Interactive County Geography v1.0

Created by the Community Water Center and GreenInfo Network

September 10, 2019

Metadata: Interactive_County_Geography_v1.shp

Data Type:	Shapefile Feature Class
Shapefile:	Interactive_County_Geography_v1.shp
Geometry Type:	Polygon
Coordinates have Z values:	No
Coordinates have measures:	No
Projected Coordinate System:	Teale Albers
Projection:	Albers
False_Easting:	0.00000000
False_Northing:	-4000000.00000000
Central_Meridian:	-120.00000000
Standard_Parallel_1:	34.00000000
Standard_Parallel_2:	40.50000000
Latitude_Of_Origin:	0.00000000
Linear Unit:	Meter
Geographic Coordinate System:	GCS_North_American_1983
Datum:	D_North_American_1983
Prime Meridian:	Greenwich
Angular Unit:	Degree

If downloading or using for analysis or reporting, please attribute and cite this datasets as:
Community Water Center (2019) Interactive County Geography, Version 1.0. Drinking Water Tool.

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Methodology

GreenInfo Network (GIN) processed county-level variables for display purposes in the Drinking Water Tool. This shapefile contains 58 polygons representing all counties in California. GIN combined data from other layers in the tool, as indicated in the attribute table, as well as data from the 2017 American Community Survey census data, downloaded from the Census Factfinder. Each race/ethnicity category is presented as a count (or estimate) and as a percent of total population, and includes margin of error (MOE) estimate.

Attribute Table

Heading	Description	Data Source
FID	Unique Field identifier	GIS generated
Shape*	Feature type: Polygon	GIS generated
SDAC_Count	Number of Severely Disadvantaged Communities (Census Place)	Intersection with 2017 Census Places
DAC_Count	Number of Disadvantaged Communities (Census Places)	Intersection with 2017 Census Places
B118_Count	Number of Bulletin 118 Sub-Basins	Intersection with B118 Boundaries
GSA_Count	Number of Groundwater Sustainability Agencies	Intersection with GSA Boundaries
Well_Count	Number of Private Domestic Wells	Sum of Private Domestic Wells in Pace et al. 2019
CWS_Count	Number of Community Water Systems	Intersection with CWS Boundaries from Pace et al. 2019
NAME	County Name	Census TigerLine/ACS 2017
REGION	Region	Census TigerLine/ACS 2017
pwsid_list	List of PWSIDs for Community Water Systems	Intersection with CWS Boundaries from Pace et al. 2019
GSA_ID_lis	List of GSA IDs for GSAs	Intersection with GSA Boundaries
Basin_Numb	List of B118 Basin Numbers	Intersection with B118 Boundaries
Basin_Subb	List of B118 Sub-Basin Numbers	Intersection with B118 Boundaries
DAC_Name_l	List of DAC Census Place Names	Intersection with 2017 Census Places
SDAC_Name_	List of SDAC Census Place Names	Intersection with 2017 Census Places
DW_Pop10	Number of People on Domestic Wells	Sum of 2010 Population in intersected sections in Pace et al. 2019
DW_Housing	Number of Housing Units on Domestic Wells	Sum of 2010 Housing units in intersected sections in Pace et al. 2019
Shape_Leng	Polygon length	Census TigerLine/ACS 2017
Shape_Area	Polygon area	Census TigerLine/ACS 2017
STATEFP	State FIPS code: 06 represents CA	Census TigerLine/ACS 2017
COUNTYFP	3-character county FIPS code	Census TigerLine/ACS 2018
COUNTYNS	Current county GNIS code	Census TigerLine/ACS 2019
GEOID	Census bureau geographic identifier	Census TigerLine/ACS 2020
NAMELSAD	legal/statistical area description (LSAD)	Census TigerLine/ACS 2021
CLASSFP	Class code: An active county or equivalent feature	Census TigerLine/ACS 2022
MTFCC	MAF/TIGER Feature Class Code: County or Equivalent Feature	Census TigerLine/ACS 2023
CSAFP	Current combined statistical area code	Census TigerLine/ACS 2024

CBSAFP	Current metropolitan statistical area/micropolitan statistical area code	Census TigerLine/ACS 2025
METDIVFP	Current metropolitan division code	Census TigerLine/ACS 2026
FUNCSTAT	Current functional status; A = Active government providing primary general-purpose functions	Census TigerLine/ACS 2027
ALAND	Current land area	Census TigerLine/ACS 2028
AWATER	Current water area	Census TigerLine/ACS 2029
INTPTLAT	Current latitude of the internal point	Census TigerLine/ACS 2030
INTPTLON	Current longitude of the internal point	Census TigerLine/ACS 2031
GEOID_Data	Census bureau geographic identifier used for joining census table data to shapefile	Census TigerLine/ACS 2032
HISLAT_CT	Estimate; Hispanic/ Latino	Census TigerLine/ACS 2033
HISLAT_MOE	Margin of error; Hispanic /Latino	Census TigerLine/ACS 2034
HISLATPCT	Percent; Hispanic/Latino	Census TigerLine/ACS 2035
MHHI	Median household income	Census TigerLine/ACS 2036
MHHI_MOE	Margin of error; median household income	Census TigerLine/ACS 2037
DAC_STATUS	Disadvantaged Community (DAC) Status[1]: Disadvantaged Community, Severely Disadvantaged Community, Not a Disadvantaged Community	Census TigerLine/ACS 2038
POC	Estimate; people of color (Combines all race/ethnicity categories but the WHITE_CT)	Census TigerLine/ACS 2039
per_POC	Percent people of color	Census TigerLine/ACS 2040
MOE_POC	Margin of error; people of color	Census TigerLine/ACS 2041
MOEper_POC	Margin of error, percent people of color	Census TigerLine/ACS 2042
Tot_tenure	Total sampled for housing tenure	Census TigerLine/ACS 2043
MOE_tenure	Margin of error, total sampled for housing tenure	Census TigerLine/ACS 2044
Renter	Estimate; renter occupied households	Census TigerLine/ACS 2045
MOE_Renter	Margin of error; renter occupied households	Census TigerLine/ACS 2046
Per_Rent	Percent, renter occupied households	Census TigerLine/ACS 2047
MOEperRent	Margin of error; percent of renter occupied households	Census TigerLine/ACS 2048
Total_Ling	Estimate; total households sampled for linguistic isolation	Census TigerLine/ACS 2049
MOE_T_Ling	Margin of error; households measured for linguistic isolation	Census TigerLine/ACS 2050
Ling_Iso	Estimate; linguistically isolated households (no one over the age of 14 who speaks English "well" or "very well"	Census TigerLine/ACS 2051
MOE_Ling_i	Margin of error; linguistically isolated households	Census TigerLine/ACS 2052
Per_Ling_i	Percent; households that are linguistically isolated	Census TigerLine/ACS 2053
MOEper_Lin	Margin of error; percent of households that are linguistically isolated	Census TigerLine/ACS 2054

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[1] DAC has a median household income is <80% of CA MHI, and a SDAC has median household income is <60% of CA MHI (California Public Resources Code).

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TotalPop	Total population sampled for race/ethnicity variable	Census TigerLine/ACS 2055
TotPopMOE	Margin of error; total sampled population for race/ethnicity	Census TigerLine/ACS 2056
WHITE_CT	Estimate; non-Hispanic white	Census TigerLine/ACS 2057
WHITE_MOE	Margin of error; non-Hispanic white	Census TigerLine/ACS 2058
AFAMER_CT	Estimate; non-Hispanic African American	Census TigerLine/ACS 2059
AFAMER_MOE	Margin of error; non-Hispanic African American	Census TigerLine/ACS 2060
AIND_CT	Estimate; non-Hispanic Native American, Alaskan	Census TigerLine/ACS 2061
AIND_MOE	Margin of error; non-Hispanic Native American, Alaskan	Census TigerLine/ACS 2062
ASIAN_CT	Estimate; non-Hispanic Asian	Census TigerLine/ACS 2063
ASIAN_MOE	Margin of error; non-Hispanic Asian	Census TigerLine/ACS 2064
NHPI_CT	Estimate; non-Hispanic Pacific Islander	Census TigerLine/ACS 2065
NHPI_MOE	Margin of error; non-Hispanic other	Census TigerLine/ACS 2066
OTHER_CT	Estimate; non-Hispanic Pacific Islander	Census TigerLine/ACS 2067
OTHER_MOE	Margin of error; non-Hispanic other	Census TigerLine/ACS 2068
MORE2_CT	Estimate; percent non-Hispanic 2 or more	Census TigerLine/ACS 2069
MORE2_MOE	Margin of error; percent non-Hispanic 2 or more	Census TigerLine/ACS 2070
WHITE_PCT	Percent; non-Hispanic white (WHITE/TotPop)	Census TigerLine/ACS 2071
AFAMER_PCT	Percent; non-Hispanic African American (AFAMER_CT/TotPop)	Census TigerLine/ACS 2072
AIND_PCT	Percent; non-Hispanic Native American, Alaskan (AIND_CT/TotPop)	Census TigerLine/ACS 2073
ASIAN_PCT	Percent; non-Hispanic Asian (ASIAN_CT/TotPop)	Census TigerLine/ACS 2074
NHPI_PCT	Percent; non-Hispanic Pacific Islander (NHPI_CT/TotPop)	Census TigerLine/ACS 2075
OTHER_PCT	Percent; non-Hispanic Other (OTHER_CT/TotPop)	Census TigerLine/ACS 2076
MORE2_PCT	Percent; non-Hispanic 2 or more (MORE2_CT/TotPop)	Census TigerLine/ACS 2077
OBJECTID	GIS generated object ID	Gailey (2020)
COUNTY	County name for counties included in Gailey (2019) results	Gailey (2020)
S1_PL_coun	S1 (Scenario 1, 0%): Count of Wells with Pump Lowering	Gailey (2020)
S1_PL_cost	S1 (Scenario 1, 0%): Pump Lowering Cost	Gailey (2020)
S1_SR_coun	S1 (Scenario 1, 0%): Count of Wells with Screen Rehabilitation	Gailey (2020)
S1_SR_cost	S1 (Scenario 1, 0%): Screen Rehabilitation Cost	Gailey (2020)
S1_WR	S1 (Scenario 1, 0%): Count of Wells with Well Replacements	Gailey (2020)
S1_WR_cost	S1 (Scenario 1, 0%): Well Replacement Cost	Gailey (2020)
S1_CostXLi	S1 (Scenario 1, 0%): Extra Life Cost	Gailey (2020)

S1_SumImpa	S1 (Scenario 1, 0%): Count of all Drought Impacted Wells	Gailey (2020)
S1_TotalCo	S1 (Scenario 1, 0%): Total Cost, SUM(PL_cost+ SR_cost + WR_cost+CostXLi)	Gailey (2020)
S2_PL_coun	S2 (Scenario 2, 50%): Count of Wells with Pump Lowering	Gailey (2020)
S2_PL_cost	S2 (Scenario 2, 50%): Pump Lowering Cost	Gailey (2020)
S2_SR_coun	S2 (Scenario 2, 50%): Count of Wells with Screen Rehabilitation	Gailey (2020)
S2_SR_cost	S2 (Scenario 2, 50%): Screen Rehabilitation Cost	Gailey (2020)
S2_WR	S2 (Scenario 2, 50%): Count of Wells with Well Replacements	Gailey (2020)
S2_WR_cost	S2 (Scenario 2, 50%): Well Replacement Cost	Gailey (2020)
S2_CostXLi	S2 (Scenario 2, 50%): Extra Life Cost	Gailey (2020)
S2_SumImpa	S2 (Scenario 2, 50%): Count of all Drought Impacted Wells	Gailey (2020)
S2_TotalCo	S2 (Scenario 2, 50%): Total Cost, SUM(PL_cost+ SR_cost + WR_cost+CostXLi)	Gailey (2020)
S3_PL_coun	S3 (Scenario 3, 50%): Count of Wells with Pump Lowering	Gailey (2020)
S3_PL_cost	S3 (Scenario 3, 50%): Pump Lowering Cost	Gailey (2020)
S3_SR_coun	S3 (Scenario 3, 50%): Count of Wells with Screen Rehabilitation	Gailey (2020)
S3_SR_cost	S3 (Scenario 3, 50%): Screen Rehabilitation Cost	Gailey (2020)
S3_WR	S3 (Scenario 3, 50%): Count of Wells with Well Replacements	Gailey (2020)
S3_WR_cost	S3 (Scenario 3, 50%): Well Replacement Cost	Gailey (2020)
S3_CostXLi	S3 (Scenario 3, 50%): Extra Life Cost	Gailey (2020)
S3_SumImpa	S3 (Scenario 3, 50%): Count of all Drought Impacted Wells	Gailey (2020)
S3_TotalCo	S3 (Scenario 3, 50%): Total Cost, SUM(PL_cost+ SR_cost + WR_cost+CostXLi)	Gailey (2020)
S4_PL_coun	S4 (Scenario 4, 50%): Count of Wells with Pump Lowering	Gailey (2020)
S4_PL_cost	S4 (Scenario 4, 50%): Pump Lowering Cost	Gailey (2020)
S4_SR_coun	S4 (Scenario 4, 50%): Count of Wells with Screen Rehabilitation	Gailey (2020)
S4_SR_cost	S4 (Scenario 4, 50%): Screen Rehabilitation Cost	Gailey (2020)
S4_WR	S4 (Scenario 4, 50%): Count of Wells with Well Replacements	Gailey (2020)
S4_WR_cost	S4 (Scenario 4, 50%): Well Replacement Cost	Gailey (2020)
S4_CostXLi	S4 (Scenario 4, 50%): Extra Life Cost	Gailey (2020)
S4_SumImpa	S4 (Scenario 4, 50%): Count of all Drought Impacted Wells	Gailey (2020)
S4_TotalCo	S4 (Scenario 4, 50%): Total Cost, SUM(PL_cost+ SR_cost + WR_cost+CostXLi)	Gailey (2020)

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Data Sources:

1. County shapefile. https://data.cnra.ca.gov/dataset/california-counties. Accessed May 2019.
2. Census Data. https://factfinder.census.gov/faces/nav/jsf/pages/download_center.xhtml
3. Pace, C., Balazs, C., Cushing, L., Morello-Frosch, R. (2019). UC Berkeley Water Equity Science Shop. Community Water System Boundaries.
4. Pace, C., Balazs, C., Cushing, L., Morello-Frosch, R. (2019). UC Berkeley Water Equity Science Shop. Domestic Well Community Boundaries Version 1.0.
5. Gailey, R. (2020) California Supply Well Impact Analysis for Drinking Water Vulnerability Webtool.
6. DWR Bulletin 118 Groundwater Basins. https://data.cnra.ca.gov/dataset/ca-bulletin-118-groundwater-basins. Accessed May 2019.
7. Exclusive GSA Master. https://sgma.water.ca.gov/webgis/index.jsp?appid=gasmaster&rz=true. Accessed October 2019.

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