	22
15007	HI	Kauai County	33
15009	HI	Maui County	33
16001	ID	Ada County	33
16003	ID	Adams County	21
16005	ID	Bannock County	32
16007	ID	Bear Lake County	21
16009	ID	Benewah County	32
16011	ID	Bingham County	22
16013	ID	Blaine County	31
16015	ID	Boise County	31
16017	ID	Bonner County	32
16019	ID	Bonneville County	32
16021	ID	Boundary County	31
16023	ID	Butte County	11

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FIPS	STATE	COUNTY	BIVARIATE CODE
16025	ID	Camas County	31
16027	ID	Canyon County	33
16029	ID	Caribou County	21
16031	ID	Cassia County	22
16033	ID	Clark County	31
16035	ID	Clearwater County	21
16037	ID	Custer County	21
16039	ID	Elmore County	31
16041	ID	Franklin County	32
16043	ID	Fremont County	21
16045	ID	Gem County	32
16047	ID	Gooding County	32
16049	ID	Idaho County	21
16051	ID	Jefferson County	32
16053	ID	Jerome County	32
16055	ID	Kootenai County	32
16057	ID	Latah County	32
16059	ID	Lemhi County	21
16061	ID	Lewis County	22
16063	ID	Lincoln County	31
16065	ID	Madison County	32
16067	ID	Minidoka County	22
16069	ID	Nez Perce County	22
16071	ID	Oneida County	31
16073	ID	Owyhee County	31
16075	ID	Payette County	32
16077	ID	Power County	21
16079	ID	Shoshone County	11
16081	ID	Teton County	32
16083	ID	Twin Falls County	32
16085	ID	Valley County	31
16087	ID	Washington County	31
17001	IL	Adams County	23
17003	IL	Alexander County	12
17005	IL	Bond County	32
17007	IL	Boone County	33
17009	IL	Brown County	32
17011	IL	Bureau County	12
17013	IL	Calhoun County	12
17015	IL	Carroll County	12
17017	IL	Cass County	22
17019	IL	Champaign County	23
17021	IL	Christian County	22
17023	IL	Clark County	22
17025	IL	Clay County	22
17027	IL	Clinton County	23
17029	IL	Coles County	23
17031	IL	Cook County	23
17033	IL	Crawford County	22
17035	IL	Cumberland County	22
17037	IL	DeKalb County	33
17039	IL	De Witt County	22
17041	IL	Douglas County	22
17043	IL	DuPage County	33
17045	IL	Edgar County	22
17047	IL	Edwards County	12
17049	IL	Effingham County	22
17051	IL	Fayette County	22
17053	IL	Ford County	12
17055	IL	Franklin County	13
17057	IL	Fulton County	22
17059	IL	Gallatin County	12
17061	IL	Greene County	12

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FIPS	STATE	COUNTY	BIVARIATE CODE
17063	IL	Grundy County	33
17065	IL	Hamilton County	22
17067	IL	Hancock County	12
17069	IL	Hardin County	12
17071	IL	Henderson County	22
17073	IL	Henry County	12
17075	IL	Iroquois County	22
17077	IL	Jackson County	13
17079	IL	Jasper County	12
17081	IL	Jefferson County	22
17083	IL	Jersey County	22
17085	IL	Jo Daviess County	22
17087	IL	Johnson County	32
17089	IL	Kane County	33
17091	IL	Kankakee County	23
17093	IL	Kendall County	33
17095	IL	Knox County	13
17097	IL	Lake County	33
17099	IL	La Salle County	23
17101	IL	Lawrence County	12
17103	IL	Lee County	22
17105	IL	Livingston County	22
17107	IL	Logan County	22
17109	IL	McDonough County	12
17111	IL	McHenry County	33
17113	IL	McLean County	33
17115	IL	Macon County	13
17117	IL	Macoupin County	22
17119	IL	Madison County	23
17121	IL	Marion County	23
17123	IL	Marshall County	22
17125	IL	Mason County	12
17127	IL	Massac County	22
17129	IL	Menard County	22
17131	IL	Mercer County	12
17133	IL	Monroe County	32
17135	IL	Montgomery County	12
17137	IL	Morgan County	22
17139	IL	Moultrie County	22
17141	IL	Ogle County	22
17143	IL	Peoria County	23
17145	IL	Perry County	22
17147	IL	Piatt County	22
17149	IL	Pike County	12
17151	IL	Pope County	22
17153	IL	Pulaski County	12
17155	IL	Putnam County	22
17157	IL	Randolph County	12
17159	IL	Richland County	12
17161	IL	Rock Island County	23
17163	IL	St. Clair County	13
17165	IL	Saline County	22
17167	IL	Sangamon County	23
17169	IL	Schuyler County	12
17171	IL	Scott County	12
17173	IL	Shelby County	22
17175	IL	Stark County	12
17177	IL	Stephenson County	23
17179	IL	Tazewell County	23
17181	IL	Union County	22
17183	IL	Vermilion County	13
17185	IL	Wabash County	12
17187	IL	Warren County	12

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FIPS	STATE	COUNTY	BIVARIATE CODE
17189	IL	Washington County	22
17191	IL	Wayne County	12
17193	IL	White County	12
17195	IL	Whiteside County	23
17197	IL	Will County	33
17199	IL	Williamson County	23
17201	IL	Winnebago County	23
17203	IL	Woodford County	22
18001	IN	Adams County	23
18003	IN	Allen County	23
18005	IN	Bartholomew County	23
18007	IN	Benton County	12
18009	IN	Blackford County	13
18011	IN	Boone County	33
18013	IN	Brown County	22
18015	IN	Carroll County	22
18017	IN	Cass County	23
18019	IN	Clark County	23
18021	IN	Clay County	22
18023	IN	Clinton County	23
18025	IN	Crawford County	22
18027	IN	Daviess County	22
18029	IN	Dearborn County	33
18031	IN	Decatur County	22
18033	IN	DeKalb County	33
18035	IN	Delaware County	13
18037	IN	Dubois County	23
18039	IN	Elkhart County	33
18041	IN	Fayette County	13
18043	IN	Floyd County	23
18045	IN	Fountain County	22
18047	IN	Franklin County	22
18049	IN	Fulton County	22
18051	IN	Gibson County	22
18053	IN	Grant County	13
18055	IN	Greene County	22
18057	IN	Hamilton County	33
18059	IN	Hancock County	33
18061	IN	Harrison County	32
18063	IN	Hendricks County	33
18065	IN	Henry County	23
18067	IN	Howard County	23
18069	IN	Huntington County	23
18071	IN	Jackson County	23
18073	IN	Jasper County	32
18075	IN	Jay County	22
18077	IN	Jefferson County	23
18079	IN	Jennings County	32
18081	IN	Johnson County	33
18083	IN	Knox County	13
18085	IN	Kosciusko County	33
18087	IN	LaGrange County	33
18089	IN	Lake County	23
18091	IN	LaPorte County	23
18093	IN	Lawrence County	23
18095	IN	Madison County	23
18097	IN	Marion County	23
18099	IN	Marshall County	23
18101	IN	Martin County	22
18103	IN	Miami County	13
18105	IN	Monroe County	23
18107	IN	Montgomery County	22
18109	IN	Morgan County	33

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FIPS	STATE	COUNTY	BIVARIATE CODE
18111	IN	Newton County	22
18113	IN	Noble County	33
18115	IN	Ohio County	22
18117	IN	Orange County	22
18119	IN	Owen County	32
18121	IN	Parke County	22
18123	IN	Perry County	12
18125	IN	Pike County	22
18127	IN	Porter County	33
18129	IN	Posey County	22
18131	IN	Pulaski County	22
18133	IN	Putnam County	32
18135	IN	Randolph County	22
18137	IN	Ripley County	22
18139	IN	Rush County	22
18141	IN	St. Joseph County	23
18143	IN	Scott County	23
18145	IN	Shelby County	23
18147	IN	Spencer County	22
18149	IN	Starke County	23
18151	IN	Steuben County	33
18153	IN	Sullivan County	32
18155	IN	Switzerland County	32
18157	IN	Tippecanoe County	33
18159	IN	Tipton County	22
18161	IN	Union County	22
18163	IN	Vanderburgh County	23
18165	IN	Vermillion County	22
18167	IN	Vigo County	13
18169	IN	Wabash County	13
18171	IN	Warren County	22
18173	IN	Warrick County	33
18175	IN	Washington County	32
18177	IN	Wayne County	13
18179	IN	Wells County	22
18181	IN	White County	22
18183	IN	Whitley County	23
19001	IA	Adair County	12
19003	IA	Adams County	12
19005	IA	Allamakee County	22
19007	IA	Appanoose County	12
19009	IA	Audubon County	12
19011	IA	Benton County	22
19013	IA	Black Hawk County	23
19015	IA	Boone County	22
19017	IA	Bremer County	22
19019	IA	Buchanan County	22
19021	IA	Buena Vista County	22
19023	IA	Butler County	12
19025	IA	Calhoun County	12
19027	IA	Carroll County	12
19029	IA	Cass County	12
19031	IA	Cedar County	22
19033	IA	Cerro Gordo County	13
19035	IA	Cherokee County	12
19037	IA	Chickasaw County	12
19039	IA	Clarke County	22
19041	IA	Clay County	12
19043	IA	Clayton County	12
19045	IA	Clinton County	13
19047	IA	Crawford County	22
19049	IA	Dallas County	32
19051	IA	Davis County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
19053	IA	Decatur County	22
19055	IA	Delaware County	22
19057	IA	Des Moines County	13
19059	IA	Dickinson County	22
19061	IA	Dubuque County	23
19063	IA	Emmet County	12
19065	IA	Fayette County	22
19067	IA	Floyd County	12
19069	IA	Franklin County	12
19071	IA	Fremont County	12
19073	IA	Greene County	22
19075	IA	Grundy County	22
19077	IA	Guthrie County	22
19079	IA	Hamilton County	22
19081	IA	Hancock County	12
19083	IA	Hardin County	12
19085	IA	Harrison County	22
19087	IA	Henry County	22
19089	IA	Howard County	22
19091	IA	Humboldt County	12
19093	IA	Ida County	12
19095	IA	Iowa County	22
19097	IA	Jackson County	22
19099	IA	Jasper County	22
19101	IA	Jefferson County	12
19103	IA	Johnson County	33
19105	IA	Jones County	22
19107	IA	Keokuk County	12
19109	IA	Kossuth County	12
19111	IA	Lee County	13
19113	IA	Linn County	33
19115	IA	Louisa County	22
19117	IA	Lucas County	22
19119	IA	Lyon County	12
19121	IA	Madison County	22
19123	IA	Mahaska County	22
19125	IA	Marion County	22
19127	IA	Marshall County	22
19129	IA	Mills County	22
19131	IA	Mitchell County	12
19133	IA	Monona County	12
19135	IA	Monroe County	12
19137	IA	Montgomery County	12
19139	IA	Muscatine County	23
19141	IA	O'Brien County	12
19143	IA	Osceola County	12
19145	IA	Page County	22
19147	IA	Palo Alto County	12
19149	IA	Plymouth County	22
19151	IA	Pocahontas County	12
19153	IA	Polk County	33
19155	IA	Pottawattamie County	23
19157	IA	Poweshiek County	12
19159	IA	Ringgold County	22
19161	IA	Sac County	12
19163	IA	Scott County	23
19165	IA	Shelby County	12
19167	IA	Sioux County	22
19169	IA	Story County	23
19171	IA	Tama County	22
19173	IA	Taylor County	12
19175	IA	Union County	12
19177	IA	Van Buren County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
19179	IA	Wapello County	23
19181	IA	Warren County	22
19183	IA	Washington County	22
19185	IA	Wayne County	12
19187	IA	Webster County	12
19189	IA	Winnebago County	12
19191	IA	Winneshiek County	22
19193	IA	Woodbury County	23
19195	IA	Worth County	12
19197	IA	Wright County	22
20001	KS	Allen County	12
20003	KS	Anderson County	22
20005	KS	Atchison County	12
20007	KS	Barber County	11
20009	KS	Barton County	12
20011	KS	Bourbon County	22
20013	KS	Brown County	12
20015	KS	Butler County	32
20017	KS	Chase County	21
20019	KS	Chautauqua County	11
20021	KS	Cherokee County	22
20023	KS	Cheyenne County	11
20025	KS	Clark County	11
20027	KS	Clay County	12
20029	KS	Cloud County	12
20031	KS	Coffey County	22
20033	KS	Comanche County	11
20035	KS	Cowley County	12
20037	KS	Crawford County	22
20039	KS	Decatur County	11
20041	KS	Dickinson County	22
20043	KS	Doniphan County	22
20045	KS	Douglas County	33
20047	KS	Edwards County	11
20049	KS	Elk County	11
20051	KS	Ellis County	22
20053	KS	Ellsworth County	12
20055	KS	Finney County	32
20057	KS	Ford County	32
20059	KS	Franklin County	22
20061	KS	Geary County	13
20063	KS	Gove County	11
20065	KS	Graham County	11
20067	KS	Grant County	22
20069	KS	Gray County	21
20071	KS	Greeley County	11
20073	KS	Greenwood County	11
20075	KS	Hamilton County	21
20077	KS	Harper County	12
20079	KS	Harvey County	22
20081	KS	Haskell County	21
20083	KS	Hodgeman County	11
20085	KS	Jackson County	22
20087	KS	Jefferson County	32
20089	KS	Jewell County	11
20091	KS	Johnson County	33
20093	KS	Kearny County	21
20095	KS	Kingman County	22
20097	KS	Kiowa County	11
20099	KS	Labette County	12
20101	KS	Lane County	11
20103	KS	Leavenworth County	23
20105	KS	Lincoln County	11

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FIPS	STATE	COUNTY	BIVARIATE CODE
20107	KS	Linn County	32
20109	KS	Logan County	11
20111	KS	Lyon County	22
20113	KS	McPherson County	22
20115	KS	Marion County	22
20117	KS	Marshall County	12
20119	KS	Meade County	21
20121	KS	Miami County	32
20123	KS	Mitchell County	12
20125	KS	Montgomery County	12
20127	KS	Morris County	12
20129	KS	Morton County	21
20131	KS	Nemaha County	22
20133	KS	Neosho County	12
20135	KS	Ness County	11
20137	KS	Norton County	21
20139	KS	Osage County	22
20141	KS	Osborne County	11
20143	KS	Ottawa County	22
20145	KS	Pawnee County	12
20147	KS	Phillips County	12
20149	KS	Pottawatomie County	22
20151	KS	Pratt County	12
20153	KS	Rawlins County	11
20155	KS	Reno County	22
20157	KS	Republic County	12
20159	KS	Rice County	22
20161	KS	Riley County	13
20163	KS	Rooks County	11
20165	KS	Rush County	11
20167	KS	Russell County	12
20169	KS	Saline County	22
20171	KS	Scott County	12
20173	KS	Sedgwick County	23
20175	KS	Seward County	32
20177	KS	Shawnee County	23
20179	KS	Sheridan County	11
20181	KS	Sherman County	11
20183	KS	Smith County	11
20185	KS	Stafford County	11
20187	KS	Stanton County	21
20189	KS	Stevens County	21
20191	KS	Sumner County	22
20193	KS	Thomas County	12
20195	KS	Trego County	11
20197	KS	Wabaunsee County	22
20199	KS	Wallace County	11
20201	KS	Washington County	12
20203	KS	Wichita County	11
20205	KS	Wilson County	22
20207	KS	Woodson County	12
20209	KS	Wyandotte County	13
21001	KY	Adair County	22
21003	KY	Allen County	32
21005	KY	Anderson County	33
21007	KY	Ballard County	22
21009	KY	Barren County	22
21011	KY	Bath County	32
21013	KY	Bell County	13
21015	KY	Boone County	33
21017	KY	Bourbon County	22
21019	KY	Boyd County	13
21021	KY	Boyle County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
21023	KY	Bracken County	22
21025	KY	Breathitt County	22
21027	KY	Breckinridge County	32
21029	KY	Bullitt County	33
21031	KY	Butler County	32
21033	KY	Caldwell County	12
21035	KY	Calloway County	23
21037	KY	Campbell County	23
21039	KY	Carlisle County	22
21041	KY	Carroll County	23
21043	KY	Carter County	22
21045	KY	Casey County	22
21047	KY	Christian County	23
21049	KY	Clark County	23
21051	KY	Clay County	22
21053	KY	Clinton County	22
21055	KY	Crittenden County	22
21057	KY	Cumberland County	22
21059	KY	Daviess County	23
21061	KY	Edmonson County	22
21063	KY	Elliott County	22
21065	KY	Estill County	22
21067	KY	Fayette County	33
21069	KY	Fleming County	22
21071	KY	Floyd County	13
21073	KY	Franklin County	23
21075	KY	Fulton County	12
21077	KY	Gallatin County	32
21079	KY	Garrard County	32
21081	KY	Grant County	32
21083	KY	Graves County	22
21085	KY	Grayson County	32
21087	KY	Green County	22
21089	KY	Greenup County	23
21091	KY	Hancock County	22
21093	KY	Hardin County	23
21095	KY	Harlan County	13
21097	KY	Harrison County	22
21099	KY	Hart County	32
21101	KY	Henderson County	23
21103	KY	Henry County	32
21105	KY	Hickman County	12
21107	KY	Hopkins County	23
21109	KY	Jackson County	22
21111	KY	Jefferson County	23
21113	KY	Jessamine County	33
21115	KY	Johnson County	23
21117	KY	Kenton County	23
21119	KY	Knott County	12
21121	KY	Knox County	23
21123	KY	Larue County	32
21125	KY	Laurel County	33
21127	KY	Lawrence County	22
21129	KY	Lee County	22
21131	KY	Leslie County	12
21133	KY	Letcher County	13
21135	KY	Lewis County	22
21137	KY	Lincoln County	32
21139	KY	Livingston County	22
21141	KY	Logan County	22
21143	KY	Lyon County	32
21145	KY	McCracken County	23
21147	KY	McCreary County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
21149	KY	McLean County	22
21151	KY	Madison County	33
21153	KY	Magoffin County	22
21155	KY	Marion County	22
21157	KY	Marshall County	23
21159	KY	Martin County	22
21161	KY	Mason County	22
21163	KY	Meade County	23
21165	KY	Menifee County	32
21167	KY	Mercer County	23
21169	KY	Metcalfe County	22
21171	KY	Monroe County	22
21173	KY	Montgomery County	33
21175	KY	Morgan County	32
21177	KY	Muhlenberg County	22
21179	KY	Nelson County	32
21181	KY	Nicholas County	22
21183	KY	Ohio County	22
21185	KY	Oldham County	33
21187	KY	Owen County	32
21189	KY	Owsley County	12
21191	KY	Pendleton County	32
21193	KY	Perry County	13
21195	KY	Pike County	13
21197	KY	Powell County	32
21199	KY	Pulaski County	33
21201	KY	Robertson County	22
21203	KY	Rockcastle County	22
21205	KY	Rowan County	23
21207	KY	Russell County	22
21209	KY	Scott County	33
21211	KY	Shelby County	32
21213	KY	Simpson County	22
21215	KY	Spencer County	32
21217	KY	Taylor County	23
21219	KY	Todd County	22
21221	KY	Trigg County	32
21223	KY	Trimble County	32
21225	KY	Union County	12
21227	KY	Warren County	33
21229	KY	Washington County	22
21231	KY	Wayne County	32
21233	KY	Webster County	22
21235	KY	Whitley County	23
21237	KY	Wolfe County	22
21239	KY	Woodford County	33
22001	LA	Acadia Parish	23
22003	LA	Allen Parish	32
22005	LA	Ascension Parish	33
22007	LA	Assumption Parish	22
22009	LA	Avoyelles Parish	22
22011	LA	Beauregard Parish	22
22013	LA	Bienville Parish	12
22015	LA	Bossier Parish	33
22017	LA	Caddo Parish	23
22019	LA	Calcasieu Parish	23
22021	LA	Caldwell Parish	22
22023	LA	Cameron Parish	22
22025	LA	Catahoula Parish	12
22027	LA	Claiborne Parish	12
22029	LA	Concordia Parish	12
22031	LA	De Soto Parish	22
22033	LA	East Baton Rouge Parish	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
22035	LA	East Carroll Parish	12
22037	LA	East Feliciana Parish	22
22039	LA	Evangeline Parish	22
22041	LA	Franklin Parish	12
22043	LA	Grant Parish	22
22045	LA	Iberia Parish	23
22047	LA	Iberville Parish	22
22049	LA	Jackson Parish	12
22051	LA	Jefferson Parish	23
22053	LA	Jefferson Davis Parish	22
22055	LA	Lafayette Parish	33
22057	LA	Lafourche Parish	23
22059	LA	La Salle Parish	22
22061	LA	Lincoln Parish	23
22063	LA	Livingston Parish	33
22065	LA	Madison Parish	22
22067	LA	Morehouse Parish	12
22069	LA	Natchitoches Parish	22
22071	LA	Orleans Parish	13
22073	LA	Ouachita Parish	23
22075	LA	Plaquemines Parish	22
22077	LA	Pointe Coupee Parish	22
22079	LA	Rapides Parish	13
22081	LA	Red River Parish	22
22083	LA	Richland Parish	22
22085	LA	Sabine Parish	22
22087	LA	St. Bernard Parish	23
22089	LA	St. Charles Parish	33
22091	LA	St. Helena Parish	22
22093	LA	St. James Parish	23
22095	LA	St. John the Baptist Parish	23
22097	LA	St. Landry Parish	23
22099	LA	St. Martin Parish	22
22101	LA	St. Mary Parish	13
22103	LA	St. Tammany Parish	33
22105	LA	Tangipahoa Parish	33
22107	LA	Tensas Parish	12
22109	LA	Terrebonne Parish	23
22111	LA	Union Parish	22
22113	LA	Vermilion Parish	22
22115	LA	Vernon Parish	12
22117	LA	Washington Parish	22
22119	LA	Webster Parish	13
22121	LA	West Baton Rouge Parish	23
22123	LA	West Carroll Parish	22
22125	LA	West Feliciana Parish	32
22127	LA	Winn Parish	22
23001	ME	Androscoggin County	13
23003	ME	Aroostook County	12
23005	ME	Cumberland County	23
23007	ME	Franklin County	22
23009	ME	Hancock County	22
23011	ME	Kennebec County	23
23013	ME	Knox County	23
23015	ME	Lincoln County	22
23017	ME	Oxford County	22
23019	ME	Penobscot County	12
23021	ME	Piscataquis County	11
23023	ME	Sagadahoc County	23
23025	ME	Somerset County	22
23027	ME	Waldo County	22
23029	ME	Washington County	12
23031	ME	York County	33

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FIPS	STATE	COUNTY	BIVARIATE CODE
24001	MD	Allegany County	13
24003	MD	Anne Arundel County	33
24005	MD	Baltimore County	23
24009	MD	Calvert County	33
24011	MD	Caroline County	23
24013	MD	Carroll County	33
24015	MD	Cecil County	33
24017	MD	Charles County	33
24019	MD	Dorchester County	22
24021	MD	Frederick County	33
24023	MD	Garrett County	22
24025	MD	Harford County	33
24027	MD	Howard County	33
24029	MD	Kent County	22
24031	MD	Montgomery County	33
24033	MD	Prince George's County	23
24035	MD	Queen Anne's County	33
24037	MD	St. Mary's County	33
24039	MD	Somerset County	23
24041	MD	Talbot County	23
24043	MD	Washington County	23
24045	MD	Wicomico County	33
24047	MD	Worcester County	33
24510	MD	Baltimore city	13
25001	MA	Barnstable County	33
25003	MA	Berkshire County	13
25005	MA	Bristol County	23
25007	MA	Dukes County	33
25009	MA	Essex County	23
25011	MA	Franklin County	23
25013	MA	Hampden County	13
25015	MA	Hampshire County	23
25017	MA	Middlesex County	23
25019	MA	Nantucket County	33
25021	MA	Norfolk County	23
25023	MA	Plymouth County	23
25025	MA	Suffolk County	23
25027	MA	Worcester County	23
26001	MI	Alcona County	32
26003	MI	Alger County	22
26005	MI	Allegan County	33
26007	MI	Alpena County	22
26009	MI	Antrim County	32
26011	MI	Arenac County	32
26013	MI	Baraga County	22
26015	MI	Barry County	33
26017	MI	Bay County	13
26019	MI	Benzie County	32
26021	MI	Berrien County	23
26023	MI	Branch County	23
26025	MI	Calhoun County	23
26027	MI	Cass County	23
26029	MI	Charlevoix County	32
26031	MI	Cheboygan County	32
26033	MI	Chippewa County	22
26035	MI	Clare County	32
26037	MI	Clinton County	23
26039	MI	Crawford County	32
26041	MI	Delta County	22
26043	MI	Dickinson County	22
26045	MI	Eaton County	23
26047	MI	Emmet County	32
26049	MI	Genesee County	23

Bivariate

FIPS	STATE	COUNTY	BIVARIATE CODE
26051	MI	Gladwin County	32
26053	MI	Gogebic County	12
26055	MI	Grand Traverse County	33
26057	MI	Gratiot County	22
26059	MI	Hillsdale County	23
26061	MI	Houghton County	22
26063	MI	Huron County	22
26065	MI	Ingham County	13
26067	MI	Ionia County	23
26069	MI	Iosco County	12
26071	MI	Iron County	12
26073	MI	Isabella County	33
26075	MI	Jackson County	23
26077	MI	Kalamazoo County	23
26079	MI	Kalkaska County	32
26081	MI	Kent County	33
26083	MI	Keweenaw County	31
26085	MI	Lake County	32
26087	MI	Lapeer County	33
26089	MI	Leelanau County	32
26091	MI	Lenawee County	23
26093	MI	Livingston County	33
26095	MI	Luce County	31
26097	MI	Mackinac County	22
26099	MI	Macomb County	23
26101	MI	Manistee County	32
26103	MI	Marquette County	12
26105	MI	Mason County	22
26107	MI	Mecosta County	22
26109	MI	Menominee County	22
26111	MI	Midland County	23
26113	MI	Missaukee County	32
26115	MI	Monroe County	23
26117	MI	Montcalm County	33
26119	MI	Montmorency County	32
26121	MI	Muskegon County	23
26123	MI	Newaygo County	32
26125	MI	Oakland County	23
26127	MI	Oceana County	32
26129	MI	Ogemaw County	32
26131	MI	Ontonagon County	11
26133	MI	Osceola County	32
26135	MI	Oscoda County	32
26137	MI	Otsego County	32
26139	MI	Ottawa County	33
26141	MI	Presque Isle County	22
26143	MI	Roscommon County	32
26145	MI	Saginaw County	13
26147	MI	St. Clair County	23
26149	MI	St. Joseph County	23
26151	MI	Sanilac County	22
26153	MI	Schoolcraft County	22
26155	MI	Shiawassee County	23
26157	MI	Tuscola County	22
26159	MI	Van Buren County	23
26161	MI	Washtenaw County	33
26163	MI	Wayne County	13
26165	MI	Wexford County	32
27001	MN	Aitkin County	31
27003	MN	Anoka County	33
27005	MN	Becker County	22
27007	MN	Beltrami County	32
27009	MN	Benton County	33

Bivariate

FIPS	STATE	COUNTY	BIVARIATE CODE
27011	MN	Big Stone County	12
27013	MN	Blue Earth County	23
27015	MN	Brown County	12
27017	MN	Carlton County	22
27019	MN	Carver County	33
27021	MN	Cass County	32
27023	MN	Chippewa County	12
27025	MN	Chisago County	33
27027	MN	Clay County	22
27029	MN	Clearwater County	22
27031	MN	Cook County	31
27033	MN	Cottonwood County	12
27035	MN	Crow Wing County	32
27037	MN	Dakota County	33
27039	MN	Dodge County	22
27041	MN	Douglas County	32
27043	MN	Faribault County	12
27045	MN	Fillmore County	22
27047	MN	Freeborn County	12
27049	MN	Goodhue County	22
27051	MN	Grant County	22
27053	MN	Hennepin County	23
27055	MN	Houston County	22
27057	MN	Hubbard County	32
27059	MN	Isanti County	32
27061	MN	Itasca County	22
27063	MN	Jackson County	12
27065	MN	Kanabec County	32
27067	MN	Kandiyohi County	22
27069	MN	Kittson County	11
27071	MN	Koochiching County	11
27073	MN	Lac qui Parle County	12
27075	MN	Lake County	21
27077	MN	Lake of the Woods County	21
27079	MN	Le Sueur County	22
27081	MN	Lincoln County	12
27083	MN	Lyon County	22
27085	MN	McLeod County	22
27087	MN	Mahnomen County	22
27089	MN	Marshall County	11
27091	MN	Martin County	12
27093	MN	Meeker County	22
27095	MN	Mille Lacs County	32
27097	MN	Morrison County	22
27099	MN	Mower County	22
27101	MN	Murray County	12
27103	MN	Nicollet County	22
27105	MN	Nobles County	22
27107	MN	Norman County	12
27109	MN	Olmsted County	33
27111	MN	Otter Tail County	22
27113	MN	Pennington County	22
27115	MN	Pine County	32
27117	MN	Pipestone County	12
27119	MN	Polk County	12
27121	MN	Pope County	22
27123	MN	Ramsey County	23
27125	MN	Red Lake County	12
27127	MN	Redwood County	12
27129	MN	Renville County	12
27131	MN	Rice County	33
27133	MN	Rock County	12
27135	MN	Roseau County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
27137	MN	St. Louis County	22
27139	MN	Scott County	33
27141	MN	Sherburne County	33
27143	MN	Sibley County	22
27145	MN	Stearns County	23
27147	MN	Steele County	23
27149	MN	Stevens County	12
27151	MN	Swift County	22
27153	MN	Todd County	22
27155	MN	Traverse County	12
27157	MN	Wabasha County	22
27159	MN	Wadena County	22
27161	MN	Waseca County	22
27163	MN	Washington County	33
27165	MN	Watsonwan County	22
27167	MN	Wilkin County	12
27169	MN	Winona County	23
27171	MN	Wright County	33
27173	MN	Yellow Medicine County	12
28001	MS	Adams County	13
28003	MS	Alcorn County	23
28005	MS	Amite County	22
28007	MS	Attala County	22
28009	MS	Benton County	12
28011	MS	Bolivar County	12
28013	MS	Calhoun County	22
28015	MS	Carroll County	32
28017	MS	Chickasaw County	22
28019	MS	Choctaw County	22
28021	MS	Claiborne County	22
28023	MS	Clarke County	22
28025	MS	Clay County	22
28027	MS	Coahoma County	12
28029	MS	Copiah County	22
28031	MS	Covington County	32
28033	MS	DeSoto County	33
28035	MS	Forrest County	23
28037	MS	Franklin County	22
28039	MS	George County	32
28041	MS	Greene County	32
28043	MS	Grenada County	22
28045	MS	Hancock County	32
28047	MS	Harrison County	33
28049	MS	Hinds County	13
28051	MS	Holmes County	22
28053	MS	Humphreys County	12
28055	MS	Issaquena County	31
28057	MS	Itawamba County	32
28059	MS	Jackson County	33
28061	MS	Jasper County	22
28063	MS	Jefferson County	22
28065	MS	Jefferson Davis County	12
28067	MS	Jones County	23
28069	MS	Kemper County	22
28071	MS	Lafayette County	32
28073	MS	Lamar County	32
28075	MS	Lauderdale County	23
28077	MS	Lawrence County	22
28079	MS	Leake County	32
28081	MS	Lee County	33
28083	MS	Leflore County	22
28085	MS	Lincoln County	22
28087	MS	Lowndes County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
28089	MS	Madison County	33
28091	MS	Marion County	22
28093	MS	Marshall County	32
28095	MS	Monroe County	22
28097	MS	Montgomery County	12
28099	MS	Neshoba County	32
28101	MS	Newton County	22
28103	MS	Noxubee County	12
28105	MS	Oktibbeha County	23
28107	MS	Panola County	32
28109	MS	Pearl River County	32
28111	MS	Perry County	22
28113	MS	Pike County	23
28115	MS	Pontotoc County	32
28117	MS	Prentiss County	22
28119	MS	Quitman County	12
28121	MS	Rankin County	33
28123	MS	Scott County	32
28125	MS	Sharkey County	12
28127	MS	Simpson County	32
28129	MS	Smith County	22
28131	MS	Stone County	32
28133	MS	Sunflower County	22
28135	MS	Tallahatchie County	12
28137	MS	Tate County	32
28139	MS	Tippah County	22
28141	MS	Tishomingo County	22
28143	MS	Tunica County	22
28145	MS	Union County	32
28147	MS	Walthall County	22
28149	MS	Warren County	23
28151	MS	Washington County	13
28153	MS	Wayne County	22
28155	MS	Webster County	22
28157	MS	Wilkinson County	22
28159	MS	Winston County	22
28161	MS	Yalobusha County	22
28163	MS	Yazoo County	22
29001	MO	Adair County	22
29003	MO	Andrew County	22
29005	MO	Atchison County	12
29007	MO	Audrain County	22
29009	MO	Barry County	32
29011	MO	Barton County	22
29013	MO	Bates County	22
29015	MO	Benton County	32
29017	MO	Bollinger County	32
29019	MO	Boone County	33
29021	MO	Buchanan County	23
29023	MO	Butler County	22
29025	MO	Caldwell County	22
29027	MO	Callaway County	32
29029	MO	Camden County	32
29031	MO	Cape Girardeau County	23
29033	MO	Carroll County	12
29035	MO	Carter County	22
29037	MO	Cass County	33
29039	MO	Cedar County	32
29041	MO	Chariton County	12
29043	MO	Christian County	32
29045	MO	Clark County	12
29047	MO	Clay County	33
29049	MO	Clinton County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
29051	MO	Cole County	23
29053	MO	Cooper County	22
29055	MO	Crawford County	32
29057	MO	Dade County	22
29059	MO	Dallas County	32
29061	MO	Daviess County	22
29063	MO	DeKalb County	32
29065	MO	Dent County	22
29067	MO	Douglas County	22
29069	MO	Dunklin County	22
29071	MO	Franklin County	33
29073	MO	Gasconade County	22
29075	MO	Gentry County	22
29077	MO	Greene County	33
29079	MO	Grundy County	12
29081	MO	Harrison County	22
29083	MO	Henry County	22
29085	MO	Hickory County	32
29087	MO	Holt County	12
29089	MO	Howard County	22
29091	MO	Howell County	32
29093	MO	Iron County	12
29095	MO	Jackson County	23
29097	MO	Jasper County	33
29099	MO	Jefferson County	33
29101	MO	Johnson County	32
29103	MO	Knox County	12
29105	MO	Laclede County	32
29107	MO	Lafayette County	22
29109	MO	Lawrence County	32
29111	MO	Lewis County	22
29113	MO	Lincoln County	32
29115	MO	Linn County	12
29117	MO	Livingston County	12
29119	MO	McDonald County	32
29121	MO	Macon County	22
29123	MO	Madison County	22
29125	MO	Maries County	22
29127	MO	Marion County	22
29129	MO	Mercer County	22
29131	MO	Miller County	32
29133	MO	Mississippi County	12
29135	MO	Moniteau County	32
29137	MO	Monroe County	22
29139	MO	Montgomery County	22
29141	MO	Morgan County	32
29143	MO	New Madrid County	12
29145	MO	Newton County	33
29147	MO	Nodaway County	22
29149	MO	Oregon County	22
29151	MO	Osage County	22
29153	MO	Ozark County	22
29155	MO	Pemiscot County	12
29157	MO	Perry County	22
29159	MO	Pettis County	22
29161	MO	Phelps County	22
29163	MO	Pike County	32
29165	MO	Platte County	33
29167	MO	Polk County	32
29169	MO	Pulaski County	13
29171	MO	Putnam County	22
29173	MO	Ralls County	32
29175	MO	Randolph County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
29177	MO	Ray County	22
29179	MO	Reynolds County	22
29181	MO	Ripley County	22
29183	MO	St. Charles County	33
29185	MO	St. Clair County	32
29186	MO	Ste. Genevieve County	22
29187	MO	St. Francois County	33
29189	MO	St. Louis County	23
29195	MO	Saline County	22
29197	MO	Schuyler County	12
29199	MO	Scotland County	22
29201	MO	Scott County	23
29203	MO	Shannon County	22
29205	MO	Shelby County	12
29207	MO	Stoddard County	22
29209	MO	Stone County	32
29211	MO	Sullivan County	32
29213	MO	Taney County	32
29215	MO	Texas County	22
29217	MO	Vernon County	22
29219	MO	Warren County	32
29221	MO	Washington County	32
29223	MO	Wayne County	32
29225	MO	Webster County	32
29227	MO	Worth County	12
29229	MO	Wright County	22
29510	MO	St. Louis city	13
30001	MT	Beaverhead County	21
30003	MT	Big Horn County	21
30005	MT	Blaine County	21
30007	MT	Broadwater County	31
30009	MT	Carbon County	31
30011	MT	Carter County	11
30013	MT	Cascade County	22
30015	MT	Chouteau County	21
30017	MT	Custer County	11
30019	MT	Daniels County	11
30021	MT	Dawson County	11
30023	MT	Deer Lodge County	12
30025	MT	Fallon County	11
30027	MT	Fergus County	11
30029	MT	Flathead County	32
30031	MT	Gallatin County	32
30033	MT	Garfield County	11
30035	MT	Glacier County	21
30037	MT	Golden Valley County	31
30039	MT	Granite County	21
30041	MT	Hill County	11
30043	MT	Jefferson County	31
30045	MT	Judith Basin County	21
30047	MT	Lake County	32
30049	MT	Lewis and Clark County	32
30051	MT	Liberty County	11
30053	MT	Lincoln County	21
30055	MT	McCone County	11
30057	MT	Madison County	31
30059	MT	Meagher County	21
30061	MT	Mineral County	31
30063	MT	Missoula County	32
30065	MT	Musselshell County	21
30067	MT	Park County	21
30069	MT	Petroleum County	11
30071	MT	Phillips County	11

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FIPS	STATE	COUNTY	BIVARIATE CODE
30073	MT	Pondera County	11
30075	MT	Powder River County	11
30077	MT	Powell County	21
30079	MT	Prairie County	11
30081	MT	Ravalli County	32
30083	MT	Richland County	11
30085	MT	Roosevelt County	11
30087	MT	Rosebud County	11
30089	MT	Sanders County	31
30091	MT	Sheridan County	11
30093	MT	Silver Bow County	22
30095	MT	Stillwater County	31
30097	MT	Sweet Grass County	31
30099	MT	Teton County	21
30101	MT	Toole County	21
30103	MT	Treasure County	11
30105	MT	Valley County	11
30107	MT	Wheatland County	21
30109	MT	Wibaux County	11
30111	MT	Yellowstone County	32
31001	NE	Adams County	22
31003	NE	Antelope County	12
31005	NE	Arthur County	11
31007	NE	Banner County	11
31009	NE	Blaine County	11
31011	NE	Boone County	12
31013	NE	Box Butte County	12
31015	NE	Boyd County	11
31017	NE	Brown County	11
31019	NE	Buffalo County	22
31021	NE	Burt County	12
31023	NE	Butler County	22
31025	NE	Cass County	32
31027	NE	Cedar County	12
31029	NE	Chase County	11
31031	NE	Cherry County	11
31033	NE	Cheyenne County	22
31035	NE	Clay County	12
31037	NE	Colfax County	32
31039	NE	Cuming County	22
31041	NE	Custer County	11
31043	NE	Dakota County	32
31045	NE	Dawes County	21
31047	NE	Dawson County	32
31049	NE	Deuel County	11
31051	NE	Dixon County	22
31053	NE	Dodge County	22
31055	NE	Douglas County	23
31057	NE	Dundy County	11
31059	NE	Fillmore County	12
31061	NE	Franklin County	11
31063	NE	Frontier County	11
31065	NE	Furnas County	12
31067	NE	Gage County	22
31069	NE	Garden County	11
31071	NE	Garfield County	11
31073	NE	Gosper County	21
31075	NE	Grant County	11
31077	NE	Greeley County	11
31079	NE	Hall County	23
31081	NE	Hamilton County	22
31083	NE	Harlan County	11
31085	NE	Hayes County	11

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FIPS	STATE	COUNTY	BIVARIATE CODE
31087	NE	Hitchcock County	11
31089	NE	Holt County	11
31091	NE	Hooker County	11
31093	NE	Howard County	22
31095	NE	Jefferson County	12
31097	NE	Johnson County	12
31099	NE	Kearney County	22
31101	NE	Keith County	22
31103	NE	Keya Paha County	11
31105	NE	Kimball County	11
31107	NE	Knox County	12
31109	NE	Lancaster County	33
31111	NE	Lincoln County	22
31113	NE	Logan County	11
31115	NE	Loup County	21
31117	NE	McPherson County	11
31119	NE	Madison County	22
31121	NE	Merrick County	22
31123	NE	Morrill County	21
31125	NE	Nance County	12
31127	NE	Nemaha County	12
31129	NE	Nuckolls County	12
31131	NE	Otoe County	22
31133	NE	Pawnee County	12
31135	NE	Perkins County	11
31137	NE	Phelps County	22
31139	NE	Pierce County	22
31141	NE	Platte County	22
31143	NE	Polk County	12
31145	NE	Red Willow County	12
31147	NE	Richardson County	12
31149	NE	Rock County	11
31151	NE	Saline County	22
31153	NE	Sarpy County	33
31155	NE	Saunders County	22
31157	NE	Scotts Bluff County	22
31159	NE	Seward County	22
31161	NE	Sheridan County	11
31163	NE	Sherman County	11
31165	NE	Sioux County	11
31167	NE	Stanton County	22
31169	NE	Thayer County	12
31171	NE	Thomas County	11
31173	NE	Thurston County	22
31175	NE	Valley County	12
31177	NE	Washington County	22
31179	NE	Wayne County	22
31181	NE	Webster County	12
31183	NE	Wheeler County	11
31185	NE	York County	22
32001	NV	Churchill County	31
32003	NV	Clark County	33
32005	NV	Douglas County	32
32007	NV	Elko County	31
32009	NV	Esmeralda County	11
32011	NV	Eureka County	21
32013	NV	Humboldt County	31
32015	NV	Lander County	11
32017	NV	Lincoln County	21
32019	NV	Lyon County	32
32021	NV	Mineral County	11
32023	NV	Nye County	31
32027	NV	Pershing County	31

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FIPS	STATE	COUNTY	BIVARIATE CODE
32029	NV	Storey County	32
32031	NV	Washoe County	32
32033	NV	White Pine County	11
32510	NV	Carson City	33
33001	NH	Belknap County	33
33003	NH	Carroll County	32
33005	NH	Cheshire County	23
33007	NH	Coos County	12
33009	NH	Grafton County	22
33011	NH	Hillsborough County	33
33013	NH	Merrimack County	33
33015	NH	Rockingham County	23
33017	NH	Strafford County	23
33019	NH	Sullivan County	23
34001	NJ	Atlantic County	23
34003	NJ	Bergen County	23
34005	NJ	Burlington County	23
34007	NJ	Camden County	23
34009	NJ	Cape May County	23
34011	NJ	Cumberland County	23
34013	NJ	Essex County	23
34015	NJ	Gloucester County	23
34017	NJ	Hudson County	23
34019	NJ	Hunterdon County	33
34021	NJ	Mercer County	23
34023	NJ	Middlesex County	23
34025	NJ	Monmouth County	23
34027	NJ	Morris County	23
34029	NJ	Ocean County	33
34031	NJ	Passaic County	23
34033	NJ	Salem County	13
34035	NJ	Somerset County	33
34037	NJ	Sussex County	23
34039	NJ	Union County	23
34041	NJ	Warren County	23
35001	NM	Bernalillo County	33
35003	NM	Catron County	31
35005	NM	Chaves County	22
35006	NM	Cibola County	21
35007	NM	Colfax County	21
35009	NM	Curry County	22
35011	NM	De Baca County	11
35013	NM	Dona Ana County	32
35015	NM	Eddy County	22
35017	NM	Grant County	21
35019	NM	Guadalupe County	21
35021	NM	Harding County	11
35023	NM	Hidalgo County	11
35025	NM	Lea County	12
35027	NM	Lincoln County	31
35028	NM	Los Alamos County	23
35029	NM	Luna County	31
35031	NM	McKinley County	32
35033	NM	Mora County	31
35035	NM	Otero County	32
35037	NM	Quay County	11
35039	NM	Rio Arriba County	31
35041	NM	Roosevelt County	21
35043	NM	Sandoval County	32
35045	NM	San Juan County	32
35047	NM	San Miguel County	31
35049	NM	Santa Fe County	32
35051	NM	Sierra County	31

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FIPS	STATE	COUNTY	BIVARIATE CODE
35053	NM	Socorro County	31
35055	NM	Taos County	32
35057	NM	Torrance County	31
35059	NM	Union County	21
35061	NM	Valencia County	32
36001	NY	Albany County	23
36003	NY	Allegany County	12
36005	NY	Bronx County	23
36007	NY	Broome County	13
36009	NY	Cattaraugus County	12
36011	NY	Cayuga County	13
36013	NY	Chautauqua County	13
36015	NY	Chemung County	13
36017	NY	Chenango County	12
36019	NY	Clinton County	13
36021	NY	Columbia County	23
36023	NY	Cortland County	13
36025	NY	Delaware County	22
36027	NY	Dutchess County	23
36029	NY	Erie County	13
36031	NY	Essex County	22
36033	NY	Franklin County	22
36035	NY	Fulton County	23
36037	NY	Genesee County	23
36039	NY	Greene County	22
36041	NY	Hamilton County	21
36043	NY	Herkimer County	12
36045	NY	Jefferson County	23
36047	NY	Kings County	23
36049	NY	Lewis County	22
36051	NY	Livingston County	23
36053	NY	Madison County	23
36055	NY	Monroe County	23
36057	NY	Montgomery County	13
36059	NY	Nassau County	23
36061	NY	New York County	23
36063	NY	Niagara County	13
36065	NY	Oneida County	13
36067	NY	Onondaga County	13
36069	NY	Ontario County	23
36071	NY	Orange County	23
36073	NY	Orleans County	23
36075	NY	Oswego County	23
36077	NY	Otsego County	22
36079	NY	Putnam County	33
36081	NY	Queens County	33
36083	NY	Rensselaer County	13
36085	NY	Richmond County	33
36087	NY	Rockland County	23
36089	NY	St. Lawrence County	12
36091	NY	Saratoga County	23
36093	NY	Schenectady County	13
36095	NY	Schoharie County	12
36097	NY	Schuyler County	22
36099	NY	Seneca County	13
36101	NY	Steuben County	13
36103	NY	Suffolk County	23
36105	NY	Sullivan County	23
36107	NY	Tioga County	13
36109	NY	Tompkins County	23
36111	NY	Ulster County	23
36113	NY	Warren County	22
36115	NY	Washington County	23

Bivariate

FIPS	STATE	COUNTY	BIVARIATE CODE
36117	NY	Wayne County	23
36119	NY	Westchester County	23
36121	NY	Wyoming County	23
36123	NY	Yates County	22
37001	NC	Alamance County	33
37003	NC	Alexander County	33
37005	NC	Alleghany County	22
37007	NC	Anson County	22
37009	NC	Ashe County	22
37011	NC	Avery County	32
37013	NC	Beaufort County	22
37015	NC	Bertie County	12
37017	NC	Bladen County	22
37019	NC	Brunswick County	32
37021	NC	Buncombe County	33
37023	NC	Burke County	33
37025	NC	Cabarrus County	33
37027	NC	Caldwell County	23
37029	NC	Camden County	32
37031	NC	Carteret County	23
37033	NC	Caswell County	32
37035	NC	Catawba County	33
37037	NC	Chatham County	32
37039	NC	Cherokee County	32
37041	NC	Chowan County	23
37043	NC	Clay County	32
37045	NC	Cleveland County	33
37047	NC	Columbus County	22
37049	NC	Craven County	23
37051	NC	Cumberland County	23
37053	NC	Currituck County	32
37055	NC	Dare County	32
37057	NC	Davidson County	33
37059	NC	Davie County	33
37061	NC	Duplin County	32
37063	NC	Durham County	33
37065	NC	Edgecombe County	13
37067	NC	Forsyth County	33
37069	NC	Franklin County	33
37071	NC	Gaston County	23
37073	NC	Gates County	22
37075	NC	Graham County	22
37077	NC	Granville County	33
37079	NC	Greene County	32
37081	NC	Guilford County	33
37083	NC	Halifax County	23
37085	NC	Harnett County	33
37087	NC	Haywood County	33
37089	NC	Henderson County	33
37091	NC	Hertford County	22
37093	NC	Hoke County	32
37095	NC	Hyde County	22
37097	NC	Iredell County	33
37099	NC	Jackson County	32
37101	NC	Johnston County	33
37103	NC	Jones County	22
37105	NC	Lee County	33
37107	NC	Lenoir County	23
37109	NC	Lincoln County	33
37111	NC	McDowell County	33
37113	NC	Macon County	32
37115	NC	Madison County	32
37117	NC	Martin County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
37119	NC	Mecklenburg County	33
37121	NC	Mitchell County	22
37123	NC	Montgomery County	32
37125	NC	Moore County	33
37127	NC	Nash County	33
37129	NC	New Hanover County	33
37131	NC	Northampton County	22
37133	NC	Onslow County	23
37135	NC	Orange County	33
37137	NC	Pamlico County	32
37139	NC	Pasquotank County	23
37141	NC	Pender County	32
37143	NC	Perquimans County	22
37145	NC	Person County	33
37147	NC	Pitt County	33
37149	NC	Polk County	32
37151	NC	Randolph County	33
37153	NC	Richmond County	23
37155	NC	Robeson County	33
37157	NC	Rockingham County	23
37159	NC	Rowan County	33
37161	NC	Rutherford County	23
37163	NC	Sampson County	32
37165	NC	Scotland County	23
37167	NC	Stanly County	23
37169	NC	Stokes County	33
37171	NC	Surry County	33
37173	NC	Swain County	32
37175	NC	Transylvania County	32
37177	NC	Tyrrell County	22
37179	NC	Union County	33
37181	NC	Vance County	23
37183	NC	Wake County	33
37185	NC	Warren County	32
37187	NC	Washington County	12
37189	NC	Watauga County	33
37191	NC	Wayne County	23
37193	NC	Wilkes County	23
37195	NC	Wilson County	23
37197	NC	Yadkin County	33
37199	NC	Yancey County	32
38001	ND	Adams County	11
38003	ND	Barnes County	12
38005	ND	Benson County	11
38007	ND	Billings County	11
38009	ND	Bottineau County	11
38011	ND	Bowman County	11
38013	ND	Burke County	11
38015	ND	Burleigh County	32
38017	ND	Cass County	32
38019	ND	Cavalier County	11
38021	ND	Dickey County	11
38023	ND	Divide County	11
38025	ND	Dunn County	11
38027	ND	Eddy County	11
38029	ND	Emmons County	11
38031	ND	Foster County	11
38033	ND	Golden Valley County	11
38035	ND	Grand Forks County	12
38037	ND	Grant County	11
38039	ND	Griggs County	11
38041	ND	Hettinger County	11
38043	ND	Kidder County	11

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FIPS	STATE	COUNTY	BIVARIATE CODE
38045	ND	LaMoure County	11
38047	ND	Logan County	11
38049	ND	McHenry County	11
38051	ND	McIntosh County	11
38053	ND	McKenzie County	11
38055	ND	McLean County	11
38057	ND	Mercer County	12
38059	ND	Morton County	22
38061	ND	Mountrail County	11
38063	ND	Nelson County	11
38065	ND	Oliver County	11
38067	ND	Pembina County	12
38069	ND	Pierce County	11
38071	ND	Ramsey County	12
38073	ND	Ransom County	11
38075	ND	Renville County	11
38077	ND	Richland County	12
38079	ND	Rolette County	22
38081	ND	Sargent County	11
38083	ND	Sheridan County	11
38085	ND	Sioux County	21
38087	ND	Slope County	11
38089	ND	Stark County	12
38091	ND	Steele County	11
38093	ND	Stutsman County	12
38095	ND	Towner County	11
38097	ND	Traill County	12
38099	ND	Walsh County	12
38101	ND	Ward County	22
38103	ND	Wells County	11
38105	ND	Williams County	12
39001	OH	Adams County	22
39003	OH	Allen County	13
39005	OH	Ashland County	23
39007	OH	Ashtabula County	23
39009	OH	Athens County	23
39011	OH	Auglaize County	23
39013	OH	Belmont County	13
39015	OH	Brown County	33
39017	OH	Butler County	33
39019	OH	Carroll County	22
39021	OH	Champaign County	23
39023	OH	Clark County	13
39025	OH	Clermont County	33
39027	OH	Clinton County	33
39029	OH	Columbiana County	23
39031	OH	Coshocton County	22
39033	OH	Crawford County	13
39035	OH	Cuyahoga County	13
39037	OH	Darke County	13
39039	OH	Defiance County	23
39041	OH	Delaware County	33
39043	OH	Erie County	23
39045	OH	Fairfield County	33
39047	OH	Fayette County	22
39049	OH	Franklin County	23
39051	OH	Fulton County	23
39053	OH	Gallia County	22
39055	OH	Geauga County	23
39057	OH	Greene County	23
39059	OH	Guernsey County	23
39061	OH	Hamilton County	13
39063	OH	Hancock County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
39065	OH	Hardin County	22
39067	OH	Harrison County	12
39069	OH	Henry County	22
39071	OH	Highland County	32
39073	OH	Hocking County	22
39075	OH	Holmes County	33
39077	OH	Huron County	23
39079	OH	Jackson County	23
39081	OH	Jefferson County	13
39083	OH	Knox County	33
39085	OH	Lake County	23
39087	OH	Lawrence County	23
39089	OH	Licking County	33
39091	OH	Logan County	23
39093	OH	Lorain County	23
39095	OH	Lucas County	13
39097	OH	Madison County	23
39099	OH	Mahoning County	13
39101	OH	Marion County	23
39103	OH	Medina County	33
39105	OH	Meigs County	22
39107	OH	Mercer County	23
39109	OH	Miami County	23
39111	OH	Monroe County	12
39113	OH	Montgomery County	13
39115	OH	Morgan County	22
39117	OH	Morrow County	32
39119	OH	Muskingum County	23
39121	OH	Noble County	32
39123	OH	Ottawa County	23
39125	OH	Paulding County	12
39127	OH	Perry County	23
39129	OH	Pickaway County	23
39131	OH	Pike County	32
39133	OH	Portage County	23
39135	OH	Preble County	23
39137	OH	Putnam County	22
39139	OH	Richland County	23
39141	OH	Ross County	23
39143	OH	Sandusky County	13
39145	OH	Scioto County	13
39147	OH	Seneca County	13
39149	OH	Shelby County	23
39151	OH	Stark County	23
39153	OH	Summit County	23
39155	OH	Trumbull County	13
39157	OH	Tuscarawas County	23
39159	OH	Union County	33
39161	OH	Van Wert County	13
39163	OH	Vinton County	32
39165	OH	Warren County	33
39167	OH	Washington County	23
39169	OH	Wayne County	23
39171	OH	Williams County	23
39173	OH	Wood County	23
39175	OH	Wyandot County	22
40001	OK	Adair County	32
40003	OK	Alfalfa County	12
40005	OK	Atoka County	22
40007	OK	Beaver County	11
40009	OK	Beckham County	22
40011	OK	Blaine County	22
40013	OK	Bryan County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
40015	OK	Caddo County	22
40017	OK	Canadian County	33
40019	OK	Carter County	22
40021	OK	Cherokee County	32
40023	OK	Choctaw County	22
40025	OK	Cimarron County	11
40027	OK	Cleveland County	33
40029	OK	Coal County	22
40031	OK	Comanche County	23
40033	OK	Cotton County	12
40035	OK	Craig County	22
40037	OK	Creek County	22
40039	OK	Custer County	12
40041	OK	Delaware County	32
40043	OK	Dewey County	11
40045	OK	Ellis County	11
40047	OK	Garfield County	22
40049	OK	Garvin County	22
40051	OK	Grady County	22
40053	OK	Grant County	11
40055	OK	Greer County	12
40057	OK	Harmon County	12
40059	OK	Harper County	11
40061	OK	Haskell County	22
40063	OK	Hughes County	22
40065	OK	Jackson County	12
40067	OK	Jefferson County	12
40069	OK	Johnston County	22
40071	OK	Kay County	22
40073	OK	Kingfisher County	22
40075	OK	Kiowa County	12
40077	OK	Latimer County	22
40079	OK	Le Flore County	22
40081	OK	Lincoln County	22
40083	OK	Logan County	32
40085	OK	Love County	22
40087	OK	McClain County	32
40089	OK	McCurtain County	22
40091	OK	McIntosh County	32
40093	OK	Major County	12
40095	OK	Marshall County	32
40097	OK	Mayes County	32
40099	OK	Murray County	22
40101	OK	Muskogee County	23
40103	OK	Noble County	22
40105	OK	Nowata County	22
40107	OK	Okfuskee County	22
40109	OK	Oklahoma County	23
40111	OK	Okmulgee County	22
40113	OK	Osage County	22
40115	OK	Ottawa County	22
40117	OK	Pawnee County	22
40119	OK	Payne County	23
40121	OK	Pittsburg County	22
40123	OK	Pontotoc County	22
40125	OK	Pottawatomie County	23
40127	OK	Pushmataha County	22
40129	OK	Roger Mills County	11
40131	OK	Rogers County	33
40133	OK	Seminole County	12
40135	OK	Sequoyah County	32
40137	OK	Stephens County	22
40139	OK	Texas County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
40141	OK	Tillman County	12
40143	OK	Tulsa County	23
40145	OK	Wagoner County	33
40147	OK	Washington County	23
40149	OK	Washita County	22
40151	OK	Woods County	12
40153	OK	Woodward County	12
41001	OR	Baker County	21
41003	OR	Benton County	23
41005	OR	Clackamas County	33
41007	OR	Clatsop County	22
41009	OR	Columbia County	32
41011	OR	Coos County	22
41013	OR	Crook County	31
41015	OR	Curry County	22
41017	OR	Deschutes County	32
41019	OR	Douglas County	22
41021	OR	Gilliam County	21
41023	OR	Grant County	21
41025	OR	Harney County	21
41027	OR	Hood River County	32
41029	OR	Jackson County	32
41031	OR	Jefferson County	32
41033	OR	Josephine County	32
41035	OR	Klamath County	22
41037	OR	Lake County	21
41039	OR	Lane County	32
41041	OR	Lincoln County	32
41043	OR	Linn County	22
41045	OR	Malheur County	31
41047	OR	Marion County	33
41049	OR	Morrow County	31
41051	OR	Multnomah County	23
41053	OR	Polk County	32
41055	OR	Sherman County	21
41057	OR	Tillamook County	22
41059	OR	Umatilla County	32
41061	OR	Union County	22
41063	OR	Wallowa County	21
41065	OR	Wasco County	22
41067	OR	Washington County	33
41069	OR	Wheeler County	21
41071	OR	Yamhill County	33
42001	PA	Adams County	33
42003	PA	Allegheny County	13
42005	PA	Armstrong County	13
42007	PA	Beaver County	13
42009	PA	Bedford County	22
42011	PA	Berks County	23
42013	PA	Blair County	13
42015	PA	Bradford County	22
42017	PA	Bucks County	23
42019	PA	Butler County	33
42021	PA	Cambria County	13
42023	PA	Cameron County	22
42025	PA	Carbon County	23
42027	PA	Centre County	23
42029	PA	Chester County	33
42031	PA	Clarion County	22
42033	PA	Clearfield County	22
42035	PA	Clinton County	22
42037	PA	Columbia County	23
42039	PA	Crawford County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
42041	PA	Cumberland County	23
42043	PA	Dauphin County	23
42045	PA	Delaware County	23
42047	PA	Elk County	22
42049	PA	Erie County	23
42051	PA	Fayette County	23
42053	PA	Forest County	22
42055	PA	Franklin County	23
42057	PA	Fulton County	22
42059	PA	Greene County	22
42061	PA	Huntingdon County	22
42063	PA	Indiana County	13
42065	PA	Jefferson County	13
42067	PA	Juniata County	22
42069	PA	Lackawanna County	13
42071	PA	Lancaster County	23
42073	PA	Lawrence County	13
42075	PA	Lebanon County	23
42077	PA	Lehigh County	23
42079	PA	Luzerne County	13
42081	PA	Lycoming County	23
42083	PA	McKean County	12
42085	PA	Mercer County	13
42087	PA	Mifflin County	23
42089	PA	Monroe County	33
42091	PA	Montgomery County	23
42093	PA	Montour County	23
42095	PA	Northampton County	23
42097	PA	Northumberland County	13
42099	PA	Perry County	23
42101	PA	Philadelphia County	13
42103	PA	Pike County	32
42105	PA	Potter County	22
42107	PA	Schuylkill County	13
42109	PA	Snyder County	23
42111	PA	Somerset County	23
42113	PA	Sullivan County	22
42115	PA	Susquehanna County	22
42117	PA	Tioga County	22
42119	PA	Union County	33
42121	PA	Venango County	13
42123	PA	Warren County	12
42125	PA	Washington County	13
42127	PA	Wayne County	32
42129	PA	Westmoreland County	13
42131	PA	Wyoming County	23
42133	PA	York County	23
44001	RI	Bristol County	23
44003	RI	Kent County	23
44005	RI	Newport County	13
44007	RI	Providence County	23
44009	RI	Washington County	23
45001	SC	Abbeville County	22
45003	SC	Aiken County	33
45005	SC	Allendale County	12
45007	SC	Anderson County	33
45009	SC	Bamberg County	12
45011	SC	Barnwell County	32
45013	SC	Beaufort County	33
45015	SC	Berkeley County	23
45017	SC	Calhoun County	32
45019	SC	Charleston County	23
45021	SC	Cherokee County	33

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FIPS	STATE	COUNTY	BIVARIATE CODE
45023	SC	Chester County	22
45025	SC	Chesterfield County	22
45027	SC	Clarendon County	32
45029	SC	Colleton County	22
45031	SC	Darlington County	23
45033	SC	Dillon County	23
45035	SC	Dorchester County	33
45037	SC	Edgefield County	32
45039	SC	Fairfield County	22
45041	SC	Florence County	23
45043	SC	Georgetown County	32
45045	SC	Greenville County	33
45047	SC	Greenwood County	23
45049	SC	Hampton County	32
45051	SC	Horry County	33
45053	SC	Jasper County	32
45055	SC	Kershaw County	32
45057	SC	Lancaster County	23
45059	SC	Laurens County	33
45061	SC	Lee County	22
45063	SC	Lexington County	33
45065	SC	McCormick County	22
45067	SC	Marion County	22
45069	SC	Marlboro County	12
45071	SC	Newberry County	22
45073	SC	Oconee County	33
45075	SC	Orangeburg County	23
45077	SC	Pickens County	33
45079	SC	Richland County	23
45081	SC	Saluda County	32
45083	SC	Spartanburg County	23
45085	SC	Sumter County	23
45087	SC	Union County	12
45089	SC	Williamsburg County	22
45091	SC	York County	33
46003	SD	Aurora County	11
46005	SD	Beadle County	12
46007	SD	Bennett County	21
46009	SD	Bon Homme County	22
46011	SD	Brookings County	22
46013	SD	Brown County	12
46015	SD	Brule County	11
46017	SD	Buffalo County	31
46019	SD	Butte County	31
46021	SD	Campbell County	11
46023	SD	Charles Mix County	22
46025	SD	Clark County	11
46027	SD	Clay County	22
46029	SD	Codington County	32
46031	SD	Corson County	11
46033	SD	Custer County	31
46035	SD	Davison County	22
46037	SD	Day County	11
46039	SD	Deuel County	12
46041	SD	Dewey County	21
46043	SD	Douglas County	12
46045	SD	Edmunds County	21
46047	SD	Fall River County	21
46049	SD	Faulk County	11
46051	SD	Grant County	12
46053	SD	Gregory County	11
46055	SD	Haakon County	11
46057	SD	Hamlin County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
46059	SD	Hand County	11
46061	SD	Hanson County	21
46063	SD	Harding County	11
46065	SD	Hughes County	22
46067	SD	Hutchinson County	12
46069	SD	Hyde County	11
46071	SD	Jackson County	21
46073	SD	Jerauld County	11
46075	SD	Jones County	11
46077	SD	Kingsbury County	12
46079	SD	Lake County	22
46081	SD	Lawrence County	22
46083	SD	Lincoln County	32
46085	SD	Lyman County	21
46087	SD	McCook County	22
46089	SD	McPherson County	11
46091	SD	Marshall County	11
46093	SD	Meade County	21
46095	SD	Mellette County	11
46097	SD	Miner County	11
46099	SD	Minnehaha County	33
46101	SD	Moody County	22
46103	SD	Pennington County	22
46105	SD	Perkins County	11
46107	SD	Potter County	11
46109	SD	Roberts County	22
46111	SD	Sanborn County	11
46113	SD	Shannon County	31
46115	SD	Spink County	11
46117	SD	Stanley County	21
46119	SD	Sully County	11
46121	SD	Todd County	21
46123	SD	Tripp County	11
46125	SD	Turner County	22
46127	SD	Union County	32
46129	SD	Walworth County	12
46135	SD	Yankton County	22
46137	SD	Ziebach County	31
47001	TN	Anderson County	23
47003	TN	Bedford County	32
47005	TN	Benton County	32
47007	TN	Bledsoe County	32
47009	TN	Blount County	33
47011	TN	Bradley County	33
47013	TN	Campbell County	33
47015	TN	Cannon County	32
47017	TN	Carroll County	22
47019	TN	Carter County	23
47021	TN	Cheatham County	33
47023	TN	Chester County	32
47025	TN	Claiborne County	32
47027	TN	Clay County	22
47029	TN	Cocke County	32
47031	TN	Coffee County	33
47033	TN	Crockett County	22
47035	TN	Cumberland County	32
47037	TN	Davidson County	23
47039	TN	Decatur County	22
47041	TN	DeKalb County	32
47043	TN	Dickson County	33
47045	TN	Dyer County	22
47047	TN	Fayette County	22
47049	TN	Fentress County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
47051	TN	Franklin County	22
47053	TN	Gibson County	23
47055	TN	Giles County	32
47057	TN	Grainger County	32
47059	TN	Greene County	23
47061	TN	Grundy County	22
47063	TN	Hamblen County	33
47065	TN	Hamilton County	23
47067	TN	Hancock County	22
47069	TN	Hardeman County	32
47071	TN	Hardin County	22
47073	TN	Hawkins County	33
47075	TN	Haywood County	22
47077	TN	Henderson County	32
47079	TN	Henry County	22
47081	TN	Hickman County	32
47083	TN	Houston County	32
47085	TN	Humphreys County	32
47087	TN	Jackson County	32
47089	TN	Jefferson County	33
47091	TN	Johnson County	32
47093	TN	Knox County	33
47095	TN	Lake County	22
47097	TN	Lauderdale County	32
47099	TN	Lawrence County	22
47101	TN	Lewis County	32
47103	TN	Lincoln County	22
47105	TN	Loudon County	33
47107	TN	McMinn County	33
47109	TN	McNairy County	22
47111	TN	Macon County	32
47113	TN	Madison County	33
47115	TN	Marion County	22
47117	TN	Marshall County	32
47119	TN	Maury County	33
47121	TN	Meigs County	32
47123	TN	Monroe County	32
47125	TN	Montgomery County	33
47127	TN	Moore County	32
47129	TN	Morgan County	32
47131	TN	Obion County	22
47133	TN	Overton County	32
47135	TN	Perry County	32
47137	TN	Pickett County	22
47139	TN	Polk County	32
47141	TN	Putnam County	33
47143	TN	Rhea County	33
47145	TN	Roane County	23
47147	TN	Robertson County	33
47149	TN	Rutherford County	33
47151	TN	Scott County	32
47153	TN	Sequatchie County	32
47155	TN	Sevier County	33
47157	TN	Shelby County	23
47159	TN	Smith County	32
47161	TN	Stewart County	32
47163	TN	Sullivan County	23
47165	TN	Sumner County	33
47167	TN	Tipton County	33
47169	TN	Trousdale County	32
47171	TN	Unicoi County	23
47173	TN	Union County	32
47175	TN	Van Buren County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
47177	TN	Warren County	33
47179	TN	Washington County	33
47181	TN	Wayne County	32
47183	TN	Weakley County	22
47185	TN	White County	32
47187	TN	Williamson County	33
47189	TN	Wilson County	33
48001	TX	Anderson County	32
48003	TX	Andrews County	12
48005	TX	Angelina County	33
48007	TX	Aransas County	33
48009	TX	Archer County	22
48011	TX	Armstrong County	21
48013	TX	Atascosa County	32
48015	TX	Austin County	32
48017	TX	Bailey County	12
48019	TX	Bandera County	32
48021	TX	Bastrop County	32
48023	TX	Baylor County	11
48025	TX	Bee County	32
48027	TX	Bell County	33
48029	TX	Bexar County	33
48031	TX	Blanco County	32
48033	TX	Borden County	11
48035	TX	Bosque County	32
48037	TX	Bowie County	23
48039	TX	Brazoria County	33
48041	TX	Brazos County	33
48043	TX	Brewster County	21
48045	TX	Briscoe County	11
48047	TX	Brooks County	12
48049	TX	Brown County	22
48051	TX	Burleson County	32
48053	TX	Burnet County	32
48055	TX	Caldwell County	32
48057	TX	Calhoun County	22
48059	TX	Callahan County	22
48061	TX	Cameron County	33
48063	TX	Camp County	32
48065	TX	Carson County	12
48067	TX	Cass County	22
48069	TX	Castro County	12
48071	TX	Chambers County	32
48073	TX	Cherokee County	32
48075	TX	Childress County	32
48077	TX	Clay County	22
48079	TX	Cochran County	11
48081	TX	Coke County	21
48083	TX	Coleman County	12
48085	TX	Collin County	33
48087	TX	Collingsworth County	11
48089	TX	Colorado County	22
48091	TX	Comal County	33
48093	TX	Comanche County	22
48095	TX	Concho County	31
48097	TX	Cooke County	32
48099	TX	Coryell County	32
48101	TX	Cottle County	11
48103	TX	Crane County	11
48105	TX	Crockett County	21
48107	TX	Crosby County	12
48109	TX	Culberson County	11
48111	TX	Dallam County	31

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FIPS	STATE	COUNTY	BIVARIATE CODE
48113	TX	Dallas County	33
48115	TX	Dawson County	22
48117	TX	Deaf Smith County	12
48119	TX	Delta County	22
48121	TX	Denton County	33
48123	TX	DeWitt County	22
48125	TX	Dickens County	21
48127	TX	Dimmit County	12
48129	TX	Donley County	21
48131	TX	Duval County	22
48133	TX	Eastland County	12
48135	TX	Ector County	23
48137	TX	Edwards County	11
48139	TX	Ellis County	33
48141	TX	El Paso County	33
48143	TX	Erath County	32
48145	TX	Falls County	22
48147	TX	Fannin County	32
48149	TX	Fayette County	22
48151	TX	Fisher County	11
48153	TX	Floyd County	12
48155	TX	Foard County	11
48157	TX	Fort Bend County	33
48159	TX	Franklin County	32
48161	TX	Freestone County	22
48163	TX	Frio County	32
48165	TX	Gaines County	22
48167	TX	Galveston County	33
48169	TX	Garza County	11
48171	TX	Gillespie County	32
48173	TX	Glasscock County	11
48175	TX	Goliad County	32
48177	TX	Gonzales County	22
48179	TX	Gray County	12
48181	TX	Grayson County	33
48183	TX	Gregg County	23
48185	TX	Grimes County	32
48187	TX	Guadalupe County	33
48189	TX	Hale County	22
48191	TX	Hall County	11
48193	TX	Hamilton County	22
48195	TX	Hansford County	11
48197	TX	Hardeman County	12
48199	TX	Hardin County	32
48201	TX	Harris County	33
48203	TX	Harrison County	22
48205	TX	Hartley County	31
48207	TX	Haskell County	12
48209	TX	Hays County	33
48211	TX	Hemphill County	11
48213	TX	Henderson County	32
48215	TX	Hidalgo County	33
48217	TX	Hill County	32
48219	TX	Hockley County	12
48221	TX	Hood County	32
48223	TX	Hopkins County	22
48225	TX	Houston County	22
48227	TX	Howard County	22
48229	TX	Hudspeth County	31
48231	TX	Hunt County	33
48233	TX	Hutchinson County	12
48235	TX	Irion County	21
48237	TX	Jack County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
48239	TX	Jackson County	22
48241	TX	Jasper County	32
48243	TX	Jeff Davis County	31
48245	TX	Jefferson County	23
48247	TX	Jim Hogg County	21
48249	TX	Jim Wells County	22
48251	TX	Johnson County	33
48253	TX	Jones County	32
48255	TX	Karnes County	32
48257	TX	Kaufman County	32
48259	TX	Kendall County	32
48261	TX	Kenedy County	11
48263	TX	Kent County	11
48265	TX	Kerr County	32
48267	TX	Kimble County	21
48269	TX	King County	21
48271	TX	Kinney County	21
48273	TX	Kleberg County	22
48275	TX	Knox County	11
48277	TX	Lamar County	22
48279	TX	Lamb County	12
48281	TX	Lampasas County	32
48283	TX	La Salle County	21
48285	TX	Lavaca County	22
48287	TX	Lee County	32
48289	TX	Leon County	32
48291	TX	Liberty County	32
48293	TX	Limestone County	22
48295	TX	Lipscomb County	11
48297	TX	Live Oak County	32
48299	TX	Llano County	32
48301	TX	Loving County	11
48303	TX	Lubbock County	23
48305	TX	Lynn County	12
48307	TX	McCulloch County	12
48309	TX	McLennan County	23
48311	TX	McMullen County	21
48313	TX	Madison County	32
48315	TX	Marion County	22
48317	TX	Martin County	11
48319	TX	Mason County	21
48321	TX	Matagorda County	22
48323	TX	Maverick County	32
48325	TX	Medina County	32
48327	TX	Menard County	21
48329	TX	Midland County	23
48331	TX	Milam County	22
48333	TX	Mills County	31
48335	TX	Mitchell County	32
48337	TX	Montague County	22
48339	TX	Montgomery County	33
48341	TX	Moore County	22
48343	TX	Morris County	12
48345	TX	Motley County	11
48347	TX	Nacogdoches County	22
48349	TX	Navarro County	22
48351	TX	Newton County	22
48353	TX	Nolan County	12
48355	TX	Nueces County	23
48357	TX	Ochiltree County	12
48359	TX	Oldham County	11
48361	TX	Orange County	23
48363	TX	Palo Pinto County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
48365	TX	Panola County	22
48367	TX	Parker County	33
48369	TX	Parmer County	22
48371	TX	Pecos County	31
48373	TX	Polk County	32
48375	TX	Potter County	33
48377	TX	Presidio County	21
48379	TX	Rains County	32
48381	TX	Randall County	33
48383	TX	Reagan County	11
48385	TX	Real County	31
48387	TX	Red River County	12
48389	TX	Reeves County	11
48391	TX	Refugio County	12
48393	TX	Roberts County	11
48395	TX	Robertson County	22
48397	TX	Rockwall County	33
48399	TX	Runnels County	22
48401	TX	Rusk County	22
48403	TX	Sabine County	22
48405	TX	San Augustine County	22
48407	TX	San Jacinto County	32
48409	TX	San Patricio County	33
48411	TX	San Saba County	31
48413	TX	Schleicher County	11
48415	TX	Scurry County	12
48417	TX	Shackelford County	11
48419	TX	Shelby County	32
48421	TX	Sherman County	21
48423	TX	Smith County	33
48425	TX	Somervell County	32
48427	TX	Starr County	32
48429	TX	Stephens County	22
48431	TX	Sterling County	11
48433	TX	Stonewall County	11
48435	TX	Sutton County	11
48437	TX	Swisher County	22
48439	TX	Tarrant County	33
48441	TX	Taylor County	23
48443	TX	Terrell County	11
48445	TX	Terry County	12
48447	TX	Throckmorton County	11
48449	TX	Titus County	32
48451	TX	Tom Green County	22
48453	TX	Travis County	33
48455	TX	Trinity County	32
48457	TX	Tyler County	32
48459	TX	Upshur County	22
48461	TX	Upton County	11
48463	TX	Uvalde County	22
48465	TX	Val Verde County	32
48467	TX	Van Zandt County	32
48469	TX	Victoria County	23
48471	TX	Walker County	32
48473	TX	Waller County	32
48475	TX	Ward County	12
48477	TX	Washington County	32
48479	TX	Webb County	32
48481	TX	Wharton County	22
48483	TX	Wheeler County	11
48485	TX	Wichita County	23
48487	TX	Wilbarger County	12
48489	TX	Willacy County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
48491	TX	Williamson County	33
48493	TX	Wilson County	32
48495	TX	Winkler County	12
48497	TX	Wise County	32
48499	TX	Wood County	32
48501	TX	Yoakum County	12
48503	TX	Young County	12
48505	TX	Zapata County	32
48507	TX	Zavala County	12
49001	UT	Beaver County	31
49003	UT	Box Elder County	31
49005	UT	Cache County	32
49007	UT	Carbon County	22
49009	UT	Daggett County	31
49011	UT	Davis County	33
49013	UT	Duchesne County	31
49015	UT	Emery County	21
49017	UT	Garfield County	31
49019	UT	Grand County	31
49021	UT	Iron County	31
49023	UT	Juab County	31
49025	UT	Kane County	31
49027	UT	Millard County	21
49029	UT	Morgan County	32
49031	UT	Piute County	21
49033	UT	Rich County	31
49035	UT	Salt Lake County	33
49037	UT	San Juan County	31
49039	UT	Sanpete County	32
49041	UT	Sevier County	32
49043	UT	Summit County	32
49045	UT	Tooele County	31
49047	UT	Uintah County	31
49049	UT	Utah County	33
49051	UT	Wasatch County	32
49053	UT	Washington County	32
49055	UT	Wayne County	31
49057	UT	Weber County	33
50001	VT	Addison County	22
50003	VT	Bennington County	22
50005	VT	Caledonia County	22
50007	VT	Chittenden County	23
50009	VT	Essex County	22
50011	VT	Franklin County	32
50013	VT	Grand Isle County	32
50015	VT	Lamoille County	32
50017	VT	Orange County	22
50019	VT	Orleans County	22
50021	VT	Rutland County	22
50023	VT	Washington County	23
50025	VT	Windham County	22
50027	VT	Windsor County	22
51001	VA	Accomack County	32
51003	VA	Albemarle County	33
51005	VA	Alleghany County	12
51007	VA	Amelia County	32
51009	VA	Amherst County	22
51011	VA	Appomattox County	22
51013	VA	Arlington County	23
51015	VA	Augusta County	32
51017	VA	Bath County	22
51019	VA	Bedford County	32
51021	VA	Bland County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
51023	VA	Botetourt County	32
51025	VA	Brunswick County	32
51027	VA	Buchanan County	12
51029	VA	Buckingham County	32
51031	VA	Campbell County	23
51033	VA	Caroline County	32
51035	VA	Carroll County	22
51036	VA	Charles City County	22
51037	VA	Charlotte County	22
51041	VA	Chesterfield County	33
51043	VA	Clarke County	22
51045	VA	Craig County	32
51047	VA	Culpeper County	33
51049	VA	Cumberland County	32
51051	VA	Dickenson County	12
51053	VA	Dinwiddie County	32
51057	VA	Essex County	32
51059	VA	Fairfax County	33
51061	VA	Fauquier County	23
51063	VA	Floyd County	32
51065	VA	Fluvanna County	32
51067	VA	Franklin County	32
51069	VA	Frederick County	33
51071	VA	Giles County	22
51073	VA	Gloucester County	33
51075	VA	Goochland County	32
51077	VA	Grayson County	22
51079	VA	Greene County	32
51081	VA	Greensville County	32
51083	VA	Halifax County	22
51085	VA	Hanover County	33
51087	VA	Henrico County	33
51089	VA	Henry County	23
51091	VA	Highland County	11
51093	VA	Isle of Wight County	33
51095	VA	James City County	33
51097	VA	King and Queen County	22
51099	VA	King George County	33
51101	VA	King William County	32
51103	VA	Lancaster County	23
51105	VA	Lee County	12
51107	VA	Loudoun County	33
51109	VA	Louisa County	32
51111	VA	Lunenburg County	32
51113	VA	Madison County	22
51115	VA	Mathews County	23
51117	VA	Mecklenburg County	22
51119	VA	Middlesex County	32
51121	VA	Montgomery County	23
51125	VA	Nelson County	22
51127	VA	New Kent County	32
51131	VA	Northampton County	22
51133	VA	Northumberland County	32
51135	VA	Nottoway County	22
51137	VA	Orange County	32
51139	VA	Page County	22
51141	VA	Patrick County	22
51143	VA	Pittsylvania County	22
51145	VA	Powhatan County	32
51147	VA	Prince Edward County	32
51149	VA	Prince George County	33
51153	VA	Prince William County	33
51155	VA	Pulaski County	23

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FIPS	STATE	COUNTY	BIVARIATE CODE
51157	VA	Rappahannock County	22
51159	VA	Richmond County	32
51161	VA	Roanoke County	23
51163	VA	Rockbridge County	32
51165	VA	Rockingham County	32
51167	VA	Russell County	22
51169	VA	Scott County	22
51171	VA	Shenandoah County	22
51173	VA	Smyth County	23
51175	VA	Southampton County	12
51177	VA	Spotsylvania County	33
51179	VA	Stafford County	33
51181	VA	Surry County	22
51183	VA	Sussex County	32
51185	VA	Tazewell County	13
51187	VA	Warren County	33
51191	VA	Washington County	23
51193	VA	Westmoreland County	22
51195	VA	Wise County	23
51197	VA	Wythe County	22
51199	VA	York County	33
51510	VA	Alexandria city	33
51515	VA	Bedford city	23
51520	VA	Bristol city	13
51530	VA	Buena Vista city	13
51540	VA	Charlottesville city	23
51550	VA	Chesapeake city	33
51560	VA	Clifton Forge city	13
51570	VA	Colonial Heights city	23
51580	VA	Covington city	13
51590	VA	Danville city	13
51595	VA	Emporia city	23
51600	VA	Fairfax city	23
51610	VA	Falls Church city	23
51620	VA	Franklin city	23
51630	VA	Fredericksburg city	23
51640	VA	Galax city	23
51650	VA	Hampton city	23
51660	VA	Harrisonburg city	33
51670	VA	Hopewell city	13
51678	VA	Lexington city	13
51680	VA	Lynchburg city	13
51683	VA	Manassas city	33
51685	VA	Manassas Park city	33
51690	VA	Martinsville city	13
51700	VA	Newport News city	23
51710	VA	Norfolk city	13
51720	VA	Norton city	13
51730	VA	Petersburg city	13
51735	VA	Poquoson city	23
51740	VA	Portsmouth city	13
51750	VA	Radford city	13
51760	VA	Richmond city	13
51770	VA	Roanoke city	13
51775	VA	Salem city	23
51790	VA	Staunton city	13
51800	VA	Suffolk city	33
51810	VA	Virginia Beach city	23
51820	VA	Waynesboro city	23
51830	VA	Williamsburg city	23
51840	VA	Winchester city	23
53001	WA	Adams County	32
53003	WA	Asotin County	32

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FIPS	STATE	COUNTY	BIVARIATE CODE
53005	WA	Benton County	32
53007	WA	Chelan County	32
53009	WA	Clallam County	32
53011	WA	Clark County	33
53013	WA	Columbia County	21
53015	WA	Cowlitz County	33
53017	WA	Douglas County	32
53019	WA	Ferry County	31
53021	WA	Franklin County	32
53023	WA	Garfield County	21
53025	WA	Grant County	32
53027	WA	Grays Harbor County	22
53029	WA	Island County	33
53031	WA	Jefferson County	32
53033	WA	King County	33
53035	WA	Kitsap County	33
53037	WA	Kittitas County	32
53039	WA	Klickitat County	32
53041	WA	Lewis County	32
53043	WA	Lincoln County	31
53045	WA	Mason County	32
53047	WA	Okanogan County	31
53049	WA	Pacific County	22
53051	WA	Pend Oreille County	31
53053	WA	Pierce County	33
53055	WA	San Juan County	32
53057	WA	Skagit County	32
53059	WA	Skamania County	31
53061	WA	Snohomish County	33
53063	WA	Spokane County	33
53065	WA	Stevens County	32
53067	WA	Thurston County	33
53069	WA	Wahkiakum County	32
53071	WA	Walla Walla County	32
53073	WA	Whatcom County	32
53075	WA	Whitman County	22
53077	WA	Yakima County	32
54001	WV	Barbour County	12
54003	WV	Berkeley County	33
54005	WV	Boone County	12
54007	WV	Braxton County	22
54009	WV	Brooke County	13
54011	WV	Cabell County	13
54013	WV	Calhoun County	12
54015	WV	Clay County	22
54017	WV	Doddridge County	22
54019	WV	Fayette County	13
54021	WV	Gilmer County	12
54023	WV	Grant County	22
54025	WV	Greenbrier County	12
54027	WV	Hampshire County	32
54029	WV	Hancock County	13
54031	WV	Hardy County	32
54033	WV	Harrison County	13
54035	WV	Jackson County	22
54037	WV	Jefferson County	33
54039	WV	Kanawha County	13
54041	WV	Lewis County	12
54043	WV	Lincoln County	22
54045	WV	Logan County	13
54047	WV	McDowell County	12
54049	WV	Marion County	13
54051	WV	Marshall County	13

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FIPS	STATE	COUNTY	BIVARIATE CODE
54053	WV	Mason County	22
54055	WV	Mercer County	13
54057	WV	Mineral County	23
54059	WV	Mingo County	13
54061	WV	Monongalia County	23
54063	WV	Monroe County	32
54065	WV	Morgan County	32
54067	WV	Nicholas County	12
54069	WV	Ohio County	13
54071	WV	Pendleton County	22
54073	WV	Pleasants County	12
54075	WV	Pocahontas County	22
54077	WV	Preston County	22
54079	WV	Putnam County	33
54081	WV	Raleigh County	23
54083	WV	Randolph County	22
54085	WV	Ritchie County	22
54087	WV	Roane County	22
54089	WV	Summers County	12
54091	WV	Taylor County	23
54093	WV	Tucker County	12
54095	WV	Tyler County	12
54097	WV	Upshur County	22
54099	WV	Wayne County	23
54101	WV	Webster County	12
54103	WV	Wetzel County	12
54105	WV	Wirt County	22
54107	WV	Wood County	23
54109	WV	Wyoming County	12
55001	WI	Adams County	32
55003	WI	Ashland County	22
55005	WI	Barron County	22
55007	WI	Bayfield County	22
55009	WI	Brown County	33
55011	WI	Buffalo County	22
55013	WI	Burnett County	32
55015	WI	Calumet County	33
55017	WI	Chippewa County	22
55019	WI	Clark County	22
55021	WI	Columbia County	32
55023	WI	Crawford County	22
55025	WI	Dane County	33
55027	WI	Dodge County	23
55029	WI	Door County	22
55031	WI	Douglas County	22
55033	WI	Dunn County	22
55035	WI	Eau Claire County	23
55037	WI	Florence County	22
55039	WI	Fond du Lac County	23
55041	WI	Forest County	32
55043	WI	Grant County	22
55045	WI	Green County	22
55047	WI	Green Lake County	22
55049	WI	Iowa County	22
55051	WI	Iron County	22
55053	WI	Jackson County	32
55055	WI	Jefferson County	23
55057	WI	Juneau County	22
55059	WI	Kenosha County	33
55061	WI	Kewaunee County	22
55063	WI	La Crosse County	23
55065	WI	Lafayette County	22
55067	WI	Langlade County	22

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FIPS	STATE	COUNTY	BIVARIATE CODE
55069	WI	Lincoln County	22
55071	WI	Manitowoc County	23
55073	WI	Marathon County	23
55075	WI	Marinette County	22
55077	WI	Marquette County	32
55078	WI	Menominee County	32
55079	WI	Milwaukee County	13
55081	WI	Monroe County	22
55083	WI	Oconto County	32
55085	WI	Oneida County	32
55087	WI	Outagamie County	33
55089	WI	Ozaukee County	23
55091	WI	Pepin County	22
55093	WI	Pierce County	22
55095	WI	Polk County	32
55097	WI	Portage County	23
55099	WI	Price County	22
55101	WI	Racine County	23
55103	WI	Richland County	22
55105	WI	Rock County	23
55107	WI	Rusk County	22
55109	WI	St. Croix County	32
55111	WI	Sauk County	32
55113	WI	Sawyer County	32
55115	WI	Shawano County	22
55117	WI	Sheboygan County	23
55119	WI	Taylor County	22
55121	WI	Trempealeau County	22
55123	WI	Vernon County	22
55125	WI	Vilas County	32
55127	WI	Walworth County	33
55129	WI	Washburn County	32
55131	WI	Washington County	33
55133	WI	Waukesha County	33
55135	WI	Waupaca County	22
55137	WI	Waushara County	32
55139	WI	Winnebago County	23
55141	WI	Wood County	23
56001	WY	Albany County	22
56003	WY	Big Horn County	21
56005	WY	Campbell County	31
56007	WY	Carbon County	11
56009	WY	Converse County	21
56011	WY	Crook County	21
56013	WY	Fremont County	21
56015	WY	Goshen County	21
56017	WY	Hot Springs County	21
56019	WY	Johnson County	31
56021	WY	Laramie County	22
56023	WY	Lincoln County	31
56025	WY	Natrona County	22
56027	WY	Niobrara County	11
56029	WY	Park County	21
56031	WY	Platte County	21
56033	WY	Sheridan County	22
56035	WY	Sublette County	31
56037	WY	Sweetwater County	11
56039	WY	Teton County	31
56041	WY	Uinta County	22
56043	WY	Washakie County	11
56045	WY	Weston County	21
72001	PR	Adjuntas Municipio	13
72003	PR	Aguada Municipio	33

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FIPS	STATE	COUNTY	BIVARIATE CODE
72005	PR	Aguadilla Municipio	23
72007	PR	Aguas Buenas Municipio	33
72009	PR	Aibonito Municipio	23
72011	PR	Añasco Municipio	23
72013	PR	Arecibo Municipio	23
72015	PR	Arroyo Municipio	23
72017	PR	Barceloneta Municipio	23
72019	PR	Barranquitas Municipio	23
72021	PR	Bayamón Municipio	23
72023	PR	Cabo Rojo Municipio	33
72025	PR	Caguas Municipio	23
72027	PR	Camuy Municipio	33
72029	PR	Canóvanas Municipio	33
72031	PR	Carolina Municipio	23
72033	PR	Cataño Municipio	13
72035	PR	Cayey Municipio	23
72037	PR	Ceiba Municipio	23
72039	PR	Ciales Municipio	23
72041	PR	Cidra Municipio	33
72043	PR	Coamo Municipio	23
72045	PR	Comerio Municipio	13
72047	PR	Corozal Municipio	23
72049	PR	Culebra Municipio	33
72051	PR	Dorado Municipio	23
72053	PR	Fajardo Municipio	23
72054	PR	Florida Municipio	33
72055	PR	Guánica Municipio	23
72057	PR	Guayama Municipio	23
72059	PR	Guayanilla Municipio	23
72061	PR	Guaynabo Municipio	23
72063	PR	Gurabo Municipio	33
72065	PR	Hatillo Municipio	33
72067	PR	Hormigueros Municipio	23
72069	PR	Humacao Municipio	23
72071	PR	Isabela Municipio	33
72073	PR	Jayuya Municipio	23
72075	PR	Juana Díaz Municipio	23
72077	PR	Juncos Municipio	33
72079	PR	Lajas Municipio	23
72081	PR	Lares Municipio	33
72083	PR	Las Marías Municipio	33
72085	PR	Las Piedras Municipio	33
72087	PR	Loíza Municipio	23
72089	PR	Luquillo Municipio	23
72091	PR	Manatí Municipio	33
72093	PR	Maricao Municipio	23
72095	PR	Maunabo Municipio	23
72097	PR	Mayagüez Municipio	13
72099	PR	Moca Municipio	33
72101	PR	Morovis Municipio	33
72103	PR	Naguabo Municipio	23
72105	PR	Naranjito Municipio	23
72107	PR	Orocovis Municipio	23
72109	PR	Patillas Municipio	23
72111	PR	Peñuelas Municipio	33
72113	PR	Ponce Municipio	13
72115	PR	Quebradillas Municipio	33
72117	PR	Rincón Municipio	33
72119	PR	Río Grande Municipio	33
72121	PR	Sabana Grande Municipio	33
72123	PR	Salinas Municipio	23
72125	PR	San Germán Municipio	23
72127	PR	San Juan Municipio	13

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FIPS	STATE	COUNTY	BIVARIATE CODE
72129	PR	San Lorenzo Municipio	33
72131	PR	San Sebastián Municipio	33
72133	PR	Santa Isabel Municipio	23
72135	PR	Toa Alta Municipio	33
72137	PR	Toa Baja Municipio	23
72139	PR	Trujillo Alto Municipio	33
72141	PR	Utuado Municipio	23
72143	PR	Vega Alta Municipio	23
72145	PR	Vega Baja Municipio	23
72147	PR	Vieques Municipio	23
72149	PR	Villalba Municipio	33
72151	PR	Yabucoa Municipio	23
72153	PR	Yauco Municipio	23