

Evaluation of 2022 Surveillance Indicators for Selected Diseases* in the West Virginia Electronic Disease Surveillance System

County (n=55)	Region	Total # VPD Investigations**	Total # VPD cases	% VPD investigations that were CASES	Duration of VPD Case Investigation*** (in days)			% cases with demographic information****	VPD cases with vaccine info^	% of VPD with vaccine info	# of participating Flu Sentinel Providers	% reporting Varicella counts weekly^^	Total # FWB investigations	Total # FWB diseases cases	% FWB investigations that were CASES	% of FWBD with complete demographic information****	% of FWBD with EXPOSURE^^^ information	Total # ZD investigations**	Total # ZD diseases cases	% of ZD that were CASES	Duration of Zoonotic Disease Case Investigation*** (in days)			% of ZD with complete demographic information****	Total # CRO Investigations**	Total # CRO Cases	% of CRO that were CASES	% of CRO with complete demographic information****
					min	max.	med.														min	max.	med.					
Braxton,WV	C	6	1	17%	131	131	131	100%	0	0	0	73%	14	13	93%	100%	85%	1	1	100%	41	41	41	100%	1	1	100%	100%
Kanawha,WV	C	137	53	39%	3	83	29	98%	3/5	60%	0	0%	78	75	96%	95%	87%	10	3	30%	13	331	32	100%	25	15	60%	92%
Lewis,WV	C	9	7	78%	7	36	21	71%	1/1	100%	1	0%	14	11	79%	82%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Putnam,WV	C	17	7	41%	11	111	29	100%	0/1	0%	0	0%	24	24	100%	79%	46%	5	2	40%	38	118	72	80%	4	2	50%	100%
Upshur,WV	C	7	5	71%	26	191	35	80%	0	0%	4	100%	20	19	95%	100%	84%	1	1	100%	71	71	71	100%	1	1	100%	0%
Webster,WV	C	3	2	67%	24	29	27	100%	0	0%	1	0%	1	1	100%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
CENTRAL = 6		179	75	42%	3	191	121	92%	4	3 LHD	3 LHDs	2 LHD	151	143	95%	93%	84%	17	7	41%	13	331	56	63	31	19	61%	32
Berkeley,WV	E	18	12	67%	7	111	50	100%	0	0%	1	100%	69	68	99%	94%	13%	9	1	11%	7	297	53	78%	5	4	80%	100%
Grant,WV	E	4	4	100%	35	70	66	100%	0/1	0%	0	98%	6	6	100%	100%	33%	5	1	20%	25	182	78	80%	0	0	N/A	N/A
Hampshire,WV	E	6	5	83%	8	43	12	100%	0	0%	0	98%	10	8	80%	100%	88%	1	0	0%	14	14	14	100%	3	2	67%	100%
Hardy,WV	E	1	1	100%	28	28	28	100%	0	0%	0	0%	7	7	100%	86%	29%	1	0	0	35	35	35	100%	0	0	N/A	N/A
Jefferson,WV	E	7	5	71%	61	232	93	80%	1/2	50%	0	2%	40	37	93%	92%	38%	4	2	50%	0	57	31	25%	3	2	67%	33%
Mineral,WV	E	5	5	100%	8	48	40	80%	0	0%	0	2%	13	13	100%	92%	46%	1	0	0%	284	284	284	100%	1	0	N/A	100%
Morgan,WV	E	5	1	20%	154	154	154	0%	0	0%	0	0%	14	13	93%	92%	69%	1	0	0%	260	260	260	0%	0	0	N/A	N/A
Pendleton,WV	E	1	0	N/A	N/A	N/A	0	0	0	0	1	96%	12	12	100%	83%	100%	1	0	0%	14	14	14	100%	1	0	N/A	100%
Pocahontas,WV	E	1	1	100%	43	43	43	100%	0	0	3	94%	8	6	75%	83%	100%	0	0	N/A	N/A	N/A	N/A	N/A	1	1	100%	100%
Randolph,WV	E	8	8	100%	0	80	3	50%	0	0	0	2%	17	15	88%	93%	73%	0	0	N/A	N/A	N/A	N/A	N/A	5	1	20%	100%
Tucker,WV	E	4	3	75%	29	64	33	67%	0	0%	1	0%	1	1	100%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
EASTERN = 11		60	45	75%	0	232	153	71%	1	1 LHD	4 LHDs	8 LHDs	197	186	94%	92%	63%	23	4	17%	0	297	149	53%	19	10	53%	58%
Barbour,WV	NE	7	4	57%	8	191	191	25%	N/A	N/A	0	0%	4	4	100%	100%	0%	2	2	100%	11	71	41	50%	4	0	0	100%
Doddridge,WV	NE	2	1	50%	7	7	7	100%	N/A	N/A	1	98%	5	3	60%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	1	1	100%	100%
Harrison,WV	NE	30	19	63%	1	45	26	95%	1/1	100%	2	83%	33	28	85%	82%	96%	0	0	N/A	N/A	N/A	N/A	N/A	5	5	100%	100%
Marion,WV	NE	21	16	76%	31	229	74	100%	N/A	N/A	1	0%	23	22	96%	86%	45%	0	0	N/A	N/A	N/A	N/A	N/A	7	2	28%	100%
Monongalia,WV	NE	15	11	73%	7	41	13	64%	N/A	N/A	0	100%	41	41	100%	71%	83%	2	0	0%	40	60	50	50%	5	2	40%	83%
Preston,WV	NE	106	5	5%	7	28	14	80%	N/A	N/A	0	100%	27	23	85%	96%	100%	1	1	100%	13	13	13	100%	1	1	100%	0%
Taylor,WV	NE	6	4	67%	3	245	135	50%	0/1	0%	1	0%	12	12	100%	92%	0%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
NORTHEASTERN = 7		187	60	32%	1	245	245	73%	1	1 LHD	4 LHDs	4 LHDs	145	133	92%	90%	61%	5	3	29%	13	71	65	29%	23	11	53%	69%
Brooke,WV	NW	8	4	50%	33	135	80	25%	0/1	0%	1	0%	7	7	100%	43%	86%	0	0	N/A	N/A	N/A	N/A	N/A	14	4	36%	71%
Calhoun,WV	NW	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	38%	2	2	100%	100%	100%	1	0	0%	89	89	89	100%	0	0	N/A	N/A
Clay,WV	NW	3	3	100%	73	90	75	100%	N/A	N/A	3	63%	6	6	100%	100%	100%	1	0	0%	110	110	110	0%	0	0	N/A	N/A
Gilmer,WV	NW	2	0	N/A	N/A	N/A	N/A	0%	N/A	N/A	1	0%	2	1	50%	100%	0%	0	0	N/A	N/A	N/A	N/A	N/A	1	1	100%	100%
Hancock,WV	NW	6	1	17%	36	36	36	100%	N/A	N/A	3	0%	5	5	100%	80%	60%	0	0	N/A	N/A	N/A	N/A	N/A	1	1	100%	100%
Marshall,WV	NW	4	3	75%	2	224	42	67%	1/1	100%	0	0%	10	7	70%	57%	86%	2	2	100%	36	60	48	100%	2	0	N/A	50%
Ohio,WV	NW	9	9	100%	34	315	245	56%	N/A	N/A	1	100%	8	8	100%	75%	25%	0	0	N/A	N/A	N/A	N/A	N/A	7	5	71%	71%

Pleasants,WV	NW	1	1	100%	56	56	56	100%	N/A	N/A	1	38%	5	4	80%	75%	100%	1	1	100%	14	14	14	100%	1	1	100%	100%
Ritchie,WV	NW	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	38%	3	3	100%	67%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Roane,WV	NW	2	1	50%	28	28	28	100%	N/A	N/A	0	38%	17	17	100%	94%	65%	2	0	0%	13	56	45	100%	1	0	N/A	100%
Tyler,WV	NW	4	4	100%	57	224	180	100%	N/A	N/A	0	0%	1	1	100%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Wetzel,WV	NW	4	3	75%	34	323	143	100%	N/A	N/A	0	0%	5	5	100%	100%	80%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Wirt,WV	NW	1	1	100%	72	72	72	100%	0/1	0%	0	38%	2	2	100%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Wood,WV	NW	26	25	96%	11	253	43	100%	4/4	100%	1	38%	33	32	97%	88%	72%	0	0	N/A	N/A	N/A	N/A	N/A	5	2	50%	80%
NORTHWESTERN = 14		70	55	79%	2	323	322	68%	5	1 LHD	9 LHDs	8 LHDs	106	100	94%	84%	77%	7	3	43%	13	60	30	0	32	14	44%	49%
Fayette,WV	S	10	5	50%	1	92	67	80%	N/A	N/A	0	0%	25	24	96%	54%	75%	3	3	100%	2	56	18	100%	11	9	82%	82%
Greenbrier,WV	S	9	3	33%	19	70	56	100%	N/A	N/A	1	0%	7	7	100%	71%	29%	1	0	0%	182	182	182	0%	0	0	N/A	N/A
McDowell,WV	S	5	4	80%	52	84	72	50%	0/1	0%	0	0%	8	8	100%	13%	0%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Mercer,WV	S	35	25	71%	0	32	8	96%	2/3	67%	1	0%	22	21	95%	100%	90%	1	0	0%	123	123	123	0%	4	3	75%	100%
Monroe,WV	S	10	9	90%	7	18	11	100%	7/7	100%	1	98%	19	17	89%	100%	100%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Nicholas,WV	S	12	11	92%	55	268	71	100%	0/1	0%	1	58%	14	12	86%	58%	25%	0	0	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
Raleigh,WV	S	44	26	59%	2	42	15	92%	N/A	N/A	1	90%	36	35	97%	94%	100%	1	1	100%	24	24	24	100%	31	28	90%	90%
Summers,WV	S	5	3	60%	76	148	79	67%	N/A	N/A	1	98%	4	4	100%	100%	75%	1	1	100%	82	82	82	100%	2	1	50%	100%
Wyoming,WV	S	9	6	67%	6	47	35	33%	N/A	N/A	1	90%	9	9	100%	67%	89%	1	0	0%	17	17	17	100%	8	7	88%	88%
SOUTHERN = 9		139	92	66%	0	268	134	80%	9	2 LHDs	7 LHDs	5 LHDs	144	137	95%	73%	65%	8	5	63%	2	182	181	44%	56	48	86%	51%
Boone,WV	W	11	5	45%	84	205	167	100%	N/A	N/A	0	0%	10	9	90%	56%	0%	0	0	N/A	N/A	N/A	N/A	N/A	1	0	N/A	100%
Cabell,WV	W	31	25	81%	1	224	22	88%	3/3	100%	2	0%	29	29	100%	79%	66%	17	2	12%	21	188	116	12%	6	1	17%	67%
Jackson,WV	W	18	13	72%	6	26	13	85%	N/A	N/A	1	0%	20	20	100%	85%	95%	2	1	50%	23	250	137	50%	0	0	N/A	N/A
Lincoln,WV	W	7	6	86%	6	29	16	83%	1/1	100%	1	0%	9	9	100%	89%	44%	4	4	100%	51	118	82	50%	0	0	N/A	N/A
Logan,WV	W	17	8	47%	66	252	94	88%	N/A	N/A	2	0%	14	12	86%	67%	0%	2	1	50%	55	316	186	0%	3	3	100%	100%
Mason,WV	W	6	5	83%	11	33	17	60%	N/A	N/A	1	4%	18	16	89%	100%	100%	10	3	30%	7	263	18	80%	2	2	100%	100%
Mingo,WV	W	2	1	50%	22	22	22	100%	N/A	N/A	2	0%	12	11	92%	82%	82%	2	1	50%	36	255	146	0%	0	0	N/A	N/A
Wayne,WV	W	10	8	80%	13	63	38	88%	N/A	N/A	1	0%	20	21	105%	62%	24%	6	2	33%	15	238	48	17%	1	0	N/A	100%
WESTERN = 8		102	71	70%	1	252	252	86%	4	2 LHDs	7 LHDs	1 LHD	132	127	96%	77%	51%	57	14	41%	7	316	313	26%	13	6	27%	58%
TOTAL		737	398	54%	0	323	162	1	24	10 LHDs	34 LHDs	28 LHDs	875	826	94%	9%		117	36	31%	0	331	166		174	108		

*Selected Diseases:

1. **VPD:** Mumps, Measles, Rubella, Diphtheria, Pertussis, Tetanus, H. flu. Invasive, N. meningitidis invasive, S. pneumoniae invasive

2. **Food and Waterborne Disease:** STEC, Campylobacteriosis, Giardiasis, Salmonellosis, Shigellosis

3. **Zoonotic Disease:** Anaplasmosis, Arboviral infections, Babesiosis, Ehrlichiosis, Malaria, Rickettsia sp.

5. MDRO: Carbapenem Resistant Enterobacterales: *Citrobacter spp.*, *Edwardsiella spp.*, *Enterobacter spp.*, *Escherichia spp.*, *Klebsiella spp.*, *Morganella spp.*, *Pantoea spp.*, *Plesiomonas spp.*, *Proteus spp.*, *Providencia spp.*, *Salmonella spp.*, *Serratia spp.*, *Yersenia spp.*.

****Investigations:** includes case and none cases, % investigations that were cases = total # of cases/total # of cases and not a case x 100. Exclude: out of state, for duplicates count only once, opened as incorrect (user error)

*****Duration of Investigation** (Investigation Date to Date submitted by RE to State Review) = 1st Notification Date-PHC Add Time (min, max, med)

******Demographics:** age, gender, race, ethnicity, county of residence. Cases with missing or unknown response are considered incomplete. % cases with Demog. Info. = total # cases with 5 demographic info completed/total # cases x 100

^ **Vaccine info:** All VPD of all ages. Exception: Only for under 5 years old for H. influenzae invasive and S. pneumoniae invasive.

^^ **Varicella weekly reporting:** LHDs reporting varicella aggregate counts (out of 52 MMWR weeks), # wks reported/52 x 100

^^^ **Exposure:** any exposure documentation