

Reportable Infectious Diseases Surveillance Assessment:

Timeliness and Completeness of Case Investigations

January 1 through June 30, 2013

(Current as of September 10, 2013)

Parameters

- MMWR 2013 cases entered on or after 1/1/2013 and closed through 6/30/2013
- Investigation Status = Closed cases
- Case Status = Confirmed, Probable, or Suspect
- Exclusion = Animal Bites, Rabies (animal) Chronic Hepatitis B and Hepatitis C - chronic or resolved cases
- Total number of cases = 605

Estimates

- County/Regional Time = First Notification Date (PHC Add Date)
 - Time from case creation to state notification
 - Target completion time is 21 days or less**
- State Time = First Notification Sent Date (First Notification Date)
 - Time from state notification to CDC notification
 - Target completion time is 7 days or less**
- Median Number of Days
 - Half of cases took more days than this value
 - Half of cases took less days than this value
 - Prevents a single case from having undue influence

Disease Conditions

- Anaplasma phagocytophilum
- Botulism, infant
- Campylobacteriosis
- Cryptosporidiosis
- Giardiasis
- Group A Streptococcus, invasive
- Group B Streptococcus, invasive
- Haemophilus influenzae, invasive
- Hepatitis A, acute
- Hepatitis B, acute
- Hepatitis C, acute
- Legionellosis
- Lyme Disease
- Malaria
- Mumps
- Neisseria meningitidis, invasive
- Pertussis
- Salmonellosis
- Shiga toxin-producing Escherichia coli (STEC)
- Shigellosis
- Streptococcal toxic-shock syndrome
- Streptococcus pneumoniae, invasive disease (IPD)
- Yersiniosis

Completeness of Case Reports

(N=605)

	Count	% Complete
Gender	604	99.8%
Age	603	99.7%
County	594	98.2%
Race	508	84.0%

County/Region and State Timeliness - West Virginia, Jan-June 2013

County/Region				County/Region			
<u>County</u>	<u>Median Time (in Days)</u>	<u>State Median Time (in Days)</u>	<u>Number of Cases</u>	<u>County</u>	<u>Median Time (in Days)</u>	<u>State Median Time (in Days)</u>	<u>Number of Cases</u>
Barbour	2.5	3.5	2	Mineral	0.0	3.0	7
Berkeley	13.0	4.0	57	Mingo	51.0	5.0	5
Boone	51.0	6.0	1	Monongalia	5.5	2.0	14
Braxton	None	None	0	Monroe	24.0	4.0	5
Brooke	17.0	4.0	10	Morgan	7.0	6.0	11
Cabell	43.0	5.0	20	Nicholas	6.0	3.0	14
Calhoun	7.0	10.0	1	Ohio	14.5	2.5	6
Clay	9.0	5.0	3	Pendleton	0.0	3.0	1
Doddridge	7.0	0.0	1	Pleasants	1.5	4.0	2
Fayette	25.0	7.0	9	Pocahontas	19.0	3.0	2
Gilmer	3.0	16.0	2	Preston	22.0	0.0	2
Grant	3.0	1.0	9	Putnam	41.5	4.5	10
Greenbrier	5.0	6.0	11	Raleigh	12.0	3.5	52
Hampshire	0.0	6.5	2	Randolph	3.0	1.5	10
Hancock	21.0	0.0	8	Ritchie	0.0	7.0	3
Hardy	8.5	7.0	4	Roane	0.0	6.0	5
Harrison	0.0	4.0	29	Summers	36.0	9.0	5
Jackson	24.0	3.5	4	Taylor	8.0	7.0	5
Jefferson	13.0	3.0	29	Tucker	23.0	2.0	5
Kanawha	14.0	2.0	82	Tyler	18.0	1.0	5
Lewis	24.0	2.0	5	Upshur	7.0	1.0	7
Lincoln	14.0	3.0	1	Wayne	19.0	14.5	6
Logan	36.5	2.5	20	Webster	3.0	6.0	1
Marion	2.0	3.0	15	Wetzel	13.0	7.0	7
Marshall	20.0	0.0	7	Wirt	None	None	0
Mason	52.0	3.5	8	Wood	5.5	2.5	24
McDowell	35.0	2.0	4	Wyoming	16.5	3.0	8
Mercer	21.0	4.0	39				

Yellow shading indicates over target completion time:
 21 days for County/Region
 7 days for State

County/Region Timeliness - by Frequency, WV, Jan-June 2013

County	County/Region	Number of Cases	County	County/Region	Number of Cases
	Median Time (in Days)			Median Time (in Days)	
Kanawha	14.0	82	Lewis	24.0	5
Berkeley	13.0	57	Mingo	51.0	5
Raleigh	12.0	52	Monroe	24.0	5
Mercer	21.0	39	Roane	0.0	5
Harrison	0.0	29	Summers	36.0	5
Jefferson	13.0	29	Taylor	8.0	5
Wood	5.5	24	Tucker	23.0	5
Cabell	43.0	20	Tyler	18.0	5
Logan	36.5	20	Hardy	8.5	4
Marion	2.0	15	Jackson	24.0	4
Monongalia	5.5	14	McDowell	35.0	4
Nicholas	6.0	14	Clay	9.0	3
Greenbrier	5.0	11	Ritchie	0.0	3
Morgan	7.0	11	Barbour	2.5	2
Brooke	17.0	10	Gilmer	3.0	2
Putnam	41.5	10	Hampshire	0.0	2
Randolph	3.0	10	Pleasants	1.5	2
Fayette	25.0	9	Pocahontas	19.0	2
Grant	3.0	9	Preston	22.0	2
Hancock	21.0	8	Boone	51.0	1
Mason	52.0	8	Calhoun	7.0	1
Wyoming	16.5	8	Doddridge	7.0	1
Marshall	20.0	7	Lincoln	14.0	1
Mineral	0.0	7	Pendleton	0.0	1
Upshur	7.0	7	Webster	3.0	1
Wetzel	13.0	7	Braxton	None	0
Ohio	14.5	6	Wirt	None	0
Wayne	19.0	6			

Counties shaded in yellow in the right-hand column are those over the 21-day processing target that handled a relatively small number of cases.

County/Region and State Timeliness – by Region, WV, Jan-June 2103

	<u>County/Region</u> <u>Median Time</u> <u>(in Days)</u>	<u>State Median</u> <u>Time (in Days)</u>	<u>Number</u> <u>of Cases</u>	<u>Region %</u> <u>of Total</u> <u>Cases</u>
Region 1				
Fayette	25.0	7.0	9	22.0%
Greenbrier	5.0	6.0	11	
McDowell	35.0	2.0	4	
Mercer	21.0	4.0	39	
Monroe	24.0	4.0	5	
Raleigh	12.0	3.5	52	
Summers	36.0	9.0	5	
Wyoming	16.5	3.0	8	
Region 2				
Boone	51.0	6.0	1	12.4%
Cabell	43.0	5.0	20	
Jackson	24.0	3.5	4	
Lincoln	14.0	3.0	1	
Logan	36.5	2.5	20	
Mason	52.0	3.5	8	
Mingo	51.0	5.0	5	
Putnam	41.5	4.5	10	
Wayne	19.0	14.5	6	
Region 3				
Berkeley	13.0	4.0	57	20.2%
Grant	3.0	1.0	9	
Hampshire	0.0	6.5	2	
Hardy	8.5	7.0	4	
Jefferson	13.0	3.0	29	
Mineral	0.0	3.0	7	
Morgan	7.0	6.0	11	
Pendleton	0.0	3.0	1	
Pocahontas	19.0	3.0	2	
Region 4				
Brooke	17.0	4.0	10	7.1%
Hancock	21.0	0.0	8	
Marshall	20.0	0.0	7	
Ohio	14.5	2.5	6	
Tyler	18.0	1.0	5	
Wetzel	13.0	7.0	7	

	<u>County/Region</u> <u>Median Time</u> <u>(in Days)</u>	<u>State Median</u> <u>Time (in Days)</u>	<u>Number</u> <u>of Cases</u>	<u>Region %</u> <u>of Total</u> <u>Cases</u>
Region 5				
Doddridge	7.0	0.0	1	10.9%
Harrison	0.0	4.0	29	
Marion	2.0	3.0	15	
Monongalia	5.5	2.0	14	
Preston	22.0	0.0	2	
Taylor	8.0	7.0	5	
Region 6				
Calhoun	7.0	10.0	1	5.8%
Pleasants	1.5	4.0	2	
Ritchie	0.0	7.0	3	
Roane	0.0	6.0	5	
Wirt	None	None	0	
Wood	5.5	2.5	24	
Region 7				
Barbour	2.5	3.5	2	8.1%
Braxton	None	None	0	
Clay	9.0	5.0	3	
Gilmer	3.0	16.0	2	
Lewis	24.0	2.0	5	
Nicholas	6.0	3.0	14	
Randolph	3.0	1.5	10	
Tucker	23.0	2.0	5	
Upshur	7.0	1.0	7	
Webster	3.0	6.0	1	
Region 8				
Kanawha	14.0	2.0	82	13.6%

Most over-target counties lie in Regions 1 and 2

Limitations

- Local Health Department processing time cannot be separated from Regional processing time
- Unable to account for time spent on cases after rejection by the state for incomplete information
- Time points used for these analyses may not fully reflect time spent on each case
- Results do not account for type of case (some cases, by their nature, take longer to complete)
- Cases that do not require a report to CDC and cases not held to the 21-day processing target were excluded from this analysis, but may affect a county's workload