

Table 1. Tributaries along the western riverbank of the Lehigh River from the headwater region (Pocono Peak Lake) downstream to its confluence with the Delaware River at Easton. UNT=Unnamed Tributary; WWT = wild trout designation; NR=Not Rated; Stock is a listing known organizations that stock fishes into listed waters; Basin stock is a listing if waters in the basin are stocked; PFBC means trout unless otherwise indicated; Chapter 93 is the water quality designation according to 25 PA Code Chapter 93; 303(d) is the listing of impaired waters; Source is the cause of the listing of impairment.

Stream Name	River Mile Entry	Drainage Area		Sub Sub Basin	County	WWT	Stock	Basin Stock	Chapter 93	303(d)	Source
		km ²	mi ²								
Headwaters Down River to Francis E Walter Dam (105.69 – 76.51)											
West Fork Lehigh R	104.83	3.47	1.34	2A	Wayne/Lackawanna	NR	N	N	HQ-CWF		
UNT S of Lk Natalie	100.66	.	.	2A	Lackawanna	NR	N	N	HQ-CWF		
Tamarack Ck	99.74	13.73	5.30	2A	Lackawanna	Y	N	N	HQ-CWF		
Rucks Run	99.10	3.83	1.48	2A	Lackawanna	Y	N	N	HQ-CWF		
UNT S of Rucks Rn	98.61	.	.	2A	Lackawanna	NR	N	N	HQ-CWF		
Silver Ck	97.40	6.48	2.50	2A	Lackawanna	Y	N	N	HQ-CWF		
Ash Ck	94.40	14.11	5.45	2A	Lackawanna	Y	N	N	HQ-CWF		
Spruce Rn	95.41	2.41	0.93	2A	Lackawanna	Y	N	N	HQ-CWF		
Buckley Rn	94.32	5.41	2.09	2A	Lackawanna	Y	N	N	HQ-CWF		
Pond Ck	93.44	21.19	8.51	2A	Lackawanna	Y	N	N	HQ-CWF	Y	AMD
Sand Spring Ck	91.48	7.98	3.08	2A	Lackawanna	Y	N	N	HQ-CWF		
Choke Ck	90.53	19.45	7.51	2A	Lackawanna/Luzerne	Y	N	N	HQ-CWF		
1 st UNT S of Choke Ck	90.08	.	.	2A	Luzerne	NR	N	N	HQ-CWF		
2 nd UNT S of Choke Ck	89.15	.	.	2A	Luzerne	NR	N	N	HQ-CWF		
3 rd UNT S of Choke Ck	88.52	.	.	2A	Luzerne	NR	N	N	HQ-CWF		
Kendall Ck	87.78	6.63	2.56	2A	Luzerne	Y	N	N	HQ-CWF		
1 st UNT S of Kendall Ck	87.73			2A	Luzerne	NR	N	N	HQ-CWF		
White House Ck	83.59	3.24	1.25	2A	Luzerne	NR	N	N	HQ-CWF		
Spring Rn	82.23			2A	Luzerne	NR	N	N	HQ-CWF		
Stony Rn	81.80	11.84	4.57	2A	Luzerne	NR	N	N	HQ-CWF		
Bear Ck – Trib FE Walter	.	132.87	51.30	2A	Luzerne	NR	N	N	HQ-CWF		
Francis E Walter Dam to Former Relic Dam at Palmerton (RM 76.51 – 37.70)											
1 st UNT N of Pine Ck	76.52			2A	Luzerne	NR	N	N	HQ-CWF		
Pine Ck	76.00	8.78	3.39	2A	Luzerne	Y	N	N	HQ-CWF		
Wrights Ck	73.30	23.96	9.25	2A	Luzerne	Y	PFBC	N	HQ-CWF		
Linesville Ck	71.58	13.11	5.06	2A	Luzerne	Y	N	N	HQ-CWF		
1 st UNT S of Linesville Ck	71.14	.	.	2A	Luzerne	NR	N	N	HQ-CWF		
1 st UNT S of Tannery Brdg	69.63	.	.	2A	Luzerne	NR	N	N	HQ-CWF		
Sandy Rn	67.80	58.53	22.60	2A	Luzerne	NR, AMD	N	N	HQ-CWF	Y	AMD
Leslie Rn	66.00	7.56	2.92	2A	Carbon	Y	N	N	HQ-CWF		

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Stream Name	River Mile Entry	Drainage Area		Sub Sub Basin	County	WWT	Stock	Basin Stock	Chapter 93	303(d)	Source
		km ²	mi ²								
Buck Mountain Ck	62.70	23.00	8.88	2B	Carbon	NR	N	N	HQ-CWF	Y	AMD
Black Ck	55.97	156.44	60.40	2B	Carbon	NR	N	N	CWF; HQ-CWF	Y	AMD
1 st UNT S of Black Ck	54.36	.	.	2B	Carbon	NR	N	N	HQ-CWF		
2 nd UNT S of Black Ck	54.18	.	.	2B	Carbon	NR	N	N	HQ-CWF		
3 rd UNT S of Black Ck	52.39	.	.	2B	Carbon	NR	N	N	HQ-CWF		
Nesquehoning Ck	49.20	87.80	33.90	2B	Carbon	Y	PFBC;Pvt	Pvt	CWF; HQ-WWF; HQ-CWF	Y	AMD
Mauch Chunk Ck	47.20	23.26	8.98	2B	Carbon	Y	PFBC	N	CWF, EV		
Mauch Chunk Lake				2B			Coop PFBC		CWF		
Beaver Dam Rn	44.52	6.53	2.52	2B	Carbon		N	N	CWF		
Mahoning Ck	42.80	99.20	38.30	2B	Carbon		Y	N	CWF	Y	Siltation; Urban runoff
Nis Hollow	40.18	.	.	2B	Carbon		N	N	CWF		
1 st UNT S of Nis Hollow	39.97	.	.	2B	Carbon		N	N	CWF		
Lizard Ck	39.50	133.39	51.50	2B	Carbon	Y	PFBC	N	TSF,CWF		
Trout Ck, Big	33.30	58.02	22.40	2C	Lehigh	Y	PFBC	N	CWF		
Former Relic Dam at Palmerton to Northampton Dam (37.70 – 24.00)											
1 st UNT S of SR0873 Bridge	32.09	.	.	2C	Lehigh		N	N	CWF		
2 nd UNT S of SR0873 Bridge	31.56	.	.	2C	Lehigh		N	N	CWF		
3 rd UNT S of SR0873 Bridge	30.41	.	.	2C	Lehigh		N	N	CWF		
Rockdale Ck	29.67	4.74	1.83	2C	Lehigh		N	N	CWF		
1 st UNT S of Rockdale Ck	29.50	.	.	2C	Lehigh		N	N	CWF		
2 nd UNT S of Rockdale Ck	.	.	.	2C	Lehigh		N	N	CWF		
Fells Ck	26.30	8.21	3.17	2C	Lehigh		N	N	CWF		
1 st UNT S of Fells Ck	25.80	.	.	2C	Lehigh		N	N	CWF		
2 nd UNT S of Fells Ck	25.34	.	.	2C	Lehigh		N	N	CWF		
Spring Ck	24.90	7.74	2.99	2C	Lehigh		N	N	CWF	Y	Siltation

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Stream Name	River Mile Entry	Drainage Area		Sub Sub Basin	County	WWT	Stock	Basin Stock	Chapter 93	303(d)	Source
		km ²	mi ²								
Northampton Dam to Confluence with the Delaware River at Easton (RM 24.00 – 0.00)											
Coplay Ck	21.10	51.54	19.90	2C	Lehigh	Y	PFBC Coop	N	CWF	Y	Siltation; Urban Runoff
Little Lehigh Ck	16.70	492.10	190.00	2C	Lehigh	Y	PFBC Coop	PFBC Coop	HQ-CWF	Y	Siltation; Agriculture
Saucon Ck	9.46	149.96	57.90	2C	Northampton	Y	PFBC Coop	PFBC Coop	CWF,HQ- CWF	Y	Siltation; Agriculture
Bull Rn	7.03	4.29	1.67	2C	Northampton		N	N	CWF		
UNT N of Chain Dam	3.19	.	.	2C	Northampton		N	N	CWF		

Table 2. Tributaries along the eastern riverbank of the Lehigh River from the headwater region (Pocono Peak Lake) downriver to its confluence with the Delaware River at Easton. UNT=Unnamed Tributary; WWT = wild trout designation; NR=Not Rated; Stock is a listing known organizations that stock fishes into listed waters; Basin stock is a listing if waters in the basin are stocked; PFBC means trout unless otherwise indicated; Chapter 93 is the water quality designation according to 25 PA Code Chapter 93; 303(d) is the listing of impaired waters; Source is the cause of the listing of impairment.

Stream Name	River Mile Entry	Drainage Basin		Sub Basin	County	WWT	Stock	Basin Stock	Chapter 93	303(d)	Source
		km ²	mi ²								
Headwaters to Francis E Walter Dam (RM 105.69 – 76.51)											
UNT N of Fritz Rn	100.21			02A	Wayne		N	N	HQ-CWF		
Fritz Rn	99.34	9.19	3.55	02A	Monroe	Y	N	N	HQ-CWF		
1 st UNT S of Fritz Rn	98.60	.	.	02A	Monroe	NR	N	N	HQ-CWF		
2 nd UNT S of Fritz Rn	97.85	.	.	02A	Monroe	NR	N	N	HQ-CWF		
3 rd UNT S of Fritz Rn	84.26	.	.	02A	Monroe	NR	N	N	HQ-CWF		
4 th UNT S of Fritz Rn	83.69	.	.	02A	Monroe	NR	N	N	HQ-CWF		
Wolf Rn	94.60	5.23	2.02	02A	Monroe	Y	N	N	HQ-CWF		
UNT S of Wolf Rn	92.84	.	.	02A	Monroe	NR	N	N	HQ-CWF		
Trout Ck	90.67	41.44	16.00	02A	Monroe	Y	N	Pvt	HQ-CWF		
1 st UNT S of Trout Ck	89.91	.	.	02A	Monroe	NR	N	N	HQ-CWF		
2 nd UNT S of Trout Ck	89.53	.	.	02A	Monroe	NR	N	N	HQ-CWF		
3 rd UNT S of Trout Ck	88.63	.	.	02A	Monroe	NR	N	N	HQ-CWF		
Tobyhanna Ck	83.50	331.52	128.00	02A	Monroe/Carbon	Y	PFBC	Pvt	HQ-CWF	Y	Mercury
Tobyhanna Lake				02A	Monroe	NR	PFBC	N	HQ-CWF		
Porter Rn	82.98	4.77	1.84	02A	Carbon	NR	N	N	HQ-CWF		
Lime Hollow Rn - FE Walter	79.22			02A	Carbon	NR	N	N	HQ-CWF		
Cider Run - FE Walter	78.22	3.03	1.17	02A	Carbon	NR	N	N	HQ-CWF		
Francis E Walter Dam to Former Relic Dam Palmerton (RM 76.51 – 37.70)											
2 nd UNT N of Fawn Rn	76.76	.	.	02A	Carbon	NR	N	N	HQ-CWF		
1 st UNT N of Fawn Rn	75.51	.	.	02A	Carbon	NR	N	N	HQ-CWF		
Fawn Rn	75.34	4.38	1.69	02A	Carbon	Y	N	N	HQ-CWF		
1 st UNT S of Fawn Rn	73.35	.	.	02A	Carbon	NR	N	N	HQ-CWF		
TanneryCk	71.45	.	.	02A	Carbon	Y	N	N	HQ-CWF		
2 nd UNT S of I-80 Bridge	71.13	.	.	02A	Carbon	NR	N	N	HQ-CWF		
3 rd UNT S of I-80 Bridge	70.41	.	.	02A	Carbon	NR	N	N	HQ-CWF		
Black (Hayes) Ck	68.80	44.81	17.30	02A	Carbon	Y	N	N	HQ-CWF		
Goulds Rn	67.89	.	.	02A	Carbon	NR	N	N	HQ-CWF		
Hickory Rn	67.30	26.16	10.1	02A	Carbon	Y	PFBC	N	HQ-CWF		
Hickory Run Lake				02A	Carbon	NR	PFBC	N	HQ-CWF		
1 st UNT S of Hickory Rn	66.77			02A	Carbon	NR	N	N	HQ-CWF		
Mud Rn	65.10	98.68	38.10	02A	Carbon	Y	PFBC	N	HQ-CWF		

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		km ²	mi ²								
Francis E Walter Dam to Former Relic Dam Palmerton (RM 76.51 – 37.70)											
Drakes Ck	60.30	12.17	4.70	2B	Carbon	Y	PFBC	N	HQ-CWF		
Stony Ck	59.00	25.90	10.00	2B	Carbon	Y	N	N	EV		
Penn Springs	57.72	2.10	0.81	2B	Carbon	NR	N	N	HQ-CWF		
Maple Hollow	55.66	1.22	0.47	2B	Carbon	NR	N	N	HQ-CWF		
Butcher Hollow	54.88	.	.	2B	Carbon	NR	N	N	HQ-CWF		
1 st UNT S of Butcher H.	53.91	.	.	2B	Carbon	NR	N	N	HQ-CWF		
Bear Ck, Big	53.60	22.48	8.68	2B	Carbon	Y	N	N	HQ-CWF		
Robertson Rn	47.84	6.50	2.51	2B	Carbon	NR	Coop	N	HQ-CWF		
Silkmill Rn	47.39	8.18	3.16	2B	Carbon	NR	Coop	N	CWF		
Long Rn	44.56	8.34	3.22	2B	Carbon	NR	N	N	CWF		
1 st UNT S of Long Rn	43.40	.	.	2B	Carbon	NR	N	N	CWF		
2 nd UNT S of Long Rn - LC	NA	.	.	2B	Carbon	NR	N	N	CWF		
Pohopoco Ck	41.10	287.49	111.00	2B	Carbon	Y	PFBC	PFBC	CWF,HQ-		
								Coop	CWF		
Beltzville Lake				2B	Carbon	NR	PFBC	N	CWF		
Fireline Ck	39.78	9.66	3.73	2B	Carbon	NR	N	N	CWF		
Former Relic Dam at Palmerton to Northampton Dam (RM 37.70 – 24.00)											
Aquacschicola Ck	36.30	203.32	78.50	2B	Carbon	Y	PFBC	PFBC	TSF,MF,HQ	Y	Metals
									-CWF		
Bertsch Ck	30.00	25.17	9.72	2C	Northampton	Y	N	N	CWF		
1 st UNT S of Bertsch Ck	27.55	.	.	2C	Northampton	NR	N	N	CWF		
2 nd UNT S of Bertsch Ck	27.26	.	.	2C	Northampton	NR	N	N	CWF		
3 rd UNT S of Bertsch Ck	26.63	.	.	2C	Northampton	NR	N	N	CWF		
Northampton Dam to Confluence with the Delaware River at Easton (RM 24.00 – 0.00)											
Hokendauqua Ck	22.60	106.45	41.10	2C	Northampton	Y	PFBC	PFBC	CWF	Y	Siltation; Urban Run off
								Coop			
Dry Rn	22.15	6.37	2.46	2C	Northampton	NR	N	N	CWF		
Catasauqua Ck	20.00	40.66	15.7	2C	Northampton	NR	N	Coop	CWF		
Monocacy Ck	12.20	126.39	48.80	2C	Lehigh/Northampton	Y	PFBC	N	HQ-CWF	Y	Siltation; Urban Run off
Nancy Rn	8.80	15.77	6.09	2C	Northampton	Y	N	N	HQ-CWF		
UNT at Hopeville	5.86	.	.	2C	Northampton	NR	N	N	CWF		

Table 3. Superfund sites within the Lehigh River watershed that are currently listed on the National Priority List for the Comprehensive Environmental Response and Liability Act.

Site	Borough/Township	County	EPA ID	Drainage
Palmerton Zinc Piles Tonolli Corporation	Palmerton	Carbon	PAD002395887	Aquashicola Ck
Dorney Road Landfill (Oswald Landfill)	Nesquehoning	Carbon	PAD073613663	Nesquehoning Ck
Heleva Landfill	Mertztown	Lehigh	PAD980508832	Ground water
Hellertown Manufacturing (Champion Sparkplug Co.)	Ormond	Lehigh	PAD980537716	Coplay Ck
Novak Sanitary Landfill	Hellertown	Northampton	PAD002390748	Saucon Ck
Rodale Manufacturing Co. Inc.	South Whitehall Township	Lehigh	PAD079160842	Jordan Ck
Route 940 Drum Dump	Emmaus	Lehigh	PAD981033285	Ground water
Tobyhanna Army Depot	Tobyhanna Township	Monroe	PAD98103463	Indian River Ck
	Tobyhanna Township	Monroe	PA5213820892	Hummeler Rn; outfall basin to Oakes Swamp

Table 4. Listing of date ranges for major types of water quality parameters collected at the seven USGS gaging stations on the mainstem of the Lehigh River.

Station	Flow rate	Biological	Nutrients	Major inorganics	Minor & trace organics	Physical	Sediment
Easton	Oct 1961 – Current Year	Jul 1962 – Feb 1971	Oct 1961 – Aug 1976	Oct 1961 – Aug 1976	Oct 1961 – Aug 1976	Oct 1961 – Sep 2005	
Glendon	Oct 1966 – Current Year	Nov 1998 – Aug 2001	Nov 1956 – Sep 2005	Nov 1956 – Sep 2005	Nov 1956 – Sep 2005	Nov 1956 – Sep 2005	Jul 1998 – Aug 2001
Bethlehem	Oct 1909 – Jan 1905; May 1909 – Current Year		Oct 1958 – Dec 1972	Oct 1958 – Jun 1972	Oct 1958 – Oct 1971	Oct 1958 – Jun 1972	
Walnutport	Oct 1946 – Current Year		Oct 1959 - Mar 1968	Oct 1959 - Mar 1968	Oct 1959 - Mar 1968	Oct 1959 - Sep 1968	Nov 1967 – Sep 1968
Lehighton	Oct 1945- Sep 1948; Oct 1982 – Current Year	May 1999	May 1999 – Sep 1999	May 1999 – Sep 1999	May 1999 – Sep 1999	May 1999 – Sep 1999	Aug 1999
FEW	Oct 1957 – Current Year	May 1982	Oct 1963 – May 1982	Oct 1963 – Apr 1982	Sep 1981	Oct 1963 – Jul 2004	Aug 1981 – Sep 1981
Stoddartsville	Oct 1943 – Current Year	Jun 1981 – May 1982	Aug 1926 – Sep 2005	Aug 1926 – Sep 2005	Aug 1926 – Sep 2005	Aug 1926 – Sep 2005	Jun 1981 – Oct 1981

Table 5. Listing of the number of Pennsylvania Fish and Boat Commission sample sites (Division of Fisheries Management) where at a minimum, water temperature has been measured.

Year	Headwaters to Francis E. Walter Dam	Francis E. Walter Dam to Palmerton	Palmerton to Northampton	Northampton to Easton
2006		4	1	3
2000	1			1
1997	3			
1996	4	4		
1995	3	3		
1994	4	4		
1993	3	5		
1992		8	4	4
1991	4	4		
1990	4	4		
1989	3	4		
1988	3	4		
1987	5	5		
1986	4	4		
1982		6		
1980		3	3	8
1979		1		
1977	9	3		

Table 6. Tolerances and optimal ranges of water temperatures for selected fish species that occur in the Lehigh River. N=Native; I=Introduced; Thermal Classification = Broad classification of fishes into groups of similar temperature preferences (cold = <70 °F; cool = 60 – 80 °F; warm = >80 °F). Trans.=Transition Waters: i.e species may occur in two different thermal habitats, such as brown trout which is a coldwater fish but can also be present with coolwater fishes and within transition areas between cold and coolwater habitats (Sources: PFBC – Pennsylvania Fishes (pages 12-13), PADEP, USFWS/OBS Series on Species Profile, and Habitat Suitability Index Models and Instream Flow Suitability Curves; <http://www.nwrc.usgs.gov/diglib.htm>).

Common Name	Scientific Name	Origin	Thermal Classification	Preferred Temperatures	Tolerance Range	Upper Avoidance
American Eel	<i>Anguilla rostrata</i>	N	.	.	42.8 – 86.0	.
American Shad (Adult)	<i>Alosa sapidissima</i>	N	Migratory	57.2 – 68.0	46.4 – 78.8	.
American Shad (Juven.)	<i>Alosa sapidissima</i>	N	Migratory	50.0 – 77.0	37.4 – 95.0	.
Banded Killifish	<i>Fundulus diaphanous</i>	N	.	.	.	.
Black Crappie	<i>Pomoxis nigromaculatus</i>	N	.	71.6 – 77.0	73.4 – 89.6	.
Blacknose Dace	<i>Rhinichthys atratulus</i>	N	Cold Trans.	.	.	84.7
Blueback Herring	<i>Alosa aestivalis</i>	N	.	.	68 - 71	.
Bluegill	<i>Lepomis macrochirus</i>	N	Warm	86.7	71.6 – 93.2	92.8
Bluespotted sunfish	<i>Enneacanthus gloriosus</i>	N	.	.	.	.
Brook trout	<i>Salvelinus fontinalis</i>	N	Cold	51.6 – 60.8	32 – 75.0	74.0
Brown bullhead	<i>Ameiurus nebulosus</i>	N	.	82.6	.	88.0
Brown trout	<i>Salmo trutta</i>	I	Cold Trans.	53.6 – 66.2	32 – 80.6	81.0
Chain Pickerel	<i>Esox niger</i>	N	Cool Trans.	75.2	.	84.2
Channel Catfish	<i>Ictalurus punctatus</i>	I	Warm	78.8 – 84.2	64.4 – 69.8	92.3
Common Carp	<i>Cyprinus carpio</i>	I	Warm	84 - 88.7	75 - 88	94.8
Common Shiner	<i>Luxilus cornutus</i>	N	Warm	80.2	.	86.2
Creek Chubsucker	<i>Erimyzon oblongus</i>	N	.	.	.	.
Cutlips Minnow	<i>Exoglossum maxillingua</i>	N	.	.	.	.
Fallfish	<i>Semotilus corporalis</i>	N	Cool	62.6	39.2 - 82.4	.
Gizzard Shad	<i>Dorosoma cepedianum</i>	I	.	86.0	.	93.2
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	.	82.0	.	87.3
Goldfish	<i>Carassius auratus</i>	I	.	86.0	.	94.3
Green Sunfish	<i>Lepomis cyanellus</i>	I	.	82.8	78.8 – 87.8	.
Largemouth bass	<i>Micropterus salmoides</i>	I	Warm	65 - 75	50 - 85	.
Longnose Dace	<i>Rhinichthys cataractae</i>	N	Cold Trans.	.	41.7 – 72.9	.
Margined Madtom	<i>Noturus insignis</i>	N	Cool Trans.	.	.	.
Muskellunge	<i>Esox masquinongy</i>	I	Cool	63-75	55 - 72	84.6
Pumpkinseed	<i>Lepomis gibbosus</i>	N	.	83.1	.	86.9
Quillback	<i>Carpiodes cyprinus</i>	N	.	86.0	.	93.6
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I	Cold	61.0	44 - 75	.
Redbreast Sunfish	<i>Lepomis auritus</i>	N	Cool Trans.	77 - 86	59 – 91.4	.
Redfin Pickerel	<i>Esox americanus</i>	N
Rock Bass	<i>Ambloplites rupestris</i>	I	Cool Trans.	82.6	.	91.4

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Common Name	Scientific Name	Origin	Thermal Classification	Preferred Range	Tolerance Range	Upper Avoidance
Rosyface Shiner	<i>Notropis rubellus</i>	N	.	81.7	.	89.6
Satinfin Shiner	<i>Cyprinella anolostana</i>	N	.	.	.	.
Sea Lamprey	<i>Petromyzon marinus</i>	N	.	.	.	.
Shield Darter	<i>Percina peltata</i>	N	.	.	.	.
Smallmouth bass	<i>Micropterus dolomieu</i>	I	Cool Trans.	65 - 68	60 - 73	89.6
Spottail Shiner	<i>Notropis hudsonius</i>	N	.	81.1	.	94.1
Striped Bass	<i>Morone saxatilis</i>	N	.	83.3	33 - 95	88.0
Swallowtail Shiner	<i>Notropis procne</i>	N	.	.	.	.
Tessellated Darter	<i>Ethostoma omstedti</i>	N	Cool	72.9	.	86.5
Tiger Muskellunge	<i>Esox lucius x e. masquinon</i>	I	.	75.7	.	84.7
Walleye	<i>Sander vitreus</i>	I	Cool Trans.	67-73	50-76	86.0
White Catfish	<i>Ameiurus catus</i>	N	.	.	.	.
White Sucker	<i>Catostomus commersoni</i>	N	.	66.2 – 69.8	.	88.8
Yellow Bullhead	<i>Ameiurus natalis</i>	N	Warm	82.9	.	88.3
Yellow perch	<i>Perca flavescens</i>	N	Cool	68 - 72	58 - 75	85.6

Table 7. Section descriptions for the current fisheries management sectioning scheme for the mainstem of the Lehigh River from Pocono Peak Lake downstream to the mouth at Easton.

Section	RM	Length		Description	Gradient		Water Quality
		km	mi		m/km	ft/mi	
1	105.69 – 102.65	4.9	3.02	Begins at the outlet of Pocono Peak Lake, Wayne County and extends downstream to inlet of Upper Klondike Pond in Wayne County	8.3	43.8	HQ-CWF
2	102.65 – 96.77	6.6	5.88	Extends from the outlet of Upper Klondike Pond downstream to the upstream border of State Game Lands 127 bordering Lackawanna and Monroe counties	8.1	42.8	HQ-CWF
3	96.77 – 94.46	3.7	2.31	Extends from the upstream border of SGL 127 downstream to lower boundary of SGL 127 bordering Lackawanna and Monroe County	9.8	51.7	HQ-CWF
4	94.46 – 87.13	11.8	7.33	Extends from the downstream border of SGL 127 downstream to the Creveling Property or 1.1 mile downstream of Choke Creek bordering Luzerne and Monroe counties	3.5	18.5	HQ-CWF
5	87.13 – 82.51	.	1.1	Extends from the Creveling Property or 1.1 mile downstream of Choke Creek downstream to the upstream US Reservation boundary of the FE Walter Reservoir in Luzerne and Carbon Counties	2.7	14.3	HQ-CWF
6	76.51 – 66.77	15.7	9.74	Extends from the outlet of FE Walter Dam bordering Luzerne and Carbon Counties downstream to the confluence of Sandy Run bordering Luzerne and Carbon counties	4.7	24.8	HQ-CWF
7	66.77 – 37.70	46.8	30.07	Extends from the confluence of Sandy Run downstream to the former relic dam at Palmerton in Carbon County. The remnants of the relic lowhead dam were removed in 2006	4.2	22.2	HQ-CWF
8	37.7 – 24.00	22.1	13.70	Extends from the former relic dam at Palmerton down river to the Northampton Dam bordering Lehigh and Northampton counties	2.6	13.7	TSF
9	24.00 – 0.00	38.6	24.0	Extends from the Northampton Dam down river to its confluence with the Delaware River in Northampton County	1.1	5.8	TSF to Hamilton street Dam; WWF to Delaware River

Table 8. Fishing Regulations applicable to the entire length of the Lehigh River from Pocono Peak Lake drainage downstream to its confluence with the Delaware River at Easton, PA.

COMMONWEALTH INLAND WATERS			
(Includes the Youghiogheny River Lake and does not include special regulation areas or endangered and threatened species not shown on this chart)			
Species	Seasons	Minimum Size	Daily Limit
ALL SPECIES OF TROUT AND SALMON	Regional Opening Day of Trout Season* - March 31 at 8 a.m. through Sept. 3 (only 18 southeastern PA counties)	7 inches	5-streams, lakes and ponds (combined species)
	Regular Season – April 14 at 8 a.m. through Sept. 3	7 inches	5-streams, lakes and ponds (combined species)
	Extended Season: Approved trout waters and all waters downstream of approved trout waters. Jan. 1 through Feb. 28 and Sept. 4 through Dec. 31	7 inches	3 (combined species)
BASS-LAKES Largemouth, Smallmouth and Spotted	Jan. 1 through April 13 and Nov. 1 through Dec. 31	15 inches	4 (combined species)
	April 14 through June 15	NO HARVEST – <i>Catch and immediate release</i> (no tournaments permitted)	
	June 16 through Oct. 31	12 inches	6 (combined species)
BASS-RIVERS AND STREAMS Largemouth, Smallmouth and Spotted	Jan. 1 through April 13 and Oct. 1 through Dec. 31	15 inches	4 (combined species)
	April 14 through June 15	NO HARVEST – <i>Catch and immediate release</i> (no tournaments permitted)	
	June 16 through Sept. 30	12 inches	6 (combined species)
Muskellunge and Tiger Muskellunge**	Open year-round	40 inches	1 (combined species)
Pickereel**		18 inches	4
Northern Pike**		24 inches	2 (combined species)
Walleye and Saugeye (Hybrids)	Jan. 1 through March 14 and	15 inches	6
Sauger	May 5 through Dec. 31	12 inches	6
American Shad***	Open year-round	No minimum	6
American Shad ***	Open year-round – Lehigh River, Schuylkill River**** and tributaries	No minimum	1
American Shad, Alewife, Blueback Herring	CLOSED YEAR-ROUND Susquehanna River and tributaries		
Hickory Shad***	CLOSED YEAR-ROUND		
Herring, Gizzard Shad***	Open year-round	No minimum	50 (combined species)
American Eel	Open year-round	8 inches	50
Striped Bass and Striped Bass/White Bass Hybrids	Open year-round	20 inches	2 (combined species)
Sunfish, Yellow Perch, White Perch, Crappies, Catfish, Rock Bass, Suckers, Carp, White Bass and other gamefish not otherwise listed	Open year-round	No minimum	50 (combined species)
Baitfish/Fishbait (except Mudbugs)	Open year-round	No minimum	50 (combined species)
American Eel (as Baitfish)	Open year-round	6 to 8 inches	50
Mudbugs (Dragonfly Nymphs)	Open year-round	No minimum	Unlimited if taken from lakes, ponds, swamps, and adjacent areas. 50 per day if taken from moving waters (rivers and streams)
Paddlefish	CLOSED YEAR-ROUND		
Seasons, sizes, and creel limits – Except for trout season, which begins at 8 a.m., all regulatory periods in the fishing regulations are based on the calendar day, one of which ends at midnight and the ext of which begins immediately thereafter.			
* Includes only those waters in 18 southeastern PA counties and two waters crossing from those counties listed in the Regional Opening Day of Trout Season Program .			
** Except those species in waters listed in the Brood Stock Lakes Program . Tiger Muskellunge is a muskellunge hybrid.			
*** Unlawful to take, catch, or kill American shad, hickory shad (endangered species), alewife, and blueback herring (collectively known as river herring) in the Susquehanna River and all its tributaries.			
**** Schuylkill River upstream of the I-95 bridge and its tributaries.			
IT IS UNLAWFUL TO fish in, or within 100 feet of, the entrance or exit points of any fishway, including fish ladders and other fish passage facilities.			
Lehigh River inland regulations begin approximately 57 meters below the Easton Dam at the confluence of the Lehigh and Delaware Rivers.			

Table 9. Species occurrence in Sections 1-9 of the Lehigh River from 1977 through 2006 based on stream surveys conducted by the Pennsylvania Fish and Boat Commission. O=Origin: N=Native, I=Introduced

Common Name	Scientific Name	O	Section 2		Section 3		Section 4		Section 5
			1970s	1970s	2000s	1970s	1990s	1970s	
Blacknose Dace	<i>Rhinichthys atratulus</i>	N	X	X	X	X	X	X	X
Bluegill	<i>Lepomis macrochirus</i>	N							
Bluespotted sunfish	<i>Enneacanthus gloriosus</i>	N	X				X		
Brook trout	<i>Salvelinus fontinalis</i>	N			X	X	X		X
Brown bullhead	<i>Ameiurus nebulosus</i>	N	X			X			X
Brown trout	<i>Salmo trutta</i>	I	X	X	X	X	X	X	X
Brown trout – hatchery	<i>Salmo trutta</i>	I					X		
Chain Pickerel	<i>Esox niger</i>	N	X		X				
Common Shiner	<i>Luxilus cornutus</i>	N	X	X		X	X		X
Creek Chubsucker	<i>Erimyzon oblongus</i>	N	X						
Cutlips Minnow	<i>Exoglossum maxillingua</i>	N	X	X	X	X	X		X
Fallfish	<i>Semotilus corporalis</i>	N	X	X		X			
Golden Shiner	<i>Notemigonus crysoleucas</i>	N				X			
Largemouth bass	<i>Micropterus salmoides</i>	I				X	X		
Longnose Dace	<i>Rhinichthys cataractae</i>	N	X	X	X	X	X		X
Margined madtom	<i>Noturus insignis</i>	N	X	X		X	X		X
Pumpkinseed	<i>Lepomis gibbosus</i>	N		X			X		
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I				X	X		
Rainbow trout – golden		I					X		
Redfin Pickerel	<i>Esox americanus</i>	N	X						
Spottial Shiner	<i>Notropis hudsonius</i>	N			X				
Swallowtail Shiner	<i>Notropis procne</i>	N							X
Tessellated Darter	<i>Ethostoma omstedii</i>	N	X			X	X		
White Sucker	<i>Catostomus commersoni</i>	N	X	X		X	X		X
Yellow perch	<i>Perca flavescens</i>	N	X						

Table 9. (Continued) Species occurrence in Section 1-9 of the Lehigh River from 1977 through 2006 based on stream surveys conducted by the Pennsylvania Fish and Boat Commission. O=Origin: N=Native; I=Introduced

Common Name	Scientific Name	O	Section 6			Section 7	
			1970s	1980s	2000s	1980s	2000s
American Eel	<i>Anguilla rostrata</i>	N	X	X	X	X	X
Black Crappie	<i>Pomoxis nigromaculatus</i>	N	X	X		X	
Blacknose Dace	<i>Rhinichthys atratulus</i>	N	X	X		X	
Bluegill	<i>Lepomis macrochirus</i>	N		X	X	X	X
Brown bullhead	<i>Ameiurus nebulosus</i>	N	X	X	X	X	X
Brown trout	<i>Salmo trutta</i>	I	X	X	X	X	X
Brown trout – hatchery	<i>Salmo trutta</i>	I			X		X
Chain Pickerel	<i>Esox niger</i>	N				X	X
Channel Catfish	<i>Ictalurus punctatus</i>	I			X		
Common Carp	<i>Cyprinus carpio</i>	I			X		
Common Shiner	<i>Luxilus cornutus</i>	N	X	X		X	X
Cutlips Minnow	<i>Exoglossum maxillingua</i>	N	X	X		X	X
Fallfish	<i>Semotilus corporalis</i>	N	X	X	X	X	X
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	X	X	X	X	
Goldfish	<i>Carassius auratus</i>	I		X			
Green Sunfish	<i>Lepomis cyanellus</i>	I		X			
Largemouth bass	<i>Micropterus salmoides</i>	I		X	X		
Longnose Dace	<i>Rhinichthys cataractae</i>	N	X	X		X	X
Margined madtom	<i>Noturus insignis</i>	N	X	X	X		
Muskellunge	<i>Esox masquinongy</i>	I					
Pumpkinseed	<i>Lepomis gibbosus</i>	N	X	X		X	X
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I					X
Redbreast Sunfish	<i>Lepomis auritus</i>	N	X	X	X	X	X
Rock Bass	<i>Ambloplites rupestris</i>	I		X	X	X	X
Rosyface Shiner	<i>Notropis rubellus</i>	N			X		X
Sea Lamprey	<i>Petromyzon marinus</i>	N			X		
Shield Darter	<i>Percina peltata</i>	N				X	
Smallmouth bass	<i>Micropterus dolomieu</i>	I	X	X	X		X
Spottail Shiner	<i>Notropis hudsonius</i>	N				X	
Tessellated Darter	<i>Ethostoma omstedti</i>	N	X	X		X	X
Tiger Muskellunge	<i>Esox lucius x e. masquinon</i>	I		X			
White Catfish	<i>Ameiurus catus</i>	N					X
White Sucker	<i>Catostomus commersoni</i>	N	X	X	X	X	X
Yellow perch	<i>Perca flavescens</i>	N	X	X	X	X	

Table 9. (Continued) Species occurrence in Section 1-9 of the Lehigh River from 1977 through 2006 based on stream surveys conducted by the Pennsylvania Fish and boat Commission. O=Origin: N=Native, I=Introduced.

Common Name	Scientific Name	O	Section 8			Section 9		
			1980s	1990s	2000s	1980s	1990s	2000s
American Eel	<i>Anguilla rostrata</i>	N	X	X	X	X	X	X
American Shad	<i>Alosa sapidissima</i>	N		X			X	X
Banded Killifish	<i>Fundulus diaphanous</i>	N						X
Black Crappie	<i>Pomoxis nigromaculatus</i>	N				X		
Blueback Herring	<i>Alosa aestivalis</i>	N						X
Bluegill	<i>Lepomis macrochirus</i>	N	X	X	X	X	X	X
Brook trout	<i>Salvelinus fontinalis</i>	N						X
Brook trout – hatchery	“	N				X		X
Brown bullhead	<i>Ameiurus nebulosus</i>	N	X			X	X	X
Brown trout	<i>Salmo trutta</i>	I						X
Brown trout – hatchery	<i>Salmo trutta</i>	I			X			X
Chain Pickerel	<i>Esox niger</i>	N	X			X		X
Channel Catfish	<i>Ictalurus punctatus</i>	I					X	X
Common Carp	<i>Cyprinus carpio</i>	I	X	X	X	X	X	X
Common Shiner	<i>Luxilus cornutus</i>	N	X		X	X		X
Cutlips Minnow	<i>Exoglossum maxillingua</i>	N	X		X	X		X
Fallfish	<i>Semotilus corporalis</i>	N	X	X		X		X
Gizzard Shad	<i>Dorosoma cepedianum</i>	I						X
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	X			X		X
Goldfish	<i>Carassius auratus</i>	I				X		
Green Sunfish	<i>Lepomis cyanellus</i>	I						X
Margined Madtom	<i>Noturus insignis</i>	N			X			X
Largemouth bass	<i>Micropterus salmoides</i>	I	X			X	X	X
Muskellunge	<i>Esox masquinongy</i>	I	X				X	
Pumpkinseed	<i>Lepomis gibbosus</i>	N	X	X	X	X	X	X
Quillback	<i>Carpionodes cyprinus</i>	N						X
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I			X			X
Redbreast Sunfish	<i>Lepomis auritus</i>	N	X		X	X		X
Rock Bass	<i>Ambloplites rupestris</i>	I	X		X	X	X	X
Satinfin Shiner	<i>Cyprinella anolostana</i>	N					X	X
Sea Lamprey	<i>Petromyzon marinus</i>	N			X			X
Shield Darter	<i>Percina peltata</i>	N					X	X
Smallmouth bass	<i>Micropterus dolomieu</i>	I		X	X	X	X	X
Spottial Shiner	<i>Notropis hudsonius</i>	N	X			X		
Striped Bass	<i>Morone saxatilis</i>	N						X
Tessellated Darter	<i>Ethostoma omstedti</i>	N	X		X		X	X
Tiger Muskellunge	<i>Esox lucius x e. masquinon</i>	I				X	X	
Walleye	<i>Sander vitreus</i>	I				X	X	X
White Sucker	<i>Catostomus commersoni</i>	N	X	X	X	X	X	X
Yellow Bullhead	<i>Ameiurus natalis</i>	N	X					X
Yellow Perch	<i>Perca flavescens</i>	N					X	X

Table 10. Species occurrence in tributaries of the Lehigh River in Subsubbasins 2A, 2B, and 2C (MAP) of the Lehigh River from 1977 through 2006 based on stream surveys conducted by the Pennsylvania Fish and Boat Commission. A¹ – upstream of FE Walter Reservoir. A² – downstream of FE Walter Dam. O=Origin: N=Native, I=Introduced, C=Candidate of Concern.

Common Name	Scientific Name	O	A ¹	Subsubbasin		
				A ²	B	C
American Eel	<i>Anguilla rostrata</i>	N		X	X	X
Banded Killifish	<i>Fundulus diaphanous</i>	N				X
Black Crappie	<i>Pomoxis nigromaculatus</i>	N				
Blacknose Dace	<i>Rhinichthys atratulus</i>	N	X	X	X	X
Bluegill	<i>Lepomis macrochirus</i>	N	X	X	X	X
Bluespotted Sunfish	<i>Enneacanthus gloriosus</i>	N	X	X	X	
Bluntnose Minnow	<i>Pimephales notatus</i>	N	X			X
Brook trout	<i>Salvelinus fontinalis</i>	N	X	X	X	X
Brook trout – hatchery		N	X	X	X	X
Brown bullhead	<i>Ameiurus nebulosus</i>	N	X	X	X	
Brown trout	<i>Salmo trutta</i>	I	X	X	X	X
Brown trout – hatchery	<i>Salmo trutta</i>	I	X	X	X	X
Central Stoneroller	<i>Campostoma anomalum</i>	N		X		
Chain Pickerel	<i>Esox niger</i>	N	X	X	X	X
Channel Catfish	<i>Ictalurus punctatus</i>	I			X	X
Comely Shiner	<i>Notropis amoenus</i>	N				X
Common Carp	<i>Cyprinus carpio</i>	I				X
Common Shiner	<i>Luxilus cornutus</i>	N	X	X	X	X
Creek Chub	<i>Semotilus atromaculatus</i>	N	X	X	X	X
Creek Chubsucker	<i>Erimyzon oblongus</i>	N	X		X	X
Cutlips Minnow	<i>Exoglossum maxillingua</i>	N	X	X	X	X
Fallfish	<i>Semotilus corporalis</i>	N	X	X	X	X
Fourspine Stickleback	<i>Apeletes quadracus</i>	N				X
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	X	X	X	X
Goldfish	<i>Carassius auratus</i>	I			X	X
Green Sunfish	<i>Lepomis cyanellus</i>	I			X	X
Greenside Darter	<i>Etheostoma blennioides</i>	N				X
Hornyhead Chub	<i>Nocomis biguttatus</i>	C				
Largemouth bass	<i>Micropterus salmoides</i>	I	X	X	X	X
Longear Sunfish	<i>Lepomis megalotis</i>	C				
Longnose Dace	<i>Rhinichthys cataractae</i>	N	X	X	X	X

Table 10. (Continued) Species occurrence in tributaries of the Lehigh River in Subsub-basins 2A, 2B, and 2C of the Lehigh River from 1977 through 2006 based on stream surveys conducted by the Pennsylvania Fish and Boat Commission. A¹ – upstream, of FE Walter Reservoir. A² – downstream of FE Walter Dam. O=Origin: N=Native, I=Introduced, E=Endangered.

Common Name	Scientific Name	O	Subsubbasin			
			A ¹	A ²	B	C
Madtoms	<i>Noturus sp.</i>				X	X
Margined Madtom	<i>Noturus insignis</i>	N	X	X	X	X
Mottled Sculpin	<i>Cottus bairdi</i>	I				X
Northern Hog Sucker	<i>Hypentelium nigricans</i>	N				X
Pearl Dace	<i>Margariscus margarita</i>	N				X
Pumpkinseed	<i>Lepomis gibbosus</i>	N	X	X	X	X
Rainbow trout	<i>Oncorhynchus mykiss</i>	I				X
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I		X	X	X
Rainbow trout – golden		I	X	X	X	X
Redbreast Sunfish	<i>Lepomis auritus</i>	N			X	X
Redear Sunfish	<i>Lepomis microlophus</i>	I				X
Redfin Pickerel	<i>Esox americanus</i>	N	X	X	X	X
Rock Bass	<i>Ambloplites rupestris</i>	I			X	X
Satinfin Shiner	<i>Cyprinella anolostana</i>	N			X	X
Sea Lamprey	<i>Petromyzon marinus</i>	N			X	
Shield Darter	<i>Percina peltata</i>	N	X			X
Sculpins	<i>Cottus sp</i>				X	
Slimy Sculpin	<i>Cottus cognatus</i>	N		X	X	X
Smallmouth bass	<i>Micropterus dolomieu</i>	I			X	X
Spotfin Shiner	<i>Cyprinella spiloptera</i>	N			X	
Spottial Shiner	<i>Notropis hudsonius</i>	N		X	X	X
Stonecat	<i>Noturus flavus</i>	I				X
Swallowtail Shiner	<i>Notropis procne</i>	N				X
Tessellated Darter	<i>Ethostoma omstedti</i>	N	X	X	X	X
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	E				
Tiger Trout	<i>Tiger Trout</i>	I				X
White Sucker	<i>Catostomus commersoni</i>	N	X	X	X	X
Yellow Bullhead	<i>Ameiurus natalis</i>	N	X		X	
Yellow perch	<i>Perca flavescens</i>	N	X	X	X	

Table 11. Total catch by 25 mm (in) length groups (LG) of various species caught by day boat electrofishing in Section 6 of the Lehigh River on 16 October 2006 along the shoreline (0.79 hrs) and in the center (0.32 hrs) of the river at RM 76.30 (USGS Gaging Station Pool downstream of Francis E. Walter Dam. SMB=Small-mouth bass; BT=Brown trout; BT-H=Brown trout – Hatchery; BG=Bluegill; RBSF=Redbreast sunfish; RB=Rock Bass, CC=Channel catfish; YP=Yellow perch; and FF=Fallfish.

LG		Shoreline Boat Electrofishing Catch											
25 mm	(in)	SMB	BT	BT-H	BG	RBSF	RB	BBH	CC	YP	CARP	WSKR	FF
75	3		2							2			2
100	4	4	4			2				1		1	10
125	5	10	2			4	2		1	12		1	10
150	6	3			3	4	1		0	6		0	1
175	7	4			3	1	4	3	0	1		0	7
200	8	0						2	0	0		5	6
225	9	0						2	1	1		1	
250	10	2		4				1				0	
275	11	0		4								2	
300	12	1										3	
325	13											1	
350	14											3	
375	15											1	
400	16											3	
425	17											0	
450	18											1	
Total		24	8	8	6	11	7	8	2	13	1	22	36
Center of River													
100	4												1
125	5	1	1	1									
150	6		0	0				2					
175	7		0	0				0					
200	8		1	0			1	1					
225	9		0	0									
250	10		1	10									
275	11		4	13								2	
300	12			3								1	
325	13											1	
350	14											3	
375	15											8	
400	16											4	
425	17											6	
450	18											1	
Total		1	7	27	0	0	1	3	0	0	0	26	1

Table 12. (Continued) Total catch by 25 mm (in) length groups (LG) of various species caught by night boat electrofishing in Section 7 of the Lehigh River at RM 49.78 (Glen Onoko Pool, September 27 and October 25), and RM 40.00 (Bowmanstown Pool, October 2) in 2006 during 0.81, 0.97, and 0.44 hours of night boat electrofishing along the shoreline. SMB=Smallmouth bass; BT=Brown trout; BT-H=Brown trout-Hatchery; Rainbow trout -Hatchery; ST=Brook trout; TT=Tiger trout; BG=Bluegill; RBSF=Redbreast sunfish; PPS=Pumpkinseed; RB=Rock bass; CP=Chain pickerel; YP=Yellow perch; and FF=Fallfish.

RM 40.00 (Bowmanstown Pool - October 2, 2006)

LG		SMB	BT	BT-H	RT-H	ST	TT	BG	RBSF	RB	PPS	BBH	CP	YP	CARP	WSKR	FF
25 mm	(in)																
50	2							1	1								1
75	3							1	10	10	1						0
100	4	3						1	1	15	0						1
125	5	18						2	9	4	1						5
150	6	8						5	23	5							2
175	7	16						1	7	0							0
200	8	5						1		3							2
225	9	3															0
250	10	2														1	0
275	11	4														0	1
300	12	1														2	1
325	13	1														2	0
350	14			1									1			3	1
375	15															1	
400	16															4	
425	17				1											2	
450	18															2	
475	19															4	
Total		61	0	1	1	0	0	12	51	37	2	0	1	0	0	21	15

Table 13. Total catch by 25 mm (in) length groups (LG) of various species caught by night boat electrofishing in Section 7 of the Lehigh River at RM 49.79 (Glen Onoko Pool, September 27), and RM 40.01 (Bowmanstown Pool, October 2) in 2006 during 0.22 and 0.24 hours of nightboat electrofishing in the center of the river. SMB=Smallmouth bass; BT=Brown trout; BT-H=Brown trout-Hatchery; BG=Bluegill; RBSF=Redbreast sunfish; RB=Rock Bass, CC= Channel catfish; YP=Yellow perch; and FF=Fallfish.

RM 49.78 (Glen Onoko Pool)													
LG		SMB	BT	BT-H	BG	RBSF	RB	BBH	CC	YP	CARP	WSKR	FF
25 mm	(in)												
275	11	1											
300	12			1								1	
325	13			1								0	
350	14											0	
375	15											0	
400	16											0	
425	17											0	
450	18											0	
475	19											1	
Total		1	0	2							0	2	0
40.01 (Bowmanstown Pool)													
125	5												1
150	6												0
175	7	1											0
200	8	1											1
225	9		1										
250	10		0										
275	11		1									1	
300	12		1									1	
325	13											2	
350	14											0	
375	15											0	
400	16											0	
425	17											1	
450	18											1	
Total		2	3	0	0	0	0	0			0	6	2

Table 14. Total catch by 25 mm (in) length groups (LG) of various species caught by night Section 8 of the Lehigh River at RM 24.10 (Northampton Dam Pool) on October 5, 2006 during 0. 57 hours of nightboat electrofishing along the shoreline. SMB=Smallmouth bass; BT=Brown trout; BT -H=Brown trout-Hatchery; Rainbow trout-Hatchery; ST=Brook trout; TT=Tiger trout; BG=Bluegill; RBSF=Redbreast sunfish; PPS=Pumpkinseed; RB=Rock bass; CC=Channel catfish; YP=Yellow perch; and FF=Fallfish.

LG		RM 24.10 (Northampton Dam Pool)															
25 mm	(in)	SMB	BT	BT-H	RT-H	ST	TT	BG	RBSF	RB	PPS	BBH	CC	YP	CARP	WSKR	FF
50	2								1								
75	3								3								
100	4	2						1	5	2	1						
125	5	35							1	4							
150	6	22							5	1							
175	7	18							11	1							
200	8	7							7	2							
225	9	1															
250	10	1	1														
275	11	4															
300	12	2			1												
325	13	2															
350	14																
375	15																
400	16																
425	17																
450	18																
550	19												1				
Total		94	1	0	1	0	0	1	33	10	1	0	1	0	3	1	0

Table 15. Assessment of smallmouth bass *Micropterus dolomieu* catch and CPUE (#/hr) by 25 mm (in) length groups (LG) in Section 9 of the Lehigh River at RM 17.01 (SR 22) Bridge downstream 3.06 km to the Hamilton Street Dam; 1986-1992), and RM 15.01 (Head of Canal Park Pool downstream 2.3 km (1.4 mi) to the tip of Sterner Island; 1986-1994). NS – Not Surveyed.

		RM 17.01																	
		Sampling Year																	
Effort (hrs)		1986		1987		1988		1989		1990		1991		1992		1993		1994	
LG		4.60		1.04		0.56		1.30		2.00		NS		1.10		NS		NS	
		Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE
25																			
mm	(in)																		
50	2	2	0.43	0	...	6	10.71												
75	3	0	...	5	6.77	6	10.71												
100	4	1	0.22	15	14.42	0	...							3	2.73				
125	5	7	1.52	1	0.96	15	26.79			2	1.00			0	...				
150	6	5	1.09	1	0.96	8	14.29			2	1.00			0	...				
175	7	4	0.87	0	...	0	...			4	2.00			1	0.91				
200	8	4	0.87	0	...	0	...			1	0.50			2	1.82				
225	9	3	0.65	1	0.96	0	...			1	0.50			1	0.91				
250	10	5	1.09	1	0.96	0	...							1	0.91				
275	11			0	...	1	1.79												
300	12			1	0.96														
Total		31	6.74	30	28.84	36	64.29	0	...	10	5.00	.	...	8	7.28				
≥225 mm																			
(≥9 in)		8	1.74	3	2.78	1	1.79	0	...	1	0.50	.	...	2	1.82				
≥300 mm																			
(≥12 in.)		0	...	1	0.96	0	...	0	...	0	...	.	...	0	...				
Mean YOY																			
Catch																			
Per 50m																			
Shoreline		...		0.5		1.2		0.3		1.0		3.8		0.0		6.5		0.3	

Table 15. (Continued). Assessment of smallmouth bass *Micropterus dolomieu* catch and CPUE (#/hr) by 25 mm (in) length groups (LG) in Section 9 of the Lehigh River at RM 17.01 (SR 22 Bridge downstream km (1.9 mi) to the Hamilton Street Dam; 1986-1992) and RM 15.02 (Head of Canal Park Pool downstream 2.3 km (1.4 mi) to the tip of Sterner Island; 1986-1994). NS – Not Surveyed

Effort (hrs)	RM 15.02																				
	Sampling Year																				
LG	1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		
25 mm (in)	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	C	CPUE	
50	2				5	10.00															
75	3		10	7.69	0	...					2	1.00									
100	4	3	1.25	12	9.23	1	2.00				2	1.00	2	1.82							
125	5	20	8.33	10	7.69	6	12.00				0	...	3	2.73			1	0.67			
150	6	4	1.67	2	1.54	9	18.00				0	...	1	0.91			1	0.67	2	1.33	
175	7	2	0.83	0	...	2	4.00	1	0.34		1	0.50	0	...			0	...	2	1.33	
200	8	2	0.83	1	0.77			1	0.34		0	...	0	...	1	0.91	1	0.67	3	2.00	
225	9	2	0.83	0	...						0	...	0	...	1	0.91	1	0.67	6	4.00	
250	10			0	...						0	...	0	...			1	0.67	1	0.67	
275	11			0	...						1	0.50	0	...					1	0.67	
300	12			1	0.77								0	...					0	...	
325	13												1	0.91					1	0.67	
Total		33	13.74	36	27.69	23	46.00	2	0.68	0	...	6	3.00	7	6.37	2	1.82	5	3.35	16	10.67
≥225 mm (≥9 in)		2	0.83	1	0.77	0	...	0	...	0	...	1	0.50	1	0.91	1	0.91	2	1.34	9	6.21
≥300 mm (≥12 in.)		0	...	1	0.77	0	...	0	...	0	...	0	...	1	0.91	0	...	0	...	1	0.67
Mean YOY Catch Per 50m Shoreline		...		1.7		6.3		0.8		7.0		3.3		0.3		20.8		2.2		5.0	

Table 17. Total Catch by 25 mm (in) Length Groups (LG) of various species caught by night Section 9 of the Lehigh River at RM 22.65 (Hokendauqua Creek Pool, October 5), RM 15.02 (Canal Park Pool, October 3), and RM 3.92 (PFBC RTE 33 Access Pool, October 4) in 2006 during 0.63, 1.03, and 1.02 hours of night boat electrofishing along the shoreline. SMB=Smallmouth bass; BT=Brown trout; BT-H=Brown trout- Hatchery; RT-H=Rainbow trout-Hatchery; BG=Bluegill; RBSF=Redbreast sunfish; RB=Rock bass; PPS=Pumpkinseed; CC=Channel catfish; MKY=Muskellunge; CP=Chain pickerel; YP=Yellow perch; CARP=Common carp; WSKR=White sucker; and FF=Fallfish.

RM 22.65 (Hokendauqua Creek Pool - October 5, 2006)

LG		SMB	BT	BT-H	RT-H	BG	RBSF	RB	PPS	CC	MKY	CP	YP	CARP	WSKR	FF
25 mm	(in)															
50	2						1									
75	3					1	1									
100	4					0	0	5								
125	5	17				0	3	3								
150	6	14				1	24	4								3
175	7	5					26	3								5
200	8	6					1	1								1
225	9	4													2	12
250	10	2													1	12
275	11	0													10	7
300	12	0	1		1										6	3
325	13	1			0										1	1
350	14	0			1										20	0
375	15	1													26	2
400	16														11	
425	17														21	
450	18														27	
475	19														3	
500	20														6	
525	21	2													2	
Total		53	1	0	2	2	56	16	0	0	0	0	0	6	136	46

RM 15.02 (Canal Park Pool, October 3, 2006)

50	2					1										1
75	3					0	5	2								0
100	4	8				5	3	10								0
125	5	40					11	3								4
150	6	33					6									29
175	7	11					1									21
200	8	4								1					8	5
225	9	4													8	2
250	10	1													16	
275	11														0	
300	12														0	
325	13														0	
350	14														0	
375	15														0	
400	16														0	
425	17														4	
450	18														8	
475	19														23	
500	20														58	
525	21														16	
550	22														8	
Total		101	0	0	0	6	26	15	0	0	1	01	0	37	149	62

Table 17. (Continued) Total catch by 25 mm (in) Length Groups (LG) of various species caught by night Section 9 of the Lehigh River at RM 22.65 (Hokendauqua Creek Pool, October 5), RM 15.02 (Canal Park Pool, October 3), and RM 3.92 (PFBC RTE 33 Access Pool, October 4) in 2006 during 0.63, 1.03, and 1.02 hours of night boat electrofishing along the shoreline. SMB=Smallmouth bass; BT=Brown trout; BT-H=Brown trout-Hatchery; RT-H=Rainbow trout-Hatchery; ST=Brook trout; TT=Tiger trout; BG=Bluegill; RBSF=Redbreast sunfish; RB=Rock bass; PPS=Pumpkinseed; CC=Channel catfish; MKY=Muskellunge; CP=Chain pickerel; YP=Yellow perch; WSKR=White sucker and FF=Fallfish.

RM 3.92 (PFBC RTE 33 Access Pool - October 4, 2006)

LG		SMB	BT	BT-H	RT-H	BG	RBSF	RB	PPS	CC	MKY	CP	YP	CARP	WSKR	FF
25 mm	(in)															
50	2															
75	3						2	3								
100	4	1				1	3	17	6							
125	5	10					7	5	1							1
150	6	2					13	1	3							3
175	7	3					16	0	1							
200	8						2	2								
225	9							0								
250	10							1							1	
275	11														3	
300	12														6	
325	13												1		2	
350	14														1	
375	15														0	
400	16											1			1	
425	17											0			6	
450	18											0			7	
475	19											0			6	
500	20											0			7	
525	21									1		0			1	
550										0		1				

625	25									1						
Total		16	0	0	0	1	43	29	11	2	0	2	1	7	41	4

Table 18. Fishes that have been observed (video taped) migrating through the Easton (RM 0.00; 1994-2006) and Chain (RM 3.00; 1996 2006) Dam fishways in the Lehigh River. ^aIn 1994 only American shad were counted.

Fish Species/Type	Easton Dam Fishway												
	American Shad Spawning Run Year												
	Pre-Fishway Modification						Post-Fishway Modification						
	1994 ^a	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005***	2006
American shad	87	873	1141	1428	3293	2346	2094	4740	3314	422	754	675	2023
Gizzard shad		51	23	15	45	1263	337	392	121	6	16	21	720
Herring sp.		0	0	0	0	0	0	0	0	0	0	22	0
Striped bass		19	5	1	0	0	0	0	1	0	1	3	1
American eel		1	4	*	2*	4*	1*	*	12*	*	1*	35	20*
Sea lamprey		6	27	38	22	181	253	894	490	233	6936	1882	1366
Trout		109	43	79	193	111	231	267	309	75	199	313	282
Muskellunge		9	6	1	0	3	10	8	7	2	11	3	2
Chain pickerel		0	0	0	0	2	0	0	0	0	0	0	0
Walleye		3	2	0	1	1	0	1	2	0	1	37	0
Yellow perch		2	31	2	0	2	0	3	1	0	0	1	6
Bass		303	348	218	483	358	1149	377	584	221	147	161	1026
Sunfish		368	289	130	210	140	1214	504	346	77	83	225	893
Crappie		0	2	2	0	0	0	0	0	0	0	0	0
Carp		338	1386	274	497	353	732	651	726	558	437	679	1322
Quillback		-	-	-	11	9	17	21	22	8	24	26	34
Catfish		284	503	330	268	237	790	367	381	122	262	340	830
Minnows/Fallfish		0	4	11	63	221	67	279	109	66	351	258	257
Golden shiner		0	2	0	0	0	0	0	0	0	0	0	0
Sucker		1718	1607	435	209	2019	573	2292	1156	1867	3797	688	2549
Total	87	4041	5423	2964	5297	7250	7468	10796	7581	3657	13021	5369	11341

*No attempts were made to count elvers.

***Video Taping began on April 23, delay due to aftermath cleanup from the flood of April 2-4, 2005.

Table 18. (Continued). Fishes that have been observed (video taped) migrating through the Easton (RM 0.00; 1994-2006) and Chain (RM 3.00; 1996-2003, 2005-2006) Dam fishways in the Lehigh River. ^a1994 only American shad were counted.

Chain Dam Fishway											
Fish Species/Type	Pre-Fishway Modification					Post-Fishway Modification					
	1996	1997	1998	1999	2000	2001	2002	2003	2004**	2005***	2006
American shad	496	126	694	479	645	2057	1479	40	.	324	588
Percent of Easton's Passage	43.5	8.8	21.1	20.4	30.8	43.4	44.6	9.5	.	48.0	29.1
Gizzard shad	39	11	15	958	307	416	72	3	.	38	383
Striped bass	2	0	0	0	0	0	0	0	.	0	0
American eel	34	*	32*	*	13*	*	80*	5*	.	401	30*
Sea lamprey	7	2	1	165	58	570	1321	163	.	2346	4194
Trout	96	119	238	220	318	205	321	106	3	352	124
Muskellunge	1	1	0	1	4	0	2	2	.	4	6
Chain pickerel	0	0	0	0	0	0	0	0	.	0	0
Walleye	1	0	0	0	0	1	0	4	.	54	13
Yellow perch	90	10	5	19	75	59	2	0	.	10	0
Bass	557	389	823	765	1572	575	876	298	.	221	824
Sunfish	828	329	456	395	1409	1089	850	215	.	605	617
Crappie	0	6	0	0	0	0	0	0	.	0	0
Carp	1343	153	158	1201	137	193	244	138	.	266	247
Quillback	-	-	0	0	0	0	0	0	.	0	2
Catfish	545	427	279	215	592	318	210	93	.	184	337
Minnnows/Fallfish	182	27	565	1079	1280	320	158	84	.	793	245
Golden shiner	6	0	2	0	0	0	0	0	.	0	0
Sucker	2899	852	326	2417	922	1143	621	1227	254	1741	1621
Total	7126	2452	3594	7914	7332	6946	6236	2378	257	7339	9231

**Video Taping occurred from March 29 – April 1; taping did not occur after April 1 due to equipment failure.

***Video Taping began on April 23, delay due to aftermath cleanup from the Flood of April 2-4, 2005.

Table 19. Species occurrence in lakes contained within Subsubbasins A and B of the Lehigh River (MAP) that were managed by the Pennsylvania Fish and Boat Commission from the 1970s to 2006. NLS – No Longer Stocked. O=Origin: N=Native, I=Introduced, C=Candidate of Concern. Currently Bradys Lake and Gouldsboro Lake are dewatered.

Common Name	Scientific Name	O	A				B	
			Francis E Walter Reservoir	Goulds- boro Lake	Tributary Basin Impounded Waters		Mauch Chunk Lake	Beltz- ville Lake
					Toby- hanna Lake	Bradys Lake		
Alewife	<i>Alosa pseudoharengus</i>	I						X
Black Crappie	<i>Pomoxis nigromaculatus</i>	N	X	X		X	X	X
Bluegill	<i>Lepomis macrochirus</i>	N	X	X		X	X	X
Bluntnose Minnow	<i>Pimephales notatus</i>	N						X
Bluespotted Sunfish	<i>Ennaecanthus gloriosus</i>	N			X	X		
Brook Trout – hatchery	<i>Salvelinus fontinalis</i>	N			X		X	
Brown bullhead	<i>Ameiurus nebulosus</i>	N			X	X	X	X
Brown trout	<i>Salmo trutta</i>	I						X
Brown trout – hatchery	<i>Salmo trutta</i>	I						X
Chain Pickerel	<i>Esox niger</i>	N		X	X	X	X	X
Channel Catfish	<i>Ictalurus punctatus</i>	I					X	X
Common Carp	<i>Cyprinus carpio</i>	I	X			X		X
Common Shiner	<i>Luxilus cornutus</i>	N		X				X
Creek Chubsucker	<i>Erimyzon oblongus</i>	N		X		X		
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	X	X	X	X	X	X
Green Sunfish	<i>Lepomis cyanellus</i>	I					X	X
Lake Trout	<i>Salvelinus namaycush</i>	I						NLS
Largemouth bass	<i>Micropterus salmoides</i>	I	X	X	X	X	X	X
Longear Sunfish	<i>Lepomis megalotis</i>	N						X
Muskellunge	<i>Esox masquinongy</i>	C						X
Pumpkinseed	<i>Lepomis gibbosus</i>	N	X	X	X	X	X	X
Rainbow Smelt	<i>Osmerus mordax</i>	I						NLS
Rainbow Trout – hatchery	<i>Oncorhynchus mykiss</i>	I						X
Rainbow Trout – golden		I						X
Redbreast Sunfish	<i>Lepomis auritus</i>	N						X
Redfin Pickerel	<i>Esox americanus</i>	N				X		
Rock Bass	<i>Ambloplites rupestris</i>	I					X	X
Satinfin Shiner	<i>Cyprinella anolostana</i>	N						X
Smallmouth bass	<i>Micropterus dolomieu</i>	I	X				X	X
Spottail Shiner	<i>Notropis hudsonius</i>	N						X
Striped Bass	<i>Morone saxatilis</i>	N						X
Tiger Muskellunge	<i>Esox lucius x e. masquinon</i>	I		X		NLS	NLS	X
Walleye	<i>Sander vitreus</i>	I		X			X	X
White X Striped Bass	<i>Morone Americana X m. Saxa</i>	I						X
White Sucker	<i>Catostomus commersoni</i>	N	X		X		X	X
Yellow Bullhead	<i>Ameiurus natalis</i>	N		X	X	X	X	X
Yellow perch	<i>Perca flavescens</i>	N	X	X	X	X	X	X

Table 20. Species occurrence in Sections 3-4, 5, and 7-9 of the Lehigh Canal in Subsubbasins 2B and 2C from 1977 through 2006 based on fish surveys conducted by the Pennsylvania Fish and Boat Commission. O=Origin: N=Native, I=Introduced.

Common Name	Scientific Name	O	Subsubbasin					
			B		C			
			3	4	Section			
5	7	8	9					
American Eel	<i>Anguilla rostrata</i>	N	X		X	X	X	X
Banded Killifish	<i>Fundulus diaphanous</i>	N				X		
Black Crappie	<i>Pomoxis nigromaculatus</i>	N	X		X	X	X	X
Bluegill	<i>Lepomis macrochirus</i>	N	X	X	X	X	X	X
Brook trout	<i>Salvelinus fontinalis</i>	N	X					
Brown bullhead	<i>Ameiurus nebulosus</i>	N	X		X	X	X	
Brown trout	<i>Salmo trutta</i>	I			X			
Brown trout – hatchery	<i>Salmo trutta</i>	I	X					
Chain Pickerel	<i>Esox niger</i>	N	X		X		X	
Channel Catfish	<i>Ictalurus punctatus</i>	I	X		X			
Common Carp	<i>Cyprinus carpio</i>	I			X	X	X	X
Common Shiner	<i>Luxilus cornutus</i>	N	X		X			
Creek Chubsucker	<i>Erimyzon oblongus</i>	N	X		X	X	X	
Fallfish	<i>Semotilus corporalis</i>	N	X					
Golden Shiner	<i>Notemigonus crysoleucas</i>	N	X		X			
Goldfish	<i>Carassius auratus</i>	I				X	X	X
Green Sunfish	<i>Lepomis cyanellus</i>	I				X	X	
Largemouth bass	<i>Micropterus salmoides</i>	I	X		X	X	X	X
Pumpkinseed	<i>Lepomis gibbosus</i>	N	X	X	X	X	X	X
Rainbow trout - hatchery	<i>Oncorhynchus mykiss</i>	I	X		X			
Rock Bass	<i>Ambloplites rupestris</i>	I	X					
Smallmouth bass	<i>Micropterus dolomieu</i>	I			X	X	X	
Walleye	<i>Sander vitreus</i>	I					X	
White Sucker	<i>Catostomus commersoni</i>	N	X		X	X	X	X
Yellow Bullhead	<i>Ameiurus natalis</i>	N		X				
Yellow perch	<i>Perca flavescens</i>	N	X		X			X

Table 21. Number of marked (oxytetracycline solution; OTC) American shad *Alosa sapidissima* fry stocked annually in the Lehigh River immediately upstream of the Northampton Dam (RM 24.0) from 1985-2006.

Year	Number Stocked
2006	293,083
2005	668,792
2004	366,414
2003	783,013
2002	85,025
2001	675,625
2000	447,900
1999	501,000
1998	948,000
1997	1,247,000
1996	993,000
1995	1,044,000
1994	642,000
1993	790,000
1992	353,000
1991	793,000
1990	2,088,000
1989	833,000
1988	340,400
1987	491,000
1986	550,000
1985	600,000

Table 22. Listing of public boat access points on the Lehigh River. These access points range from unimproved ramps to improved ramps that allow boats to be launched from trailers. Source: WildlandsPA.org

Access points	Fishing	Rafting Access	Trailer Access	Ownership
White Haven	X	X		DCNR
Rockport	X	X		DCNR
Glen Onoko	X	X		DCNR
Jim Thorpe	X	X		Municipal
Parryville	X	X		Municipal
West Bowmans	X	X	X	Municipal
Lehigh Gap	X	X		Municipal
Walnutport	X	X		Municipal
Treichlers Bridge	X	X		Municipal
Laurys Station	X	X		Municipal
Cementon	X	X		Private
Catasauqua	X	X		Municipal
Kimmetts Lock	X	X	X	Municipal
Allentown Canal Park	X	X	X	Municipal
Sand Is., Bethlehem	X	X		Municipal
Freemansburg	X	X		Municipal
Wilson Ave.	X	X		Municipal
Rt 33	X	X	X	PFBC
Hugh Moore Park	X	X	X	Municipal
Easton	X	X	X	Municipal