

Exploratory Analysis Subgroup

of the Arizona BioSense Workgroup

August 25, 2016



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Objectives

- Welcome and Attendance
- Exploratory Analysis Subgroup Project
 - Heat Related Illness Syndromic Surveillance project
 - Updates
 - Status for Initial Reports
 - » Code/Tables
 - » Pulling Weather Data
 - Assistance from UCAR
- DRAFT CSTE Syndromic Surveillance Guidance Document for Extreme Heat
- Let's hear it! What are you currently working on with the syndromic data?
- Reminder to share feedback COB 08/30/2016
 - Charter Year 2: Objectives and Deliverables
- Questions and Discussions
- Next Meetings



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Heat-Related Illness Project

- County Report Codes Created
- Weather data attempt for 1 weather station accomplished in SAS code
 - Modifying in SAS to link multiple weather stations

Weather Data Variables from NWS Available

STN	WBAN	YEAR	MOD	TEMP	DEWP	SLP	STP	VISIB	WDSP	MXSPD	GUST	MAX	MIN	PRCP	SNDP	FRESHT					
722720	93026	20160101	44.6	24	31.9	24	1017.8	24	877.5	24	10	24	7.9	24	17.1	24.1	61	27	0.00G	999.9	0
722720	93026	20160102	38.4	24	28.4	24	1022.7	24	881.1	24	10	24	6.4	24	17.1	24.1	55.9	19.9	0.00G	999.9	0
722720	93026	20160103	38.6	24	29.3	24	1022	24	880.3	24	10	24	2.8	23	7	999.9	61	19.9	0.00G	999.9	0
722720	93026	20160104	43.5	24	32.2	24	1015.4	24	875.2	24	10	24	7.5	24	18.1	25.1	61	19.9	0.00G	999.9	0
722720	93026	20160105	42.3	24	39.8	24	1013.6	14	874.1	24	7	24	6.3	24	19	24.1	60.1	30	0.56G	999.9	110000
722720	93026	20160106	48.5	24	37.6	24	1013.1	24	873.9	24	9.9	24	9.5	24	19	27	55.9	36	0.04G	999.9	10000
722720	93026	20160107	44.5	24	32.9	24	1012.9	24	873.5	24	10	24	9.2	24	20	31.1	55.9	37	0.00G	999.9	0
722720	93026	20160108	36.5	24	32.2	24	1011.6	17	871.2	24	8.8	24	5.2	22	14	20	52	32	0.54G	999.9	11000
722720	93026	20160109	37.4	24	30.3	24	1019	22	877.5	24	10	24	5.5	23	8	999.9	48	27	0.02G	999.9	0
722720	93026	20160110	33.5	24	26	24	1020.5	24	878.3	24	10	24	3.3	24	8	999.9	48	21	0.00G	999.9	0

Cochise County - Bisbee Douglas International
Airport

Pulling Weather Data

- ADHS found a new option for pulling weather data
- Andy Monaghan, University Corporation for Atmospheric Research assisting with automated process



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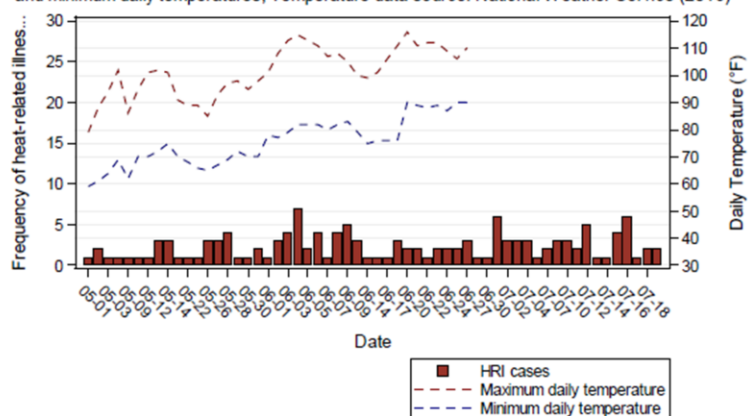
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Yuma Report

Heat-related Illness Morbidity Report for Yuma County: 2016 Heat Season | NSSP
BioSense Data

Figure 1. Frequency of Yuma County HRI cases identified with during the 2016 heat season with maximum

and minimum daily temperatures; Temperature data source: National Weather Service (2016)



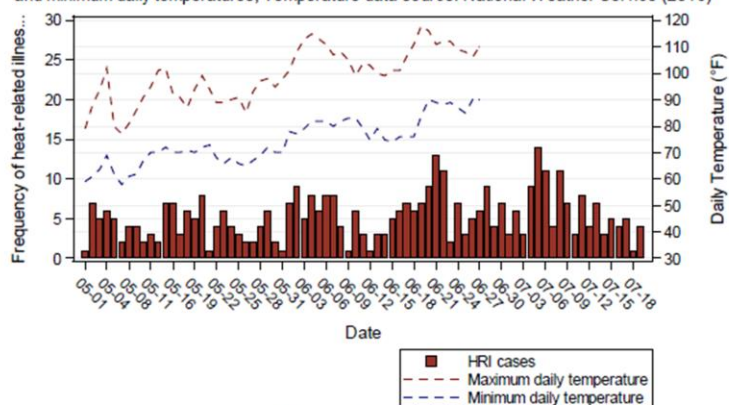
This report was produced on 08-17-2016

Pima Report

Heat-related Illness Morbidity Report for Pima County: 2016 Heat Season | NSSP
BioSense Data

Figure 1. Frequency of Pima County HRI cases identified with during the 2016 heat season with maximum

and minimum daily temperatures; Temperature data source: National Weather Service (2016)

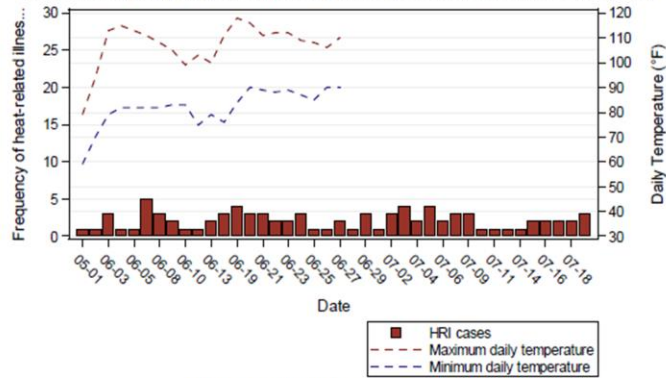


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Pinal Report

Heat-related Illness Morbidity Report for Pinal County: 2016 Heat Season | NSSP
BioSense Data

Figure 1. Frequency of Pinal County HRI cases identified with during the 2016 heat season with maximum and minimum daily temperatures; Temperature data source: National Weather Service (2016)



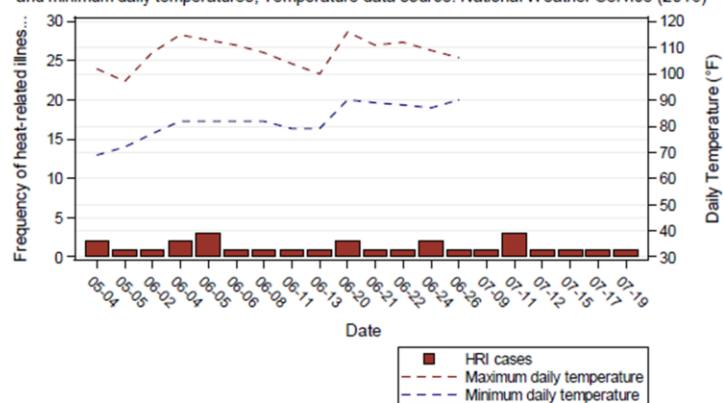
This report was produced on 08-17-2016

La Paz Report

Heat-related Illness Morbidity Report for La Paz County: 2016 Heat Season | NSSP
BioSense Data

Figure 1. Frequency of La Paz County HRI cases identified with during the 2016 heat season with maximum

and minimum daily temperatures; Temperature data source: National Weather Service (2016)



This report was produced on 08-17-2016

CSTE Climate and Health Syndromic Surveillance Workgroup

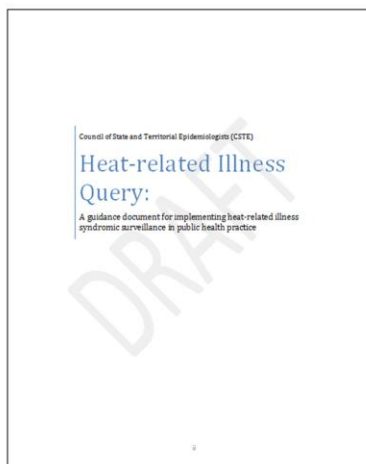


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CSTE Climate and Health Syndromic Surveillance Workgroup Survey



Preliminary results
presented last year

Arizona BioSense Workgroup
Meeting 10-16-2015

Goal of 2015 Survey:
To better understand the use of SyS systems, in the United States and Canada, for detecting and reducing illnesses/injuries related to extreme weather events and climate health.

Q8: Have you ever used your Sys system to track weather or climate-related events with potential health outcomes for any of the following?		
	Number	Percent
Extreme heat	23	66%
Carbon monoxide	20	57%
Extreme cold	12	34%
Hurricanes	10	29%
Poor air quality	10	29%
Snow/ice	9	26%
Disease vectors	8	23%
None	8	23%
Flooding	6	17%
Tornadoes/straight-line winds	5	14%
Wildfire	4	11%
Other	2	6%
Drought	1	3%

*Example of analyses



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- We are focusing on answers gathered from United States public health agencies and only on a subset of questions from the survey.
- Currently, we are analyzing the data and will be writing a report including:
 - How SyS systems are being used now
 - Public health benefits of using SyS systems



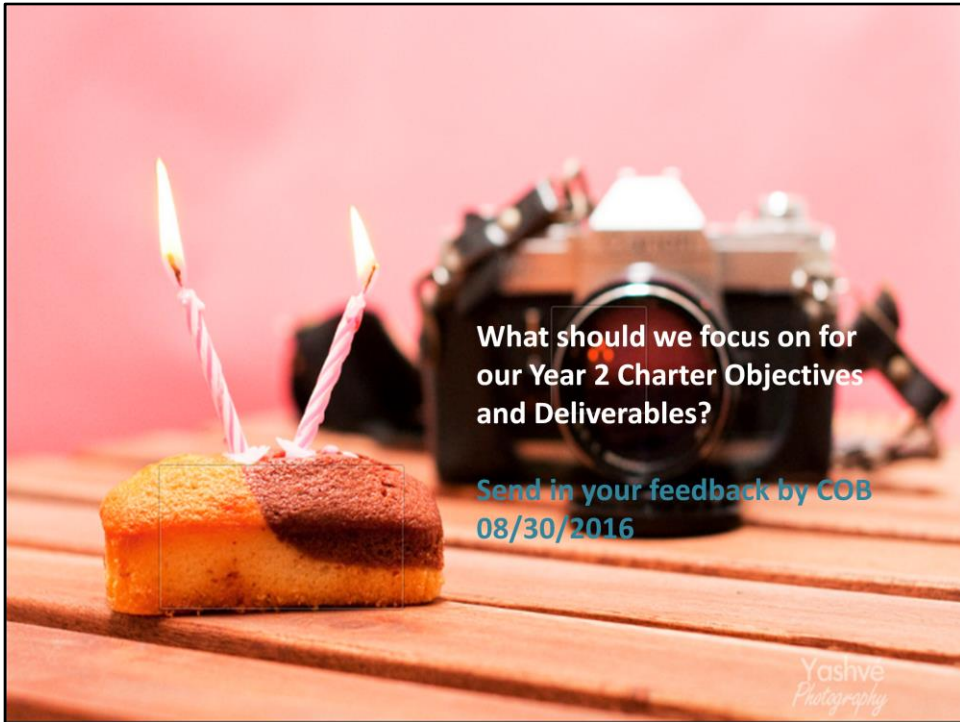
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A photograph of a stage with red curtains. The curtains are partially open, revealing a black background. The text is overlaid on the right side of the image.

Take the Stage and
tell us what you are
currently working
on with the
syndromic data?

Photo Flickr Creative Commons Maureen Bond the finale



What should we focus on for
our Year 2 Charter Objectives
and Deliverables?

Send in your feedback by COB
08/30/2016

Yashve
Photography

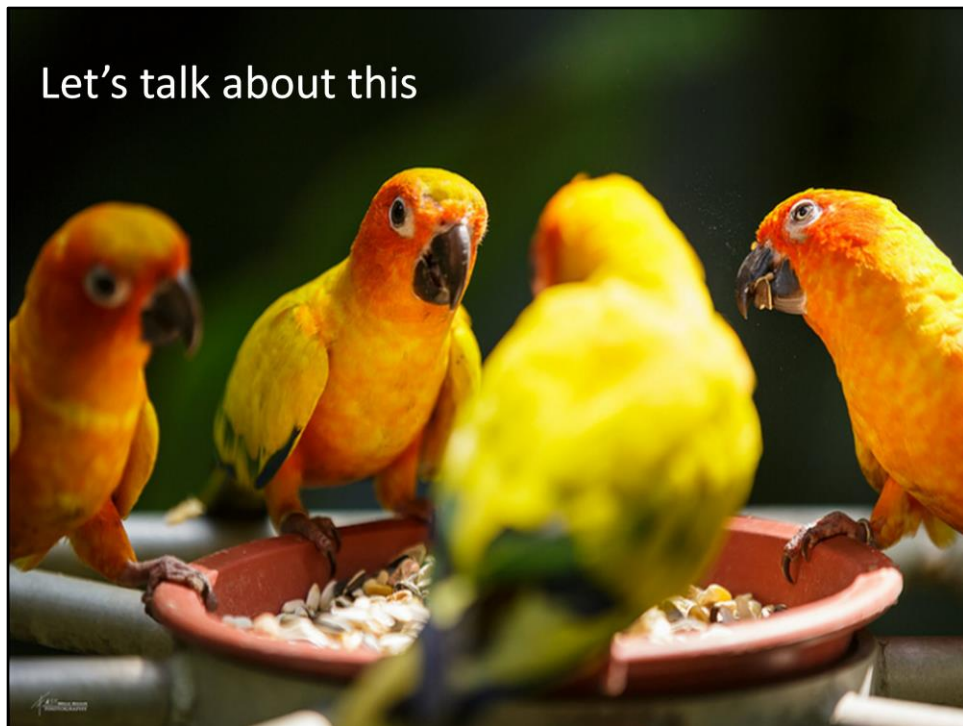


Photo Flickr Creative Commons FastBlueSnail Discussion

Upcoming Meetings

Exploratory
Analysis Subgroup



Arizona BioSense
Workgroup

- Thurs. Sept. 22
from 1:00 – 2:00

- Tues. Oct. 04
from 1:00 – 2:00



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THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

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