

REPORT AND NOTIFICATION OF SPILLS AND ACCIDENTAL DISCHARGES TO THE OHIO RIVER AND TRIBUTARIES



March 2025

**Ohio River Valley Water Sanitation Commission
5735 Kellogg Avenue
Cincinnati, OH 45230
(513) 231-7719
www.orsanco.org**

**ORSANCO Emergency Contacts
24 hr Spill Duty Line: (513) 317-8261
Lila Ziolkowski, Manager of Emergency Response**

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REPORT AND NOTIFICATION OF SPILLS AND ACCIDENTAL DISCHARGES TO THE OHIO RIVER AND TRIBUTARIES

PRIVATE CITIZENS:

IF YOU SEE A SPILL, PLEASE REPORT IT TO ONE OF THE FOLLOWING:

1. The appropriate agency of the state in which the spill occurred
2. The **NATIONAL RESPONSE CENTER (800) 424-8802** (24-hour, toll free)

**TO THE EXTENT POSSIBLE, THE NOTIFICATION SHOULD CONSIST OF THE
FOLLOWING INFORMATION:**

- Date and time of spill event
- Location of spill event
- Proximity to drinking water intake
- Types and quantities of materials spilled
- Velocity of river, relation to spill location and drinking water utility intake
- Contact information for responsible party
- Action taken to stop the occurrence
- Containment and cleanup underway

To minimize the adverse effect that spills and accidental discharges may have on users of water within its jurisdiction, the Ohio River Valley Water Sanitation Commission (ORSANCO) has established the following procedures for assisting in the dissemination of information on spill incidents to water users and control agencies:

IF THE STATE OR FEDERAL AGENCY IS NOTIFIED FIRST:

They shall notify the Commission when a spill or accidental discharge occurs which may affect the water quality of an adjoining or downstream state within the Commission's jurisdiction.

IF THE COMMISSION IS NOTIFIED FIRST, THE COMMISSION WILL:

- Notify the appropriate state agencies
- Notify the appropriate federal agencies
- Notify adjacent and downstream state agencies
- Notify downstream water users

Reporting to the Commission shall not relieve any municipality, corporation, person, or other entity from responsibility for complying with federal, regional, state, or local statutes.

IN ADDITION, THE COMMISSION CAN PROVIDE:

- Estimates of in-stream concentrations
- Information on time of travel
- Information on river flow and velocity
- List of municipal water users along the Ohio River to agency personnel only

ORSANCO STAFF IS AVAILABLE TO RECEIVE AND DISTRIBUTE SPILL INFORMATION 24/7

- Business hours: (513) 231-7719
- After business hours: (513) 317-8261

REPORTING TO THE COMMISSION SHALL NOT RELIEVE ANY MUNICIPALITY, CORPORATION, PERSON, OR OTHER ENTITY FROM RESPONSIBILITY FOR COMPLYING WITH ANY FEDERAL, REGIONAL, STATE, OR LOCAL STATUTES, ORDINANCES OR REGULATIONS WHICH MAY BE APPLICABLE.

Spill Notification - State Agencies

The appropriate state agency must be notified of the spill or accidental discharge within its boundaries.

State

Phone

Pennsylvania

Department of Environmental Protection,

800-541-2050 (24-hr./Emergency)

Emergency Response

400 Market St., Harrisburg, PA 17101

West Virginia

West Virginia Emergency Management Division 800-642-3074 (DEP Spills Hotline)

1700 MAcCorkle Ave SE, Charleston, WV 25314

Department of Environmental Protection

(304)926-0499 (non-emergency; office)

601 57th St., Charleston, WV 25304

Office of Environmental Health Services

(304) 558-2981 (business hours)

Bureau for Public Health

(304)558-1035 (fax)

350 Capitol St, Room 313, Charleston, WV 25301

Ohio

Environmental Protection Agency,

800-282-9378 (24-hr. Spill Hotline)

Emergency Response Center

(614)224-0946 (alternate hotline number)

50 W. Town St. Ste. 700, Columbus, OH 43215

(614) 644-3194 (Non-emergency number for
Emergency Response program)

Spill Notification - State Agencies

State

Phone

Kentucky

Emergency Response Branch/Emergency

800-928-2380 (24 hr.)

Management

800-255-2587 (24 hr.)

100 Minuteman Parkway, Frankfort, KY 40601

(502) 564-2380 (24 hr.)

Fax: (502) 607-1614

Indiana

Department of Environmental Management,

888-233-7745 (24 hr. Spill Hotline)

Emergency Response

(317) 233-7745 (24 hr. local)

100 N. Senate, Indianapolis, IN 46204

Fax: (317) 308-3063

Illinois

Emergency Management Agency

(217) 782-7860

Office of Homeland Security

800-782-7860 (24 hr)

2200 S. Dirksen Pkwy., Springfield, IL 62703

Fax: (217) 782-7774

New York

Department of Environmental Conservation

800-457-7362 (24-hr.Spill Hotline)

625 Broadway, Albany, NY 12233

1-518-457-7362 (out of state)

Virginia

Dept. of Emergency Mgmt. Operations Center

800-468-8892 (24-hr.)

7700 Midlothian Turnpike

(804) 674-2400 (24-hr.)

Richmond, VA 23236

(804)267-7600 (office)

Spill Notification – Federal Agencies

National Response Center

The National Response Center (NRC) is the sole federal point of contact for reporting oil and chemical spills. The NRC must be notified of all spills.

(800) 424-8802 (24-hr.)

U.S. Environmental Protection Agency

Although not required, the appropriate regional office of the U.S. Environmental Protection Agency may also be notified. For the member states of the Commission:

For Spills In:

New York

Pennsylvania

Virginia

West Virginia

Kentucky

Illinois

Indiana

Ohio

Call:

U.S. EPA Region II

Spill Response Hotline

(800) 424-8802 (NRC)

U.S. EPA Region III

Philadelphia, PA

(215) 814-3255 (24-hr. OSC)

(215) 814-9016 (24-hr.)

U.S. EPA Region IV

Atlanta, GA

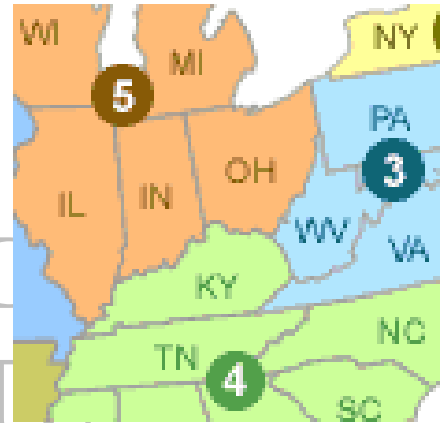
(404) 562-8700 (24-hr.)

U.S. EPA Region V

Chicago, IL

(312) 353-2318 (24-hr. OSC)

(800) 621-8431 (24 hr.)



Regional Response Teams

Each Regional Response Team (RRT) maintains a Regional Contingency Plan (RCP) and has state, as well as federal government, representation. EPA and the Coast Guard co-chair the RRTs. The standing RRTs are planning, policy and coordinating bodies and do not respond directly to the scene. The RRT provides assistance as requested by the On-Scene Coordinator during an incident.

Region 3 RRT: www.nrt.org/RRT3

Region 4 RRT: www.rrt4.nrt.org

Region 5 RRT: www.rrt5.org

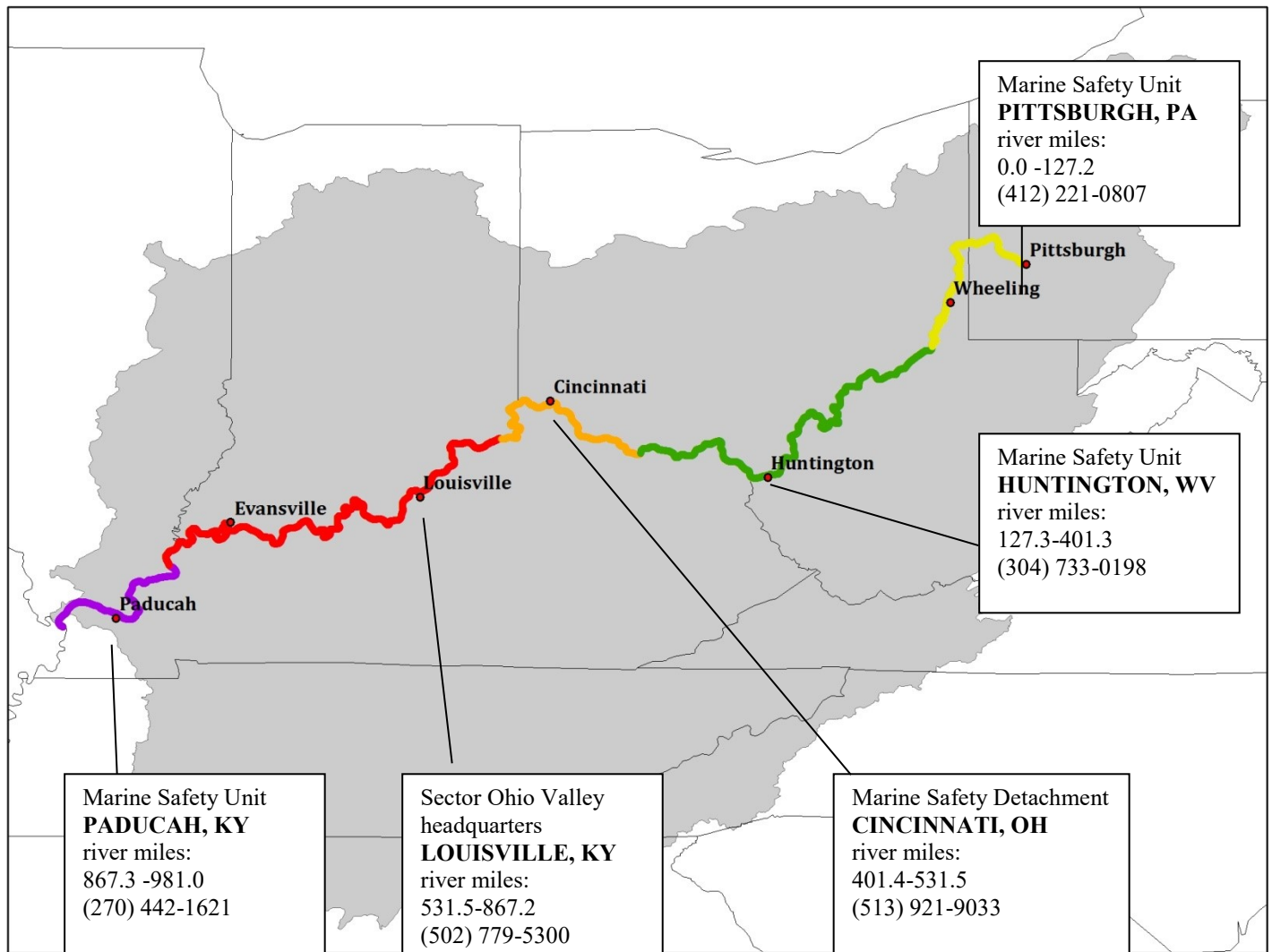
Spill Notification – Federal Agencies

U.S. Coast Guard

The U.S. Coast Guard responds to spills on commercially navigable waterways. U.S. Coast Guard Sector Ohio Valley maintains a 24 hour/365 day a year communications watch. A constant listening guard is kept on marine VHF-FM channel 16 (156.8 Mhz), unless conducting Marine Information Broadcasts or working traffic on another channel.

For commercial vessel and recreational boating accidents, contact:

Sector Ohio Valley	(800) 253-7465 (24-hour emergency)	(502) 779-5400 (primary)
Sector Ohio Valley	(502) 779-5323 (waterways management)	(502) 558-4584 (response)



Spill Notification – Federal Agencies

U.S. Army Corps of Engineers

The appropriate district office of the U.S. Army Corps of Engineers should be notified of spills occurring near navigational locks and dams, flood control reservoirs and bridges.

District/Contacts

Office Number

Great Lakes & Ohio River Division

On call staff	Emergency Operations	(513) 684-3085 (office hours)
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Pittsburgh District: river miles 0.0-127.2

On call staff	Emergency Response	(412) 395-7150
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Huntington District: river miles 127.2-438.0

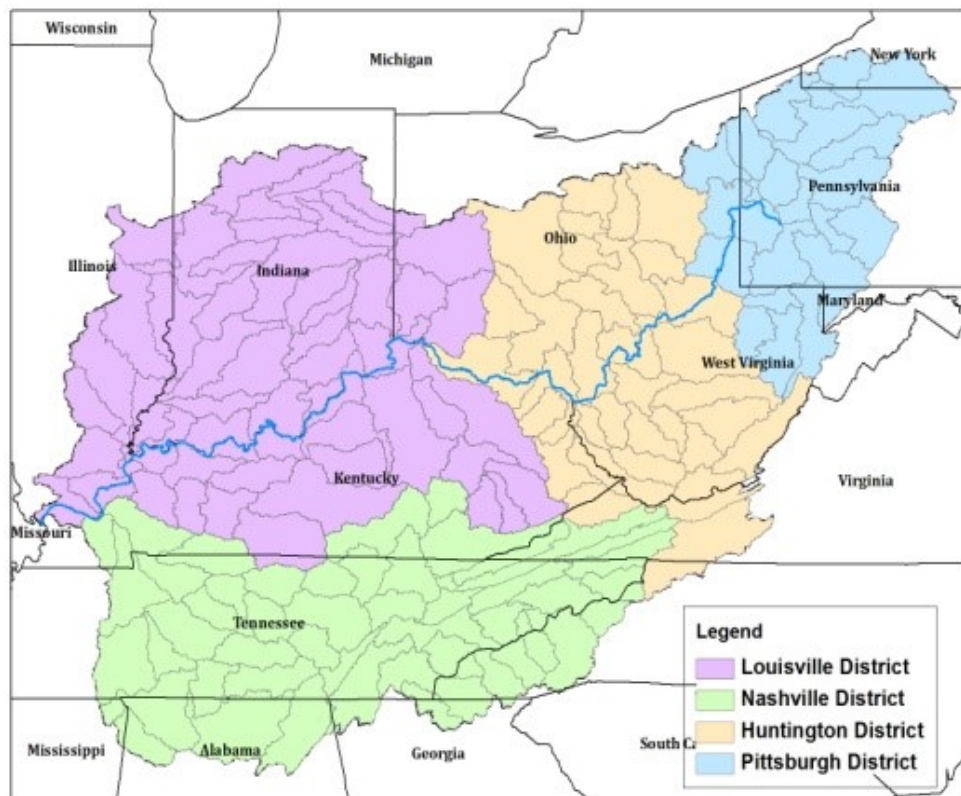
On call staff	Emergency Response	(304) 399-5284
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Louisville District: river miles 438.0-981.0

On call staff	Emergency Response	(502) 315-6911
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Nashville District: Cumberland & Tennessee Rivers

On call staff	Emergency Response	(615) 736-7037
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Ohio River Water Intakes

Water Company	City, State, Zip Code	County		Plant Phone
West View Water Authority	Pittsburgh, PA 15225	Allegheny	Plant:	(412) 331-4723 24 hr
Municipal Authority of the Township of Robinson	Coraopolis, PA 15108	Allegheny	Plant:	(412) 287-2162 24 hr
Moon Township Municipal Authority	Moon Twp., PA 15108	Allegheny	Plant:	(412) 264-0564 24 hr
West View Water Authority - Baden	Baden, PA 15005	Beaver	Plant:	(412) 939-2226 24 hr
Center Township Water Authority	Aliquippa, PA 15001	Beaver	Plant:	(724) 774-7766
Styropek BVPV Styronics, LLC	Monaca, PA 15061	Beaver	Plant:	(724) 774-1000 24 hr
Municipal Authority of the Borough of Midland	Midland, PA 15059	Beaver	Plant:	(724) 643-4920
East Liverpool Water Treatment Plant	East Liverpool, OH 43920	Columbiana	Plant:	(330) 385-8812 24 hr
Chester City Municipal Water	Chester, WV 26034	Hancock	Plant:	(304)387-0772
Buckeye Water District	Wellsville, OH 43968	Columbiana	Plant:	(330) 532- 2959
City of Toronto Water Dept.	Toronto, OH 43964	Jefferson	Plant:	(740) 537-2591 24 hr
Cleveland-Cliffs Weirton	Weirton, WV 26062	Hancock	Plant:	(304) 797-4795 24 hr
Weirton Area Water Board	Weirton, WV 26062	Brooke	Plant:	(304) 797-8566 24 hr
City of Steubenville Filtration Plant	Steubenville, OH 43952	Jefferson	Plant:	(740) 283-6041 24 hr

Ohio River Water Intakes

Water Company	City, State, Zip Code	County	Plant Phone
Follansbee-Hooverson Heights Water Treatment Plant	Follansbee, WV 26037	Brooke	Plant: (304) 527-3670 (6a-6p)
Wheeling Water Treatment	Wheeling, WV 26003	Ohio	Plant: (304) 234-3835 24 hr
Village of Bellaire PWS	Bellaire, Ohio 43906	Belmont	Plant: (740) 676-2664 (6am-10pm)
New Martinsville Plant Covestro, LLC	Proctor, WV 26055	Marshall	Plant: (304) 455-4400 24 hr
Sistersville Water Dept.	Sistersville, WV 26175	Tyler	Plant: (304) 652-2721
Parkersburg Water Treatment Plant	Parkersburg WV 26101	Wood	Plant: (304) 424-8532 24 hr
WV-American Water (Huntington)	Huntington, WV 25703	Cabell	Plant: (304) 525-8193
City of Ashland WTP	Ashland, KY 41101	Boyd	Plant: (606) 385-3200
Ironton WTP	Ironton, OH 45638	Lawrence	Plant: (740) 532-3412 business hours
Russell Water Works	Russell, KY 41169	Greenup	Plant: (606) 836-6644 24 hr
City of Portsmouth WTP	Portsmouth, OH 45662	Scioto	Plant: (740) 456-4946 24hr
Adams County Regional Water	Manchester, OH 45144	Adams	Plant: (937) 549-2339 24 hr
Maysville Water Utility Commission/WTP	Maysville, KY 41056	Mason	Plant: (606) 564-2513 18 hr.
Cincinnati Water Works Richard Miller TP	Cincinnati, OH 45230	Hamilton	Plant: (513) 624-5812 24 hr

Ohio River Water Intakes

Water Company	City, State, Zip Code	County	Plant Phone
N. Kentucky Water District PS #1 (Ft. Thomas TP)	Ft. Thomas, KY 41075	Campbell	Plant: (859) 441-0482 24 hr
N. Kentucky Water District PS #2 (Memorial Pkwy. TP)	Ft. Thomas, KY 41075	Campbell	Plant: (859) 441-0763
Louisville Water Co.	Louisville, KY 40206	Jefferson	Plant: (502) 569-3614 24 hr
Evansville Water Plant	Evansville, IN 47713	Vanderburgh	Plant: (812) 428-0568 24 hr
Henderson Water Utility	Henderson, KY 42420	Henderson	Plant: (270) 826-2421 24 hr
Mt. Vernon Water Works	Mt. Vernon, IN 47620	Posey	Plant: (812) 838-3726 24 hr
City of Morganfield WTP	Morganfield, KY 42437	Union	Plant: (270) 389-1695 24 hr
Sturgis Water Works	Sturgis, KY 42459	Union	Plant: (270)333-4453
Paducah Water	Paducah, KY 42001	McCracken	Plant: (270) 444-5573 24 hr
Department of Energy	Kevil, KY 42053	McCracken	Plant: (270) 441-6211 24 hr
Illinois American Water Co. (Cairo)	Cairo, IL 62963	Alexander	Plant: (618) 734-3776 24 hr

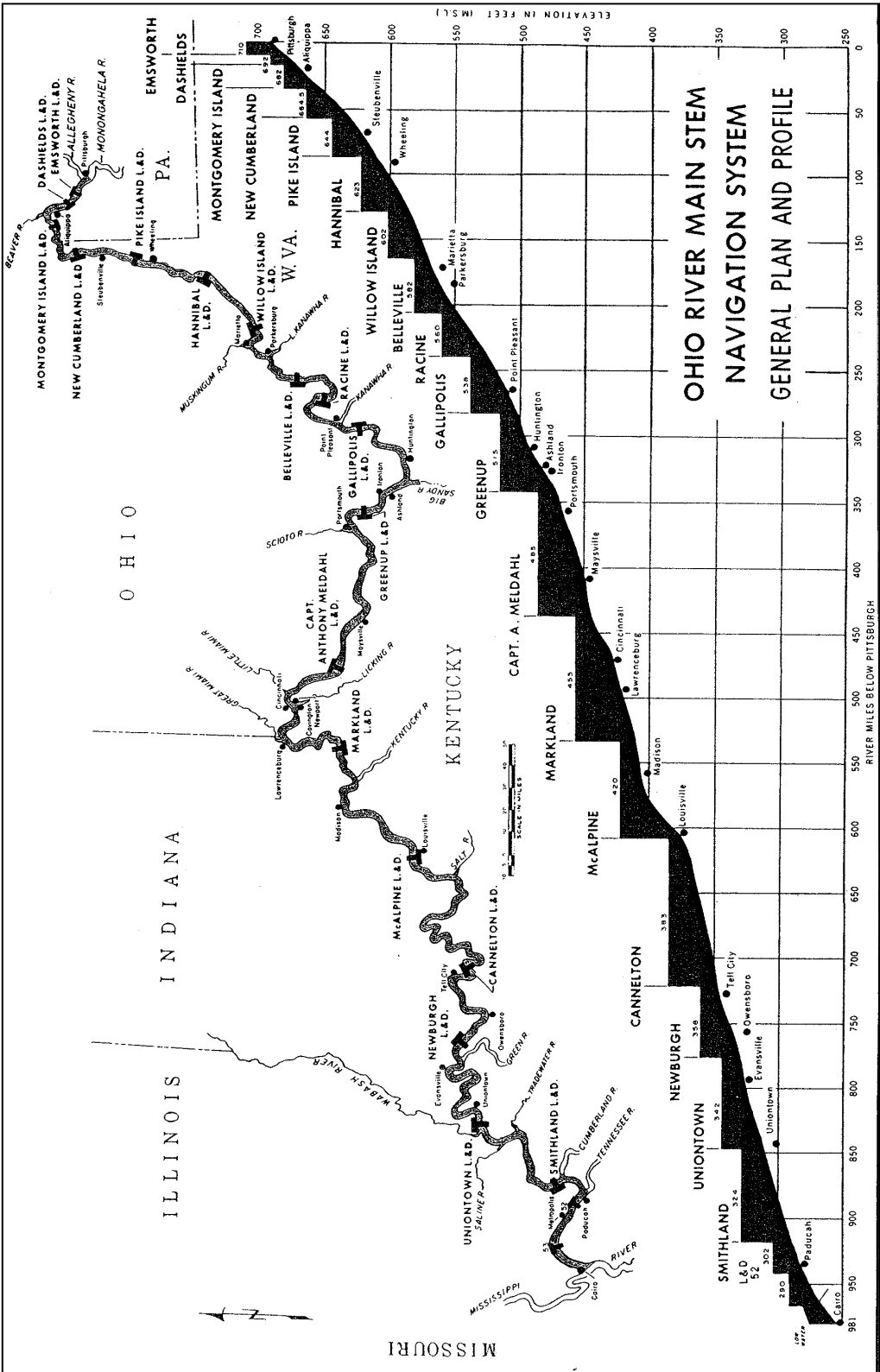
Tributary Water Intakes

Water Company	Plant Address	County	Plant Phone
<u>Allegheny River:</u> Pittsburgh Water & Sewer Authority	Pittsburgh, PA 15238	Allegheny	Plant: (412) 782-7552
<u>Monongahela River:</u> Pennsylvania American Water (Hays Mine Plant)	Pittsburgh, PA 15210	Allegheny	Plant: (412) 884-5107 24 hr
<u>Monongahela River:</u> Pennsylvania American Water (Aldrich Treatment Plant)	Elrama, PA 15038	Washington	Plant: (412)813-3015
<u>Beaver River:</u> Beaver Falls Municipal Authority (Eastvale Water Treatment Plant)	Beaver Falls, PA 15010	Beaver	Plant: (724) 846-1020 24 hr
<u>Beaver River:</u> Pennsylvania American Water (Ellwood Plant)	Ellwood City, PA 16117	Beaver	Plant: (724)758-3382
<u>Elk River:</u> WV American Water (Kanawha Valley WTP)	Charleston, WV 25301	Kanawha	Plant: (304) 347-1540 24 hr
<u>Big Sandy River:</u> Kenova Water Treatment Plant	Kenova, WV 25530	Wayne	Plant: (304) 453-2205
<u>Licking River:</u> Northern Kentucky Water District	Taylor Mill, KY 41015	Kenton	Plant: (859) 655-6561

Ohio River Drinking Water Intake Data

Mile Point	State	Intake	Pumping Rate (MGD)	Intake Depth (feet)	Population Served	Pumping Schedule
5.0	PA	West View*	20.0	15	200,000	-
8.6	PA	Robinson Township±	2.3	15	4,900	-
11.7	PA	Moon Township±	-	-	27,000	-
20.0	PA	West View – Baden*	-	-	-	-
27.4	PA	Center Township±	-	-	13,200	-
29.0	PA	Styropek*	-	-	-	-
36.0	PA	Midland±	1	12	1,100	-
40.2	OH	East Liverpool±	1	15	1,100	8a-2p, 24/7
47.1	OH	Buckeye±	3.0	-	4,700	24/7, 365
59.2	OH	Toronto±	0.3	19	5,676	24/7, 365
61.7	WV	Cleveland-Cliffs±	-	-	900	24/7, 365
65.2	WV	Weirton±	3.2	24	22,700	24/7, 365
65.3	OH	Steubenville±	6.5	18	17,000	-
70.8	WV	Follansbee*	-	-	4,970	-
86.8	WV	Wheeling±	6	7	29,899	24/7, 365
93.9	OH	Bellaire±	7.5	-	4,278	24/7, 365
121.9	WV	Covestro LLC*	-	-	-	-
137.2	WV	Sistersville±	0.2	8	1,892	-
182.5	WV	Parkersburg (gws) ±	-	3.5-3.8	34,251	24/7, 365
304.0	WV	Huntington±	13.0	17-21	97,242	-
306.0	WV	Huntington *	-	17.5	-	-
319.7	KY	Ashland±	8.5	23	44,402	-
327.0	OH	Ironton±	2.0	18	11,129	-
327.6	KY	Russell±	1.5-2.0	8, 15	11,500	24/7, 365
350.8	OH	Portsmouth±	7.0	18	40,475	-
392.3	OH	Adams County (gws) ±	-	-	19,200	-
407.8	KY	Maysville±	1.3	12	6,540	-
462.8	OH	Cincinnati ±	120	8-16	950,000	24/7, 365
462.9	KY	NKY (Ft. Thomas) ±	24.0	30	199,000	-
463.5	KY	NKY (Memorial Pkwy)*	12.0	22	18,000	-
594.0	KY	Louisville±	115.0	20	1,000,000	-
600.0	KY	Louisville±	-	10-30	-	-
791.5	IN	Evansville±	24	8-9	200,000	24/7, 365
803.5	KY	Henderson±	6.6	30	31,000	-
829.3	IN	Mt. Vernon*	2.0	35	17,800	-
842.5	KY	Morganfield±	1.4	50	13,536	24/7, 365
871.4	KY	Sturgis± (inoperable as of 2023)	0.3	18	3,490	-
935.5	KY	Paducah±	6.6	15	64,013	-
945.9	KY	DOE	-	-	-	-
978.0	IL	Cairo	-	26	2,925	-

Ohio River Main Stem Navigation System



Ohio River Locks and Dams

Pittsburgh District	Address	Phone/Fax	Hydro Gen. facility
Emsworth Locks & Dam River Mile 6.2	0 Western Avenue Pittsburgh, PA 15202	L&D: (412) 766-6213 Off. Fax: (412) 766-2334	No
Dashields Locks & Dam River Mile 13.3	100 Dashield Lock Road Coraopolis, PA 15108	Office: (724) 457-2254 L&D: (724) 457-8430	No
Montgomery Locks & Dam River Mile 31.7	100 Montgomery Dam Road Monaca, PA 15061	Office: (724) 643-8400 Fax: (724) 643-8081	No
New Cumberland Locks & Dam River Mile 54.4	29501 SR 7 P.O. Box 159 Stratton, OH 43961-0159	L&D: (740) 537-2571 Fax: (740) 537-5205	No
Pike Island Locks & Dam River Mile 84.2	3709 Warwood Ave. Wheeling, WV 26003	L&D: (304) 277-2240 Fax: (304) 277-4566	No
Hannibal Locks & Dam River Mile 126.4	State Route 7, Hannibal, OH 43931	L&D: (740) 483-2305 Fax: (740) 483-1325	Yes
Huntington District	Address	Phone/Fax	Hydro Gen. facility
Willow Island Locks & Dam River Mile 161.7	32400 State Route 7 Newport, OH 45768	L&D: (740) 374-8710 Fax: (740) 373-6300	Yes
Belleville Locks & Dam River Mile 203.9	54485 Township Rd. 1027 Reedsville, OH 45772	L&D: (304) 863-6331 L&D: (740) 378-6110 Fax: (740) 378-6263	Yes
Racine Locks & Dam River Mile 237.5	9909 Graham Station Rd. Letart, WV 25253	L&D: (304) 882-2118 Fax: (304) 882-2402	Yes
Robert C. Byrd Locks & Dam River Mile 279.2	1300 Robert C. Byrd Dr. Gallipolis Ferry, WV 25515	L&D: (304) 857-3100 Fax: (304) 576-2996	No
Greenup Locks & Dam River Mile 341.0	600 Corp St. Greenup, KY 41144	L&D: (740) 574-5883 L&D: (606) 473-7441 Fax: (606) 473-6066	Yes
Capt. Anthony Meldahl Locks River Mile 436.2	2443 US Route 52 Felicity, OH 45120-9717	L&D: (513) 876-2921 Office: (513) 876-1313 Fax: (513) 876-3225	Yes

Louisville District	Address	Phone/Fax	Hydro Generatin g facility
Markland Locks & Dam River Mile 531.5	2760 US 42 W Warsaw, KY 41095-9802	L&D (859) 567-7661 Fax (859) 567-2716	Yes
McAlpine Locks & Dam River Mile 606.8	805 North 27 th St. Louisville, KY 40212-1099	L&D (502) 774-3514 Fax (502) 776-6866	No
Cannelton Locks & Dam River Mile 720.7	5821 East State Road 66 Cannelton, IN 47520	L&D (812) 547-2962 Fax (812) 547-8229	No
Newburgh Locks & Dam River Mile 776.1	6877 State Road 66 Newburgh, IN 47630	L&D (812) 853-8470 Fax (812) 853-2335	No
John T. Myers Locks & Dam River Mile 846.0	16501 Raben Road South Mt. Vernon, IN 47620-9361	L&D (812) 838-5836 Fax (812) 838-6911	No
Smithland Locks & Dam River Mile 918.5	1401 Smithland Dam Rd. Brookport, IL 62910	L&D (618) 564-2315 Fax (618) 564-2922	Yes
Olmsted Locks and Dam River Mile 964.6	567 New Dam Road Olmsted, IL 62970	Office: (618)748-6403 Lockmaster (618)748-6423	No

Allegheny River Lock and Dam*

Pittsburgh District	Address	Phone/Fax
Lock & Dam 2 River Mile 6.7	7451 Lockway West Pittsburgh, PA 15206-1104	L&D (412) 661-2217 Fax (412) 661-7894

Monongahela River Lock and Dam*

Pittsburgh District	Address	Phone/Fax
Braddock Lock & Dam 2 River Mile 11.2	11 th Street Braddock, PA 15104-1704	L&D (412) 271-1272 Fax (412) 271-2684

Kanawha River Lock and Dam*

Huntington District	Address	Phone/Fax
Winfield Locks & Dam River Mile 31.1	170 Lock Rd. Red House, WV 25168	L&D (304) 586-2501 Fax (304) 586-3445

* Tributary lock and dam closest to confluence with Ohio River Main Stem.

River Mile Points of Counties Bordering the Ohio River

PENNSYLVANIA		OHIO	
Allegheny	0.0 – 15.4	Columbiana	40.2 – 49.8
Beaver	15.4 – 40.2	Jefferson	49.8 – 83.8
		Belmont	83.8 – 110.9
		Monroe	110.9 – 140.5
WEST VIRGINIA		Washington	140.5 – 196.4
Hancock	40.2 – 65.6	Athens	196.4 – 199.6
Brooke	65.6 – 81.5	Meigs	199.6 – 256.7
Ohio	81.5 – 93.0	Gallia	256.7 – 291.9
Marshall	93.0 – 121.6	Lawrence	291.9 – 334.8
Wetzel	121.6 – 135.5	Scioto	334.8 – 374.7
Tyler	135.5 – 147.8	Adams	374.7 – 405.5
Pleasants	147.8 – 164.9	Brown	405.5 – 429.5
Wood	164.9 – 205.7	Clermont	429.5 – 455.2
Jackson	205.7 – 234.1	Hamilton	455.2 – 491.4
Mason	234.1 – 287.2		
Cabell	287.2 – 311.9	INDIANA	
Wayne	311.9 – 317.1	Dearborn	491.4 – 498.8
KENTUCKY		Ohio	498.8 – 509.9
Boyd	317.1 – 324.8	Switzerland	509.9 – 546.4
Greenup	324.8 – 357.5	Jefferson	546.4 – 571.7
Lewis	357.5 – 401.5	Clark	571.7 – 606.8
Mason	401.5 – 421.0	Floyd	606.8 – 617.0
Bracken	421.0 – 440.3	Harrison	617.0 – 662.9
Pendleton	440.3 – 443.7	Crawford	662.9 – 681.4
Campbell	443.7 – 470.2	Perry	681.4 – 731.4
Kenton	470.2 – 477.5	Spencer	731.4 – 768.8
Boone	477.5 – 516.6	Warrick	768.8 – 780.5
Gallatin	516.6 – 535.0	Vanderburg	780.5 – 816.0
Carroll	535.0 – 553.3	Posey	816.0 – 848.0
Trimble	553.3 – 576.2		
Oldham	576.2 – 592.9	ILLINOIS	
Jefferson	592.9 – 629.9	Gallatin	848.0 – 867.4
Hardin	629.9 – 633.8	Hardin	867.4 – 896.7
Meade	633.8 – 689.5	Pope	896.7 – 928.3
Breckenridge	689.5 – 712.4	Massac	928.3 – 956.0
Hancock	712.4 – 742.1	Pulaski	956.0 – 974.8
Daviess	742.1 – 771.6	Alexander	974.8 – 981.0
Henderson*	771.6 – 832.0		
Union	832.0 – 873.5		
Crittenden	873.5 – 893.0		
Livingston	893.0 – 934.6		
McCracken	934.6 – 956.0		
Ballard	956.0 – 981.3		

*Henderson County, KY also includes land on the right descending bank from mile point 784.6 to mile point 791.4 and from mile point 800.3 to mile point 802.8.

Ohio River Tributaries

MILE	STREAM NAME	STATE	COUNTY
0.1	ALLEGHENY RIVER	PA	ALLEGHENY
0.1	MONONGAHELA RIVER	PA	ALLEGHENY
2.1	CHARTIERS CREEK	PA	ALLEGHENY
9.5	MONTOUR RUN	PA	ALLEGHENY
13.7	LITTLE SEWICKLEY CR.	PA	ALLEGHENY
15.5	BIG SEWICKLEY CREEK	PA	ALLEGHENY
25.4	BEAVER RIVER	PA	BEAVER
29.6	RACCOON CREEK	PA	BEAVER
40.1	LITTLE BEAVER CREEK	PA	BEAVER
47.3	LITTLE YELLOW CREEK	OH	COLUMBIANA
47.6	CONGO RUN	WV	HANCOCK
50.6	YELLOW CREEK	OH	JEFFERSON
60.1	KINGS CREEK	WV	HANCOCK
61.7	ISLAND RUN	OH	JEFFERSON
65.3	WILLS CREEK	OH	JEFFERSON
66.5	HARMAN CREEK	WV	BROOKE
71.6	CROSS CREEK	OH-WV	JEFFERSON-BROOKE
75.2	BUFFALO CREEK	WV	BROOKE
81.4	SHORT CREEK	OH-WV	JEFFERSON-BROOKE
90.2	WHEELING CREEK	WV	OHIO
94.9	MCMAHON CREEK	OH	BELMONT
101.6	LITTLE GRAVE CREEK	WV	MARSHALL
102.4	BIG GRAVE CREEK	WV	MARSHALL
105.0	PIPE CREEK	OH	BELMONT
109.5	CAPTINA CREEK	OH	BELMONT
113.7	FISH CREEK	WV	MARSHALL
117.5	SUNFISH CREEK	OH	MONROE
119.8	OPOSSUM CREEK	OH	MONROE
122.2	PROCTOR CREEK	WV	WETZEL
128.6	FISHING CREEK	WV	WETZEL
137.7	MILLER RUN	OH	MONROE
141.3	MILL CREEK	OH	WASHINGTON
148.8	BENS RUN	WV	PLEASANTS

MILE	STREAM NAME	STATE	COUNTY
149.0	SHEETS RUN	OH	WASHINGTON
150.0	LEITHS RUN	OH	WASHINGTON
150.2	SPRING RUN	WV	PLEASANTS
151.0	REAS RUN	OH	WASHINGTON
154.0	MIDDLE ISLAND CREEK	WV	PLEASANTS
156.9	DENAS RUN	OH	WASHINGTON
157.7	FRENCH RUN	WV	PLEASANTS
168.6	LITTLE MUSKINGUM RIVER	OH	WASHINGTON
170.2	DUCK CREEK	OH	WASHINGTON
172.2	MUSKINGUM RIVER	OH	WASHINGTON
174.3	WILLIAMS CREEK	WV	WOOD
184.8	LITTLE KANAWHA RIVER	WV	WOOD
188.7	DAVIS RUN	OH	WASHINGTON
192.0	LITTLE HOCKING RIVER	OH	WASHINGTON
192.5	SAWER RUN	OH	WASHINGTON
194.0	LITTLE SAND CREEK	WV	WOOD
199.3	HOCKING RIVER	OH	ATHENS
200.4	INDIAN RUN	OH	MEIGS
201.8	LEE CREEK	WV	WOOD
203.4	ROCK RUN	OH	MEIGS
210.2	SHADE RIVER	OH	MEIGS
217.0	LITTLE SANDY CREEK	WV	JACKSON
218.6	GROUNDHOG CREEK	OH	MEIGS
220.9	SANDY CREEK	WV	JACKSON
223.4	CEDAR RUN	WV	JACKSON
226.2	OLD TOWN CREEK	OH	MEIGS
227.8	TANNERS RUN	OH	MEIGS
231.4	MILL CREEK	WV	JACKSON
231.5	LITTLE MILL CREEK	WV	JACKSON
232.3	JOHNS RUN	OH	MEIGS
234.9	TOMBLESON RUN	WV	MASON
235.8	SPRING RUN	WV	MASON
236.7	VIVIAN RUN	WV	MASON

Ohio River Tributaries (cont.)

MILE	STREAM NAME	STATE	COUNTY
240.6	WEST CREEK	WV	MASON
241.0	DUNHAM RUN	OH	MEIGS
245.0	BROAD CREEK	WV	MASON
247.1	SLIDING HILL CREEK	WV	MASON
253.7	LEADING CREEK	OH	MEIGS
255.0	STORES RUN	OH	MEIGS
255.9	TEN MILE CREEK	WV	MASON
258.7	MILL CREEK	WV	MASON
260.6	KYGER CREEK	OH	GALLIA
262.5	CAMPAIGN CREEK	OH	GALLIA
263.2	OLD TOWN CREEK	WV	MASON
264.2	GEORGES CREEK	OH	GALLIA
265.5	KANAWHA RIVER	WV	MASON
267.3	TWO MILE CREEK	WV	MASON
270.0	CHICKAMAUGA CREEK	OH	GALLIA
276.0	CRAB CREEK	WV	MASON
276.1	RACCOON CREEK	OH	GALLIA
277.4	BURRELS RUN	OH	GALLIA
279.0	TEENS RUN	OH	GALLIA
282.3	SIXTEEN MILE CREEK	WV	MASON
284.3	EIGHTEEN MILE CREEK	WV	MASON
287.4	LITTLE GUYANDOT RIVER	WV	MASON-CABELL
296.7	TWO MILE CREEK	OH	LAWRENCE
299.0	NINE MILE CREEK	WV	CABELL
303.9	PADDYS CREEK	OH	LAWRENCE
305.2	GUYANDOTTE RIVER	WV	CABELL
306.9	INDIAN GUYAN CREEK	OH	LAWRENCE
309.7	SYMMES CREEK	OH	LAWRENCE
310.7	BUFFALO CREEK	OH	LAWRENCE
314.0	TWELVEPOLE CREEK	WV	WAYNE
317.1	BIG SANDY RIVER	WV	WAYNE
317.4	CATLETTS CREEK	KY	BOYD
319.4	KEYES CREEK	KY	BOYD
320.1	SALLIDAY CREEK	OH	LAWRENCE
324.0	HOOD CREEK	KY	BOYD

MILE	STREAM NAME	STATE	COUNTY
324.3	ICE CREEK	OH	LAWRENCE
328.1	STORMS CREEK	OH	LAWRENCE
331.1	POND RUN	KY	GREENUP
332.8	UHLANDS RUND	KY	GREENUP
334.6	ROCK BRANCH	KY	GREENUP
336.2	LITTLE SANDY RIVER	KY	GREENUP
337.4	COAL BRANCH	KY	GREENUP
338.6	SMITH BRANCH	KY	GREENUP
338.9	GINAT RUN	OH	SCIOTO
340.8	FRANKLIN RUN	OH	SCIOTO
345.6	PINE CREEK	OH	SCIOTO
349.2	LITTLE SCIOTO RIVER	OH	SCIOTO
353.3	TYGARTS CREEK	KY	GREENUP
356.5	SCIOTO RIVER	OH	SCIOTO
361.5	TURKEY CREEK	OH	SCIOTO
363.2	NACE RUN	OH	SCIOTO
368.1	KINNICONNIC CREEK	KY	LEWIS
373.4	UPPER TWIN CREEK	OH	SCIOTO
373.6	LOWER TWIN CREEK	OH	SCIOTO
378.4	SALT LICK CREEK	KY	LEWIS
388.0	BRUSH CREEK	OH	ADAMS
389.4	SPRING RUN	OH	ADAMS
391.0	LOWER SISTER CREEK	OH	ADAMS
392.3	DONALDSON CREEK	OH	ADAMS
395.3	ISLAND CREEK	OH	ADAMS
398.4	ISAACS CREEK	OH	ADAMS
401.6	CROOKED CREEK	KY	LEWIS
402.3	ELK RUN	OH	ADAMS
403.0	CABIN CREEK	KY	MASON
405.6	LITTLE THREE MILE CREEK	OH	BROWN
406.9	SLEEPY HOLLOW CREEK	KY	MASON
409.0	FISH GUT CREEK	OH	BROWN
412.1	THREE MILE CREEK	OH	BROWN
414.8	LAWRENCE CREEK	KY	MASON
415.7	EAGLE CREEK	OH	BROWN

Ohio River Tributaries (cont.)

MILE	STREAM NAME	STATE	COUNTY
417.1	RED OAK CREEK	OH	BROWN
419.1	LEES CREEK	KY	MASON
422.6	STRAIGHT CREEK	OH	BROWN
423.9	WHITE OAK CREEK	OH	BROWN
424.5	BARTLEYS CREEK	KY	BRACKEN
425.1	HOG RUN	OH	BROWN
426.4	BRACKEN CREEK	KY	BRACKEN
428.6	BIG TURTLE CREEK	KY	BRACKEN
430.5	WRANGLING RUN	KY	BRACKEN
431.6	BULL SKIN CREEK	OH	CLERMONT
431.7	BYERS RUN	KY	BRACKEN
432.5	LITTLE LOCUST CREEK	KY	BRACKEN
432.8	BIG LOCUST CREEK	KY	BRACKEN
433.2	PATTERSONS RUN	OH	CLERMONT
433.6	CROOKED CREEK	OH	CLERMONT
434.4	LITTLE SNAG CREEK	KY	BRACKEN
435.7	BIG SNAG CREEK	KY	BRACKEN
443.8	LITTLE INDIAN CREEK	OH	CLERMONT
445.3	BIG INDIAN CREEK	OH	CLERMONT
451.5	TWELVEMILE CREEK	KY	CAMPBELL
455.1	TEN MILE CREEK	OH	CLERMONT
455.3	NINE MILE CREEK	OH	CLERMONT
456.5	EIGHT MILE CREEK	OH	HAMILTON
464.1	LITTLE MIAMI RIVER	OH	HAMILTON
470.2	LICKING RIVER	KY	KENTON
472.5	MILL CREEK	OH	HAMILTON
484.2	MUDDY CREEK	OH	HAMILTON
491.1	GREAT MIAMI RIVER	OH	HAMILTON
494.8	TANNERS CREEK	IN	DEARBORN
498.7	LAUGHERY CREEK	IN	DEARBORN
499.8	WOOLPER CREEK	KY	BOONE
501.5	ISLAND BRANCH	IN	OHIO
504.6	MIDDLE CREEK	KY	BOONE
508.7	ARNOLD CREEK	IN	OHIO
509.9	GRANT CREEK	IN	OHIO-SWITZERLAND
512.2	LICK CREEK	KY	BOONE

MILE	STREAM NAME	STATE	COUNTY
513.6	GUNPOWDER CREEK	KY	BOONE
514.7	LANDING CREEK	KY	BOONE
517.0	BIG BONE CREEK	KY	BOONE-GALLATIN
518.5	STEELES CREEK	KY	GALLATIN
521.4	PAINT LICK CREEK	KY	GALLATIN
522.7	LITTLE SUGAR CREEK	KY	GALLATIN
522.9	BIG SUGAR CREEK	KY	GALLATIN
527.2	BRYANT CREEK	IN	SWITZERLAND
529.1	TURTLE CREEK	IN	SWITZERLAND
530.3	DAN CREEK	IN	SWITZERLAND
530.3	CRAIGS CREEK	KY	GALLATIN
532.0	STEPHENS CREEK	KY	GALLATIN
535.7	PLUM CREEK	IN	SWITZERLAND
545.8	KENTUCKY RIVER	KY	CARROLL
546.4	GREEN VALLEY CREEK	IN	SWITZERLAND
546.5	LITTLE KENTUCKY RIVER	KY	CARROLL
549.6	LOCUST CREEK	KY	CARROLL
550.5	INDIAN KENTUCK CREEK	IN	JEFFERSON
553.2	BEE CAMP CREEK	IN	JEFFERSON
555.5	EAGLE HOLLOW	IN	JEFFERSON
556.4	MARILYN CREEK	IN	JEFFERSON
559.5	CROOKED CREEK	IN	JEFFERSON
560.3	BIG CLIFTY CREEK	IN	JEFFERSON
563.6	CHAIN MILL CREEK	IN	JEFFERSON
569.5	SALUDA CREEK	IN	JEFFERSON
570.6	CORN CREEK	KY	TRIMBLE
573.2	BAREBONE CREEK	KY	TRIMBLE
514.7	LANDING CREEK	KY	BOONE
574.4	MIDDLE CREEK	KY	TRIMBLE
574.4	KNOB CREEK	IN	CLARK
578.4	CAMP CREEK	IN	CLARK
580.7	EIGHTEEN MILE CREEK	KY	OLDHAM
584.4	BULL CREEK	IN	CLARK
585.6	OWEN CREEK	IN	CLARK
592.8	POND CREEK	KY	OLDHAM
595.9	HARRODS CREEK	KY	JEFFERSON

Ohio River Tributaries (cont.)

MILE	STREAM NAME	STATE	COUNTY
596.9	GOOSE CREEK	KY	JEFFERSON
602.2	SOUTH FORK BEARGRASS CR.	KY	JEFFERSON
606.5	SILVER CREEK	IN	CLARK
613.4	MIDDLE CREEK	IN	CLARK
614.4	UNKNOWN	KY	JEFFERSON
616.3	MILL CREEK CUTOFF	KY	JEFFERSON
617.5	KNOB CREEK	IN	FLOYD
623.5	BRINLEY CREEK	IN	HARRISON
624.4	EVERSOLE CREEK	IN	HARRISON
625.0	MILLS CREEK	KY	JEFFERSON
627.4	UNKNOWN	KY	JEFFERSON
629.2	FOUR MILE CREEK	IN	HARRISON
629.9	SALT RIVER	KY	JEFFERSON
631.1	UNKNOWN	IN	HARRISON
632.0	UNKNOWN	IN	HARRISON
632.7	PREWITTS LAKE	KY	HARDIN
633.3	ABRAHAMS RUN	KY	MEADE
634.6	MOSQUITO CREEK	IN	HARRISON
636.3	OTTER CREEK	KY	MEADE
639.5	UNKNOWN	IN	HARRISON
641.2	BIG RUN	IN	HARRISON
642.2	DOE RUN	KY	MEADE
645.9	FLIPPINS RUN	KY	MEADE
647.3	BUCK CREEK	IN	HARRISON
648.1	LICK RUN	IN	HARRISON
651.5	FRENCH CREEK	KY	MEADE
656.9	NEW AMSTERDAM CITY TRIB.	IN	HARRISON
657.0	INDIAN CREEK	IN	HARRISON
659.9	COLD FRIDAY HOLLOW	KY	MEADE
661.3	POTATO RUN	IN	HARRISON
663.0	BLUE RIVER	IN	CRAWFORD
672.3	CEDAR BRANCH	KY	MEADE
678.6	LITTLE BLUE RIVER	IN	CRAWFORD
684.8	BOONE HALLOW	KY	MEADE

MILE	STREAM NAME	STATE	COUNTY
686.3	WATSON RUN	KY	MEADE
686.5	SPRING CREEK	KY	MEADE
688.3	MILL CREEK	IN	PERRY
692.5	KNOB CREEK	IN	PERRY
698.6	LICK RUN	KY	BRECKINRIDGE
700.9	SINKING CREEK	KY	BRECKINRIDGE
703.1	BEAR CREEK	IN	PERRY
703.9	FANNY CREEK	IN	PERRY
704.3	BUCK CREEK	IN	PERRY
705.3	KINGLEY CREEK	IN	PERRY
705.5	TATES HOLLOW	IN	PERRY
706.3	SAMPLE RUN	IN	PERRY
707.4	ADAMS RUN	IN	PERRY
707.5	TOWN CREEK	KY	BRECKINRIDGE
707.7	BULL CREEK	KY	BRECKINRIDGE
709.0	GOEHAGAN CREEK	KY	BRECKINRIDGE
710.6	SLICK CREEK	KY	BRECKINRIDGE
710.8	CLOVER CREEK	KY	BRECKINRIDGE
712.4	FAUCETT CREEK	KY	BRECKINRIDGE
714.6	POND RUN	IN	PERRY
716.3	SANDY BRANCH	IN	PERRY
717.4	MILLSTONE CREEK	IN	PERRY
718.9	DEER CREEK	IN	PERRY
720.2	BLUE WELLS HOLLOW	IN	PERRY
720.9	UNKNOWN	KY	HANCOCK
721.4	INDIAN CREEK	KY	HANCOCK
724.0	CASSELBURY CREEK	IN	PERRY
724.1	LEAD CREEK	KY	HANCOCK
729.8	WINDY CREEK	IN	PERRY
731.5	ANDERSON RIVER	IN	PERRY
731.7	MUDDY GUT CREEK	KY	HANCOCK
733.1	CROOKED CREEK	IN	SPENCER
736.6	YELLOW CREEK	KY	HANCOCK
740.8	BIG SLOUGH	KY	HANCOCK

Ohio River Tributaries (cont.)

MILE	STREAM NAME	STATE	COUNTY
741.2	UNKNOWN	KY	HANCOCK
741.3	LITTLE SANDY CREEK	IN	SPENCER
742.0	SANDY CREEK	IN	SPENCER
742.2	BLACKFORD CREEK	KY	HANCOCK
744.2	HONEY CREEK	IN	SPENCER
746.8	HUFFMAN DITCH	IN	SPENCER
748.7	UNKNOWN	KY	DAVIES
750.5	PUP CREEK	KY	DAVIES
752.0	YELLOW CREEK	KY	DAVIES
757.7	PERSIMMONS DITCH	KY	DAVIES
763.6	COWHIDE SLOUGH TRIB	KY	DAVIES
765.2	COWHIDE SLOUGH	KY	DAVIES
769.4	FULKERSON DITCH	KY	DAVIES
773.0	LITTLE PIGEON CREEK	IN	WARRICK
774.5	UNKNOWN	IN	WARRICK
776.1	CYPRESS CREEK	IN	WARRICK
784.2	GREEN RIVER	KY	HENDERSON
787.2	WALKER SLOUGH	KY	HENDERSON
792.9	PIGEON CREEK	IN	VANDEBURGH
796.8	BAYOU CREEK	IN	VANDEBURGH
800.7	MOUND SLOUGH	KY	HENDERSON
806.6	CANOE CREEK	KY	HENDERSON
812.3	UNKNOWN	KY	HENDERSON
813.2	LOGSDEN-STROOD BR.	IN	VANDEBURGH
815.0	BAYOU CREEK	IN	VANDEBURGH
817.0	UNKNOWN	IN	POSEY
817.9	UNKNOWN	IN	POSEY
827.7	CYPRESS SLOUGH	KY	HENDERSON
827.8	MCFADDEN CREEK	IN	POSEY
832.4	SMITH CREEK	IN	POSEY
833.6	BEAVERDAMN CREEK	IN	POSEY
840.7	BAYOU DRAIN	IN	POSEY
841.9	HIGHLAND CREEK	KY	UNION
843.0	LOST CREEK	KY	UNION

MILE	STREAM NAME	STATE	COUNTY
846.9	SIBLEY CREEK	KY	UNION
848.0	WABASH RIVER	IL	GALLATIN
850.7	RUNNING SLOUGH	IL	GALLATIN
852.4	UNKNOWN	KY	UNION
853.2	UNKNOWN	KY	UNION
856.5	UNKNOWN	IL	GALLATIN
860.0	UNKNOWN	IL	GALLATIN
867.3	SALINE RIVER	IL	GALLATIN-HARDIN
868.2	CANE CREEK	IL	HARDIN
868.7	DENNIS O'NAN DITCH	KY	UNION
870.8	UNKNOWN	KY	UNION
873.5	TRADEWATER RIVER	KY	UNION
875.9	CAMP CREEK	KY	CRITTENDEN
877.0	CORNSTALK CREEK	KY	CRITTENDEN
877.6	HANEY CREEK	IL	HARDIN
877.7	ANTHONY CREEK	IL	HARDIN
886.1	HURRICANE CREEK	KY	CRITTENDEN
886.4	PETERS CREEK	IL	HARDIN
887.3	FRANKLIN BRANCH	KY	CRITTENDEN
887.6	HOSICK CREEK	IL	HARDIN
889.5	BIG CREEK	IL	HARDIN
892.9	DEER CREEK	KY	CRITTENDEN
893.5	BUCK CREEK	KY	LIVINGSTON
895.1	UNKNOWN	KY	LIVINGSTON
895.8	THREEMILE CREEK	IL	HARDIN
896.2	WALLACE BRANCH	IL	HARDIN
897.8	BIG GRAND PIERRE CREEK	IL	POPE
901.9	GIVENS CREEK	KY	LIVINGSTON
902.3	LUSK CREEK	IL	POPE
903.5	MC GILLIGAN CREEK	KY	LIVINGSTON
908.2	UNKNOWN	IL	POPE
910.1	BIG BAY CREEK	IL	POPE
910.8	BARREN CREEK	IL	POPE
911.7	UNKNOWN	KY	LIVINGSTON

Ohio River Tributaries (cont.)

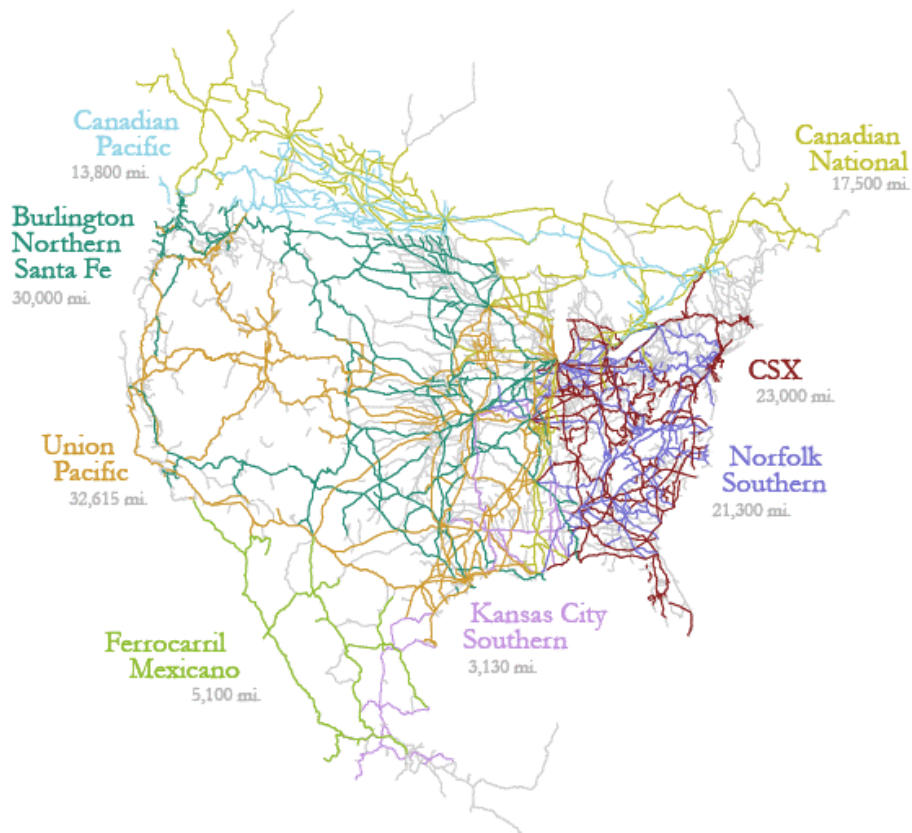
MILE	STREAM NAME	STATE	COUNTY
911.9	BAYOU CREEK	KY	LIVINGSTON
913.7	PHelps CREEK	KY	LIVINGSTON
918.8	DOG CREEK	IL	POPE
919.8	DYER HILL CREEK	KY	LIVINGSTON
920.4	CUMBERLAND RIVER	KY	LIVINGSTON
923.2	DAVIS CREEK	KY	LIVINGSTON
926.0	GOODLOW SLOUGH	KY	LIVINGSTON
927.6	DRAKE BRANCH	IL	POPE
933.3	ISLAND CREEK	KY	McCRACKEN
934.5	TENNESSEE RIVER	KY	McCRACKEN
935.8	BALLARD LAKE	IL	MASSAC
937.3	UNKNOWN	IL	MASSAC
937.9	UNKNOWN	IL	MASSAC
939.4	PERKINS CREEK	KY	McCRACKEN
940.4	SEVENMILE CREEK	IL	MASSAC
941.9	MASSAC CREEK	IL	MASSAC
942.7	MASSAC CREEK	KY	McCRACKEN
947.5	BAYOU CREEK	KY	McCRACKEN
947.5	ROCKY BRANCH	IL	MASSAC
951.0	BAYOU CREEK	KY	McCRACKEN
952.8	UNKNOWN	IL	MASSAC
953.0	NEWTONS CREEK	IL	MASSAC
953.3	BEAN BRANCH	KY	McCRACKEN
956.2	REDSTONE CREEK	KY	BALLARD
957.7	POST CREEK CUTOFF	IL	PULASKI
962.9	GAR CREEK	KY	BALLARD
967.6	HUMPHREY'S CREEK	KY	BALLARD
968.9	HODGES BAYOU	IL	PULASKI
971.9	HESS BAYOU	IL	PULASKI
973.3	CACHE ISLAND	KY	BALLARD
975.7	CACHE RIVER	IL	PULASKI
977.7	CROOKED CREEK	KY	BALLARD

Rail Emergency Contact Information

Class 1 rail carrier Emergency Operations Centers:

CSX Transportation: 800-232-0144 option 4 (24hrs)

Norfolk Southern: 800-453-2530 (24hrs)



Sources of Environmental and Chemical Data

River Hydrologic Information

Ohio River flow forecasts are available on ORSANCO's website at www.orsanco.org/flows/. River flows and velocity forecasts for key points along the Ohio River and tributaries may be obtained through the National Weather Service of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce at the following numbers:

National Weather Service forecast offices

Ohio River Forecast Center

Wilmington, OH

(937) 383-0430 (6am-10pm)

www.weather.gov/ohrfc

Pittsburgh, PA forecast office

(412) 262-1591 (24-hour)

Ohio, Allegheny, Beaver and Monongahela Rivers

www.weather.gov/pbz

Charleston, WV forecast office

(304) 746-0180 (General Public, 8am-4pm)

Ohio and Kanawha Rivers

(304) 746-0188 (Media, emergency officials, 24-hour)

www.weather.gov/rhx

Indianapolis, IN forecast office

(317) 856-0664 (24-hour)

Ohio, Licking and Kentucky Rivers

(317) 856-0361 (Dan McCarthy, Hydrologist)

<https://www.weather.gov/ind/>

River Stage Information: Ohio River stage information is provided by the NOAA, National Weather Service, Advanced Hydrologic Prediction Service. This information is available at www.orsanco.org, by clicking these links:

- Data
 - Stages
 - Ohio River Real-time Stages Data (link)

CHEMTREC (Chemical Transportation Emergency Center)

(800) 424-9300 (Emergency Hotline, 24-hour)

www.chemtrec.com

Provides advice on toxic substances from manufacturers, sponsored by the American Chemistry Council. *When calling the emergency hotline number, you must have a spill, leak, fire or chemical exposure emergency.*

Marine Traffic

www.marinetraffic.com

US Army Corps of Engineers Lock Performance Monitoring System

<http://corpslocks.usace.army.mil/lpwb/f?p=121:1:0>

Conversion Factors for Water Quality Analysis

FLOW

1 Million Gallons per Day (MGD)	=	1.547 cfs	=	694.4 GPM	=	43.8 LPS
1 Cubic Foot per Second (cfs)	=	0.646 MGD	=	448.8 GPM	=	28.3 LPS
1 Gallon per Minute (GPM)	=	0.00144 MGD	=	0.00223 cfs	=	0.063 LPS
1 Liter per Second (LPS)	=	0.023 MGD	=	0.036 cfs	=	15.9 GPM

VELOCITY

1 Foot per Second (fps)	=	0.682 MPH	=	0.303 mps	=	1.09 KPH
1 Mile per Hour (MPH)	=	1.47 fps	=	0.444 mps	=	1.61 KPH
1 Meter per Second (mps)	=	3.3 fps	=	2.25 MPH	=	3.6 KPH
1 Kilometer per Hour (KPH)	=	0.92 fps	=	0.62 MPH	=	0.28 mps

MASS DISCHARGE

Discharge in Pounds per Day	=	Flow (MGD) x Concentration (mg/L) x 8.35
	=	Flow (cfs) x Concentration (mg/L) x 5.39
	=	Flow (GPM) x Concentration (mg/L) x 0.02
	=	Flow (LPS) x Concentration (mg/L) x 0.192

Discharge in Kilograms per Day	=	Flow (MGD) x Concentration (mg/L) x 3.78
	=	Flow (cfs) x Concentration (mg/L) x 2.44
	=	Flow (GPM) x Concentration (mg/L) x 0.0054
	=	Flow (LPS) x Concentration (mg/L) x 0.0864

1 Pound per Day	=	0.454 Kilograms per Day
1 Kilogram per Day	=	2.2 Pounds per Day

Calculation of stream concentration (expressed in mg/L) resulting from a spill or shock load

$$\text{Load (L) expressed in pounds,} \quad \text{Concentration} = \frac{L \times T}{5.39 Q}$$

$$\text{Load (L) expressed in kilograms,} \quad \text{Concentration} = \frac{L \times T}{2.44 Q}$$

Where,

Q = Stream flow in cfs

T = Duration of spill or shock load expressed as fraction of a day

t = duration of spill

$$\text{If t is expressed in days,} \quad T = \frac{1}{t}$$

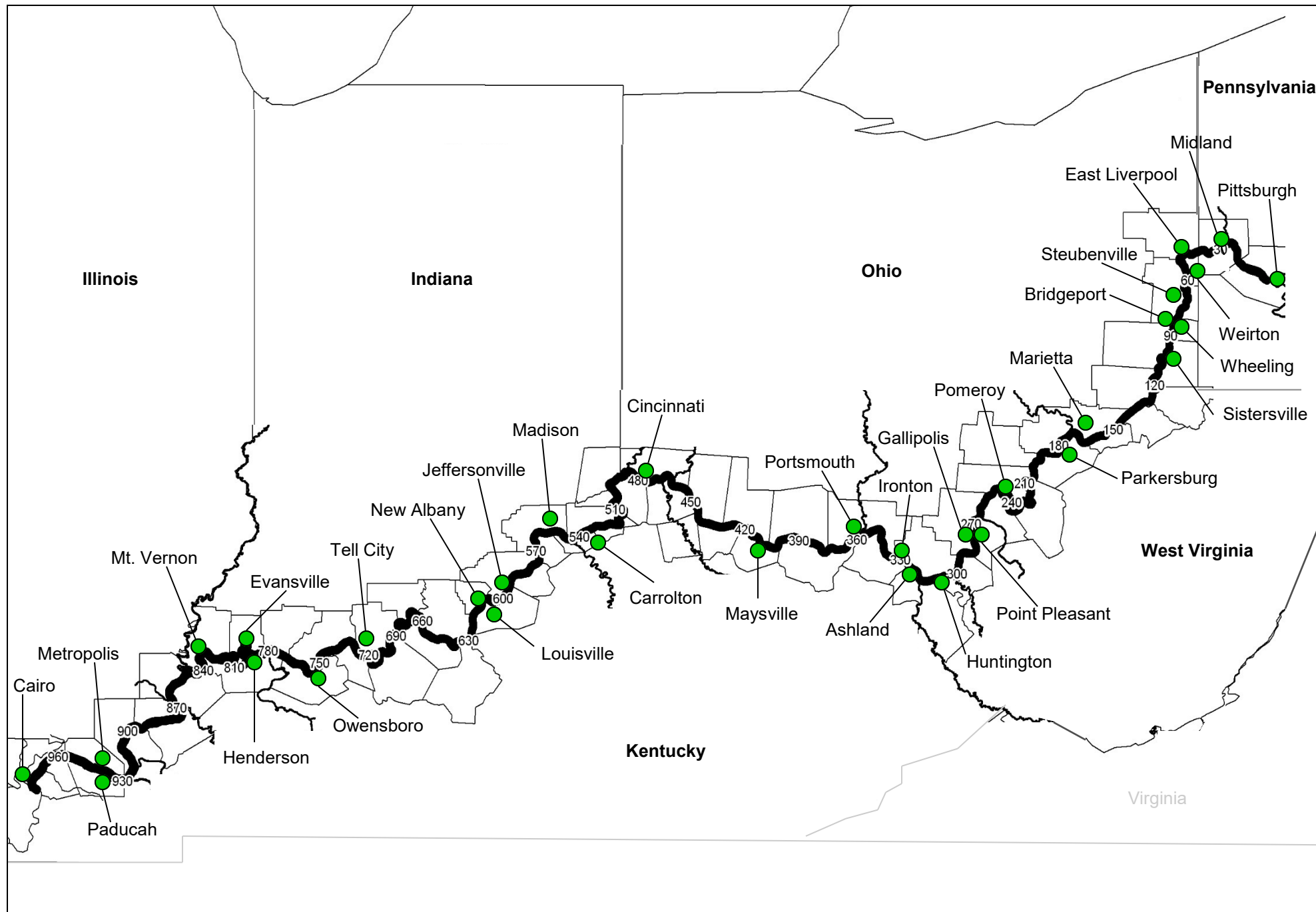
$$\text{If t is expressed in hours,} \quad T = \frac{24}{t}$$

$$\text{If t is expressed in minutes,} \quad T = \frac{1440}{t}$$

$$\text{If t is expressed in seconds,} \quad T = \frac{86}{t}$$

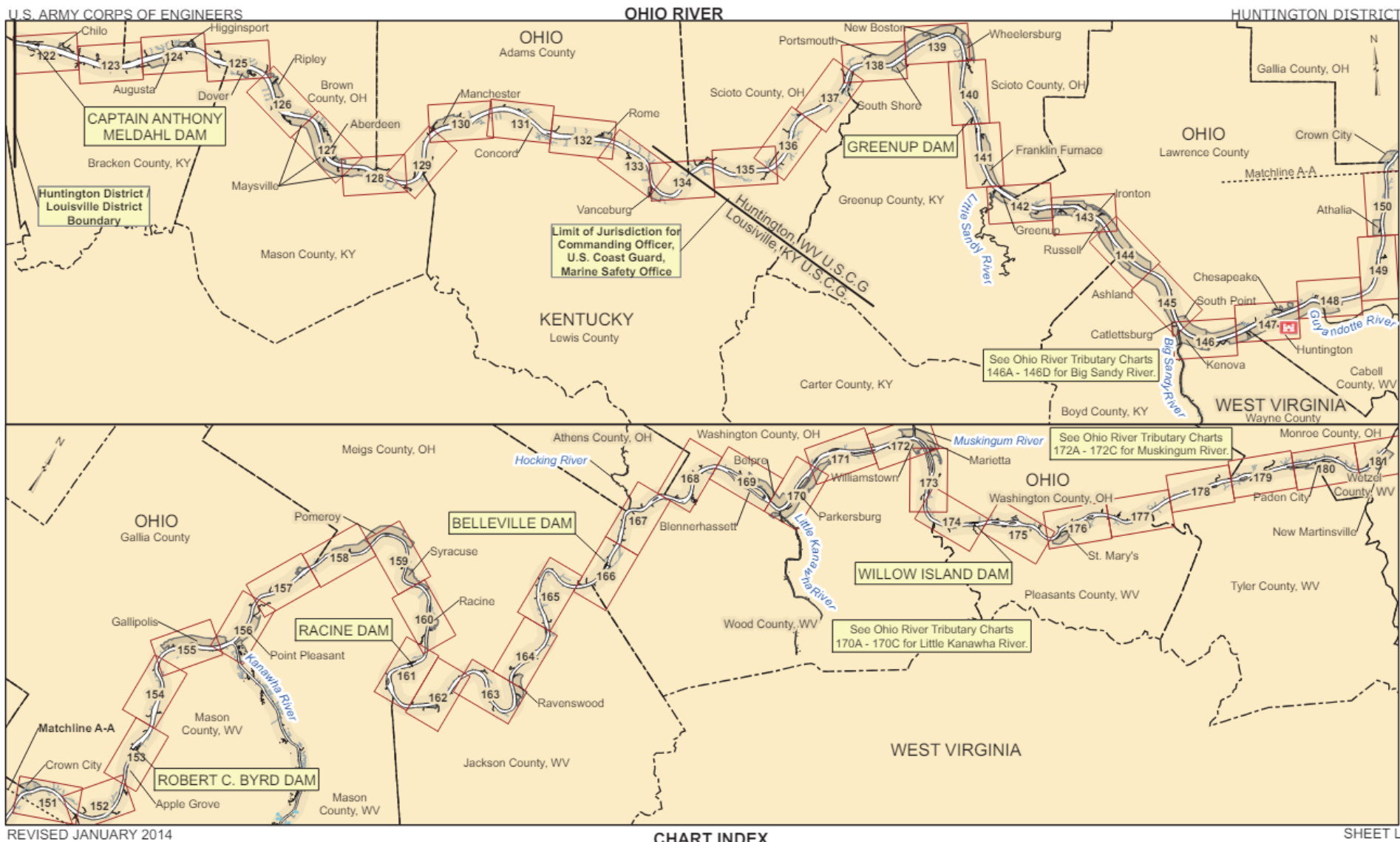
1 barrel contains 42 gallons.

Ohio River Mile Points and Major Cities

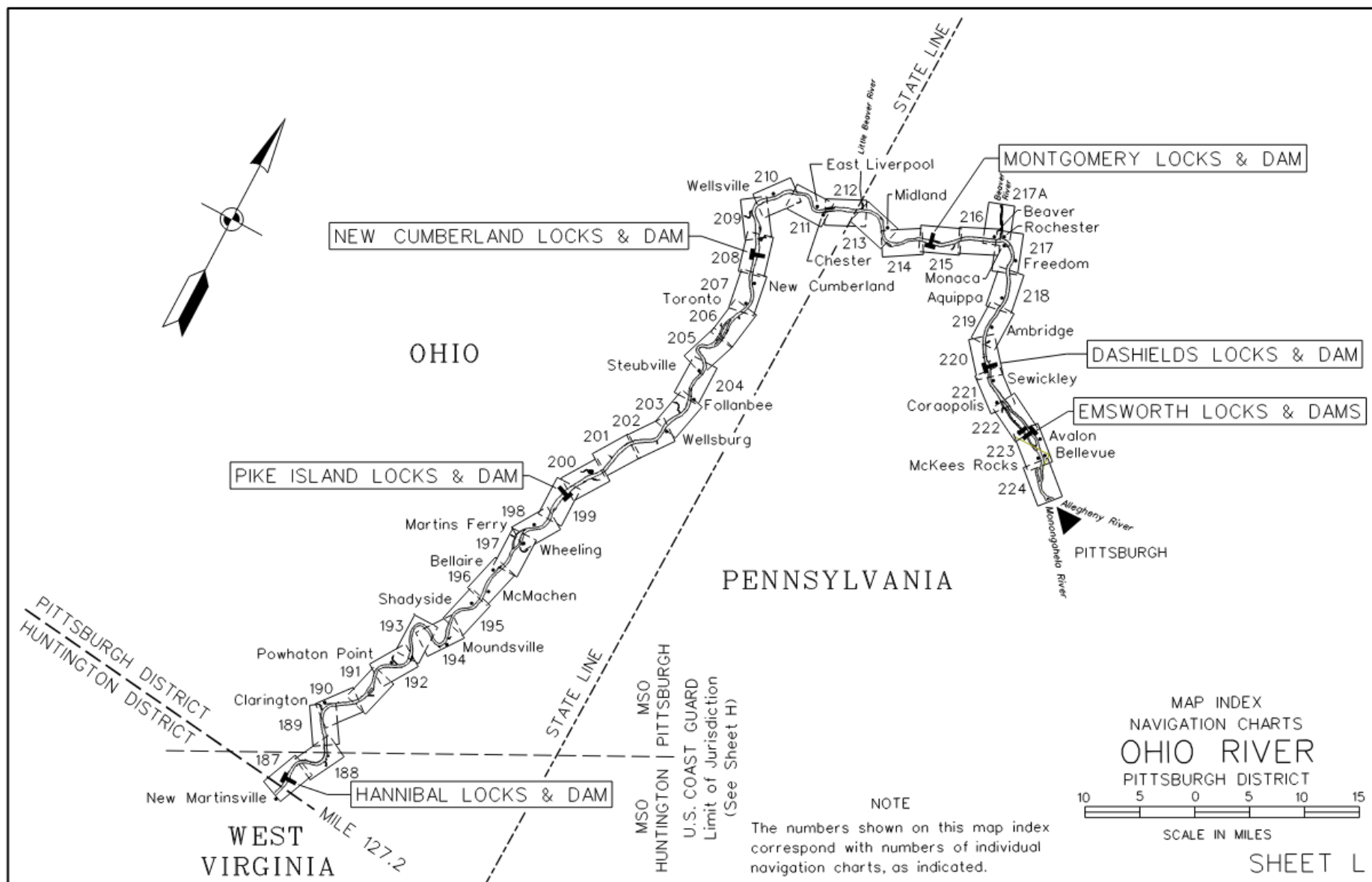


Ohio River and Tributaries Navigation Chart Indices

River Mile	Chart Number	District	Pool
981-961	1-5	Louisville	Below Olmsted
961-922	5-15	Louisville	Olmsted
922-842	15-32	Louisville	Smithland
842-773	32-48	Louisville	JT Myers
773-719	48-60	Louisville	Newburgh
719-604	60-85	Louisville	Cannelton
604-529	85-102	Louisville	McAlpine
529-438	102-122	Louisville	Markland
438-341	122-141	Huntington	Meldahl
341-279	141-153	Huntington	Greenup
279-237	153-161	Huntington	RC Byrd
237-203	161-165	Huntington	Racine
203-161	166-170	Huntington	Belleville
161-127	174-181	Huntington	Willow Island
127-84	181-199	Pittsburgh	Hannibal
84-54	199-208	Pittsburgh	Pike Island
54-31	208-215	Pittsburgh	New Cumberland
31-13	215-220	Pittsburgh	Montgomery
13-6	220-223	Pittsburgh	Dashields
6-0	223	Pittsburgh	Emsworth



Huntington District (Updated 2014)



Pittsburgh District (Updated 2014)

ADDITIONAL MAPPING RESOURCES

USACE Navigational charts

- **ORM 485-346** <https://www.govinfo.gov/content/pkg/GOVPUB-D103-PURL-gpo27243/pdf/GOVPUB-D103-PURL-gpo27243.pdf>
- **ORM 346-981** <https://usace.contentdm.oclc.org/digital/collection/p16021coll10/id/16425/rec/1>

River Depth: <https://usa.fisherman.org/depth-map/ohio-river/>

Downstream Water path finder: <https://river-runner.samlearner.com/>

OEPA River Miles GIS Map for Ohio:

<https://geo.epa.ohio.gov/portal/apps/experiencebuilder/experience/?id=c1ef499ce7424ad9b909c05a2d240406>