Mpox
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U.S. Wastewater Data

Updated May 17, 2023

Print

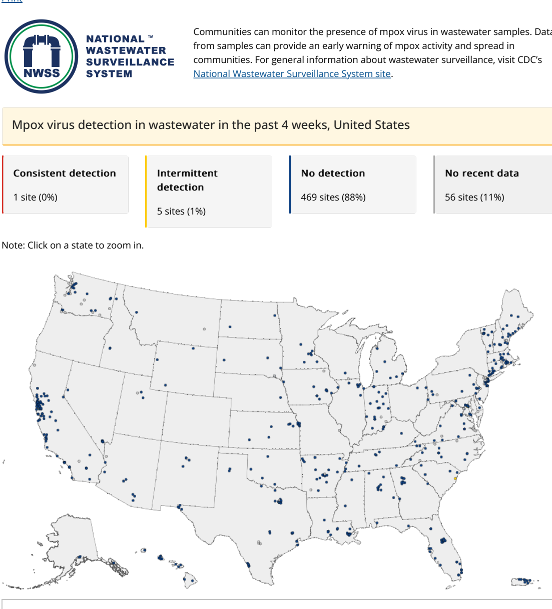
NATIONAL™ WASTEWATER SURVEILLANCE SYSTEM (NWSS)

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
1 site (0%)	5 sites (1%)	469 sites (88%)	56 sites (11%)

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
65	No detection
76	No detection
105	No detection
125	No detection
188	No detection
220	No detection
285	No detection
291	No detection
305	No detection
347	No detection
352	No detection
353	No detection
362	No detection
363	No detection
383	No detection
393	Intermittent detection
402	No detection
421	No detection
446	No detection
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	Intermittent detection
501	No detection
503	No detection
505	No detection
506	No detection
507	No detection
509	No detection
510	No detection
511	No detection
534	No detection
536	No detection
537	No detection
539	No recent data
540	No detection
541	No detection
544	No detection
545	No detection
546	No detection
547	No detection
548	No detection
549	No detection
550	No detection
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 detection
593	No detection
599	No recent data
600	No detection
661	No detection
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
676	No detection
677	No detection
678	No recent data
679	No detection
681	No detection
682	No detection
683	No detection
684	No detection
686	No detection
701	No recent data
703	No detection
706	No detection
709	No detection
710	No detection
711 -B	No detection
711 -A	No detection
715	No detection
716	No detection
724	No detection
727	No detection
741	No detection
753	No detection
755	No detection
758	No recent data
759	No detection
760	No detection
763 -B	No detection
763 -A	No detection
764	No detection
765	No detection
767	No detection
768	No detection
769	No detection
770	No detection
771	No detection
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 detection
784	No recent data
787	No detection
788 -B	No detection
788 -A	No recent data
790	No detection
792	No detection
793	No detection
795	No recent data
798	No detection
802 -A	No detection
802 -B	No detection
803	No detection
804	No recent data
805	No detection
806	No detection
807	No detection
808	No detection
810	No detection
811	No recent data
813	No detection
828	No detection
831	No detection
832	No detection
833	No detection
834 -B	No detection
834 -A	No detection
835	No detection
847	No recent data
848	No recent data
849	No detection
853	No detection
854	No recent data
863	No detection
865 -A	No detection
865 -B	No detection
867 -B	No detection
867 -A	No detection
892	Consistent detection
993	No detection
1076	No detection
1079	No detection
1080 -A	No detection
1080 -B	No detection
1081	No detection
1082 -B	No detection
1082 -A	No detection
1083	No detection
1084	No detection
1107	No detection
1108	No detection
1113	No recent data
1116	No detection
1131 -B	No detection
1131 -A	No detection
1134	No detection
1139	No detection
1140	No detection
1141	No detection
1142	No detection
1143	No recent data
1148	No recent data
1157	No detection
1158	No detection
1159	No detection
1160	No detection
1161	No detection
1162	No detection
1163	No detection
1165 -B	No detection
1165 -A	No recent data
1172	No detection
1173 -B	No detection
1173 -A	No detection
1175	No detection
1176	No recent data
1177	No detection
1179	No detection
1180	No detection
1181	No detection
1195	No recent data
1196	No detection
1197	No recent data
1198	No detection
1199	No detection
1200	No recent data
1202	No detection
1203	No detection
1204	No detection
1205	No detection
1206	No detection
1208	No detection
1210	No detection
1211	No recent data
1218	No detection
1219	No detection
1220	No detection
1221	No detection
1223	No detection
1224	No detection
1229	No detection
1230	No detection
1231	No detection
1259	No detection
1260	No detection
1261	No detection
1262	No detection
1264	No detection
1265	Intermittent detection
1266	No detection
1267	No detection
1268	Intermittent detection
1269	No detection
1270	No recent data
1271	No detection
1272	No recent data
1273	No detection
1275	No recent data
1277	No detection
1278	No detection
1281	No detection
1282	No detection
1283	No detection
1284	No detection
1285	No detection
1288	No detection
1289	No detection
1291	No recent data
1292	No detection
1293 -B	No detection
1293 -A	No detection
1299	No detection
1300	No detection
1302	No recent data
1303	No detection
1304	No detection
1305	No detection
1311	No detection
1314	No detection
1317	No detection
1318	No detection
1319	No detection
1320	No detection
1322	No detection
1323	No detection
1327	No recent data
1329	No detection
1330	No detection
1333	No detection
1334	No recent data
1337	No detection
1338	No detection
1348	No detection
1349	No recent data
1350	No detection
1352	No recent data
1353	No detection
1371	No detection
1378	No detection
1382	No detection
1383	No detection
1384	No detection
1385	No recent data
1386	No detection
1387 -A	No detection
1387 -B	No detection
1388	No detection
1392	No detection
1393	No detection
1394	No detection
1395	No detection
1397	No detection
1399	No recent data
1408	No detection
1409	No recent data
1410 -B	No detection
1410 -A	No detection
1411	No detection
1440	No detection
1441	No detection
1442	No detection
1443	No detection
1444	No detection
1445	No detection
1446	No detection
1447	No detection
1448	No detection
1449	No detection
1450	No detection
1452	No detection
1453 -A	No recent data
1453 -B	No detection
1454	No detection
1461	No detection
1462	No detection
1463	No detection
1464	No detection
1465	No detection
1471	No detection
1472	No detection
1473	No recent data
1490	No recent data
1491	No detection
1494	No detection
1495	No detection
1496	No recent data
1497	No detection
1501	No detection
1502	No detection
1508	No detection
1509	No detection
1512	No recent data
1536	No detection
1537	No detection
1539	No detection
1540 -B	No detection
1540 -A	No detection
1541	No detection
1542	No detection
1543	No detection
1544	No detection
1545	No recent data
1546	No detection
1548	No detection
1549 -A	No detection
1550	No detection
1551	No detection
1552	No detection
1558	No recent data
1559	No recent data
1560	No detection
1561	No detection
1565	No detection
1593	No detection
1605	No recent data
1606	No detection
1607	No detection
1613	No detection
1614	No detection
1615	No detection
1616 -A	No recent data
1616 -B	No detection
1617	No detection
1618	No detection
1620	No recent data
1626	No detection
1631 -A	No detection
1631 -B	No detection
1632	No detection
1633	No detection
1635	No recent data
1648	No detection
1649	No detection
1650	No detection
1651	No detection
1652	No detection
1653	No detection
1655	No detection
1656	No detection
1657	No detection
1658	No detection
1659	No detection
1660	No detection
1661	No detection
1662	No detection
1663	No detection
1664	No detection
1665	No detection
1666	No detection
1667	No detection
1669	No detection
1671	No detection
1672	No detection
1673	No detection
1674	No detection
1675	No detection
1676	No detection
1677	No detection
1682	No detection
1684	No detection
1685	No detection
1687	No detection
1688	No detection
1689	No detection
1690	No detection
1691	No detection
1692	No detection
1693	No detection
1695	No detection
1696	No detection
1697	No detection
1698	No detection
1701	No detection
1703	No detection
1706	No detection
1708	No detection
1709	No detection
1710	No detection
1711	No detection
1712	No detection
1713	No detection
1714	No detection
1716	No detection

1717	No detection
1718	No detection
1719	No detection
1720	No detection
1721	No detection
1732	No detection
1733	No detection
1734	No detection
1735 -B	No detection
1736	No detection
1737	No detection
1738	No detection
1739	No detection
1740	No detection
1741	No detection
1742	No detection
1751 -A	No detection
1751 -B	No detection
1752	No detection
1753	No detection
1755	No detection
1757	No recent data
1759	No detection
1760	No detection
1761	No detection
1762	No detection
1764	No detection
1765	No detection
1766	No detection
1778	No detection
1779	No detection
1780	No detection
1781	No detection
1783	No detection
1784	No detection
1785	No recent data
1786	No detection
1789	No detection
1790	No detection
1791	No detection
1792	No detection
1793	No detection
1807	No detection
1808	No detection
1810	No detection
1811	No detection
1812	No detection
1813	No detection
1822 -B	No detection
1822 -A	No detection
1839	No detection
1842	No detection
1866	No detection
1867	No detection
1869	No detection
1870	No detection
1918	No detection
1930	No detection
1946	No detection
1947	No detection
1948	No detection
1949	No detection
1989	No detection
1992	No detection
2002	No detection
2003	No detection
2008	No detection
2030	No detection
2031	No detection
2032	No detection
2040	No detection
2041	Intermittent detection
2042	No detection
2043	No recent data
2044	No detection
2077	No detection
2104	No recent data
2105	No recent data
2107	No detection
2109	No detection
2123	No detection
2171	No detection
2207	No detection
2208	No detection
2222	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.