



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Syndromic Surveillance

Exploratory Analysis

June 19th, 2024

Exploratory Analysis

Agenda

- Updates
 - AZ
 - DQ
 - Facilities
 - NSSP
 - New CDC website
 - Query Display for Influenza and Bird flu definitions
 - Patching reminder
- Presentation
 - AVERT Data Dissemination
 - Mass Gathering Dashboard
- Trending Topics
 - Diamond Shroomz
 - Valley Fever
- Questions/Open Forum



Updates

Arizona

Data Quality

- All facilities have at least 70% completeness of priority one variables. Summit is the lowest at 70%.
 - from May 16, 2024 to June 16, 2024. Diagnosis description and diagnosis code have increased from ~60% to ~70%.
- Yavapai facilities (East and West) Have had some timeliness issues, approximately 60% of the messages have arrived after 24 hours.

Updates

Arizona

- Onboarding
 - Benson
 - Sage
- Reaching out to facilities:
 - East Valley ER & Hospital
 - Exceptional Community Hospital Yuma
 - Phoenix ER & Medical Hospital
 - Tucson ER & Medical Hospital
- Reaching out to large Urgent Cares:
 - Honor Health

Syndromic Surveillance

Arboviral Disease

- Problem: Rapid identification of potential cases of arboviral disease critical to implementing appropriate public health response
- Actions: BioSense Exploratory Analysis Group which include representatives from ADHS and several Arizona counties collaborated to develop a query and standard procedure for identifying potential cases by using NSSP BioSense Platform.

Lessons Learned

- Syndromic Surveillance can be used to identify cases of arboviral disease.
- Syndromic Surveillance can improve situational awareness of arboviral diseases

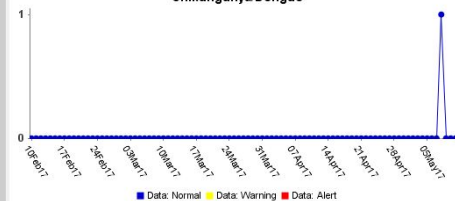
ESSENCE

CONDITION	INCLUDE	EXCLUDE
CHIKUNGUNY	CHICKENG, CHIKENG, CHIKUN, A920, A92.0	
DENGUE	DENG, A90, A91,	DENGEN, DENGGER, DENGAR
ZIKA VIRUS	ZIKA, ZIKI, ZICA, ZIKCA, ZEEKA, ZEECA, ZYKA	RUZIKA, REZIKA, ZICAM
WEST NILE VIRUS	WEST NILE, WESTNILE, WNV, A923, A92.3	
ST. LOUIS ENCEPHALITIS	ST LOUIS, ST. LOUIS, SAINT LOUIS, 062.3, 0623, A83.3, A833	FROMT ST LOUIS, IN ST LOUIS, FROM ST. LOUIS, IN ST. LOUIS, FROM SAINT LOUIS, IN SAINT LOUIS,



Chikungunya/Dengue

Chikungunya/Dengue

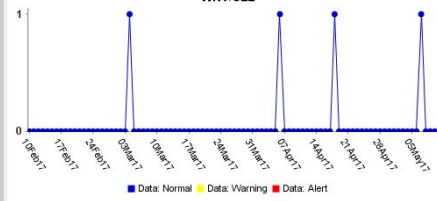


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Click anywhere on the graph to [switch to interactive view](#)

WNV/SLE

WNV/SLE

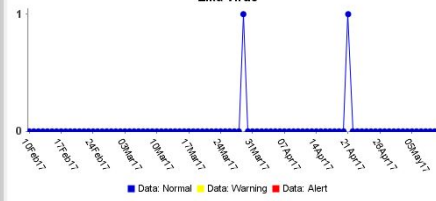


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Click anywhere on the graph to [switch to interactive view](#)

Zika Virus

Zika Virus

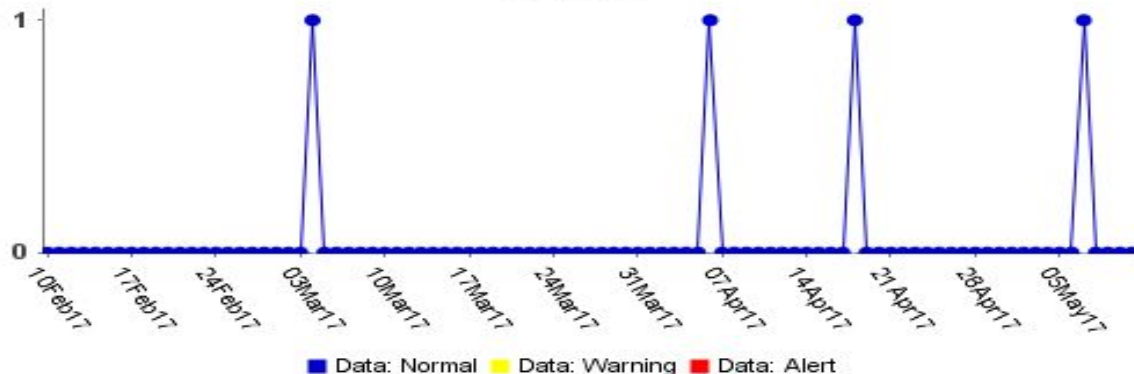


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Click anywhere on the graph to [switch to interactive view](#)

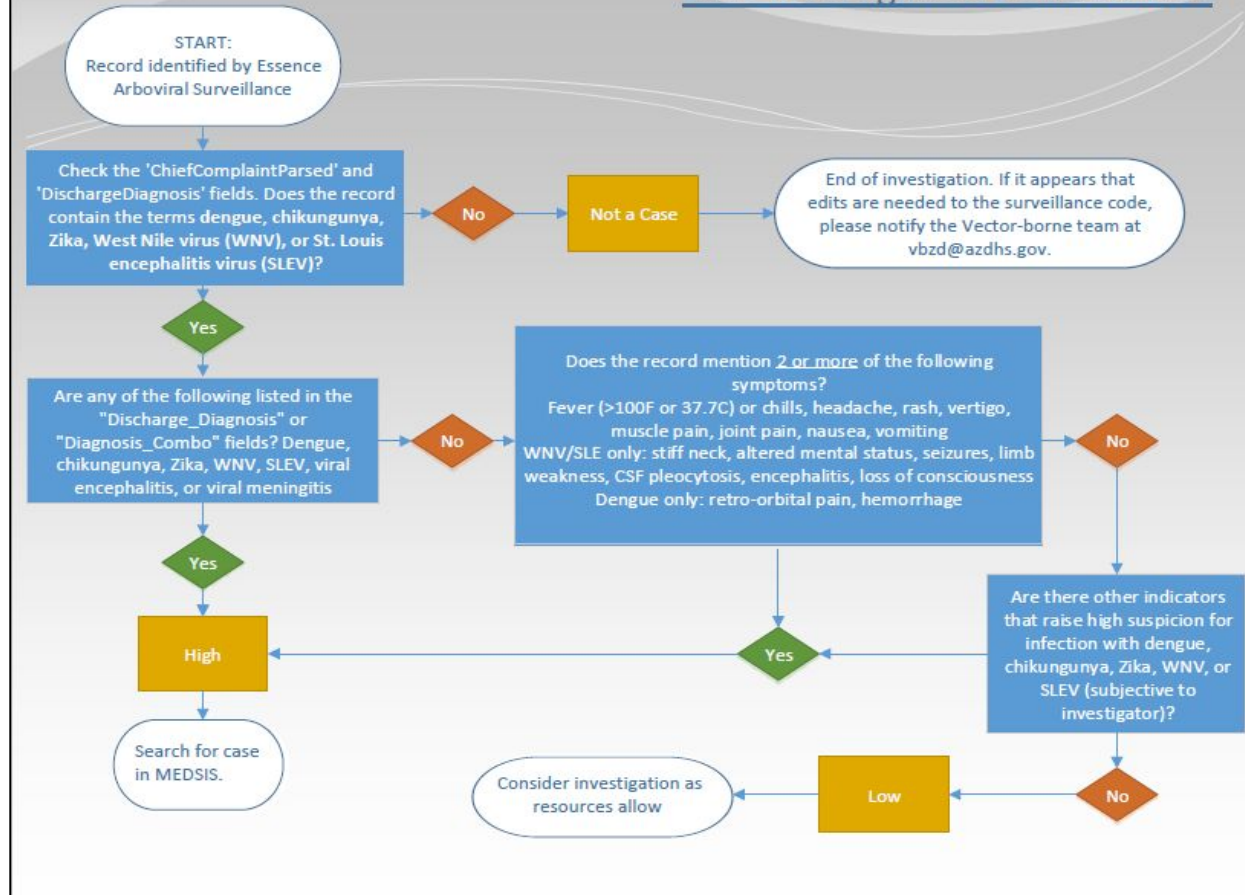
WNV/SLE

WNV/SLE



Graph Options Download

Arboviral Syndromic Surveillance Case Investigation Decision Tree



Updates

Arizona

Arboviral Syndrome Definitions for ESSENCE

- **Chikungunya and Dengue**

- CHICKENG OR CHIKENG OR CHIKUN OR A920 OR A92.0 OR DENG ANDNOT (DENGEN OR DENGER OR DENGAN OR DENGAR) OR A90 OR A91

- **West Nile and Saint Louis encephalitis**

- WEST NILE OR WESTNILE OR WNV A923 OR A92.3 OR SAINT LOUIS ANDNOT (FROM SAINT LOUIS OR IN SAINT LOUIS) OR ST LOUIS ANDNOT (FROM ST LOUIS OR IN ST LOUIS) OR 0623 OR 062.3 OR A833 OR A83.3

- **Zika**

- (zika andnot r[ue]zika) or ziki or (zica andnot zicam) or zeeka or zeeca or zyka

Updates

NSSP



Updates

NSSP

The new Centers for Disease Control and Prevention website, [CDC.gov](https://www.cdc.gov), is live! The NSSP web pages — from [landing page](#) through [success stories](#) — have a new look and streamlined content.

National Syndromic Surveillance Program (NSSP)

Q SEARCH

Supporting Healthy Communities

SITE INDEX >



About NSSP

NSSP provides expertise and technical assistance to support public health professionals.



BioSense Platform

This cloud-based early warning system helps protect Americans from public health threats.

Technical Resources

Access & Management Center

ESSENCE

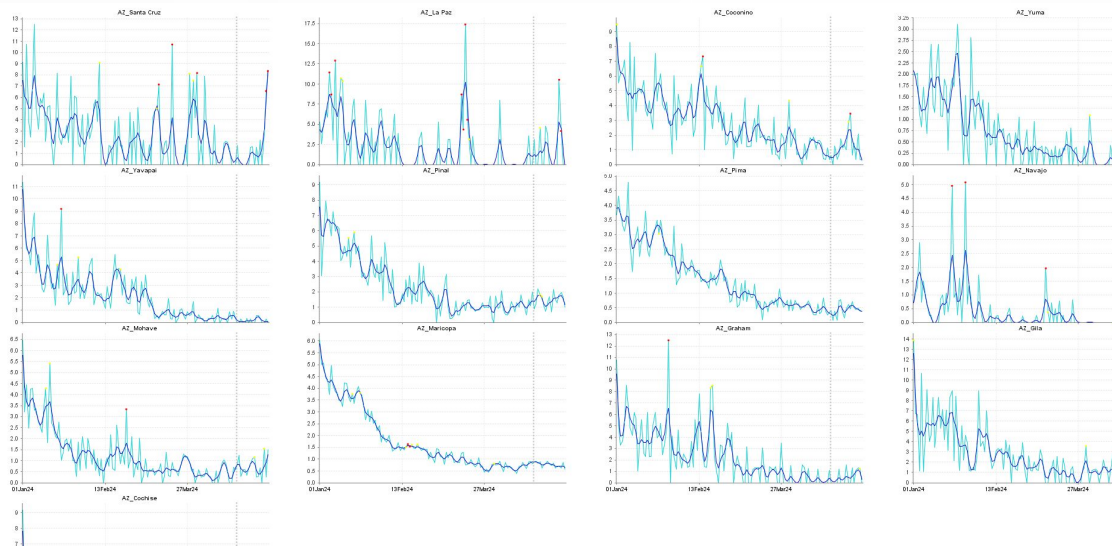
Community of Practice

Helpful Articles

Updates

NSSP

- Influenza and H5N1
 - Query Display



Updates

NSSP

- H5N1/ HPAI

- Queries from the Community of Practice:

- (,^dairy^,or,!cow!,or,!cows!,or,(^milk^,andnot,(^allergy to milk^,or,^breastmilk^,)),or,^chicken^,or,^poultry^,or,^farm^,or,^cattle^,or,^goat^,or,!cat!,or,^cats^,),and,(^red eye^,or,^eye is red^,or,^eyes are red^,or,^eye red^,or,^eyes red^,or,(^conjun^,andnot,(^denies fevers, conjunctivitis,or,^conjunctiva and sclera normal,^,or,^conjunctivae normal^,)),or,^pink eye^,or,^eye drainage^,or,^eye inflame^,or,^eyes inflame^,or,^H10^,or,^H11^,or,^9826008^,)
 - working syntax we are using in combination with diagnosed broad acute respiratory: ^dairy^,andnot,(^allerg^,or,^dairy queen^,or,^avoid dairy^,or,^cut out dairy^,or,^dairy free^,),or,!cow!,or,!cows!,andnot,(^cows score^,or,^cows assess^,),or,^cattle^,or,^farm^,andnot,(^farmville^,or,^state farm^,or,^royal farms^,),or,^poultry^,or,^bird^,andnot,^birdwell^



Updates

NSSP

Announcement!

**Onboarding and Production
Vendor Patches**

**Thursday,
June 20, 2024
12:00 to 8:00 AM ET**



Presentations

- AVERT Data Dissemination
 - Intentional Self-Directed Firearm Injuries
 - Tessa Saturday
- Mass Gathering Dashboard



Exploratory Analysis

Trending Topics

- Coccidioidomycosis (Valley Fever)
- Designed to capture emergency department visits associated with coccidioidomycosis.
 - ^coccidio^,OR,^valley fever^,OR,^c immitis^,OR,^c posadasii^,OR,^;B38^,OR,^;114[0-59];^,OR,^;60826002;^,OR,^;3071000119108;^,OR,^;1163139006;^,OR,^;1163138003;^,OR,^;240727006;^,OR,^;417018008;^,OR,^;240728001;^,OR,^;85055004;^,OR,^;195904005;^,OR,^;187027001;^,OR,^;79949009;^,OR,^;78223000;^,OR,^;23247008;^,OR,^;184431000119108;^,OR,^;41030002;^,OR,^;46303000;^,OR,^;445880000;^,OR,^;422337001;^

Exploratory Analysis

Trending Topics

- Diamond Shroomz brand chocolate bars, cones or gummies
- As of June 11th, 12 total illnesses and 10 hospitalizations have been reported in eight U.S. states.
- We adapted a free-text query related to mushrooms/psilocybin from the NSSP community of practice, and we adapted it to include some of the keywords specific to your situation ('diamond', 'shroomz', and 'micro').
- We applied the query to This query scans multiple free-text fields including triage notes orig, CC and DD, Chief Complaint Orig Free Text, and Chief Complaint Combo Free text.
- From May 1st to June 13th, the query identified 39 visits in Arizona.
- Could add additional key terms such as seizure, loss of consciousness and muscle rigidity

Trending Topics

Diamond Shroomz Query

- ^ps[iy]lo[sc][iy]^,^psilocybin^,or,^ps[iy][ck][eao]del^,or,(
,(^t62.0^,^t620^,),and,(^trip^,^overdose^,^F1[0-9]^,^t5
09^,^t50.9^,^t4[03]^,),),or,(^shroom^,and,(^diamond^,
^tmicro^,^trip^,^magic^,^high^,^halluc^,^f1[69]^,^t40.9^
,^t409^,^overdose^,),),or,^shroomz^,or,^using
mush^,^used mush^,^doing mush^,^did mush^,^did
some mush^,^taking mush^,^took mush^,^ shroom^

Questions/ Open Forem





THANK YOU

Syndromic Surveillance | syndromicsurveillance@azdhs.gov



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OF HEALTH SERVICES