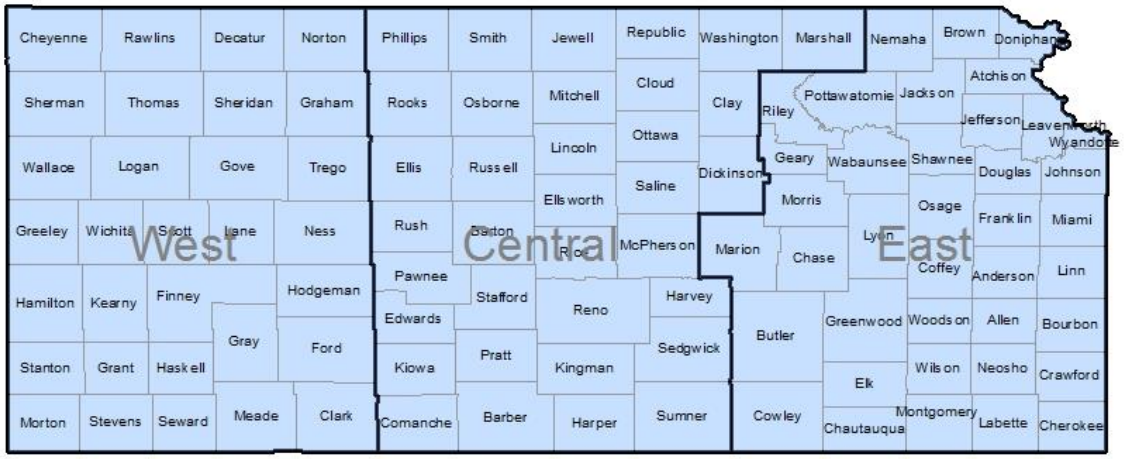
Kansas West Nile Virus (WNV) Weekly Surveillance and Transmission Risk Report

West Nile virus Transmission Risk Level by Region*



Legend

Risk Level

Low

Key to West Nile Virus Risk Levels in Kansas - 2017		
Risk	**What it Means**	**What You Can Do**
Minimal	The mosquito species that carries WNV has not been detected. This does *not* mean the risk is zero.	**To Prepare:** Mosquito-Proof Your Home: • Keep screens on windows and doors in good repair. • Use air conditioning if you have it. • Drain - Reduce number of mosquitoes around your home by emptying standing water from flowerpots, gutters, buckets, pool covers, pet water dishes, discarded tires, and birdbaths on a regular basis.
Low	The mosquito species that carries WNV has been detected. Infection with WNV is unlikely.	**To Prevent:** • Wear mosquito repellent during high mosquito hours (dusk to dawn) • Wear long sleeves and long pants during high mosquito hours (dusk to dawn) • Use mosquito netting on baby carriages and playpens
Moderate	High numbers of mosquitoes that can spread WNV have been detected. Infection with WNV is likely or has already occurred.	**To Prevent: add to previous level** • Wear mosquito repellent continuously • Wear long sleeves and long pants when weather permits • Dump standing water twice weekly
High	1) Mosquitoes have tested positive for WNV *OR* 2) this week has been identified as a 'high risk' WNV infection week based on historical human cases. Many people may get infected with WNV in your area.	**To Prevent: add to previous level** • People over 50 or those who are immune compromised may consider adjusting outdoor activity to avoid peak mosquito hours (from dusk to dawn).
Always know your risk – check risk level regularly at http://www.kdheks.gov/epi/arboviral_disease.htm		

Kansas Department of Health and Environment

Mosquito Surveillance Results, Week Ending October 27, 2017 (Week 23)

Table 1: Total Mosquitoes and Culex Spp. Mosquitoes Captured by Date and Region in Kansas, 2017[†]

	WEST & CENTRAL						EAST				
	Sedgwick			Reno			Shawnee			Johnson*	
Week Ending, 2017	Total Mosquitoes	*Culex spp.*	Two-Week Mean, *Culex spp.*	Total Mosquitoes	*Culex spp.*	Two-Week Mean, *Culex spp.*	Total Mosquitoes	*Culex spp.*	Two-Week Mean, *Culex spp.*	Total Mosquitoes	*Culex spp.*
5/17	48	24	—	—	—	—	—	—	—	830	10
5/24	81	24	24	161	89	—	18	9	—	—	—
5/31	125	45	34.5	1206	966	527.5	21	4	6.5	249	2
6/7	105	4	24.5	157	98	532	176	10	7	—	—
6/14	209	27	15.5	137	55	76.5	527	36	23	123	35
6/21	203	37	32	146	48	51.5	330	64	50	—	—
6/28	192	10	23.5	17	8	28	527	273	168.5	43	9
7/5	329	35	22.5	28	4	6	56	15	144	—	—
7/12	125	11	23	57	7	5.5	354	148	81.5	138	11
7/19	57	26	18.5	50	8	7.5	335	192	170	—	—
7/26	65	24	25	23	8	8	29	10	101	38	15
8/2	112	53	38.5	33	12	10	1200	1172	591	—	—
8/9	119	58	55.5	47	21	16.5	719	690	931	476	17
8/16	133	56	57	200	52	36.5	2502	2429	1559.5	—	—
8/23	119	36	46	279	78	65	509	456	1442.5	99	19
8/30	421	244	140	137	50	64	317	306	381	—	—
9/6	795	184	214	213	71	60.5	554	154	230	132	4
9/13	173	27	105.5	71	10	40.5	263	142	148	—	—
9/20	169	96	61.5	161	81	45.5	341	134	136	289	179
9/27	75	50	73	127	103	92	97	14	74	—	—
10/4	383	165	107.5	111	81	92	163	57	35.5	33	9
10/11	25	8	86.5	43	1	41	3	2	29.5	—	—
10/18	163	41	24.5	147	1	1	82	16	9	—	—
10/25	84	14	27.5	72	3	2	6	0	8	—	—

[†] *Evaluation of surveillance data from 2013 & 2014 revealed a strong correlation between the two-week mean Culex prevalence and human cases that occurred in Sedgwick County, and the entire state of Kansas, two and three weeks later. When the Culex spp. two-week mean is over 40, human cases may be expected in the subsequent weeks.*

**Two-week Culex spp. mean is not calculated for Johnson County due to biweekly trapping.*

During the week ending 7/26, only 3 out of 6 traps were set in Shawnee County.

Data from individual traps are used to guide mosquito control efforts. Data from a trap may be excluded when assigning a risk level to a region if only one location within a county has excessively high numbers. We will work with the county and city to provide recommendations on mosquito control efforts using the mosquito surveillance data.

Kansas Department of Health and Environment

Table 2: West Nile Virus Mosquito Test Results by Date and County in Kansas, 2017.

Week Ending, 2017	WEST & CENTRAL		EAST	
	Sedgwick	Reno	Shawnee	Johnson*
5/17				
5/24				—
5/31				
6/7				—
6/14				
6/21				—
6/28				
7/5				—
7/12				
7/19				—
7/26				
8/2				—
8/9				
8/16				—
8/23				
8/30				—
9/6				
9/13				—
9/20				
9/27				—
10/4				
10/11				—
10/18				
10/25				—

Indicates WNV positive mosquitoes were identifieid.

West Nile Virus Human Cases, 2017

Please visit http://www.kdheks.gov/epi/case_reports_by_county.htm for updated case counts.

For more information on arboviral disease surveillance in Kansas, call the Kansas Department of Health and Environment's Infectious Disease Epidemiology and Response section at 1-877-427-7317 or e-mail at kdhe.epihotline@ks.gov.

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