

UNIVERSITY of CALIFORNIA  
cal fresh Nutrition Education

**UC CalFresh Town Hall Webinar:**  
**An Introduction to *The Network for a Healthy California* GIS Viewer 2.0**

**Anthony Barnes & Bhavdeep Sachdev**  
Tuesday, February 18, 2014



Funded through a joint agreement among the U.S. Department of Agriculture/Food & Nutrition Services (USDA/FNS), the California Department of Social Services (CDSS) CalFresh Branch, and the University of California Cooperative Extension (UCCE).

---

---

---

---

---

---

---

---

---

---

Welcome to


---

**An Introduction to  
*The Network for a Healthy California*  
GIS Viewer 2.0**

---

**Training**

Anthony Barnes  
Bhavdeep Sachdev




---

---

---

---

---

---

---

---

---


---

**Agenda**

---

1. **GIS** (Basics of Geographic Information Systems)
2. **Site Layout** (Understanding where Everything is)
3. **Panning and Zooming** (4 Techniques to get where you want)
4. **Searching for Addresses** (Jump to a New Location 2.0)
5. **Layer List and the Legend** (Accessing the Data)
6. **Qualifying Census Tracts** (Working with the Demographic Layers)
7. **How to Download Data** (Taking the Data Home with you)
8. **Advanced Tools** (Buffering, Drawing and Drive Times)
9. **Saving, Loading and Resetting the Map**
10. **Sample Scenarios**
11. **Questions**

---




---

---

---

---

---

---

---

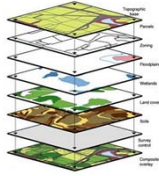
---

---

---

What is GIS and Why Do We Use It?

- Geographic Information System (GIS) is a system that captures, stores, and presents data that are linked to a location.
- Data is presented in layers over a map to show spatial relationships. These are called data layers.
- The *Network for a Healthy California* uses GIS to target specific communities and plan appropriate interventions.
- A feature is another way to refer to an active data layer on the map. There are two types of features.




---

---

---

---

---

---

---

---

Data Layer Types

- **Point Features** : ie: Schools, Grocery Stores, or Fast Food



- Polygon Features** : ie: Counties, Census Tracts or Population Centers, Zip Codes.

---

---

---

---

---

---

---

---

How to find the web site?

<http://www.cdph.ca.gov/programs/CPNS>

Under Data and Statistics, click on the link  
[California Geographic Information System \(GIS\) Map Viewer](#)

Or

[www.cnnngis.org](http://www.cnnngis.org)




---

---

---

---

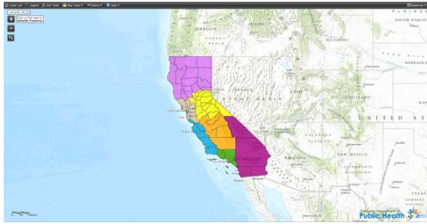
---

---

---

---

## Welcome to CNN GIS Viewer 2.0




---

---

---

---

---

---

---

---

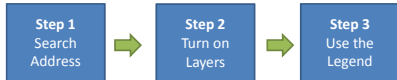


## Example



Using Search Bar, Layer List and Legend to determine the following question.

Question: How many large chain grocery stores are in Census Tract "06067002000"?



Retail Food Channels > Retail Markets, CalFresh and WIC Vendors > General Grocery




---

---

---

---

---

---

---

---

### Qualified Census Tracts

#### What is a qualified census tract?

• A qualified census tract is a tract in which at least 50% of the targeted population is under the Federal Poverty Level

Example:  
 A tract has a Total Population of 10,000.  
 It has 6000 (60%) people under the Federal Poverty Level.  
 It is qualified.

#### Why is it necessary to determine eligibility of a census tract?

- This helps ensure that targeted populations are low income.
- USDA requires that funding be targeted only to snap eligible populations and other low-income households, with incomes at or below 185% of the Federal Poverty Level.

---

---

---

---

---

---

---

---

**Qualified Census Tracts**

What layers do we have?

**American Community Survey 2007-2011 is most current**

- All Races at 185% by Census Tracts
- Individual Races at 100% by Census Tracts
- All Races at 185% by Block Groups
- Median Household Income by Block Groups
- Households with income less then \$20,000 by Block Groups

**American Community Survey 2006-2010**

- All Races at 185% by Census Tracts
- Individual Races at 100% by Census Tracts
- All Races at 185% by Block Groups
- Median Household Income by Block Groups
- Households with income less then \$20,000 by Block Groups
- Individual Races at 185% by Census Tracts (Data is not 100% complete)

---

---

---

---

---

---

---

---

---

---

**ACS Future Releases**

**American Community Survey 2008-2012 is coming later this year**

- All Races at 185% by Census Tracts
- Individual Races at 100% by Census Tracts
- All Races at 185% by Block Groups
- Median Household Income by Block Groups
- Households with income less then \$20,000 by Block Groups

**American Community Survey 2009-2013:** Released on CNN GIS in 2015

**American Community Survey 2010-2014:** Released on CNN GIS in 2016

**American Community Survey 2011-2015:** Released on CNN GIS in 2017  
 (185% for Individual Races)

---

---

---

---

---



---

---

---

---

---

 **Scenario 1** 

**1. You hear about a Farmers' Market in San Francisco which is held at approximately Union Street and Powell Street. You would like to set up a nutrition education stand at the market.**

Question: Is this Farmer's Market in an eligible tract and does it accept EBT?

Step 1  
Search Address



→

Step 2  
Turn on Layers

→

Step 3  
Use Identify Tool

[Retail Food Channels](#) > [Retail Markets, CalFresh and WIC Vendors](#) > [Farmers Markets](#)

---

---

---

---

---


---

---


---

---

---



## Scenario 2



---

**2. Children's Hospital of Los Angeles is planning a health fair. The fair will be located at 4650 W. Sunset Blvd, Los Angeles, CA 90027. You would like to advertise the event with flyers at nearby grocery stores.**

Question: How many grocery stores are within a 1 mile of the hospital?

Step 1  
Search Address

➔

Step 2  
Turn on Layers



➔

Step 3  
Set the Target Layer

➔

Step 3  
Use Buffer Tool

Retail Food Channels > Retail Markets, CalFresh and WIC Vendors > General Grocery

---

---

---

---

---


---

---


---

---

---



## Scenario 3



---

**3. You work with schools and grocery stores in a specific neighborhood in downtown Sacramento, located south of J Street, and west of 16<sup>th</sup> Street. With Highway 50 and Interstate 5 as the southern and western boundaries.**

Question: How many Fast Food Restaurants are located in this neighborhood?

*Hint: Address Search to the cross street J and 16<sup>th</sup> St (Northeast corner)*

Step 1  
Zoom to Location

➔

Step 2  
Turn on Layers



➔

Step 3  
Set the Target Layer

➔

Step 4  
Use Drawing Tool

Retail Food Channels > Eating Places > Fast Food, Pizza, Sandwiches

---

---

---

---

---

---

---

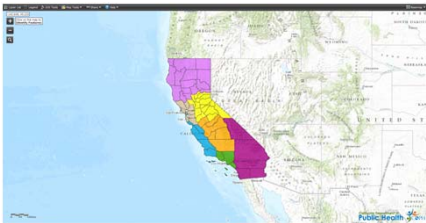
---



---

---

## Questions?

---



---

---

---

---

---

---

---

---

---

---

**Thank you!**



---

Tutorial Videos will be placed in the help menu at a later date.

If you have any further questions, or suggestions about this training please contact us at.

Anthony Barnes: (916) 445-2835 or e-mail Anthony.Barnes@cdph.ca.gov  
 Bhavdeep Sachdev: (916) 445-2834 or e-mail Bhavdeep.Sachdev@cdph.ca.gov

---

---

---

---

---

---

---

---

---

## Upcoming Meetings

- February 20, 2014, 9:15-10:15 AM: NFCS Advisor Meeting**
  - Location: UCD Conference Center, Davis
- February 26, 2014: Pre-Meeting for UC CalFresh Nutrition Education Program Staff**
  - Location: Compagno Room, Sheraton Grand Hotel, Sacramento
  - Details will be shared at the February 20<sup>th</sup> NFCS Advisor Meeting
- February 27-28, 2014: SNAP-Ed Local Implementing Agency Forum (LIAF)**
  - Location: Sacramento Convention Center, Sacramento
  - **Tomorrow, 02/19/14, is the last day to register!**
  - Registration Link: [https://www.cce.csus.edu/conferences/webreg/Register\\_nhc\\_snap14.cfm?CID=1606](https://www.cce.csus.edu/conferences/webreg/Register_nhc_snap14.cfm?CID=1606)

UNIVERSITY of CALIFORNIA  
 cal fresh Nutrition Education

---

---

---

---

---

---

---

---

## Upcoming Meetings (cont.)

- March 18, 2014: UC CalFresh Town Hall Meeting**
  - Topic: Follow-up to February Forum
- April 15, 2014: UC CalFresh Town Hall Meeting**
  - Topic: Introduction to the UC CalFresh & EFNEP Skills-Based Training Institute
- Smarter Lunchrooms Movement in California, Training for Technical Assistance Providers**
  - Various dates based on region

UNIVERSITY of CALIFORNIA  
 cal fresh Nutrition Education

---

---

---

---

---

---

---

---