

# RETURN PERIOD BETWEEN FLOOD STAGE EXCEEDANCE AND FLOODS PER YEAR

<b>THE NORTH BRANCH SUSQUEHANNA BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Bainbridge, NY	SUQ	13.0	10/22/1987 - 2008	20.19	28	0.72	1.39
Binghamton, NY ***	SUQ	14.0	Incomplete	Incomplete Data			
Chenango Forks, NY	CHN	10.0	08/03/1936 - 2008	71.41	90	0.79	1.26
Cincinnatus, NY	OTS	9.0	10/01/1969 - 2008	38.25	14	2.73	0.37
Conklin, NY	SUQ	11.0	10/04/1913 - 2008	94.24	171	0.55	1.81
Cortland, NY	TGH	8.0	10/01/1963 - 2008	44.25	60	0.74	1.36
Greene, NY	CHN	13.0	02/20/1937 - 2008	70.86	41	1.73	0.58
Owego, NY	SUQ	30.0	09/01/1998 - 2008	9.33	3	3.11	0.32
Rockdale, NY	UNA	11.0	01/29/1937 - 2008	70.92	29	2.45	0.41
Sherburne, NY	CHN	8.0	01/27/1955 - 2008	52.93	109	0.49	2.06
Unadilla, NY	SUQ	11.0	07/01/1938 - 2008	69.50	50	1.39	0.72
Vestal, NY	SUQ	18.0	03/03/1937 - 2008	70.83	79	0.90	1.12
Waverly, NY	SUQ	11.0	11/01/1939 - 2008	68.17	111	0.61	1.63
<b>THE CHEMUNG BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Campbell, NY	COH	8.0	03/05/1937 - 2008	70.83	17	4.17	0.24
Chemung, NY	CHG	16.0	01/10/1930 - 2008	77.98	45	1.73	0.58
Corning, NY	CHG	29.0	10/01/1974 - 2008	33.25	1	33.25	0.03
Elmira, NY	CHG	12.0	10/19/1987 - 2008	20.20	15	1.35	0.74
Lawrenceville, PA	COW	13.0	10/01/1978 - 2008	28.25	0	None	0.00
Lindley, NY	TGA	17.0	10/01/1975 - 2008	32.25	0	None	0.00
Mansfield, PA	TGA	12.0	07/18/1976 - 2008	31.46	24	1.31	0.76
Tioga JCT, PA	TGA	15.0	10/01/1978 - 2008	29.25	2	14.63	0.07
West Cameron, NY	CAN	17.0	02/22/1937 - 2008	70.86	6	11.81	0.08
*** A non-continuous record. We didn't use this site in our study since some floods could be missing. See Forecast Point Floods for more information.							

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<b>THE UPPER MAIN STEM SUSQUEHANNA BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Bloomsburg, PA	SUQ	19.0	03/27/1995 - 2008	12.77	6	2.13	0.47
Danville, PA	SUQ	20.0	06/29/1939 - 2008	68.51	25	2.74	0.36
Meshoppen, PA	SUQ	27.0	10/01/1976 - 2008	31.25	22	1.42	0.70
Monroeton, PA	TOW	14.0	08/26/1976 - 2008	31.35	5	6.27	0.16
Old Forge, PA	LKW	11.0	10/01/1959 - 2008	48.25	6	8.04	0.12
Towanda, PA	SUQ	16.0	10/18/1938 - 2008	69.21	64	1.08	0.92
Tunkhannock, PA	TNK	11.0	08/10/1938 - 2008	69.39	40	1.73	0.58
Wilkes-Barre, PA	SUQ	22.0	3/30/1899 - 2008	108.76	78	1.39	0.72
<b>THE WEST BRANCH SUSQUEHANNA BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Beech CK Station, PA	BEG	11.0	10/01/1984 - 2008	23.25	15	1.55	0.65
Cedar Run, PA	PNE	12.0	02/13/1930 - 2008	77.88	3	25.96	0.04
Jersey Shore, PA	WBS	26.0	03/23/2000 - 2008	7.25	1	7.25	0.14
Karthaus, PA	WBS	19.0	12/01/1960 - 2008	47.08	0	None	0.00
Lewisburg, PA	WBS	18.0	07/02/1940 - 2008	67.50	27	2.50	0.40
Lock Haven, PA	WBS	21.0	10/01/1974 - 2008	33.25	4	8.31	0.12
Loyalsockville, PA	LYS	12.0	09/17/1926 - 2008	81.29	12	6.77	0.15
Milton (West), PA	WBS	19.0	11/01/1994 - 2008	13.17	4	3.29	0.30
Montgomery, PA ***	WBS	20.0	Incomplete	Incomplete Data			
Muncy, PA ***	WBS	20.0	10/01/1990 - 2008	17.25	4	4.31	0.23
Renovo, PA	WBS	16.0	03/17/1930 - 2008	77.79	10	7.78	0.13
Sinnemahoning, PA	SIN	17.0	07/01/1938 - 2008	69.50	6	11.58	0.09
Watsonstown, PA ***	WBS	23.0	Incomplete	Incomplete Data			
Williamsport, PA	WBS	20.0	10/01/1928 - 2008	79.25	20	3.96	0.25
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<b>THE JUNIATA BASIN</b>							
<b>Site</b>	<b>Stream</b>	<b>FS</b>	<b>Period of Record</b>	<b>Years</b>	<b>Floods</b>	<b>Return Period</b>	<b>Floods per Year</b>
Huntingdon, PA	JUN	12.0	10/01/1941 - 2008	66.25	10	6.63	0.15
Lewistown, PA	JUN	23.0	06/01/1988 - 2008	19.59	3	6.53	0.15
Mapleton Depot, PA	JUN	20.0	10/01/1937 - 2008	70.25	6	11.71	0.09
Newport, PA	JUN	22.0	07/16/1929 - 2008	78.46	8	9.81	0.10
Saxton, PA	JUN	17.0	10/01/1931 - 2008	76.25	6	12.71	0.08
Shirleysburg, PA	AWK	10.0	01/30/1990 - 2008	17.92	19	0.94	1.06
Spruce Creek, PA	LJN	8.0	06/04/1938 - 2008	69.58	65	1.07	0.93
Williamsburg, PA	JUN	12.0	08/14/1928 - 2008	79.38	35	2.27	0.44

<b>THE LOWER MAIN STEM SUSQUEHANNA BASIN</b>							
<b>Site</b>	<b>Stream</b>	<b>FS</b>	<b>Period of Record</b>	<b>Years</b>	<b>Floods</b>	<b>Return Period</b>	<b>Floods per Year</b>
Camp Hill, PA	YBC	7.0	07/01/1954 - 2008	53.50	47	1.14	0.88
Conowingo, MD	SUQ	23.0	10/01/1967 - 2008	40.25	18	2.24	0.45
Harper Tavern, PA	SWT	9.0	01/01/1919 - 2008	88.46	140	0.63	1.58
Harrisburg, PA	SUQ	17.0	10/01/1928 - 2008	79.25	27	2.94	0.34
Hershey, PA	SWT	7.0	10/01/1975 - 2008	32.25	38	0.85	1.18
Hogestown, PA	CDG	8.0	10/01/1967 - 2008	40.25	46	0.88	1.14
Lancaster, PA	CSG	11.0	05/01/1933 - 2008	74.67	44	1.70	0.59
Marietta, PA	SUQ	49.0	10/01/1931 - 2008	76.25	31	2.46	0.41
Middletown, PA ***	SWT	11.0	09/01/1975 - 2008	32.33	19	1.70	0.59
Penns Creek, PA	PNC	8.0	02/01/1930 - 2008	77.92	67	1.16	0.86
Shermans Dale, PA	SRM	9.0	01/29/1930 - 2008	77.92	62	1.26	0.80
Sunbury, PA	SUQ	24.0	03/24/1967 - 2008	40.78	10	4.08	0.25

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## THE LEHIGH BASIN

Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Allentown, PA	JDH	8.0	10/01/1944 - 2008	63.42	4	15.86	0.06
Bethlehem, PA	LGH	16.0	10/01/1963 - 2008	44.25	6	7.38	0.14
Lehighton, PA	LGH	10.0	12/01/1982 - 2008	25.08	9	2.79	0.36
Walnutport, PA	LGH	8.0	10/01/1946 - 2008	61.25	42	1.46	0.69

## THE SOUTHEASTERN PENNSYLVANIA BASINS

Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Berne, PA	SCH	12.0	08/01/1947 - 2008	60.42	26	2.32	0.43
Chadds Ford, PA	BYW	9.0	10/01/1962 - 2008	45.25	55	0.82	1.22
Graterford, PA	PKN	11.0	09/14/1927 - 2008	80.30	68	1.18	0.85
Langhorne, PA	NMY	9.0	10/01/1934 - 2008	73.25	140	0.52	1.91
Norristown, PA ***	SCH	17.0	10/19/1991 - 2008	16.20	6	2.70	0.37
Philadelphia, PA	SCH	11.0	10/01/1931 - 2008	76.25	52	1.47	0.68
Pottstown, PA	SCH	13.0	11/23/1928 - 2008	79.11	35	2.26	0.44
Reading, PA	SCH	13.0	06/30/1977 - 2008	30.51	14	2.18	0.46
Wilmington, DE	BYW	16.5	10/01/2008 - 2008	0.25	0	None	0.00

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<b>THE MAIN STEM DELAWARE BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Barryville, NY	DEL	17.0	10/01/1940 - 2008	67.25	15	4.48	0.22
Belvidere, NJ	DEL	22.0	01/01/1929 - 2008	79.00	7	11.29	0.09
Bridgeville, NY ***	NVR	13.0	10/01/1992 - 2008	15.25	5	3.05	0.33
Callicoon, NY	DEL	12.0	06/01/1975 - 2008	32.59	8	4.07	0.25
Cooks Falls, NY	BVR	10.0	10/01/1933 - 2008	74.25	105	0.71	1.41
Delaware Water Gap, PA	DEL	21.0	10/01/1967 - 2008	40.25	8	5.03	0.20
Easton, PA ***	DEL	22.0	Incomplete	Incomplete Data			
Fishs Eddy, NY	DEL	13.0	11/02/1967 - 2008	40.16	17	2.36	0.42
Frenchtown, NJ ***	DEL	16.0	Incomplete	Incomplete Data			
Hale Eddy, NY	DEL	11.0	10/01/1963 - 2008	44.25	11	4.02	0.25
Harvard, NY	DEL	10.0	11/01/1977 - 2008	30.17	8	3.77	0.27
Hawley, PA	LWX	11.0	08/01/1938 - 2008	69.88	12	5.82	0.17
Minisink Hills, PA	BHD	10.0	07/24/1956 - 2008	51.44	12	4.29	0.23
Montague, NJ	DEL	25.0	02/09/1940 - 2008	67.89	6	11.32	0.09
New Hope, PA ***	DEL	13.0	Incomplete	INC	INC	INC	INC
Pemberton, NJ	RNC	2.5	08/10/1951 - 2008	56.39	99	0.57	1.76
Port Jervis, NY	DEL	18.0	08/14/1928 - 2008	79.38	6	13.23	0.08
Riegelsville, NJ	DEL	22.0	02/28/1924 - 2008	83.84	30	2.79	0.36
Shoemakers, PA	BSH	6.0	06/21/1956 - 2008	51.53	7	7.36	0.14
Stockton, NJ	DEL	18.0	8/20/2007 - 2008	0.39	0	None	0.00
Trenton Assunpink, NJ	APK	8.5	07/20/1932 - 2008	75.45	53	1.42	0.70
Trenton, NJ	DEL	20.0	10/03/1928 - 2008	79.25	15	5.28	0.19
Washington Crossing, NJ ***	DEL	20.0	Incomplete	Incomplete Data			

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<b>THE PASSAIC BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Boonton, NJ (above)	RWY	5.0	10/01/1937 - 2008	70.25	73	0.96	1.04
Boonton, NJ (below)	RWY	5.0	11/05/1936 - 2008	71.25	65	1.10	0.91
Chatham, NJ	PSC	6.0	10/01/1937 - 2008	70.25	72	0.98	1.02
Little Falls, NJ	PSC	7.0	09/30/1955 - 2008	52.25	51	1.02	0.98
Lodi, NJ	SDL	6.0	11/02/1938 - 2008	69.16	61	1.13	0.88
Macopin Intake, NJ	PQK	5.5	09/01/1992 - 2008	15.33	14	1.10	0.91
Mahwah, NJ	RMP	8.0	12/24/1936 - 2008	71.02	88	0.81	1.24
Millington, NJ	PSC	8.0	07/04/1925 - 2008	82.50	18	4.58	0.22
Pine Brook, NJ	PSC	19.0	10/01/1979 - 2008	28.25	45	0.63	1.59
Pompton Lakes, NJ	RMP	11.5	05/01/2008 - 2008	0.67	0	None	0.00
Pompton Plains, NJ	PTN	16.0	09/01/1964 - 2008	43.33	34	1.27	0.78
Wanaque, NJ	WNQ	5.0	03/15/1931 - 2008	76.80	37	2.08	0.48
<b>THE RARITAN BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Blackwells Mills, NJ	MIL	9.0	08/17/1928 - 2008	79.38	126	0.63	1.59
Bound Brook, NJ	RTN	28.0	10/01/1966 - 2008	41.25	55	0.75	1.33
Manville, NJ	RTN	14.0	08/15/1923 - 2008	84.38	104	0.81	1.23
Raritan, NJ	RTN	10.0	10/17/1936 - 2008	71.21	42	1.70	0.59
Stanton, NJ	RTN	8.0	08/17/1925 - 2008	82.38	82	1.00	1.00

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<b>THE POTOMAC BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Cumberland, MD	POT	17.0	06/18/1929 - 2008	78.54	25	3.14	0.32
Cumberland, MD	WLS	10.0	10/18/1929 - 2008	78.21	13	6.02	0.17
Frederick, MD	MCY	15.0	10/01/1929 - 2008	78.25	100	0.78	1.28
Hancock, MD	POT	30.0	01/21/1937 - 2008	70.95	8	8.87	0.11
Harpers Ferry, WV	POT	18.0	12/01/1986 - 2008	21.08	4	5.27	0.19
Kitzmilller, MD	POT	9.0	10/15/1954 - 2008	53.21	17	3.13	0.32
Little Falls, MD	POT	10.0	03/01/1930 - 2008	77.84	85	0.92	1.09
Luke, MD	POT	10.5	10/01/1978 - 2008	29.25	0	None	0.00
Martinsburg, WV	OQN	10.0	07/23/1947 - 2008	60.44	124	0.49	2.05
Moorefield, WV	POT	10.0	03/11/1940 - 2008	67.81	14	4.84	0.21
Paw Paw, WV	POT	25.0	03/25/1939 - 2008	68.77	31	2.22	0.45
Petersburg, WV	POT	10.0	06/22/1994 - 2008	13.08	7	1.87	0.54
Point of Rocks, MD	POT	16.0	10/28/1929 - 2008	78.18	86	0.91	1.10
Shepherdstown, WV	POT	15.0	Incomplete	Incomplete Data			
Springfield, WV	POT	15.0	09/25/1928 - 2008	79.27	72	1.10	0.91
Williamsport, MD ***	POT	23.0	Incomplete	Incomplete Data			
<b>THE SHENANDOAH BASIN</b>							
Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Cootes Store, VA	SHN	15.0	11/15/1937 - 2008	70.13	15	4.68	0.21
Front Royal, VA	SHN	12.0	09/01/1930 - 2008	77.33	42	1.84	0.54
Lynnwood, VA	SHN	16.0	09/30/1930 - 2008	77.25	30	2.58	0.39
Millville, WV	SHN	13.5	08/23/1928 - 2008	79.36	38	2.09	0.48
Strasburg, VA	SHN	17.0	09/21/1930 - 2008	77.28	20	3.86	0.26
Waynesboro, VA	STH	9.5	10/01/1952 - 2008	55.25	15	3.68	0.27
*** A non-continous record. We didn't use this site in our study since some floods could be missing. See Forecast Point Floods for more information.							

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## THE RAPPAHANNOCK BASIN

Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Culpeper, VA	RPN	14.0	10/01/1930 - 2008	77.25	51	1.51	0.66
Fredericksburg, VA	RAP	18.0	01/15/1922 - 2008	85.96	17	5.06	0.20
Remington, VA	RAP	15.0	08/01/1965 - 2008	42.42	56	0.76	1.32

## THE JAMES BASIN

Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Bent Creek, VA	JMS	16.0	09/12/1930 - 2008	77.30	45	1.72	0.58
Bremo Bluff, VA ***	JMS	19.0	11/01/1939 - 2008	68.17	102	0.67	1.50
Buchanan, VA	JMS	17.0	07/10/1927 - 2008	80.48	53	1.52	0.66
Buena Vista, VA	MRY	17.0	01/01/1966 - 2008	42.00	8	5.25	0.19
Cartersville, VA	JMS	20.0	06/04/1927 - 2008	80.58	67	1.20	0.83
Covington, VA	JKS	17.0	10/01/1975 - 2008	32.25	6	5.38	0.19
Holcomb Rock, VA	JMS	22.0	07/01/1931 - 2008	76.50	41	1.87	0.54
Lick Run, VA	JMS	16.0	10/26/1928 - 2008	79.18	69	1.15	0.87
Palmyra, VA	RVN	17.0	12/19/1947 - 2008	60.04	107	0.56	1.78
Richmond, VA *****	JMS	12.0	10/09/1934 - 2008	73.23	151	0.48	2.06
Scottsville, VA	JMS	20.0	11/28/1928 - 2008	79.09	38	2.08	0.48

## THE APPOMATTOX BASIN

Site	Stream	FS	Period of Record	Years	Floods	Return Period	Floods per Year
Farmville, VA	AMX	16.0	11/29/1928 - 2008	79.09	91	0.87	1.15
Matoaca, VA	AMX	10.0	10/30/1969 - 2008	38.17	24	1.59	0.63
Mattoax, VA	AMX	19.0	10/01/1936 - 2008	71.25	72	0.99	1.01

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\*\*\*\*\* Several floods missing in the 12 to 13 foot range.