Mpox

Mpox

U.S. Wastewater Data
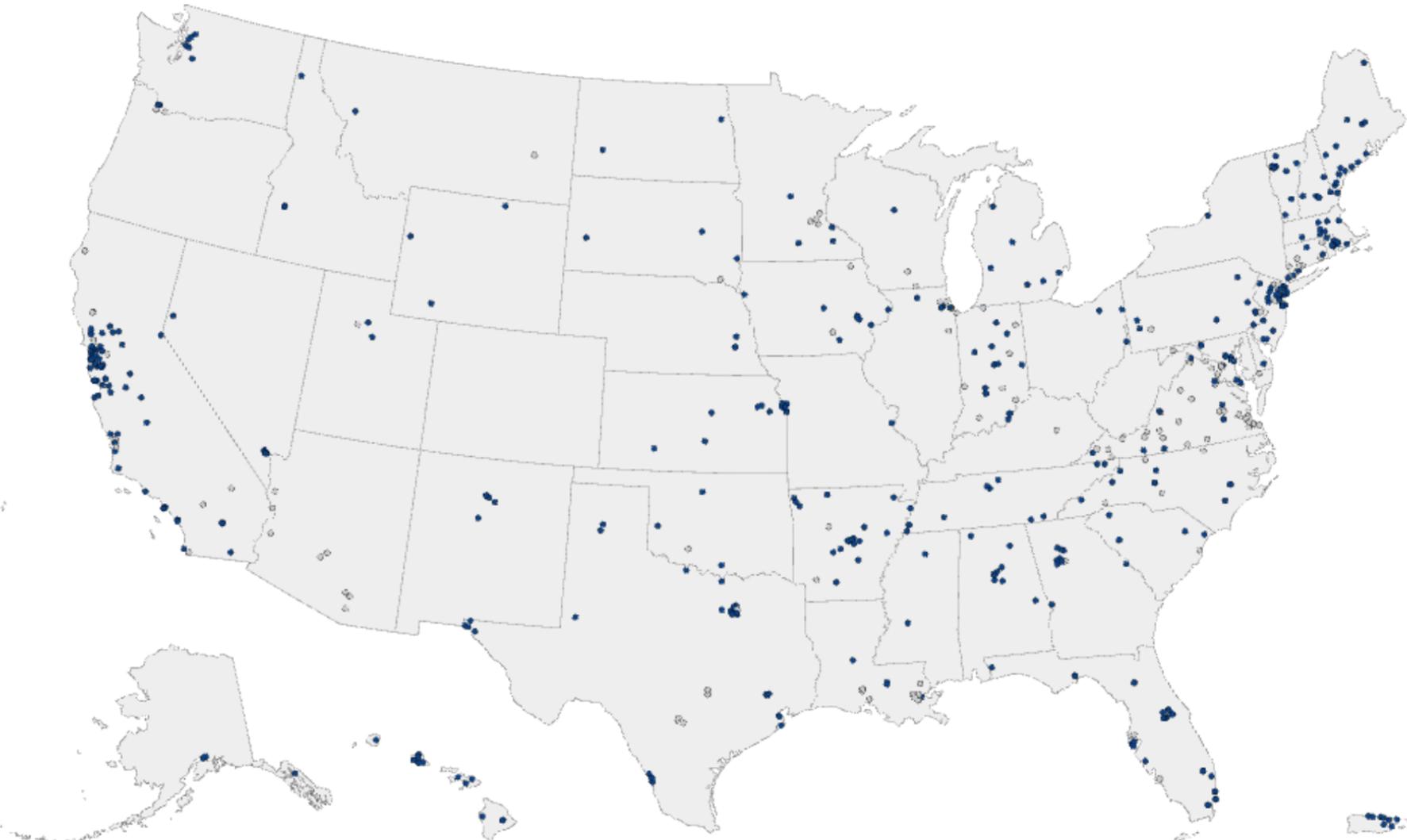
Updated September 6, 2023

NATIONAL ™ WASTEWATER SURVEILLANCE SYSTEM

NWSS

Communities can monitor the presence of mpox virus in wastewater samples. Data from samples can provide an early warning of mpox activity and spread in communities. For general information about wastewater surveillance, visit CDC's National Wastewater Surveillance System site.

Mpox virus detection in wastewater in the past 4 weeks, United States

Consistent detection	**Intermittent detection**	**No detection**	**No recent data**
0 sites (0%)	4 sites (1%)	456 sites (75%)	145 sites (24%)

Note: Click on a state to zoom in.

Legend

○ Consistent detection   ○ Intermittent detection

○ No detection   ○ No recent data

Note: Click on a detection category in the legend to remove sites with that detection category from the map.

About the Data

Detection categories:

○ Consistent detection: Mpox virus was detected in more than 80% of samples in the past 4 weeks AND the most recent detection was within the past 2 weeks.

○ Intermittent detection: Mpox virus was detected in 1% to 80% of samples in the past 4 weeks AND the most recent detection was within the past 2 weeks.

○ No detection: Mpox virus was not detected in any samples from the site in the past 4 weeks OR the most recent detection was more than 2 weeks ago.

○ No recent data: Too few samples were submitted (fewer than 3) in the past 4 weeks.

Interpretation:

Laboratory tests used for mpox wastewater surveillance can tell us if the virus's genetic material (viral DNA) is in untreated community wastewater. The tests cannot tell us if there is infectious virus in wastewater, only that the virus's genetic material is present. We do not know if mpox virus remains infectious, or for how long, in untreated wastewater. No detection of mpox virus in wastewater means there is no evidence from wastewater data that mpox is spreading in the local community. However, very low infection levels may be below the detection limit for wastewater testing. Intermittent or consistent detection means there are likely ongoing mpox infections in the community.

Download Data (CSV)

Data Table	—

Location	Detection Classification
○ 38	No recent data
○ 42	No recent data
○ 61	No recent data
○ 65	No detection
○ 76	No detection
○ 105	No detection
○ 125	No detection
○ 177	No recent data
○ 178	No recent data
○ 180	No recent data
○ 181	No recent data
○ 188	No detection
○ 220	No detection
○ 285	No detection
○ 291	No detection
○ 305	No detection
○ 342	No recent data
○ 347	No detection
○ 352	No detection
○ 353	No detection
○ 362	No detection
○ 363	No detection
○ 383	No detection
○ 393	No detection
○ 402	No detection
○ 421	No detection

Location	Detection Classification
○ 446	No detection
○ 454	No recent data
○ 461	No recent data
○ 462	No detection
○ 464	No detection
○ 470	No detection
○ 472	No detection
○ 475	No detection
○ 476	No detection
○ 484	No detection
○ 485	No detection
○ 486	No detection
○ 487	No detection
○ 492	No recent data
○ 493	No detection
○ 494	No detection
○ 495	No detection
○ 496	No detection
○ 497 -B	No detection
○ 497 -A	No detection
○ 498	No detection
○ 499	No detection
○ 500	No detection
○ 501	No recent data
○ 503	No detection
○ 505	No detection
○ 506	No detection
○ 507	No detection
○ 509	No detection
○ 510	No detection
○ 511	No recent data
○ 534	No recent data
○ 536	No detection
○ 537	No recent data
○ 539	No recent data
○ 540	No detection
○ 541	No detection
○ 544	No detection
○ 545	No detection
○ 546	No recent data
○ 547	No detection
○ 548	No detection
○ 549	No detection
○ 550	No detection

Location	Detection Classification
◯ 551	No detection
◯ 552	No detection
◯ 553	No detection
◯ 554	No detection
◯ 555	No detection
◯ 560	No detection
◯ 561 -A	No detection
◯ 561 -B	No detection
◯ 562	No detection
◯ 563	No recent data
◯ 564 -A	No detection
◯ 564 -B	No detection
◯ 565	No detection
◯ 566	No detection
◯ 569 -A	No detection
◯ 569 -B	No detection
◯ 570 -B	No detection
◯ 570 -A	No detection
◯ 574	No detection
◯ 575	No detection
◯ 590	No recent data
◯ 593	No detection
◯ 599	No recent data
◯ 600	No detection
◯ 635 -U1	No detection
◯ 635 -U3	No detection
◯ 635 -U2	No detection
◯ 661	No recent data
◯ 663	No detection
◯ 666	No recent data
◯ 667	No detection
◯ 668 -B	No detection
◯ 668 -A	No detection
◯ 669 -B	No detection
◯ 669 -A	No detection
◯ 670 -B	No detection
◯ 670 -A	No detection
◯ 671 -B	No detection
◯ 671 -A	No detection
◯ 672	No detection
◯ 673	No detection
◯ 674 -U1	No detection
◯ 674 -U3	No detection
◯ 674 -U2	Intermittent detection

Location	Detection Classification
◯ 675 -U4	No detection
◯ 675 -U3	Intermittent detection
◯ 675 -U1	No detection
◯ 675 -U5	Intermittent detection
◯ 675 -U2	Intermittent detection
◯ 676	No detection
◯ 677	No detection
◯ 678	No recent data
◯ 679	No detection
◯ 681	No detection
◯ 682	No recent data
◯ 683	No recent data
◯ 684	No recent data
◯ 686	No recent data
◯ 701	No detection
◯ 703	No detection
◯ 706	No detection
◯ 709	No detection
◯ 710	No detection
◯ 711 -B	No detection
◯ 711 -A	No detection
◯ 715	No recent data
◯ 716	No detection
◯ 724	No recent data
◯ 727	No detection
◯ 741	No detection
◯ 763 -B	No detection
◯ 763 -A	No detection
◯ 764	No detection
◯ 765	No detection
◯ 767	No detection
◯ 768	No detection
◯ 769	No recent data
◯ 770	No detection
◯ 771	No recent data
◯ 772 -B	No detection
◯ 772 -A	No detection
◯ 777	No detection
◯ 778	No recent data
◯ 779 -A	No detection
◯ 779 -B	No detection
◯ 781 -B	No detection
◯ 781 -A	No detection
◯ 783	No recent data

Location	Detection Classification
○ 784	No recent data
○ 787	No detection
○ 788	No detection
○ 788 -B	No detection
○ 788 -A	No recent data
○ 790 -A	No detection
○ 790 -B	No detection
○ 792	No detection
○ 793	No detection
○ 795	No recent data
○ 798 -B	No detection
○ 798 -A	No detection
○ 802 -A	No detection
○ 802 -B	No detection
○ 803	No detection
○ 804	No recent data
○ 805	No detection
○ 806	No recent data
○ 807	No detection
○ 808	No recent data
○ 810	No recent data
○ 811	No recent data
○ 813	No detection
○ 828 -B	No detection
○ 828 -A	No detection
○ 831	No detection
○ 832	No recent data
○ 833	No detection
○ 834 -B	No detection
○ 834 -A	No detection
○ 835	No detection
○ 847	No recent data
○ 848	No recent data
○ 849	No recent data
○ 853	No detection
○ 854	No detection
○ 863	No detection
○ 865 -A	No detection
○ 865 -B	No detection
○ 867 -B	No detection
○ 867 -A	No detection
○ 892	No detection
○ 993	No recent data
○ Lawrence	No recent data

Location	Detection Classification
◯ 1080 -A	No detection
◯ 1080 -B	No detection
◯ Lee	No detection
◯ 1082 -B	No detection
◯ 1082 -A	No detection
◯ Limestone	No detection
◯ 01084	No detection
◯ Pickens	No detection
◯ 01108	No recent data
◯ Russell	No recent data
◯ 01116	No detection
◯ 1131 -A	No recent data
◯ 1131 -B	No recent data
◯ 01134	No detection
◯ 01139	No detection
◯ 01140	No recent data
◯ 01141	No recent data
◯ 01142	No detection
◯ 01148	No recent data
◯ 01157	No detection
◯ 01158	No detection
◯ 01159	No detection
◯ 01160	No detection
◯ 01161	No detection
◯ 01162	No detection
◯ 01163	No detection
◯ 1165 -B	No detection
◯ 1165 -A	No recent data
◯ 1172 -B	No detection
◯ 1172 -A	No detection
◯ 1173 -B	No detection
◯ 1173 -A	No detection
◯ 01175	No detection
◯ 01176	No recent data
◯ 01177	No detection
◯ 01179	No detection
◯ 01180	No detection
◯ 01181	No detection
◯ 01195	No recent data
◯ 01196	No recent data
◯ 01197	No recent data
◯ 01198	No detection
◯ 01199	No detection
◯ 01200	No recent data

Location	Detection Classification
○ 01202	No detection
○ 1203 -B	No detection
○ 1203 -A	No detection
○ 1204 -B	No detection
○ 1204 -A	No detection
○ 01205	No detection
○ 01206	No detection
○ 1208 -A	No detection
○ 1208 -B	No detection
○ 01210	No detection
○ 01211	No recent data
○ 01218	No detection
○ 01219	No recent data
○ 01220	No detection
○ 1221 -B	No detection
○ 1221 -A	No detection
○ 01223	No detection
○ 01224	No detection
○ 01229	No detection
○ 01230	No recent data
○ 1231 -A	No recent data
○ 1231 -B	No recent data
○ 01237	No recent data
○ 01259	No detection
○ 01260	No detection
○ 01261	No recent data
○ 01262	No detection
○ 01264	No detection
○ 01265	No recent data
○ 01266	No detection
○ 01267	No detection
○ 01268	No detection
○ 01269	No recent data
○ 01270	No recent data
○ 01271	No recent data
○ 01272	No recent data
○ 01273	No recent data
○ 01275	No recent data
○ 01277	No recent data
○ 01278	No detection
○ 01281	No recent data
○ 01282	No detection
○ 01283	No detection
○ 01284	No detection

Location	Detection Classification
○ 01285	No recent data
○ 01288	No detection
○ 01289	No recent data
○ 01291	No recent data
○ 01292	No detection
○ 1293 -B	No detection
○ 1293 -A	No recent data
○ 01299	No detection
○ 01300	No detection
○ 01302	No recent data
○ 01303	No detection
○ 01304	No detection
○ 01305	No detection
○ 01311	No detection
○ 01314	No detection
○ 01317	No detection
○ 01318	No detection
○ 01319	No detection
○ 01320	No detection
○ 01322	No detection
○ 1323 -A	No detection
○ 1323 -B	No detection
○ 01327	No recent data
○ 01329	No detection
○ 01330	No detection
○ 01333	No detection
○ 01334	No recent data
○ 01337	No detection
○ 01338	No recent data
○ 01348	No detection
○ 01349	No recent data
○ 01350	No recent data
○ 01352	No recent data
○ 01353	No detection
○ 01371	No detection
○ 01378	No detection
○ 01382	No recent data
○ 01383	No recent data
○ 01384	No detection
○ 01385	No recent data
○ 01386	No detection
○ 1387 -A	No recent data
○ 1387 -B	No detection
○ 01388	No detection

Location	Detection Classification
◯ 01392	No recent data
◯ 01393	No detection
◯ 01394	No detection
◯ 01395	No detection
◯ 01408	No detection
◯ 01409	No recent data
◯ 1410 -B	No detection
◯ 1410 -A	No detection
◯ 01411	No detection
◯ 01440	No detection
◯ 01441	No detection
◯ 01442	No detection
◯ 01443	No detection
◯ 01444	No detection
◯ 01445	No detection
◯ 01446	No detection
◯ 01447	No recent data
◯ 01448	No detection
◯ 01449	No recent data
◯ 01450	No detection
◯ 01452	No detection
◯ 1453 -A	No recent data
◯ 1453 -B	No detection
◯ 01453	No detection
◯ 01454	No recent data
◯ 01461	No detection
◯ 01462	No detection
◯ 01463	No detection
◯ 01464	No detection
◯ 01465	No detection
◯ 01471	No detection
◯ 01472	No detection
◯ 01473	No recent data
◯ 01490	No recent data
◯ 01491	No detection
◯ 01494	No detection
◯ 01495	No detection
◯ 01496	No recent data
◯ 01497	No recent data
◯ 01501	No detection
◯ 01502	No detection
◯ 01508	No detection
◯ 01509	No detection
◯ 01536	No detection

Location	Detection Classification
◯ 01537	No detection
◯ 01539	No detection
◯ 1540 -B	No detection
◯ 1540 -A	No detection
◯ 01541	No detection
◯ 01542	No detection
◯ 01543	No detection
◯ 01544	No detection
◯ 01545	No detection
◯ 01546	No detection
◯ 01548	No detection
◯ 1549 -A	No detection
◯ 01550	No recent data
◯ 01551	No detection
◯ 1552 -A	No detection
◯ 1552 -B	No detection
◯ 01558	No recent data
◯ 01559	No detection
◯ 01560	No detection
◯ 01561	No detection
◯ 01565	No detection
◯ 01576	No recent data
◯ 01593	No detection
◯ 01605	No recent data
◯ 01606	No recent data
◯ 01607	No detection
◯ 01613	No detection
◯ 01614	No recent data
◯ 01615	No recent data
◯ 1616 -A	No recent data
◯ 01616	No recent data
◯ 1616 -B	No detection
◯ 01617	No detection
◯ 01618	No detection
◯ 01626	No recent data
◯ 1631 -A	No detection
◯ 1631 -B	No detection
◯ 01632	No recent data
◯ 01633	No recent data
◯ 01648	No detection
◯ 01649	No detection
◯ 01650	No recent data
◯ 01651	No recent data
◯ 01652	No recent data

Location	Detection Classification
○ 01653	No detection
○ 01655	No detection
○ 01656	No recent data
○ 01657	No detection
○ 01658	No detection
○ 01659	No recent data
○ 01660	No detection
○ 01661	No detection
○ 01662	No detection
○ 01663	No detection
○ 01664	No detection
○ 01665	No detection
○ 01666	No detection
○ 01667	No detection
○ 01669	No detection
○ 01671	No detection
○ 01672	No detection
○ 01673	No detection
○ 01674	No detection
○ 01675	No detection
○ 01676	No detection
○ 01677	No detection
○ 01682	No detection
○ 01684	No detection
○ 01685	No detection
○ 01687	No recent data
○ 01688	No detection
○ 01689	No detection
○ 01690	No detection
○ 01691	No detection
○ 01692	No detection
○ 01693	No detection
○ 01695	No detection
○ 01696	No detection
○ 01697	No detection
○ 01698	No detection
○ 01701	No detection
○ 01703	No detection
○ 01706	No detection
○ 01708	No detection
○ 01709	No recent data
○ 01710	No detection
○ 01711	No detection
○ 01712	No detection

Location	Detection Classification
○ 01713	No detection
○ 01714	No detection
○ 01716	No detection
○ 01717	No detection
○ 01718	No detection
○ 01719	No detection
○ 01720	No detection
○ 01721	No detection
○ 01732	No detection
○ 01733	No detection
○ 01734	No detection
○ 1735 -B	No detection
○ 01736	No detection
○ 01737	No detection
○ 01738	No detection
○ 01739	No detection
○ 01740	No detection
○ 01741	No detection
○ 01742	No detection
○ 1751 -A	No recent data
○ 1751 -B	No detection
○ 01752	No detection
○ 01753	No detection
○ 01755	No detection
○ 01759	No recent data
○ 01760	No detection
○ 01761	No detection
○ 01762	No detection
○ 01764	No detection
○ 01765	No detection
○ 01766	No detection
○ 01778	No detection
○ 01779	No detection
○ 01780	No detection
○ 01781	No detection
○ 01783	No detection
○ 01784	No detection
○ 01785	No recent data
○ 01786	No detection
○ 01789	No detection
○ 01790	No detection
○ 01791	No detection
○ 01792	No detection
○ 01793	No detection

Location	Detection Classification
⚪ 01807	No detection
⚪ 01808	No detection
⚪ 01810	No detection
⚪ 01811	No detection
⚪ 01812	No detection
⚪ 01813	No detection
⚪ 1822 -B	No detection
⚪ 1822 -A	No detection
⚪ 01826	No recent data
⚪ 01827	No recent data
⚪ 01828	No recent data
⚪ 01829	No recent data
⚪ 01830	No recent data
⚪ 01831	No recent data
⚪ 01832	No recent data
⚪ 01833	No recent data
⚪ 01834	No recent data
⚪ 01837	No recent data
⚪ 01838	No recent data
⚪ 01839	No detection
⚪ 01842	No detection
⚪ 01866	No detection
⚪ 01867	No detection
⚪ 01869	No detection
⚪ 01870	No detection
⚪ 01918	No detection
⚪ 01930	No detection
⚪ 01946	No detection
⚪ 01947	No detection
⚪ 01948	No detection
⚪ 01949	No detection
⚪ 01963	No recent data
⚪ 01985	No recent data
⚪ 01989	No detection
⚪ 01990	No detection
⚪ 01992	No detection
⚪ 02002	No detection
⚪ 02003	No detection
⚪ 02008	No detection
⚪ 02029	No recent data
⚪ 02030	No detection
⚪ 02031	No detection
⚪ 02032	No detection
⚪ 02034	No recent data

Location	Detection Classification
◯ 02035	No recent data
◯ 02036	No recent data
◯ 02037	No recent data
◯ 02040	No detection
◯ 02041	No detection
◯ 02042	No detection
◯ 02043	No detection
◯ 02044	No detection
◯ 02077	No detection
◯ 02078	No recent data
◯ 02079	No recent data
◯ 02107	No detection
◯ 02109	No detection
◯ 02123	No detection
◯ 02171	No detection
◯ 02207	No detection
◯ 02208	No detection
◯ 02222	No detection
◯ Valdez-Cordova Ca	No detection
◯ 02263	No detection
◯ 02267	No recent data
◯ Wade Hampton	No detection
◯ 02271	No detection
◯ 02288	No detection
◯ Yukon-Koyukuk Ca	No recent data
◯ 02293	No detection
◯ 02325	No detection
◯ 02326	No detection
◯ 02344	No detection
◯ 02346	No detection
◯ 02347	No detection
◯ 02349	No detection
◯ 02350	No detection
◯ 02351	No detection
◯ 02352	No detection
◯ 02353	No detection
◯ 02354	No detection
◯ 02355	No detection
◯ 02356	No detection
◯ 02358	No detection
◯ 02359	No detection
◯ 02360	No detection
◯ 02374	No detection
◯ 02375	No detection

Location	Detection Classification
○ 02378	No detection

Footnotes

Data Description:

- Data are updated weekly.
- Each dot on the map represents a wastewater site. A site can represent all or part of a sewershed, which is the geographic area contributing wastewater to a sampling location. Sewersheds may cross county or state boundaries.
- Samples from some sites are tested for mpox virus at different laboratories that may use different collection and testing methods. These sites have more than one dot on the map with the same sewershed number followed by a different letter. These sites may have different detection categories for the different dots.
- Not all communities report wastewater data to CDC. Participation is voluntary. Wastewater samples are collected from sewer systems, so communities that rely primarily on septic systems are not represented.

Dot Locations:

Data are plotted in the ZIP code of the sampling location, so dots on the map do not correspond exactly to sampling locations.

Data Sources:

Data are from the National Wastewater Surveillance System (NWSS).

Laboratory Methods:

Mpox virus in wastewater is detected using quantitative polymerase chain reaction (qPCR) or digital polymerase chain reaction (dPCR) tests. Different laboratories may use different testing methods. For general information about testing methods, please visit CDC's Wastewater Surveillance Testing Methods webpage. This webpage provides information on SARS-CoV-2 wastewater testing methods, which are similar to mpox wastewater testing methods.