



TEXAS

Health and Human Services

Texas Department of State
Health Services

HSR 9/10 Flu Surveillance Methods

Haylea Stuteville

Outline



Health and Human
Services

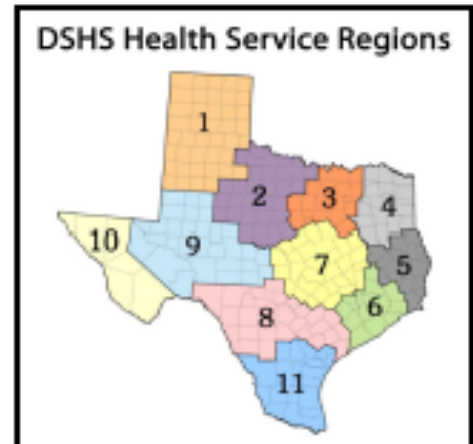
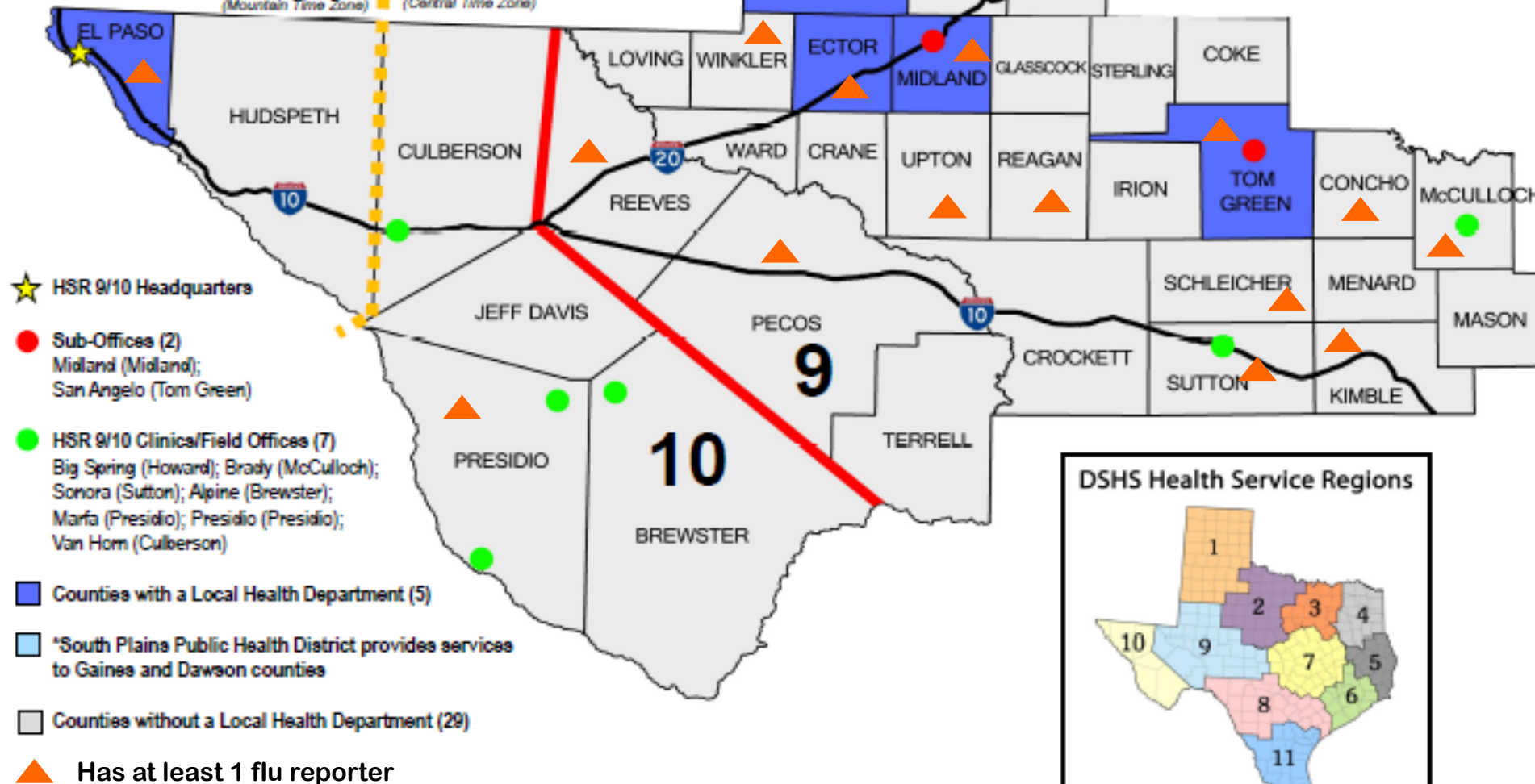
Texas Department of State
Health Services

- HSR 9/10
- Data Collection
- Data Management
- Weekly Flu Report

Health Service Region 9/10

Population: 1,397,784 (2010 Census)
 Square Miles: 61,428
 Counties: 36
 (30 in Region 9 and 6 in Region 10)

(Mountain Time Zone) (Central Time Zone)



Data Collection



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Texas Department of State
Health Services

- Providers
 - Hospitals, ER, LHDs, Schools, private practice
 - 18/36 counties report
 - Ector, El Paso, Tom Green
 - Multiple reporters
- Survey Monkey
 - A weekly survey link is emailed to our flu reporters
 - Due by Wednesday

2016-2017 Flu Reporting

2017 Flu Reporting

Thank you for participating in the Texas Department of State Health Services Region 9/10 Influenza Surveillance Program. Completion of the survey should take about 5 minutes. The information that you provide is vital to tracking and responding to influenza in our region. Please continue to submit reports each week by 5:00 PM on Monday, whether or not you have influenza activity at your hospital or healthcare facility.

Before you begin, please review the following quick overview of the flu and flu-like illnesses you will be reporting on today so that everyone is on the same page...

Influenza activity is defined as:

- Influenza-like illness (ILI): fever >100°F AND cough and/or sore throat or
- Positive rapid influenza test or
- Lab confirmed influenza case confirmed by PCR or culture

* 1. Contact Information

Name

Address

City/Town

ZIP/Postal Code

Email Address

Phone Number

* 2. Please select your county from the drop-down menu below:

3. Please select your facility.

If you do not see your facility listed please select other and write it in the blank.

9/12/2017

2016-2017 Flu Reporting

Report Time Frame

On this page, we simply want to identify the week that you are reporting. (Generally, this will be the week prior to this one and running Sunday through Saturday.)

* 4. Select the week of patient care that you are reporting:

Prev

Next

2016-2017 Flu Reporting

Influenza & Influenza-Like Illnesses

On this page, we want to look at the total number of patients seen at the facility and the total number of Influenza-Like Illness cases.

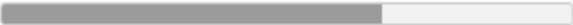
Please enter the TOTAL number of people presenting with Influenza Like Illness (ILI) during the week. If you do not report ILI please answer NA

5. Please enter the TOTAL number of people who have presented to your hospital/healthcare facility during the week.

6. Please enter the Total number of people who have shown Influenza Like Illness (ILI) symptoms. If you do not report ILI please put NA.

Prev

Next



Please enter the TOTAL number of test performed including negatives for the first question.

* 7. Please complete the following information about influenza testing. If the value is "0", then please input "0".

Number of Flu Tests Performed (Including Negative)	<input type="text"/>
Positive Flu A (Rapid Test)	<input type="text"/>
Positive Flu B (Rapid Test)	<input type="text"/>
Positive Undifferentiated (Rapid Test A/B)	<input type="text"/>
Lab Confirmed Influenza Type A (PCR or Culture)	<input type="text"/>
Lab Confirmed Influenza Type B (PCR or Culture)	<input type="text"/>

8. If positive influenza results have been subtyped, please note that in the comment box. (Ex: 1 Positive H3N2)

Please complete the Vaccine Failure Form for those patients that TESTED POSITIVE for influenza AND were VACCINATED. Please fax the form to 432-571-4141.

The reason for obtaining information on cases where vaccine failure is suspected is to determine if there is a new strain of influenza circulating and/or if any type or lot(s) of this year's vaccine are not as effective as expected.

If you have questions or concerns, please feel free to contact us at 432-571-4154 or haylea.stuteville@dshs.texas.gov



Here we would like to capture any information that you want to provide that was not captured within this survey.

9. If you have additional comments or other information, please enter that below:

*If you are not receiving the Weekly Regional Flu Report by email every Friday, please let me know in the comment box and I will add you.

Data Management

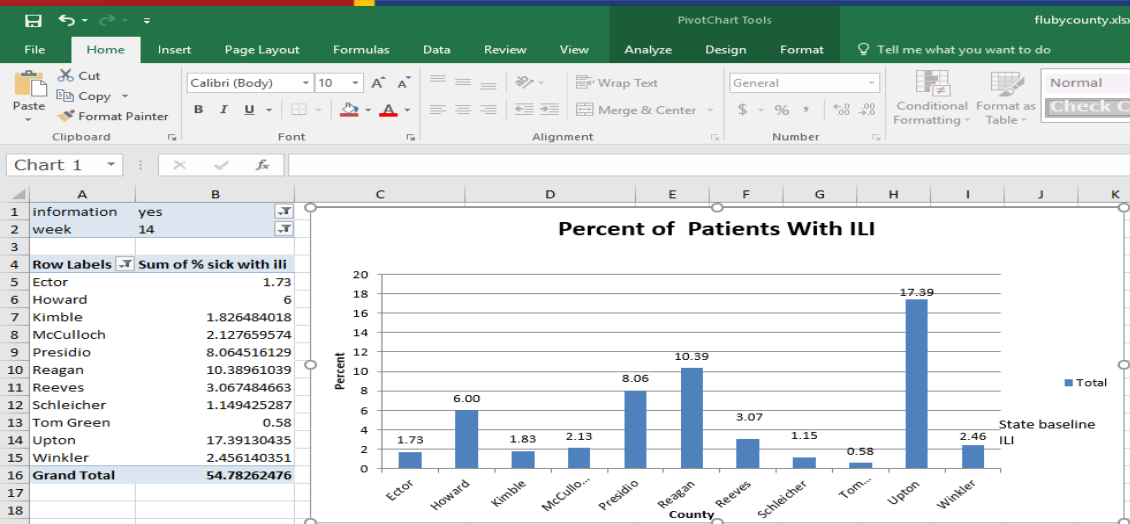


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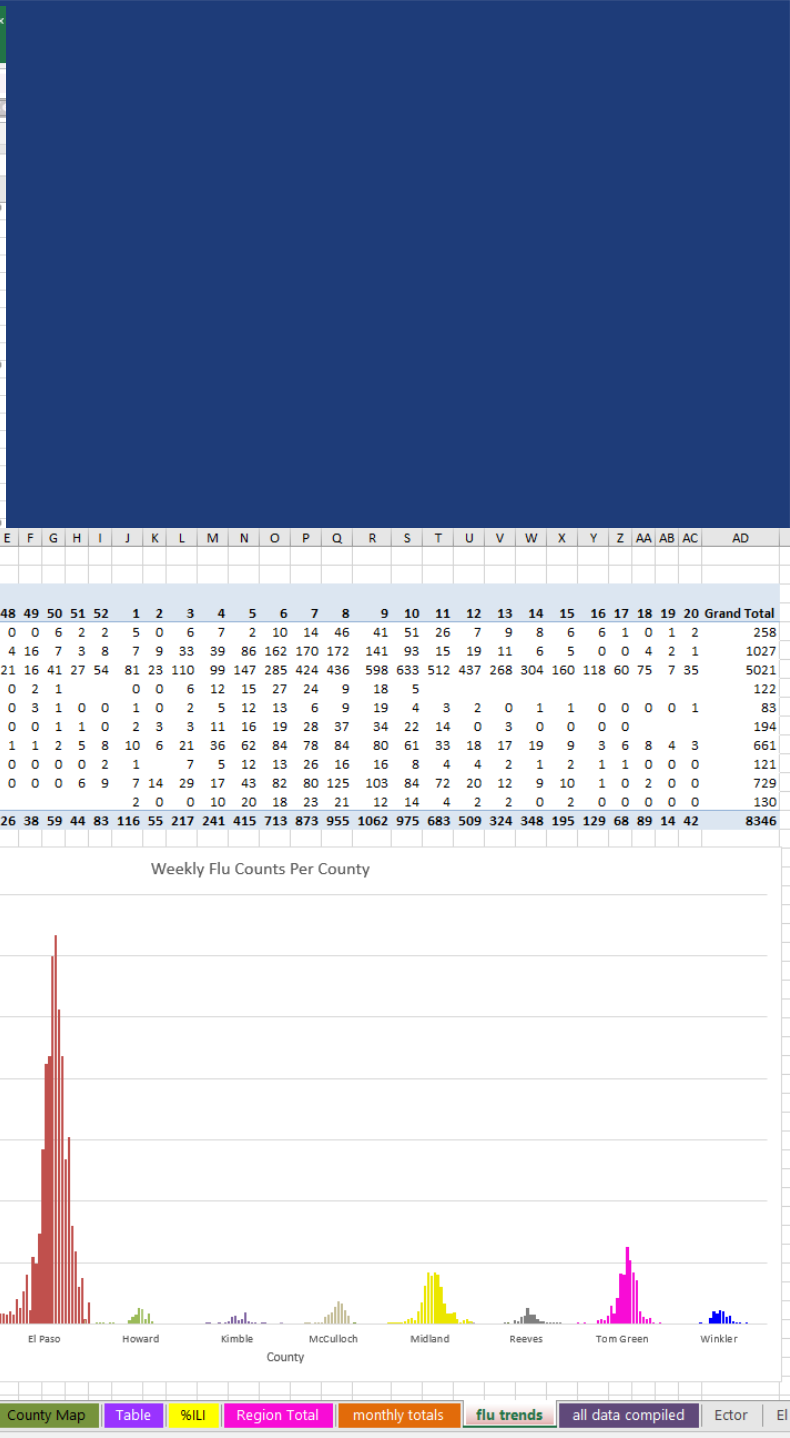
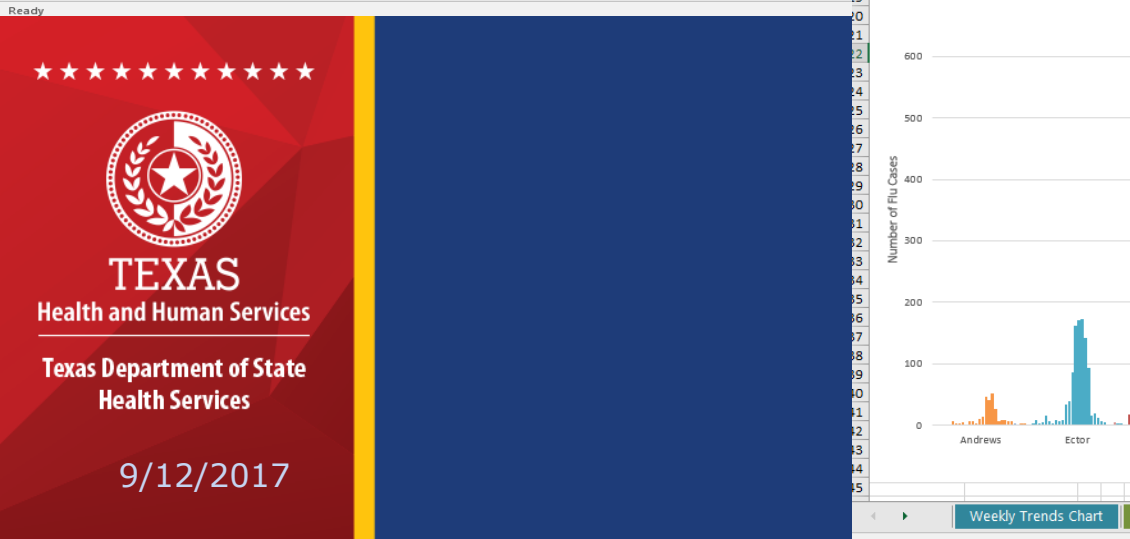
- Excel Workbook
 - “All Data Compiled”
 - Compiled data from each week in line list
- Individual sheets formulated to produce a certain graph
 - Using pivot tables
- Separate sheets for counties with multiple reporters

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
													increase/dec	# of	% sick		% of + flu					
1	county	week	month	information	Cases	ILI	RFA	RFB	nondiff	PCRFLUA	PCRFLUB	total	rease	patients	with ili	flu tests	tests	% sick	Response	Facilities	Flu pos	
2	Andrews	45	November	yes	no	0	0	0	0	0	0	0	0.00	0		6	0.00				0	
3	Andrews	46	November	yes	no	0	0	0	0	0	0	0	0.00	0		9	0.00				0	
4	Andrews	47	November	yes	no	0	0	0	0	0	0	0	0.00	0		7	0.00				0	
5	Andrews	48	December	yes	no	0	0	0	0	0	0	0	0.00	0		9	0.00				0	
6	Andrews	49	December	yes	no	0	0	0	0	0	0	0	0.00	0		10	0.00				0	
7	Andrews	50	December	yes	yes	12	1	5	0	0	0	18		262	4.58	18	100.00				6	
8	Andrews	51	December	yes	yes	7	1	1	0	0	0	9	0.50	149	4.70	18	50.00		1	1	2	
9	Andrews	52	December	yes	yes	0	2	0	0	0	0	2	0.22	366	0.00	18	11.11		1	1	2	
10	Andrews	1	January	yes	yes	21	5	0	0	0	0	26	13.00	260	8.08	21	23.81		1	1	5	
11	Andrews	2	January	yes	yes	11	0	0	0	0	0	11	0.42	279	3.94	11	0.00		1	1	0	
12	Andrews	3	January	yes	yes	0	6	0	0	0	0	6	0.55	254	0.00	20	30.00		1	1	6	
13	Andrews	4	January	yes	yes		7					7	1.17	252	0.00	7	100.00		1	1	7	
14	Andrews	5	February	yes	yes	0	2					2	0.29	248	0.00	18	11.11	0.81	1	1	2	
15	Andrews	6	February	yes	yes	0	10					10	5.00	289	0.00	30	33.33	3.46	1	1	10	
16	Andrews	7	February	yes	yes		7	1		6		14	1.40	315	0.00	49	28.57	4.44	1	1	14	6 pos H3N2
17	Andrews	8	February	yes	yes		44	2				46	3.29	301	0.00	70	65.71	15.28	1.00	1.00	46	
18	Andrews	9	February	yes	yes		31	8	2			41	0.89	464	0.00	74	55.41	8.84	1.00	1.00	41	
19	Andrews	10	March	yes	yes		33	18				51	1.24	393	0.00	91	56.04	12.98	1.00	1.00	51	
20	Andrews	11	March	yes	yes		23	3				26	0.51	210	0.00	41	63.41	12.38	1.00	1.00	26	
21	Andrews	12	March	yes	yes		4	3				7	0.27	250	0.00	26	26.92	2.80	1.00	1.00	7	
22	Andrews	13	March	yes	yes		5	4				9	1.29	422		33	27.27	2.13	1.00	1.00	9	
23	Andrews	14	April	yes	yes		6	2				8	0.89	270		27	29.63	2.96	1.00	1.00	8	
24	Andrews	15	April	yes	yes		2	4				6	0.75	374		19	31.58	1.60	1.00	1.00	6	
25	Andrews	16	April	yes	yes		1	5				6	1.00	334		20	30.00	1.80	1.00	1.00	6	
26	Andrews	17	April	yes	yes			1				1	0.17	375		10	10.00	0.27	1.00	1.00	1.00	
27	Andrews	18	May	yes	no							0	0.00	261	0.00	10	0.00	0.00	1.00	1.00	0.00	
28	Andrews	19	May	yes	yes			1				1	#DIV/0!	260		12	8.33	0.00	1.00	1.00	1.00	
29	Andrews	20	May	yes	yes			2				2	1.00	360		9	22.22	0.00	1.00	1.00	2.00	
30	Concho	45	November	no	yes	3	0	0	0	0	0	3	0.06					#DIV/0!			0	
31	Concho	46	November	no	yes	3	0	0	0	0	0	3	1.00					#DIV/0!			0	
32	Concho	47	November	yes	yes	1	0	0	0	0	0	1	0.33					#DIV/0!			0	
33	Concho	48	December	yes	yes	1	0	0	0	0	0	1	1.00					#DIV/0!			0	
34	Concho	49	December	yes	no	0	0	0	0	0	0	0	0.00	0		0		#DIV/0!			0	
35	Concho	50	December	yes	yes	2	0	0	0	0	0	2	#DIV/0!	26	7.69	0		7.69			0	
36	Concho	51	December	yes	yes	2	0	0	0	0	0	2	1.00	29	6.90	0		6.90			0	
37	Concho	52	December	yes	yes	3	0	0	0	0	0	3	1.50	36	8.33			8.33	1	1	0	



information	yes	
week	14	
Row Labels	Sum of % sick with ili	
Ector	1.73	
Howard	6	
Kimble	1.826484018	
McCulloch	2.127659574	
Presidio	8.064516129	
Reagan	10.38961039	
Reeves	3.067484663	
Schleicher	1.149425287	
Tom Green	0.58	
Upton	17.39130435	
Winkler	2.456140351	
Grand Total	54.78262476	

information	yes	
Sum of Flu pos	Column Labels	
Row Labels		
Andrews	45	46
Ector	3	8
El Paso	17	16
Howard	1	1
Kimble	0	0
McCulloch	0	0
Midland	0	1
Reeves	0	0
Tom Green	3	0
Winkler	2	0
Grand Total	24	27



Weekly Report



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- Sent to select regional employees, flu reporters, and other stakeholders.
- Summary over region
 - Outbreaks and deaths
- County specific data
- Summary statistics
- Graphs

Overview of Influenza and Flu Activity

There was an 73% response rate this week from counties with recruited providers. Region wide reported 627 flu tests performed with 12.44% resulting in a positive test calculated from facilities that reported total flu tests performed. There was a total of 492 cases with 2.29% of visits due to ILI and/or flu calculated from facilities that reported total patients seen. Influenza A is still predominant in the region but there is an increase in Influenza B being reported.

This year's peak in Influenza occurred in February and is steadily declining each week. There still have been no influenza associated pediatric deaths.

44% of HSR 9/10 counties reported. The following counties did not report: Borden, Brewster, Coke, Crane, Crockett, Culberson, Dawson, Glasscock, Hudspeth, Irion, Jeff Davis, Loving, Martin, Mason, McCulloch, Menard, Sterling, Terrell, and Ward.

Extreme increase
Moderate increase
Slight increase

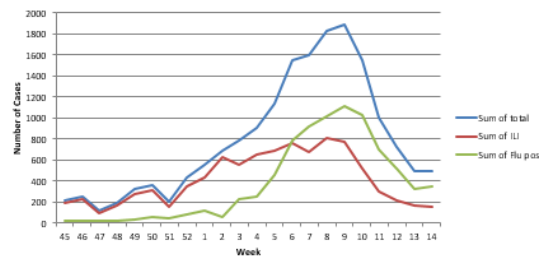
Summary of Influenza Like Illness (ILI) and Influenza activity for all counties in HSR 9/10									
County	ILI	Rapid Flu A	Rapid Flu B	Rapid flu nondiff	PCR Flu A	PCR Flu B	# of patients	% visits due to ILI and/or Flu	% positive flu test
Andrews		6	2				270	2.96	27
Concho							22		
Ector	7	2	4	0	0	0	173	1.73*	70
El Paso		229	69	2	4	0	0		130
Gaines			1				143	0.70	9
Howard	9		1				150		
Kimble	4	1					219	2.28	1
Midland	101				3	16			221
Pecos									
Presidio	5						62	8.06	2
Reeves	5			1			163	3.68	6
Schleicher	1						87	1.15	5
Tom Green	5	7	2	0	0	0	864	1.51*	143
Upton	8						46	17.39	8
Winkler	7						285	2.46	5
Total	152	245	79	3	7	16	2,114	2.29*	627
									12.44*

* Calculation did not include ILI or positive flu where a county/facility did not report total number of patients seen.

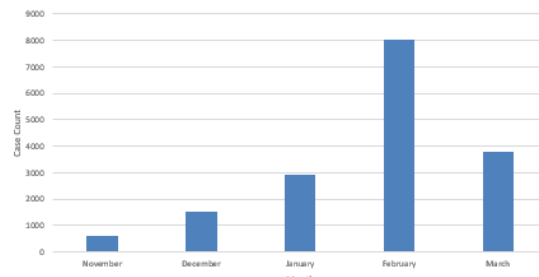
* Calculation did not include positive flu results if the county/facility did not report # of flu tests performed.

Weekly Trends of ILI and Influenza

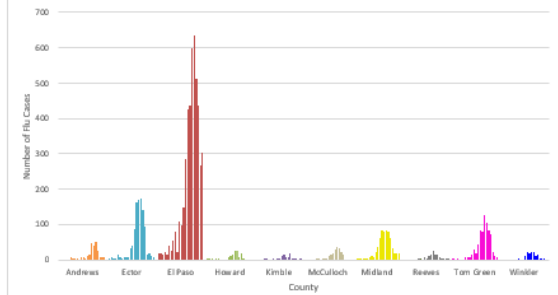
Total ILI and Flu Cases For HSR 9/10



Total Flu and ILI Case Count Per Month

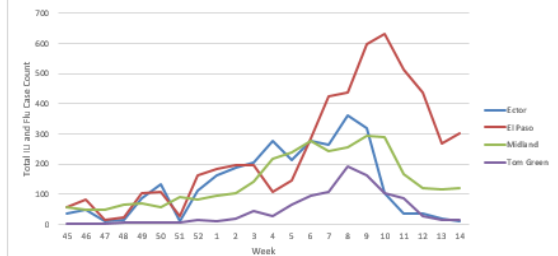


Weekly Flu Counts Per County

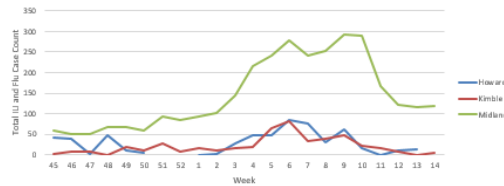


The individual bars within each county represent a week. Counties with less bars than others or spaces between bars indicates no positive flu results for that week.

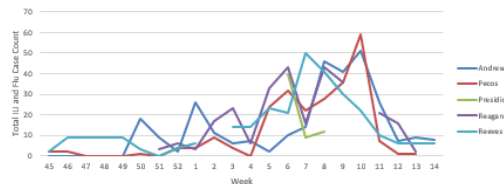
Counties With Max Case Count Greater than 190



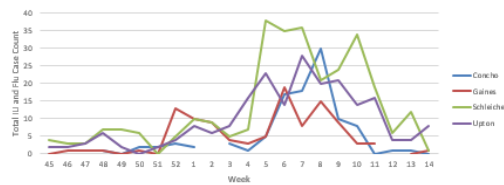
Counties With Max Case Count Greater than 80



Counties With Max Case Count Greater than 40



Counties With Max Case Count Greater than 15



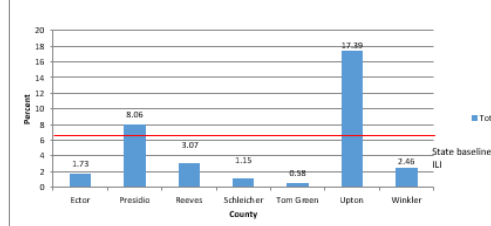
ILI and Type of Flu Activity Coded by County



There continues to be less Flu activity distribution across the region. Positive flu tests occurred in 10 of the counties with 72% Flu A, 27% Flu B, and 1% non-differentiated.

Patients with an ILI

Percent of Patients With ILI



As a total the region reported 152 ILI cases resulting in 1.89% of patient visits due to ILI symptoms calculated from facilities that reported both total patients seen and ILI. This is below baseline of 6.64% for ILI in Texas (DSHS FluTexas) and a decrease from last week.



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Thank you
