

Quick Start Guide to BioSense 2.0

Nabarun Dasgupta

www.biosen.se

ALL questions: info@biosen.se

Collaboration site: biosenseredesign.org

How do I register as a new user of BioSense 2.0?



What is BioSense?

[Register for a BioSense account](#)



Your Email

Password

GO

[Register](#) [Forgot password](#)

By logging in, you accept the BioSense User Login Agreement:

As an authorized user of BioSense, and by logging in, you are indicating that you agree to the conditions described below, including the terms and conditions herein, to protect the privacy and confidentiality of individuals and the protection of the data. User verifies that he/she is an authorized user of BioSense and is carrying out authorized public health activities in his/her jurisdiction.

This is a **private** computer system, and is provided only for authorized use. It may be monitored for all lawful purposes, including for management of the system and for protection against unauthorized access. During monitoring, information may be examined, recorded, copied, and used for authorized purposes. All information, including personal information, placed on or sent over this system may be monitored. Use of this system, authorized or unauthorized, constitutes consent to monitoring of this system. Unauthorized access or use may subject you to criminal prosecution. Evidence of unauthorized use collected during monitoring may be used for administrative, criminal or other adverse action.

1. I agree that I will not release or redistribute the data or analyses thereof to others outside of authorized public health personnel without written permission from the Association of State and Territorial Health Officials (ASTHO) BioSense program officials.
2. I agree that I will make no attempt to identify individuals represented in the data or data sources if not already known except as part of authorized public health follow-up.
3. I will immediately advise ASTHO of any inadvertent identification or disclosure.
4. I agree that I will not use these data where it is prohibited by local or state law or federal law or regulation.
5. I agree that I will transport and use the data in accordance with acceptable practices for ensuring the protection, confidentiality, and integrity of the contents. This includes making no attempt to re-identify the data outside of an authorized public health investigation.
6. I understand that violation of this agreement may result in ASTHO disallowing my access to BioSense.

BioSense

Public Health Surveillance Through Collaboration

<https://biosen.se>

2.0

BETA
BioSense 2.0

Register

Note: Your registration will need to be approved before your account is activated. You'll be notified via email when your account is approved.

First Name*

Last Name*

Email*

Title

Affiliation

Organization*

Password (minimum 8 characters)*

Confirm Password*

Choose first security question*

BioSense User Login Agreement*

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 6. I understand that violation of this agreement may result in ASTHO disallowing my access to BioSense.
- I have read, and I accept, the terms of the BioSense User Login Agreement.

BioSense

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2.0

BioSense 2.0



What is
BioSense?

[Register for a BioSense account](#)



Your Email

Password

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[Register](#) [Forgot password](#)

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Confirm Your Login

Because you have not logged in from this computer before, you will need to answer your security questions.

In what city did you meet your spouse
(city name only, no state)?

What is your high school mascot?

Register this computer for future logins

What syndromes are available for display in BioSense 2.0?

BioSense 2.0 BETA

Welcome, Naberun

what where when

GO

Clear Search Advanced Options

my views

- ILI HHS Region 4 March 2013
- heat region 4 2012 summer
- TC ILI last month
- Insect
- CPA analysis of ILI
- view for yvonne

BioSense most popular

- Influenza-like illness - USA - 1 year
- Influenza-like illness - USA - 1 year
- Influenza-like illness - USA - 1 year
- All Visits - USA - 1 year
- Bronchitis and bronchiolitis - CA - 1 month
- All Visits - USA - 1 year

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

Welcome, Nabanun

BioSense 2.0 BETA

You may enter multiple syndromes. you enter more than one, you will have the option to compare or combine the data.

what where when GO

Clear Search Advanced Options

my views

- ILI H&G Region 4 March 2013
- heat region 4 2012 summer
- TC ILI last month
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- Influenza-like illness - USA - 1 year
- All Visits - USA - 1 year
- Bronchitis and bronchiolitis - CA - 1 month
- All Visits - USA - 1 year

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Welcome, Nabanin

BioSense 2.0

what where when

inf

- CNS, **inf**lammatory disease
- inf**luenza-like illness (ILI)
- Intestinal **inf**ections, ill-defined
- Skin **inf**ection
- Specific **inf**ection
- Upper respiratory **inf**ections
- Urinary tract **inf**ection
- Viral **inf**ection, unspecified
- Specific **inf**ection
- H. **inf**luenza
- Para**inf**luenza

GO

Clear Search Advanced Options

My views

- ILI HHS Region 4 March 2013
- heat region 4 2012 summer
- TC ILI last month
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- CPA analysis of ILI
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BioSense most popular

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- Bronchitis and bronchiolitis - CA - 1 month
- All Visits - USA - 1 year

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influenza-like illness

Diagnosis Search Terms

Include: 488, V06.6, V06E, V0481, V04.81, V048, V04.8, 487
Exclude: V03.81, V0381

Procedure Search Terms

Include: 90721, 90748, 90696, 90720, 90648, 90663, 90645, 90646, 90647, 90680, 9052, 9952, Q0008, 90857, 90474, 90659, 90658, 90688, 90655, 90471, 90472, 90473

Diagnosis Text Search Terms

Include: influenza, flulike, fl sym, flu
Exclude: flu up, flu prevention, flu mod, flu inj, a flu, stomache flu, stomach flu, spinal flu, intestinal flu

Chief Complaint Search Terms

Include: flu, flulike, fl sym, influenza
Exclude: flu up, flu prevention, flu mod, flu inj, a flu, stomache flu, stomach flu, spinal flu, intestinal flu

Injury

Sub-Syndrome Search Terms

Include: Poisoning by medicines, Sprains and strains, Open wound, Injury, NOS, Myalgia, Fractures and dislocation, Heat, excessive, Falls, Burns, Carbon monoxide poisoning, Bites, animal

Injury, NOS

Diagnosis Search Terms

Include: 959

Diagnosis Text Search Terms

Include: inj, injury, contusion, myalgia + traumatic, hematoma, injuries, concussion, avulsion, abrasion

Chief Complaint Search Terms

Include: inj, injury, hit, fishing, diving, desgare, desgare, contusion, assaulted, assault, achilles

Insect bites

Diagnosis Search Terms

Include: 9165, 9174, 9175, 9194, 9195, 9154, 9155, 9164, 9156, 9144, 9145, 9134, 9125, 9124, 9115, 9104, 9105, 9114, 9104, 9105, 9114, 9115, 9124, 9125, 9134, 9135, 9144, 9145, 9154, 9155, 9164, 9165, 9174, 9175, 9194, 9195

influenza-

1 of 4



How do you run a query in BioSense 2.0?

Welcome, Nabeerun
BioSense 2.0

what

Influenza-like illness (ILI)

where

Geo

Georgia

Prince George's County, MD

George County, MS

Georgetown County, SC

King George County, VA

Prince George County, VA

when

GO
Clear Search
Advanced Options

my views

- ILI HHS Region 4 March 2013
✕
- Heat region 4 2012 summer
✕
- TC ILI last month
✕
- Insect
✕
👤
- CPA analysis of ILI
✕
- View for yvonne
✕
👤

BioSense most popular

- Influenza-like illness - USA - 1 year
⌵
- Influenza-like illness - USA - 1 year
⌵
- Influenza-like illness - USA - 1 year
⌵
- All Vets - USA - 1 year
⌵
- Bronchitis and bronchiolitis - CA - 1 month
⌵
- All Vets - USA - 1 year
⌵

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Welcome, Nabarin

BioSense 2.0

what

where

when

Influenza-like illness (ILI) Dallas County, TX Tarrant County, TX

time period

- Past week
- Past month
- Past year

Date Range

Start date

May 2012

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

End date

May 2013

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Done

my views

- ILI HHS Region 4 March 2013
- heat region 4 2012 summer
- TO ILI last month
- Insect
- CPA analysis of ILI
- view for yvonne

BioSense most p

- Influenza-like illness
- Influenza-like illness
- Influenza-like illness
- All Visits - USA -
- Bronchitis and tr
- All Visits - USA -

Suggest a

<http://biosenseredesign.org>

The screenshot displays the BioSense 2.0 web application interface. At the top, a green header contains the BioSense 2.0 logo and a user greeting "Welcome, Nabanur". Below the header, the main search area is divided into three sections: "what", "where", and "when".

- what:** A search input field with a dropdown menu showing "Influenza-like illness (ILI)".
- where:** A search input field with a dropdown menu showing "Dallas County, TX" and "Tarrant County, TX".
- when:** A date range input field showing "5/3/2012 - 5/3/2013".

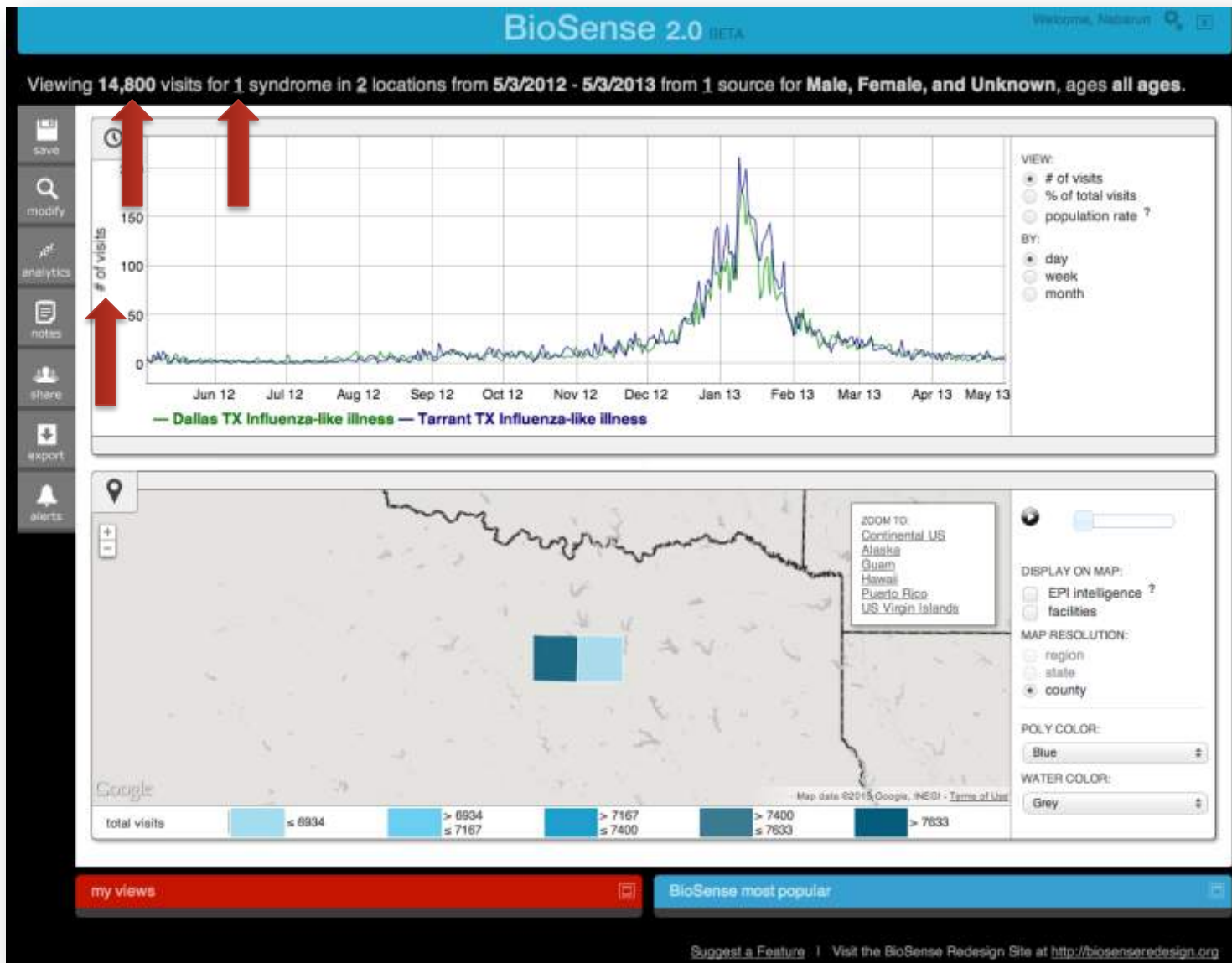
Below the search fields, there are buttons for "GO", "Clear Search", and "Advanced Options".

The "Advanced Search Options" panel is expanded, showing three main categories:

- Sources:** A list of data sources with checkboxes, including Alabama DPH, Alaska, Arizona, Arkansas DPH, BPHC, California, Colorado, Cook County, DOD, Georgia, Illinois, Indiana, Kansas, Los Angeles County, Louisiana, Maryland, Michigan, Missouri, Nevada, North Carolina, and Ohio.
- demographics:**
 - Gender: Male, Female, Unknown
 - Age ranges: 0-<2, 2-4, 5-17, 18-49, 50-64, 65+, Other
- method:** A dropdown menu currently set to "CUSTOM".

At the bottom of the interface, there are two panels:

- my views:** A sidebar with a red header containing a list of saved views with small line graphs and close buttons.
- BioSense most popular:** A panel with a blue header showing a list of popular search queries, such as "Influenza-like illness - USA - 1 year" and "All Visits - USA - 1 year", each accompanied by a small line graph.



BioSense 2.0

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BioSense 2.0 BETA

Welcome, Natarun

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Influenza-like illness

Diagnosis Search Terms
Include: 488, V06.6, V066, V0481, V04.81, V048, V04.8, 487
Exclude: V03.81, V0381

Procedure Search Terms
Include: 90721, 90748, 90698, 90720, 90648, 90663, 90645, 90646, 90647, 90680, 99.52, 9952, 0.0008, 90657, 90474, 90658, 90658, 90658, 90655, 90471, 90472, 90473

Diagnosis Text Search Terms
Include: influenza, flulike, fly sym, flu
Exclude: flu up, flu prevention, flu med, flu inj, a flu, stomache flu, stomach flu, spinal flu, intestinal flu

Chief Complaint Search Terms
Include: flu, flulike, fly sym, influenza
Exclude: flu up, flu prevention, flu med, flu inj, a flu, stomache flu, stomach flu, spinal flu, intestinal flu

Detailed explanation of data collection methods:
[Summary of data reported to CDC's national automated biosense@cdc.gov](#), 2008, Jerome J. Teunis, Rosanna E. Kishor, Paul McIntyre, and Barry Hoodes. BMC Medical Informatics and Decision Making 2010

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:
Blue

WATER COLOR:
Grey

total visits

≤ 6934	> 6934 ≤ 7167	> 7167 ≤ 7400	> 7400 ≤ 7633	> 7633
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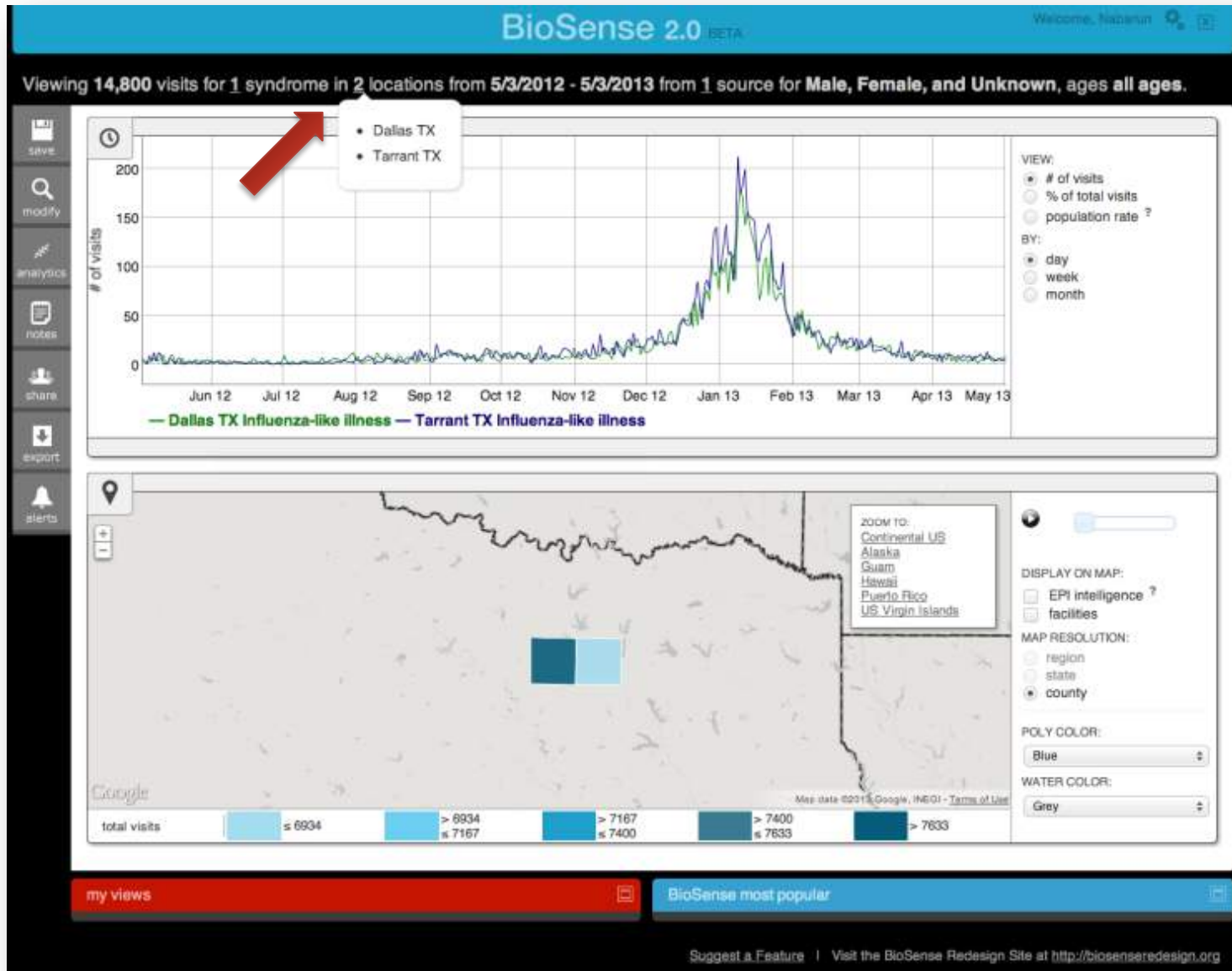
my views | BioSense most popular

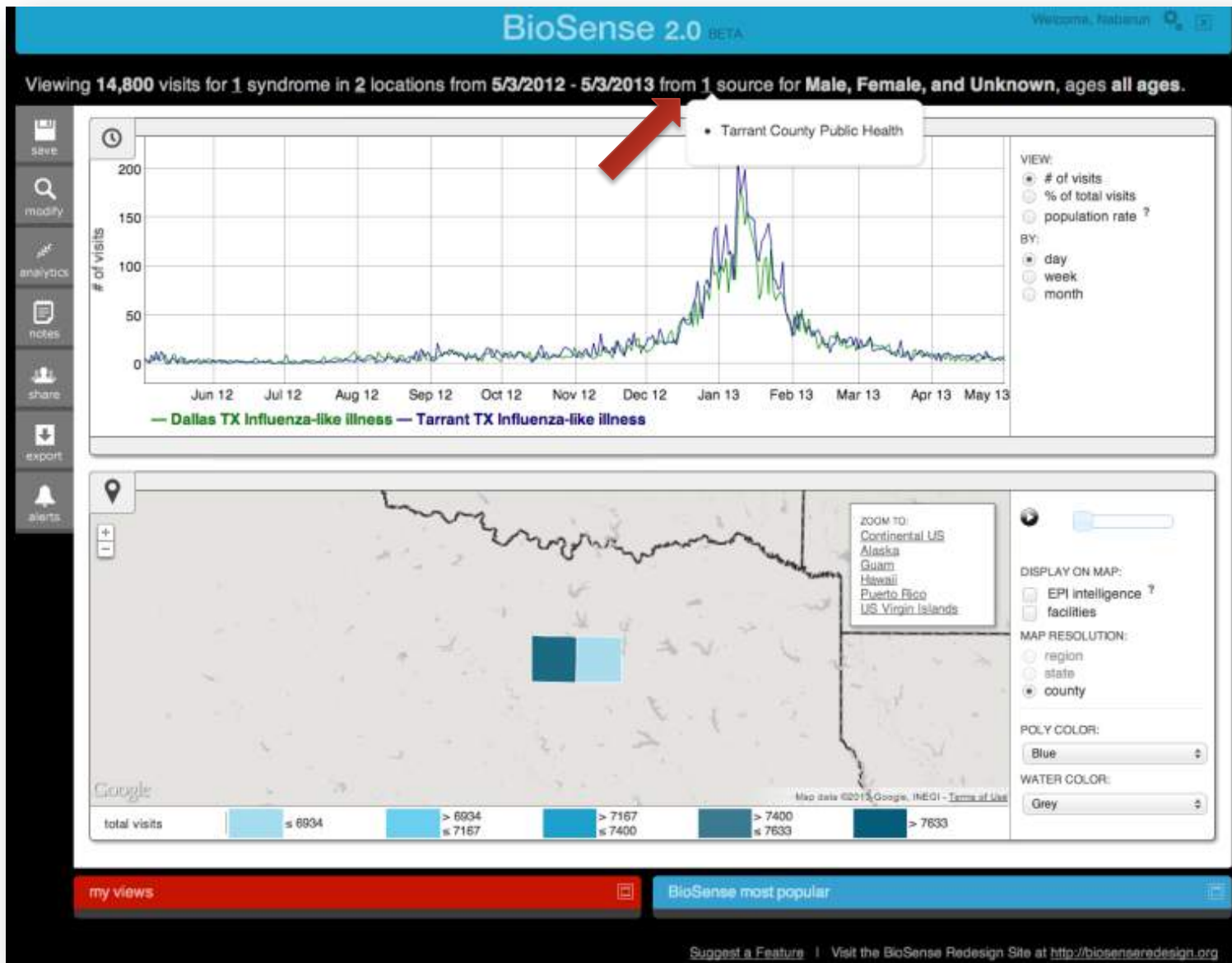
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BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>





**How do I modify the map and timeline visualization?
How do I smooth the data?**

BioSense 2.0

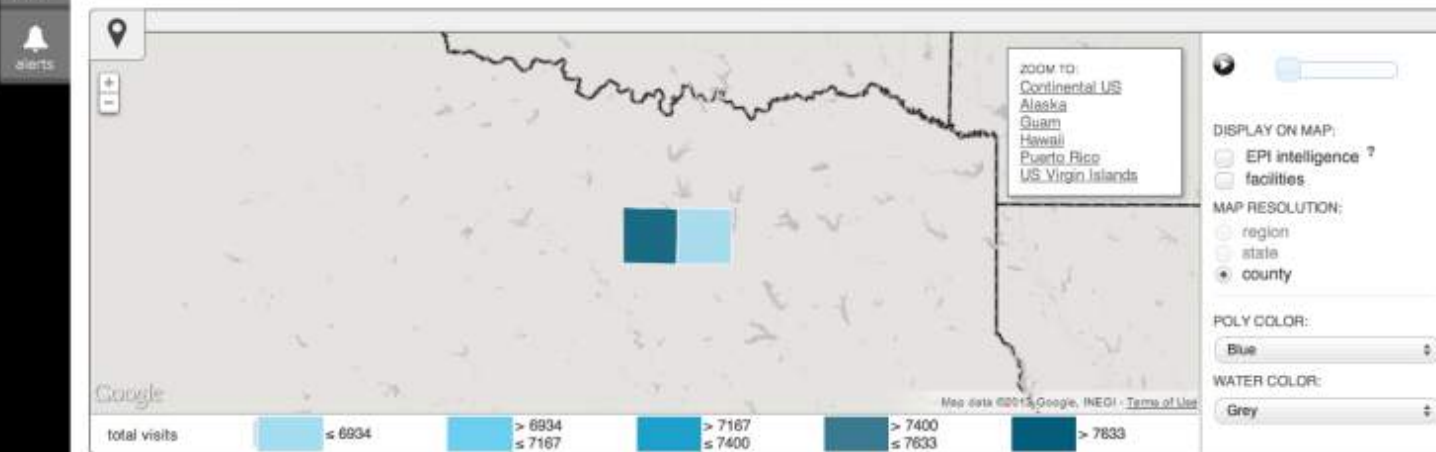
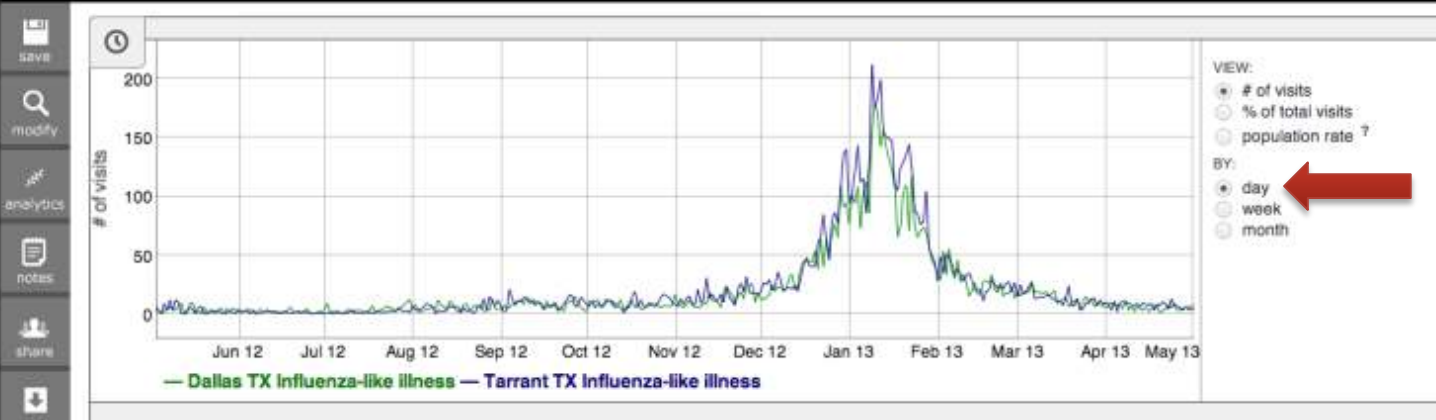
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BioSense 2.0 BETA

Welcome, Nabanun

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.



my views

BioSense most popular

Welcome, Nabanun

BioSense 2.0 BETA

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

save

modify

analytics

notes

share

export

alerts

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week ←
 month

— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

ZOOM TO:
 Continental US
 Alaska
 Guam
 Hawaii
 Puerto Rico
 US Virgin Islands

DISPLAY ON MAP:
 EPI intelligence ?
 facilities

MAP RESOLUTION:
 region
 state
 county

POLY COLOR:
 Blue

WATER COLOR:
 Grey

total visits: ≤ 6934, > 6934 ≤ 7167, > 7167 ≤ 7400, > 7400 ≤ 7633, > 7633

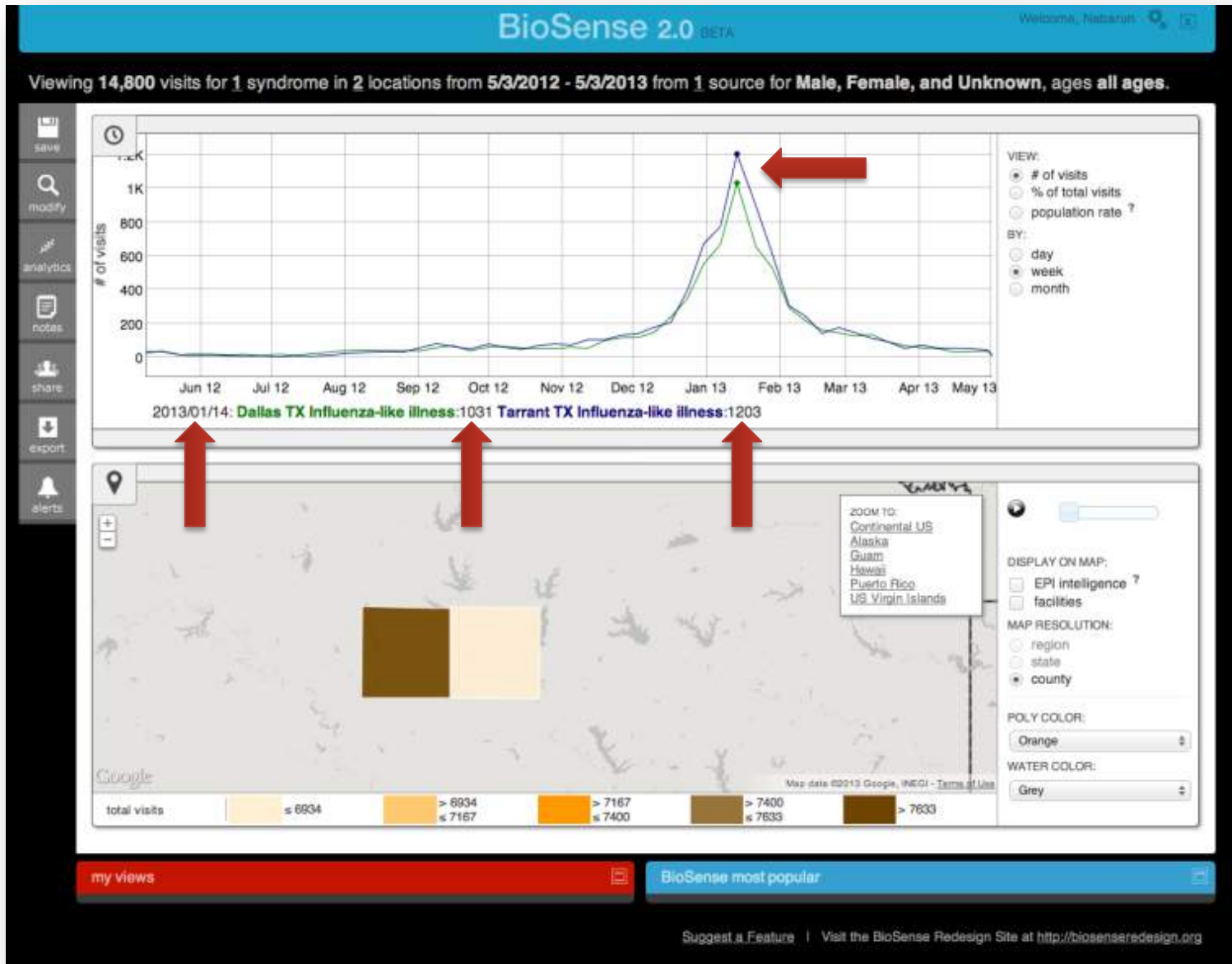
my views
BioSense most popular

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BioSense 2.0

Public Health Surveillance Through Collaboration

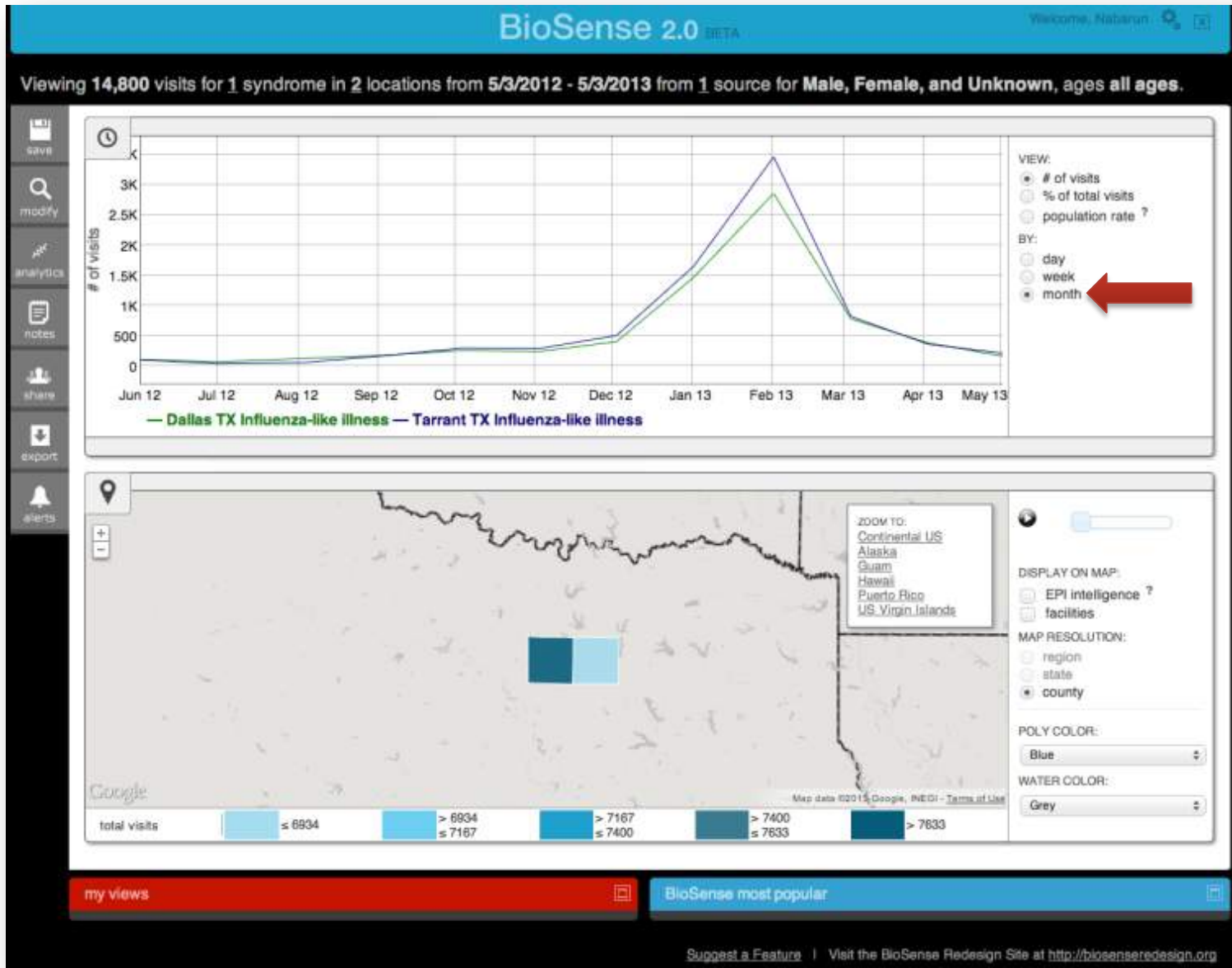
<https://biosen.se>

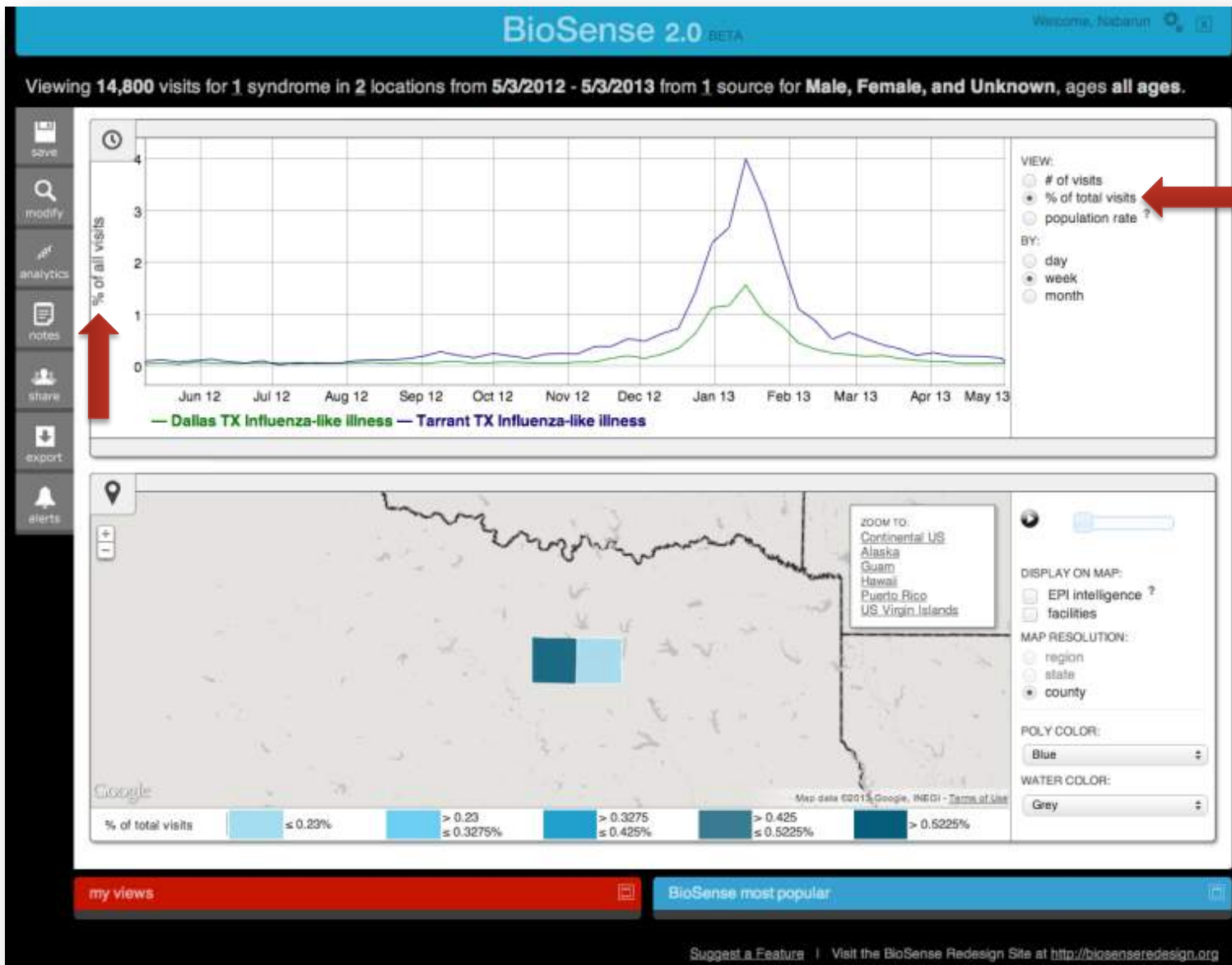


BioSense 2.0

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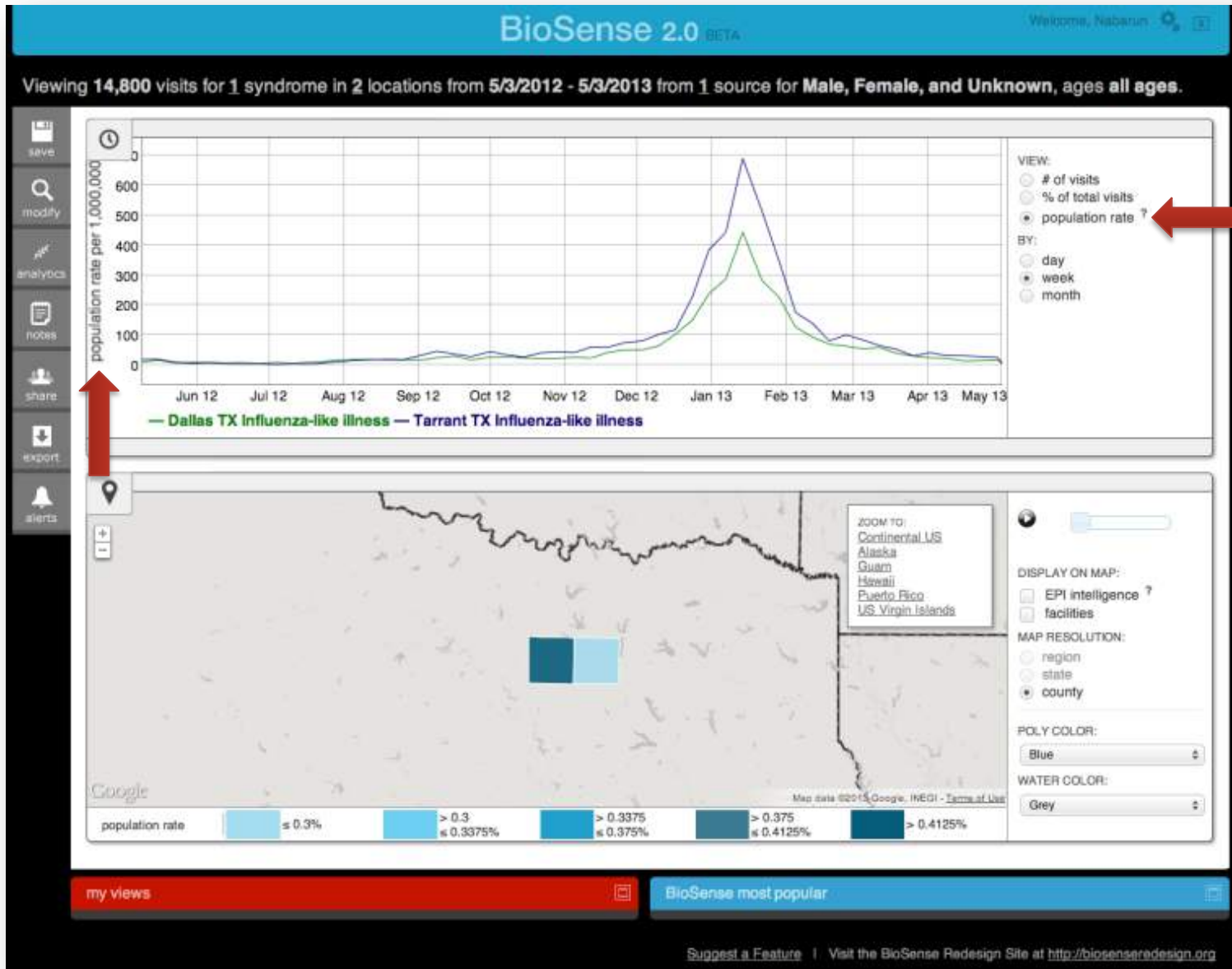




BioSense 2.0

Public Health Surveillance Through Collaboration

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Welcome, Nabanun

BioSense 2.0 BETA

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

- save
- modify
- analytics
- notes
- share
- export
- alerts

— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

- Blue
- Orange
- Muted Green
- Green
- Gold

population rate

≤ 0.3%	> 0.3 ≤ 0.3375%	> 0.3375 ≤ 0.375%	> 0.375 ≤ 0.4125%	> 0.4125%
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my views
BioSense most popular

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BioSense 2.0

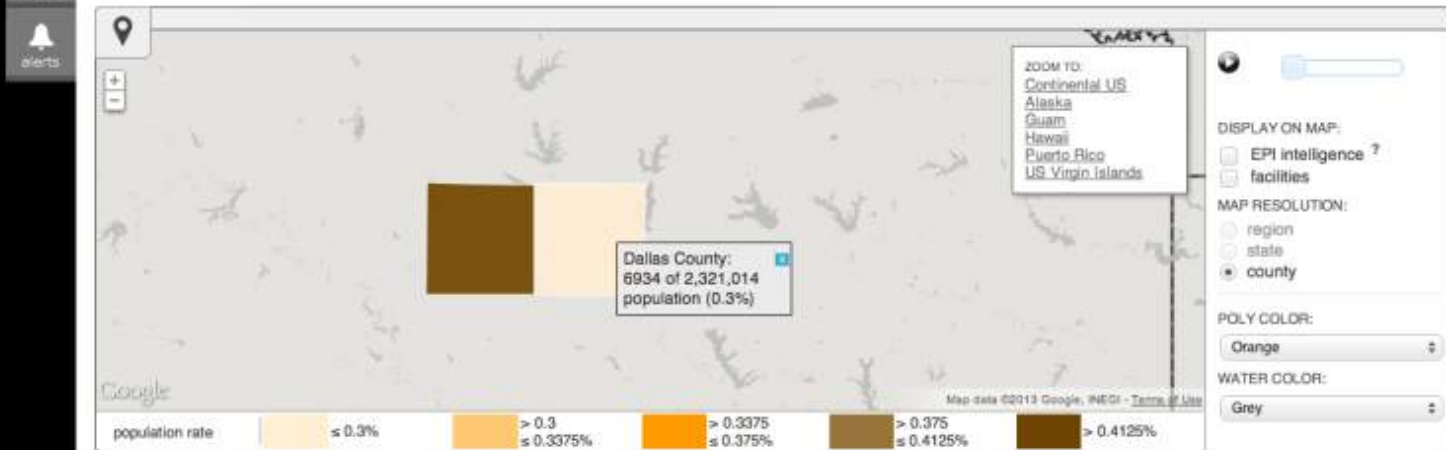
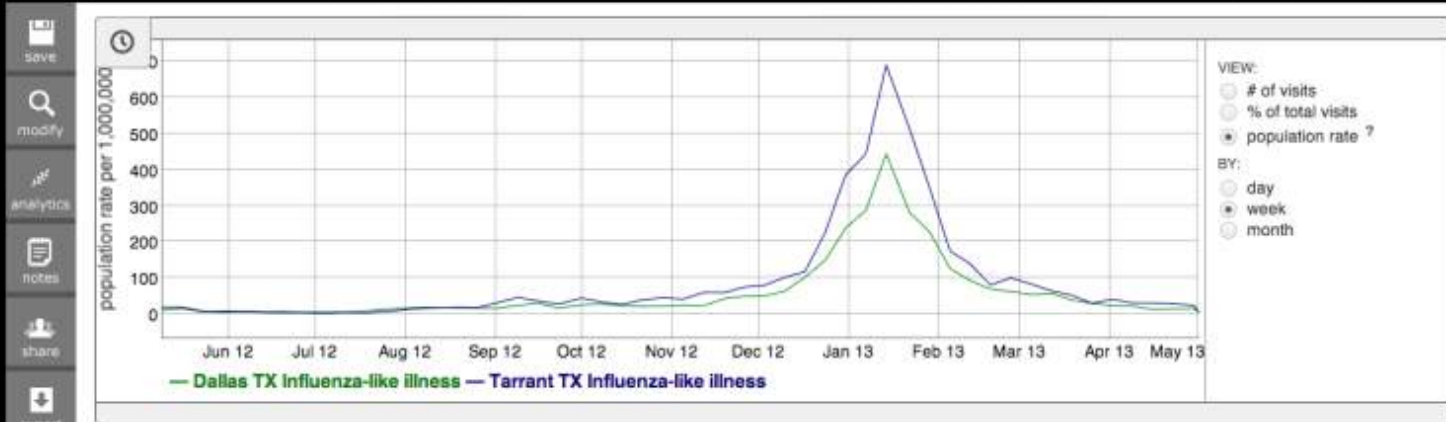
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BioSense 2.0 BETA

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my views

BioSense most popular

What facilities are reporting data contributing to this view?

Welcome, Natsumi

BioSense 2.0 BETA

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

save
 modify
 analytics
 notes
 share
 export
 alerts

VIEW:
 # of visits
 % of total visits
 population rate ?
 BY:
 day
 week
 month

— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

zoom to:
 Continental US
 Alaska
 Guam
 Hawaii
 Puerto Rico
 US Virgin Islands

DISPLAY ON MAP:
 EPI intelligence
 facilities

MAP RESOLUTION:
 region
 state
 county

POLY COLOR: Orange
 WATER COLOR: Grey

population rate	≤ 0.3%	> 0.3 ≤ 0.3375%	> 0.3375 ≤ 0.375%	> 0.375 ≤ 0.4125%	> 0.4125%
Color swatch	Lightest yellow	Light yellow	Yellow-orange	Orange	Darkest orange

my views

BioSense most popular

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What kind situational awareness is available?

Welcome, Nabanun

BioSense 2.0 BETA

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

- save
- modify
- analytics
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— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

zoom to:
 Continental US
 Alaska
 Guam
 Hawaii
 Puerto Rico
 US Virgin Islands

DISPLAY ON MAP:

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MAP RESOLUTION:

- region
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POLY COLOR:

Orange

WATER COLOR:

Grey

my views

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2.0

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Print Edition 2-28-2013



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- Online hunting license application help available statewide 29 Feb 2012
- Local artist makes waves in New Mexico art scene and beyond 29 Feb 2012
- Migraine headaches have various causes 29 Feb 2012
- Voters to choose trustees March 5; President and more Nov. 5 29 Feb 2012
- Gilwood's annual Dutch Oven Cook-Off 29 Feb 2012

A local firefighter's journal

Call for vendors at fundraising event

NEW MEXICO DEPARTMENT OF HEALTH

Socorro County Fox Diagnosed with Rabies

April 27, 2013 | Author: Press Release

The New Mexico Department of Health confirmed rabies in a fox that attacked a young dog at a home. The attack happened about a mile south of Magdalena on March 23. Tissue samples from the fox submitted to the Department of Health's Scientific Laboratory Division tested positive for rabies.

"It's tragic this pet had not been vaccinated against rabies and had to be euthanized so that children and other family members would not be put at unnecessary risk and exposure to a very dangerous and fatal disease," said Paul Ellstad, Public Health Veterinarian for the Department of Health. "There is the potential for other foxes in the area to be spreading rabies so it becomes very important that all dogs and cats get a rabies vaccination as soon as possible."

The young dog that was attacked had no history of rabies vaccination and had to be euthanized. No persons or other pets or livestock are known to have been bitten by the rabid fox.

The last confirmed animal rabies cases in Socorro County were a calf and a bat, both in 2009.

The following guidelines can help protect you and your family from rabies:

- Keep pets on a leash at all times. Pets should be up-to-date on rabies vaccinations and wearing current license tags on their collar. If your cat or dog has been bitten or scratched, call your pet's veterinarian, even if the wound is superficial.
- Horses and other valuable livestock should be considered for rabies vaccination also to protect them from wild rabid animals that may attack them.
- Stay away from wild or unfamiliar animals. Do not attempt to feed, approach, or touch wild animals (alive or dead). Teach this important message to your children and keep a close eye on your kids at all times.
- If you see a sick or dead wild animal, or a wild animal acting abnormally in this area, report it to your local animal control authorities. Rabid animals may show no fear of people and may even seem friendly or become aggressive.
- Don't leave pet food, water, or filled garbage cans out overnight as this could attract wild animals to your home.

If you are bitten or scratched by a wild animal or a pet, the Department of Health recommends the following guidelines:

- Wash all wounds and contact areas thoroughly with soap and water.

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How do I save a view (for sharing via email, setting alerts, statistical analysis, etc.)?

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The screenshot displays the BioSense 2.0 interface. At the top, it says "BioSense 2.0 BETA" and "Welcome, Nabarun". Below this, a summary line reads: "Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages." A red arrow points to the "save" icon in the left sidebar.

The "Save this view" dialog box is open, containing the following fields and options:

- name:** ILI view 2
- description:** Query for my annual report
- time range:** fixed: 5/1/2012 - 5/3/2013, sliding: 1 year from current date

A red arrow points to the "sliding" radio button, and another red arrow points to the "Save" button.

The background interface includes:

- VIEW:** # of visits, % of total visits, population rate ?
- BY:** day, week, month
- Map:** A map of the United States with a legend for "ZOOM TO: Continental US, Alaska, Guam, Hawaii, Puerto Rico, US Virgin Islands".
- DISPLAY ON MAP:** EPI intelligence ?, facilities
- MAP RESOLUTION:** region, state, county
- POLY COLOR:** Orange
- WATER COLOR:** Grey

At the bottom, there is a "my views" section with a red bar and a "BioSense most popular" section with a blue bar. A red arrow points to the "my views" section.

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Fabaron

Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week
 month

— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

ZOOM TO:
Continental US
Alaska
Guam
Hawaii
Puerto Rico
US Virgin Islands

DISPLAY ON MAP:
 EPI intelligence ?
 facilities

MAP RESOLUTION:
 region
 state
 county

POLY COLOR:
Orange

WATER COLOR:
Grey

Map data ©2013 Google, INEGI - Terms of Use

> 7408
≤ 7642

my views

- ILJ view 2
- ILJ HHS Region 4 March 2013
- heat region 4 2012 summer
- TC ILJ last month
- Insect
- CPA analysis of ILJ

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How do I run statistical analyses on the data using the interface?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

The screenshot displays the BioSense 2.0 interface. At the top, it says "BioSense 2.0 BETA" and "Welcome, Nibarun". Below this, a summary line reads: "Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages." A left sidebar contains icons for save, modify, analytics, notes, share, export, and alerts. The main area is split into two panels. The top panel, titled "Analytics for this View", contains a line graph and a settings panel. The settings panel includes a "VIEW:" section with radio buttons for "# of visits", "% of total visits", and "population rate?". A tooltip is overlaid on the graph, stating: "This feature requires that your timeseries view be '% of total visits by day'. Clicking continue will adjust your query accordingly." Below the graph is a map of the United States with a legend for "total visits" showing color-coded ranges. The bottom of the interface has a red bar for "my views" and a blue bar for "BioSense most popular".

Analytics for this View

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

This feature requires that your timeseries view be "% of total visits by day". Clicking continue will adjust your query accordingly.

Cancel Continue

like illness

ZOOM TO:

- Continental US
- Alaska
- Guam
- Hawaii
- Puerto Rico
- US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

Orange

WATER COLOR:

Grey

total visits

≤ 6934	> 6934 ≤ 7167	> 7167 ≤ 7400	> 7400 ≤ 7633	> 7633
--------	---------------	---------------	---------------	--------

my views

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nilsarun

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

save

modify

analytics

notes

share

export

alerts

Analytics for this View

On

method

- C2
- Change Point Analysis

gap (days) 7

shift 5.0

baseline (days) 7 14 28

** Note: Analytics are only visible when the timeseries is displaying % of total visits by day for a single geographic area and syndrome grouping.*

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

ZOOM TO:

- Continental US
- Alaska
- Guam
- Hawaii
- Puerto Rico
- US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

WATER COLOR:

total visits

≤ 6934	> 6934 ≤ 7167	> 7167 ≤ 7400	> 7400 ≤ 7633	> 7633
--------	---------------	---------------	---------------	--------

my views + + BioSense most popular +

[Suggest a Feature](#) | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

Algorithm Documentation for BioSense 2.0

BioSense 2.0 Redesign Team

October 17, 2012

Algorithms

1 C2 - Proportion Method

1.1 Algorithm

General C2

For each syndrome, the general form of the C2 test statistic is:

$$C2 = \frac{(x_t - \mu)}{s}$$

where x_t is the count or proportion for a syndrome on a given day (t), μ is the arithmetic mean during the baseline period of counts or the proportion of visits for a given syndrome, and s is the standard deviation of the mean during the baseline period.

Adjusted C2

An 'adjusted' or 'rate' version of the C2 was proposed by Tokers (Tokers, 2006) to account for sudden changes in visit frequency that tend to occur on holidays and weekends. In this approach, e_t , the expected number of visits for a given day (t) is calculated as,

$$e_t = n_t \cdot \frac{\sum_{i=1}^m x_i}{\sum_{i=1}^m n_i}$$

where n_i is the total number of visits for a given day, there are m days in the baseline period, x_i is the syndrome count on day i of the baseline period, and n_i is the total number of visits on day i of the baseline period. Note that e_t will differ from μ most noticeably when n_t is large or small. This expected value is then used in place of the simple mean over the baseline period, so that the 'rate' C2 test statistic is:

$$C2' = \frac{(x_t - e_t)}{s'}$$

BioSense 2.0 BETA Welcome, *Felisa*

Viewing **6,934** visits for **1** syndrome in **1** location from **5/3/2012 - 5/3/2013** from **1** source for **Male, Female, and Unknown**, ages **all ages**.

- save
- modify
- analytics
- notes
- share
- export
- alerts

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

-
-
-

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

Blue

WATER COLOR:

Grey

% of total visits

≤ 0.23%	> 0.23%	> 0.23%	> 0.23%
	≤ 0.23%	≤ 0.23%	> 0.23%

my views

BioSense most popular

How do I save my notes on a view?

How do I delete or modify my existing notes on a view?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nabanun

Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Notes for this View

Include this graph in report for Dr. Alvarez.

Save

Additional notes:

- Peak noted in late January. ⊞ ✕ **like illness**
by Nabanun Dasgupta on 2013-05-03
- Check to see if we reported this in press release and how this compares with other states. ⊞ ✕
by Nabanun Dasgupta on 2013-05-03

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR: Orange

WATER COLOR: Grey

total visits

≤ 6940	> 6940 ≤ 7174	> 7174 ≤ 7408	> 7408 ≤ 7642	> 7642
--------	---------------	---------------	---------------	--------

my views **BioSense most popular**

[Suggest a Feature](#) | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How do I share analyses and data within my organization?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Wellcome, Nisarun

Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Share this View

View currently shared with: not shared

share with

- My Organization
- All Eligible BioSense Users

subject

2013 ILI for Dallas and Ft. Worth

message (optional)

Dear Dr. Alvarez and colleagues: Here is the report you asked for.

Share

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

like illness

ZOOM TO:

- Continental US
- Alaska
- Guam
- Hawaii
- Puerto Rico
- US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

Orange

WATER COLOR:

Grey

total visits

≤ 6940	> 6940 ≤ 7174	> 7174 ≤ 7408	> 7408 ≤ 7642	> 7642
--------	---------------	---------------	---------------	--------

my views **BioSense most popular**

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How do I print a view of a map and timeline?

How do I make a PDF of the map and timeline to post on our organization's website?

BioSense

Public Health Surveillance Through Collaboration

<https://biosen.se>

2.0

BioSense 2.0 BETA

Welcome, Nabanun

Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Export this View

filename:

file type:

* More file types to come.

Export

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

like illness

ZOOM TO:

- Continental US
- Alaska
- Guam
- Hawaii
- Puerto Rico
- US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

Orange

WATER COLOR:

Grey

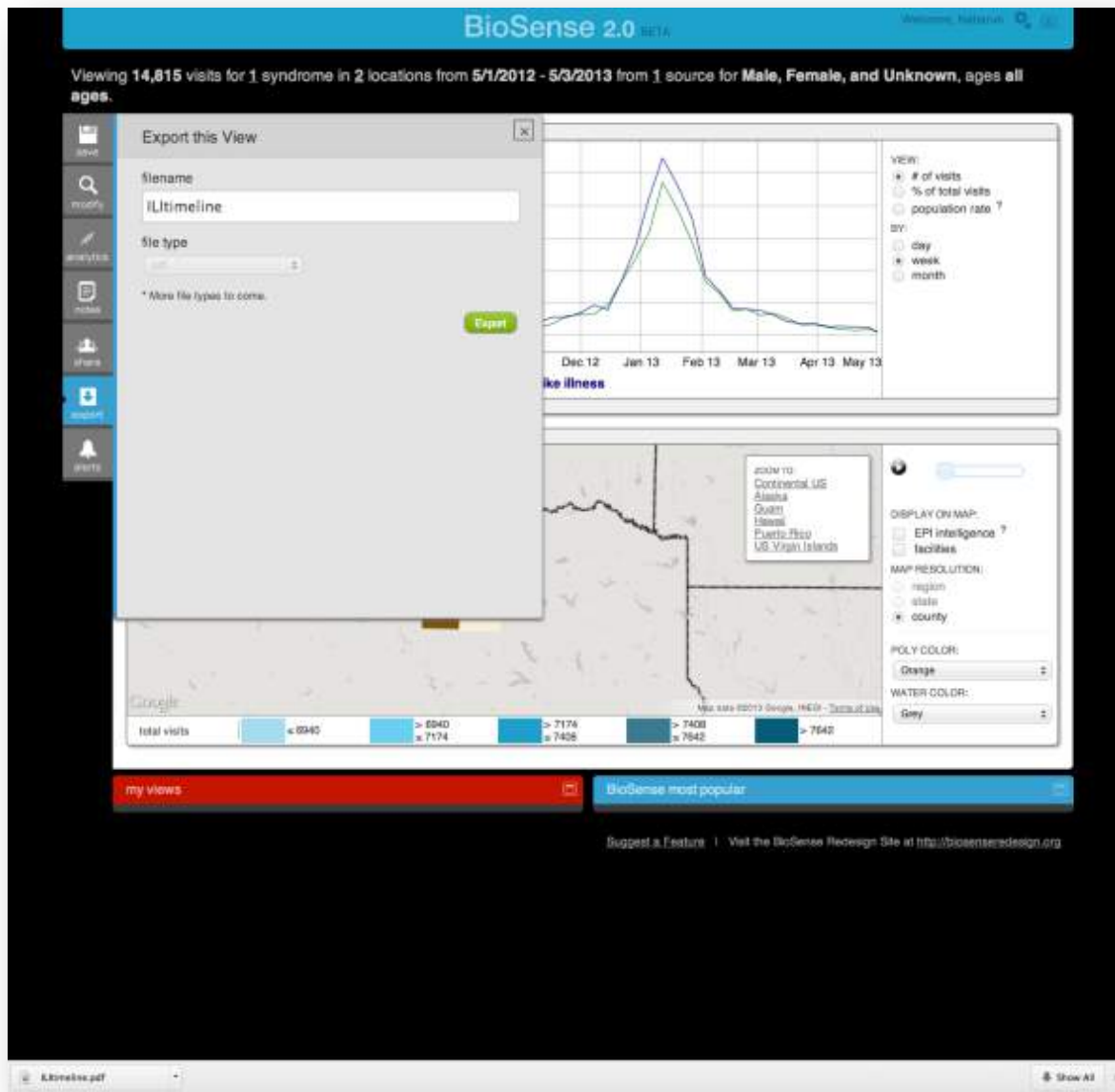
total visits

≤ 6940	> 6940 ≤ 7174	> 7174 ≤ 7408	> 7408 ≤ 7642	> 7642
--------	---------------	---------------	---------------	--------

my views

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>



BioSense

Public Health Surveillance Through Collaboration

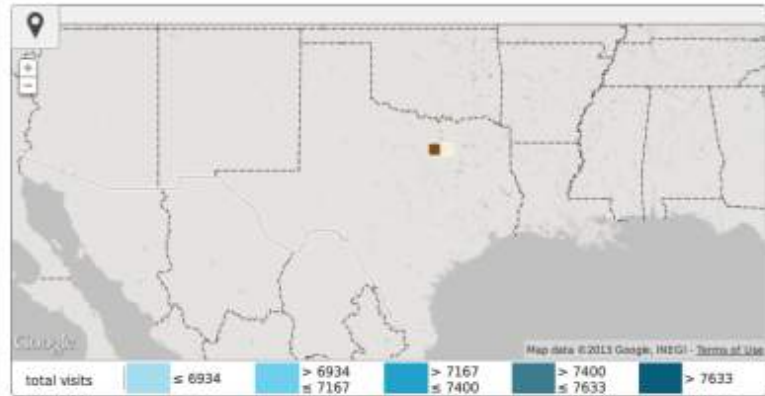
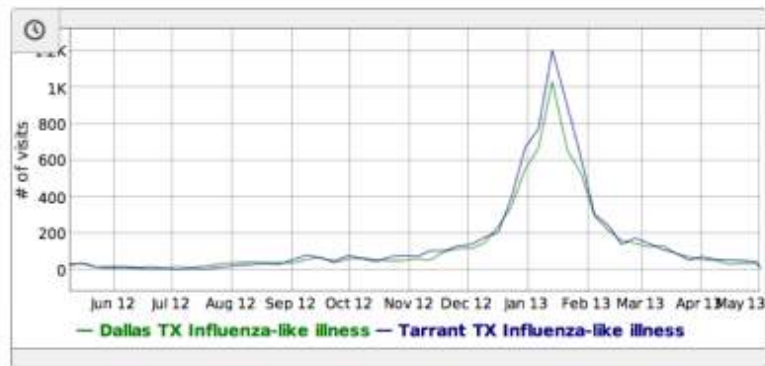
<https://biosen.se>

2.0

BioSense 2.0 BETA

Welcome, Nathan

Viewing **14,800** visits for **1** syndrome in **2** locations from **5/3/2012 - 5/3/2013** from **1** source for **Male, Female, and Unknown**, ages **all ages**.



Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

**How do I set up alerts to be sent to my email?
How do I modify or delete alerts?**

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Wisconsin, Nabanun

Viewing 14,815 visits for 1 syndrome in 2 locations from 5/1/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Set Alerts for this View

Send me an email if:

On ←

of visits for this search* in the most recent
day exceeds:

Off ←

% of total visits exceeds C2 alarm threshold **

* Alert is based on the aggregate value for your chosen syndromes & locations.
** Alert is based on the parameters set in the analytics pane.

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week
 month

like illness

Map data ©2013 Google, INEGI - Terms of Use

total visits

≤ 6940	> 6940 ≤ 7174	> 7174 ≤ 7408	> 7408 ≤ 7642	> 7642
--------	---------------	---------------	---------------	--------

my views + BioSense most popular +

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nabarun

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week
 month

— Dallas TX Influenza-like illness — Tarrant TX Influenza-like illness

my views

- ILI view 2
- ILI HHS Region 4 March 2013
- heat region 4 2012 summer
- TC ILI last month
- Insect
- CPA analysis of ILI

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nibarun

Viewing **14,800** visits for **1** syndrome in **2** locations from **5/3/2012 - 5/3/2013** from **1** source for **Male, Female, and Unknown**, ages **all ages**.

Set Alerts for this View

Send me an email if:

On

% of total visits for this search* in the most recent
week exceeds **2.5**

off

% of total visits exceeds C2 alarm threshold **

* Alert is based on the aggregate value for your chosen syndromes & locations.
** Alert is based on the parameters set in the analytics pane.

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

Map:

ZOOM TO:
Continental US
Alaska
Guam
Hawaii
Puerto Rico
US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

WATER COLOR:

Map data ©2013 Google, INEGI - Terms of Use

BioSense most popular

[Suggest a Feature](#) | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How do I modify my view?

How do I compare sex or age groups?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 (beta) Welcome, Nabanun

Viewing 14,800 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

Modify this View

what **where** when

Tarrant, TX **Dallas, TX**

compare combine

sources
gender
age ranges

Clear Submit

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

like illness

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR: Orange

WATER COLOR: Grey

Map data ©2013 Google, INEGI - Terms of Use

BioSense most popular

- ILI view 2
- ILI HHS Region 4 March 2013
- heat region 4 2012 summer
- TC ILI last month
- Insect
- CPA analysis of ILI

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nabanun

Viewing **14,800** visits for **1** syndrome in **2** locations from **5/3/2012 - 5/3/2013** from **1** source for **Male, Female, and Unknown**, ages **all ages**.

Modify this View

what | where | when

Influenza-like illness

sources

gender

- Male
- Female
- Unknown

compare | combine

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

Dec 12 | Jan 13 | Feb 13 | Mar 13 | Apr 13 | May 13

2004 10: Continental US, Alaska, Guam, Hawaii, Puerto Rico, US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR: Orange

WATER COLOR: Grey

Map data ©2013 Google, INEGI | Terms of Use

> 7400 | ≤ 7633 | > 7633

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

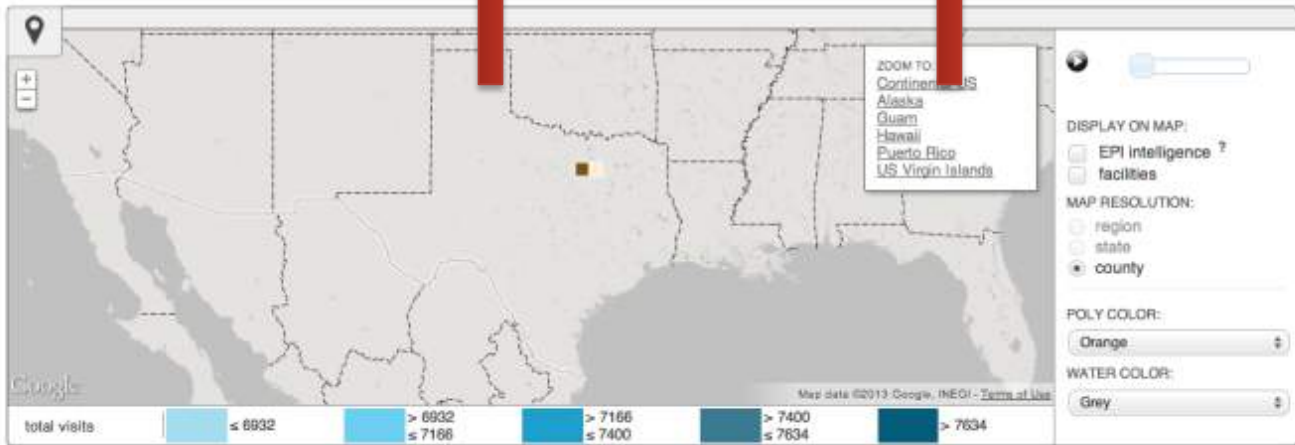
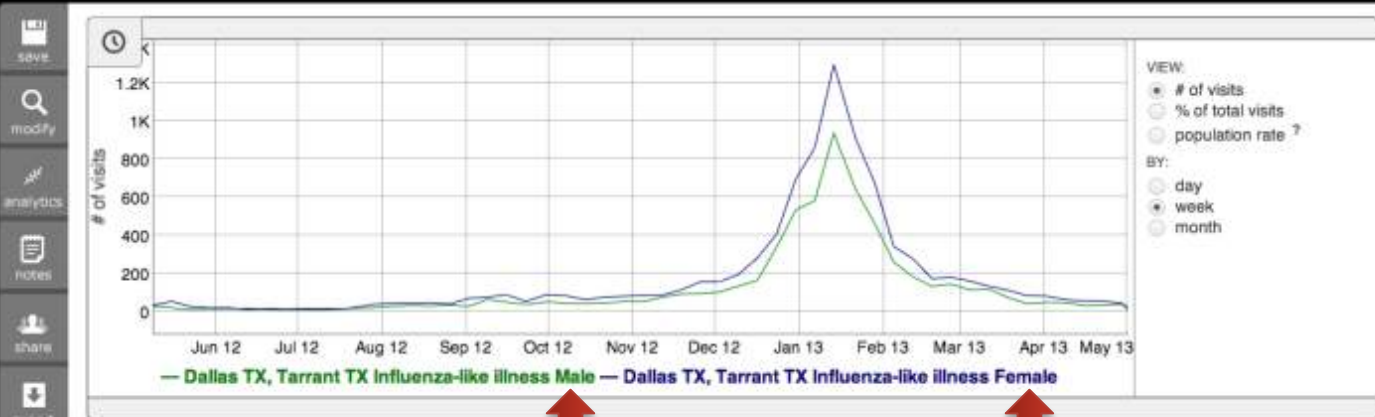
Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA

Welcome, Nabanun

Viewing 14,798 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male and Female, ages all ages.



my views

BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Naberun

Viewing 14,798 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male and Female, ages all ages.

Modify this View

what **where** when

Dallas County, TX Tarrant, TX

compare combine

sources

gender

Male
 Female
 Unknown

compare **combine**

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week
 month

total visits

≤ 6932	> 6932 ≤ 7166	> 7166 ≤ 7400	> 7400 ≤ 7634	> 7634
--------	---------------	---------------	---------------	--------

my views my views BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA

Welcome, Natarun

Viewing 14,798 visits for 1 syndrome in 2 locations from 5/3/2012 - 5/3/2013 from 1 source for Male and Female, ages all ages.

Modify this View

what **where** when

Dallas County, TX Tarrant, TX

compare combine

sources

gender

age ranges

select: all none

- 0-2
- 2-4
- 5-17
- 18-49
- 50-64
- 65+
- Other

compare combine

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

Dec 12 Jan 13 Feb 13 Mar 13 Apr 13 May 13

TX, Tarrant TX Influenza-like illness Female

ZOOM TO:
Continental US
Alaska
Guam
Hawaii
Puerto Rico
US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR: Orange

WATER COLOR: Grey

total visits

≤ 6932	> 6932 ≤ 7166	> 7166 ≤ 7400	> 7400 ≤ 7634	> 7634
--------	---------------	---------------	---------------	--------

my views

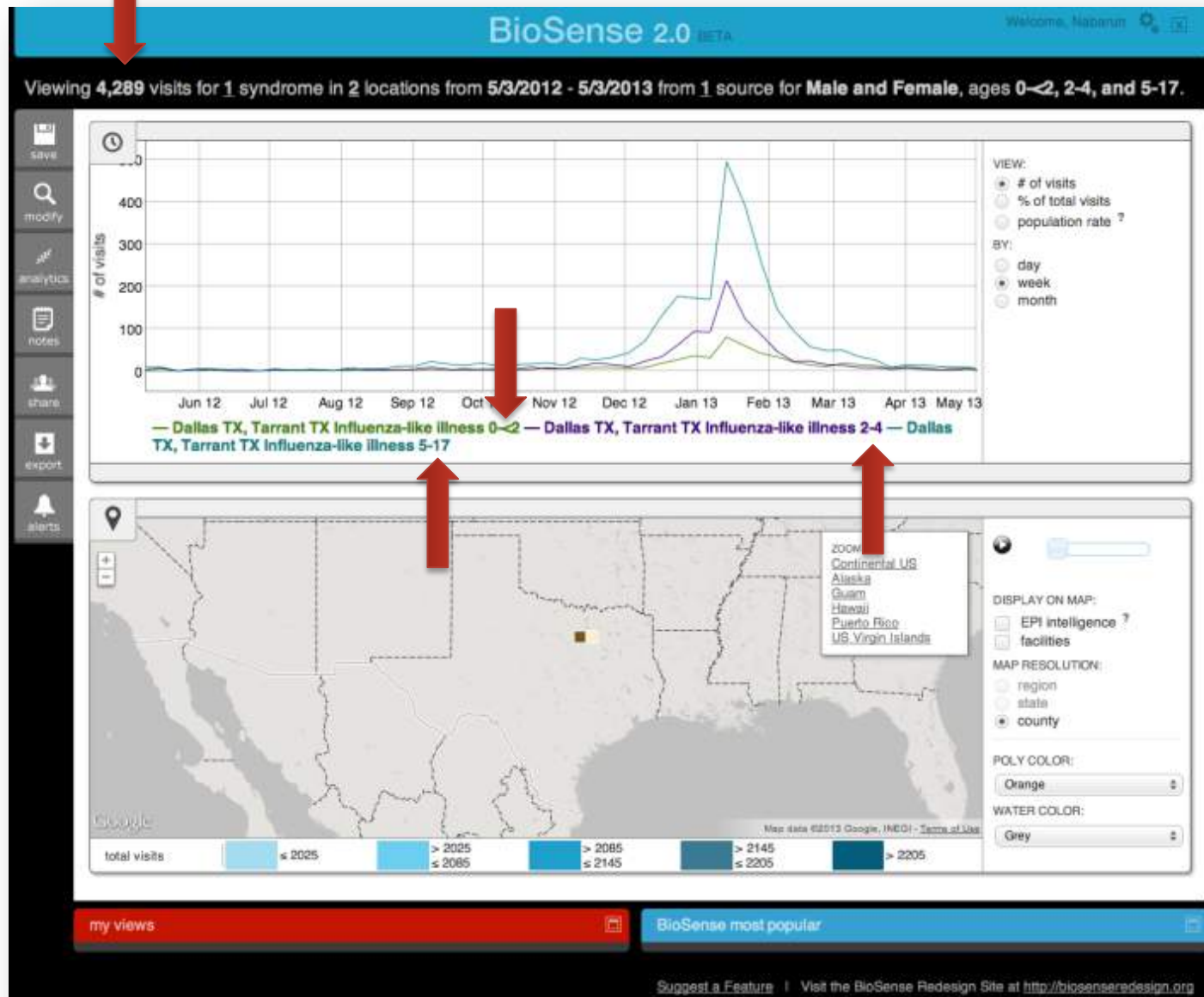
BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>



How to I compare a view with previous years' data to assess seasonality?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nathan

Viewing **18,813** visits for **1** syndrome in **2** locations from **5/3/2011 - 5/3/2013** from **1** source for **Male and Female**, ages **all ages**.

Modify this View

what where **when**

5/3/2011 - 5/3/2013

sources
gender
age ranges

Clear Submit

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

Compare with:

- 2010
- 2012

like illness Dallas TX, Tarrant TX 2010

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

Orange

WATER COLOR:

Grey

total visits

≤ 9102	> 9102 ≤ 9254	> 9254 ≤ 9406	> 9406 ≤ 9558	> 9558
--------	---------------	---------------	---------------	--------

my views + BioSense most popular +

[Suggest a Feature](#) | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

BioSense 2.0 BETA Welcome, Nabanun

Viewing 18,813 visits for 1 syndrome in 2 locations from 5/3/2011 - 5/3/2013 from 1 source for Male and Female, ages all ages.

VIEW:
 # of visits
 % of total visits
 population rate ?

BY:
 day
 week
 month

Compare with:
 2010
 2012

— Influenza-like illness Dallas TX, Tarrant TX — Influenza-like illness Dallas TX, Tarrant TX 2010

DISPLAY ON MAP:
 EPI intelligence ?
 facilities

MAP RESOLUTION:
 region
 state
 county

POLY COLOR:
Orange

WATER COLOR:
Grey

total visits: ≤ 9102, > 9102 ≤ 9254, > 9254 ≤ 9406, > 9406 ≤ 9558, > 9558

my views BioSense most popular

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How do I change my name?

How do I change my password?

How do I change my email address?

How do I change my phone number?

BioSense 2.0

Public Health Surveillance Through Collaboration

<https://biosen.se>

The screenshot displays the BioSense 2.0 user interface. At the top left, the logo "BioSense 2.0" is accompanied by the tagline "Public Health Surveillance Through Collaboration" and the URL "https://biosen.se". The main header is green and contains the text "BETA BioSense 2.0" and a user greeting "Welcome, Nabanun" with a settings gear icon. A red arrow points to this gear icon. Below the header, there are two search filters: "what" with a dropdown menu showing "disease syndrome" and "where" with a dropdown menu showing "region, state, county". On the right side, a registration form is visible with fields for "new password", "confirm new password", "first name" (Nabarun), "last name" (Dasgupta), "institution" (A Health Jurisdiction), "region" (The South), "state" (NC), "zip code", "email" (nabarund@gmail.com), "mobile" (919-555-1212), and "office". Each field has a "+ add" button. A "Save" button is at the bottom of the form. At the bottom of the page, there are two panels: "my views" with a list of saved views like "AUP heat example TX" and "excessive heat - AUP demo", and "BioSense most popular" with a list of popular views like "Influenza-like illness - USA - 1 year" and "All Vials - USA - 1 year". At the very bottom, there is a footer with the text "Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>".

How do I logout of the system?

Welcome, Neilanun 🔍 🏠

BioSense 2.0 BETA

Viewing 6,934 visits for 1 syndrome in 1 location from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

- save
- modify
- analytics
- notes
- share
- export
- alerts

— Dallas TX Influenza-like illness · Alarm Threshold

VIEW:

- # of visits
- % of total visits
- population rate ?

BY:

- day
- week
- month

ZOOM TO:
 Continental US
 Alaska
 Guam
 Hawaii
 Puerto Rico
 US Virgin Islands

DISPLAY ON MAP:

- EPI intelligence ?
- facilities

MAP RESOLUTION:

- region
- state
- county

POLY COLOR:

WATER COLOR:

% of total visits

≤ 0.23%	> 0.23 ≤ 0.23%	> 0.23 ≤ 0.23%	> 0.23 ≤ 0.23%	> 0.23%
---------	-------------------	-------------------	-------------------	---------

my views 🏠

BioSense most popular 🏠

How do I suggest a new feature?
How do I report a bug?

Welcome, Neilanun 🔍 🏠 🔴

BioSense 2.0 BETA

Viewing 6,934 visits for 1 syndrome in 1 location from 5/3/2012 - 5/3/2013 from 1 source for Male, Female, and Unknown, ages all ages.

save

modify

analytics

notes

share

export

alerts

— Dallas TX Influenza-like illness · Alarm Threshold

Map data ©2013 Google, (NEGI - Terms of Use)

DISPLAY ON MAP:

EPI intelligence ?

facilities

MAP RESOLUTION:

region

state

county

POLY COLOR:

Blue

WATER COLOR:

Grey

my views 🏠

BioSense most popular 🏠

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

info@biosen.se

The screenshot shows the top portion of the BioSense 2.0 web application. It features a map of Southeast Asia with a legend below it. The legend is titled "% of total visits" and contains five color-coded categories: light blue (≤ 0.23%), medium blue (> 0.23 ≤ 0.23%), dark blue (> 0.23 ≤ 0.23%), teal (> 0.23 ≤ 0.23%), and dark teal (> 0.23%). To the right of the map are controls for "POLY COLOR" (set to Blue) and "WATER COLOR" (set to Grey). Below the map are two navigation tabs: "my views" (red) and "BioSense most popular" (blue). At the bottom of the interface, there is a footer with the text "Suggest a Feature" and "Visit the BioSense Redesign Site at <http://biosenseredesign.org>". A red arrow points from the "Suggest a Feature" text in the footer to the "Suggest a Feature" form in the inset below.

The inset shows a "Suggest a Feature" form on a blue background. At the top, there is a green header with the BioSense 2.0 logo. The form contains three input fields: "Name:", "Email:", and "Comments and suggestions:". A green "GO" button is located at the bottom left of the form.

What is BioSense Most Popular?

BioSense 2.0 BETA Welcome, Nabarun

what where when

my views

- Shared all-access TX data
- All Visit - Year Skiing - DoD data
- Influenza-like illness - NC - 5/5/2012 - 6/4/2012
- Influenza-like illness - USA - 10/16/2011 - 11/15/2011
- Gastrointestinal - NC - 10/1/2011 - 3/8/2012

BioSense most popular

- Influenza-like illness - USA - 1 year
- All Visits - USA - 1 year
- Bronchitis and bronchiolitis - CA - 1 month
- All Visits - USA - 1 year
- All Visits - USA - 1 year
- All Visits - USA - 1 year

Suggest a Feature | Visit the BioSense Redesign Site at <http://biosenseredesign.org>

How can I set up a “dashboard” view of my saved queries?

BioSense 2.0 BETA

Welcome, Nabarun

what

where

when

GO

Clear Search Advanced Options

my views

- Shared all-access TX data
- All Vets - Year Skiing - DoD data
- Influenza-like illness - NC - 5/5/2012 - 6/4/2012
- Influenza-like illness - USA - 10/16/2011 - 11/15/2011
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