

From: D.M. Carlson and R.A. Daniels. 2004. Status of Fishes in New York: Increases, Declines and Homogenization of Watersheds. *The American Midland Naturalist*. 152(1): 104–139.

Appendix 1. Distribution of fishes of New York by watershed (Fig. 1 – see below) and period of capture. The periods of capture are: 1=collected or reported before 1940 2=collected or reported between 1940 and 1987 3=collected or reported after 1987. Frequency of occurrence refers to the number of times the taxon was reported in the databases of New York State Conservation Department 1926-87 as listed in Table 1. Extra-limital exotic species are in bold.

Name	Allegheny	Chemung	Susquehanna	Delaware	Erie-Niagara	Genesee	Lake Ontario	Oswego	Black	Oswegatchie	Raquette	St. Lawrence	St. Lawrence Canada	Lake Champlain	Upper Hudson	Mohawk	Lower Hudson	Newark Bay	Long Island	Frequency of occurrence	Watersheds	
<i>Ichthyomyzon bdellium</i> Ohio lamprey	23												23	23							23	1
<i>Ichthyomyzon fossor</i> northern brook lamprey					123								23	23							17	3
<i>Ichthyomyzon greeleyi</i> mountain brook lamprey	123																				8	1
<i>Ichthyomyzon unicuspis</i> silver lamprey					13		13			3	1	13	3	123	<b>12</b>		<b>2</b>				18	9
<i>Lampetra appendix</i> American brook lamprey	123				123	23	123	123				3	23	23			12		23		178	10
<i>Petromyzon marinus</i> sea lamprey			1	123	<b>23</b>		123	123	3m	1	3m	13	123	123	<b>2</b>		123		123		335	14
<i>Acipenser brevirostrum</i> shortnose sturgeon																	123				60	1
<i>Acipenser fulvescens</i> lake sturgeon					123	1m	123	123		123	13	123	2m	13		<b>3</b>					35	10
<i>Acipenser oxyrinchus</i> Atlantic sturgeon				1													123				39	2
<i>Polyodon spathula</i> paddlefish	1																				<10	1
<i>Lepisosteus osseus</i> longnose gar	123				123	23m	123	123		123	3m	123	1m	123			<b>3</b>				240	11
<i>Amia calva</i> bowfin				<b>23</b>	123	23m	123	123		123	13m	123		12			<b>23</b>				237	10
<i>Hiodon tergisus</i> mooneye	1				13		1			123		12		123							25	6
<i>Anguilla rostrata</i> American eel	2	12	123	123	<b>123</b>	123	123	123	123	123	23	123	123	12	123	123	123	12	123	123	2873	19
<i>Alosa aestivalis</i> blueback herring							<b>3</b>	<b>3</b>				<b>3</b>		<b>23</b>	2	<b>123</b>	123		13		914	8
<i>Alosa pseudoharengus</i> alewife		<b>123</b>	<b>123</b>	<b>23</b>	<b>123</b>	<b>23</b>	123	<b>123</b>				123		<b>23</b>	<b>123</b>	<b>123</b>	123	<b>3</b>	123		2077	15
<i>Alosa mediocris</i> hickory shad																	123				13	1
<i>Alosa sapidissima</i> American shad		1	1	123											12	1m	123		1		797	7
<i>Dorosoma cepedianum</i> gizzard shad	<b>3</b>	<b>3</b>	<b>3</b>	<b>23</b>	123	23	123	123				23		<b>3</b>	<b>2</b>	<b>23</b>	<b>23</b>		<b>123</b>		601	14
<i>Anchoa mitchilli</i> bay anchovy																	123		123		<100	2
<i>Campostoma anomalum</i> central stoneroller	123	123	123	<b>23</b>	123	123	123	123				<b>23</b>			<b>2</b>	<b>23</b>	<b>23</b>				3917	12
<i>Carassius auratus</i> goldfish	<b>123</b>	<b>123</b>	<b>23</b>	<b>3</b>	<b>123</b>	<b>23</b>	<b>123</b>	<b>23</b>				<b>2</b>		<b>2</b>	<b>23</b>	<b>123</b>	<b>123</b>	<b>12</b>	<b>123</b>		<b>970</b>	<b>15</b>
<i>Clinostomus elongatus</i> reddsie dace	123	123	123		123	123	123	123	123	123							123				1323	10
<i>Couesius plumbeus</i> lake chub				123			12	1	123	123	123	123	123	123	123	123					232	11
<i>Ctenopharyngodon idella</i> grass carp					<b>3</b>				<b>3</b>								<b>3</b>		<b>3</b>		<b>&gt;100</b>	<b>4</b>
<i>Cyprinella analostana</i> satinfish shiner		12	123	123				123	<b>13</b>						2	123	123	2			489	9
<i>Cyprinella spiloptera</i> spotfin shiner	123	123	123	13	123	123	123	123	12	3	1	13	13	123	123	123	123				867	17
<i>Cyprinus carpio</i> common carp	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>23</b>	<b>13</b>	<b>123</b>	<b>23</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>2797</b>	<b>19</b>
<i>Erimystax dissimilis</i> streamline chub	123																				48	1
<i>Erimystax x-punctatus</i> gravel chub	12																				4	1
<i>Exoglossum laurae</i> tonguetied minnow	123					123															170	2
<i>Exoglossum maxillingua</i> cutlip minnow		123	123	123		123	123	123	123	123	123	123	123	123	123	123	123	123			4515	16
<i>Hybognathus hankinsoni</i> brassy minnow	<b>3</b>		2		1	2	123	123	12	123	123	13	13	13	1	13	23				99	15

<i>Hybognathus regis</i> eastern silvery minnow		12	2	13		12	123	123	23	3		3	3	123	12	123	123			346	14
<i>Hybopsis amblops</i> bigeye chub	123				123		1													104	3
<i>Luxilus cornutus</i> common shiner	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	9893	19
<i>Luxilus chrysocephalus</i> striped shiner	123				123	123	123	123												299	5
<i>Lythrurus umbratilus</i> redfin shiner					123		13	12												22	3
<i>Macrhybopsis storerianna</i> silver chub					1		1													13	2
<i>Margariscus margarita</i> pearl dace	123	123	123		123	123	12	123	123	123	12	123	123	123	123	123	12			603	16
<i>Nocomis biguttatus</i> hornyhead chub	123				123	123	123	123	<b>3</b>							<b>123</b>				200	7
<i>Nocomis micropogon</i> river chub	123	123	123		123		123	12												707	6
<i>Notemigonus crysoleucas</i> golden shiner	123	123	123	123	123	123	123	123	123	123	123	123	23	123	123	123	123	123	123	7327	19
<i>Notropis amoenus</i> comely shiner		12	123	123				<b>23</b>								<b>1</b>	<b>123</b>	1		257	7
<i>Notropis anogenus</i> pugnose shiner							13	1				123								14	3
<i>Notropis atherinoides</i> emerald shiner	123	<b>23</b>	<b>123</b>	<b>23</b>	123	123	123	123				123	2	123	<b>123</b>	<b>123</b>	<b>123</b>			685	14
<i>Notropis bifrenatus</i> bridle shiner		123	123	12	2	23	123	123		123	123	13	123	123	123	123	123	123	13	519	17
<i>Notropis buccatus</i> silverjaw minnow	23																			14	1
<i>Notropis chalybaeus</i> ironcolor shiner				123														1		16	2
<i>Notropis dorsalis</i> bigmouth shiner	123	<b>23</b>			123	123		1												152	5
<i>Notropis heterodon</i> blackchin shiner	12		123		12	123	123	12		13		123		123	12					178	10
<i>Notropis heterolepis</i> blacknose shiner	123	123	2		123	12	123	123		123	23	123	13	123	12	12				214	14
<i>Notropis hudsonius</i> spottail shiner	123	123	123	123	123	123	123	123	123	12	1	123	13	123	123	123	123	2		2722	18
<i>Notropis photogenis</i> silver shiner	123																			174	1
<i>Notropis procne</i> swallowtail shiner		123	123	123				<b>1</b>												120	4
<i>Notropis rubellus</i> rosyface shiner	123	123	23		123	123	123	123		13	12	123	123	123	12	123	123			920	15
<i>Notropis stramenius</i> sand shiner	123				123	123	12	23		1		1	123			<b>23</b>				538	10
<i>Notropis volucellus</i> mimic shiner	123	<b>23</b>	<b>23</b>		123	123	123	123		13	12	123	13	123						549	12
<i>Phoxinus eos</i> northern redbelly dace	123				123	2	123	123	123	123	13	123	123	123	12	123				390	14
<i>Phoxinus neogaeus</i> finescale dace	12						1		12	123	12	1	123	123	123					70	9
<i>Pimephaes notatus</i> bluntnose minnow	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	3		3422	18
<i>Pimephaes promelas</i> fathead minnow	123	<b>123</b>	<b>123</b>	<b>123</b>	123	123	123	123	123	123	13	123	123	123	<b>123</b>	<b>123</b>	<b>123</b>			739	17
<i>Rhinichthys atratulus</i> eastern blacknose dace		123	123	123		1	123	123	123	123	123	123	123	123	123	123	123	123	123	14575	17
<i>Rhinichthys obtusus</i> western blacknose dace	123				123	123	123													1926	4
<i>Rhinichthys cataractae</i> longnose dace	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	2	7101	19
<b><i>Rhodeus sericeus</i> bitterling</b>																	<b>12</b>			>50	1
<b><i>Scardinius erythrophthalmus</i> rudd</b>	<b>3</b>	<b>3</b>	<b>3</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>		<b>3</b>		<b>3</b>			<b>3</b>	<b>3</b>	<b>123</b>			>100	12
<i>Semotilus atromaculatus</i> creek chub	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	12765	19
<i>Semotilus corporalis</i> fallfish		123	123	123	<b>23</b>	<b>2</b>	123	123	<b>23</b>	123	123	123	123	123	123	123	123	123		4205	17
<b><i>Misgurnus anguillicaudatus</i> oriental weatherfish</b>	<b>3</b>																			2	1
<i>Carpiodes cyprinus</i> quillback	23	123	23		123	23	23	23	3m			23		1						136	10
<i>Catostomus catostomus</i> longnose sucker			2	123		23	12	123	123	12	12	12	123	123	123	123				832	14
<i>Catostomus commersonii</i> white sucker	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	21334	19
<i>Erimyzon oblongus</i> creek chubsucker		123	123	123			123	123	2	23					2	123	123	123	123	711	12
<i>Erimyzon sucetta</i> lake chubsucker					1		1													11	2
<i>Hypentelium nigricans</i> northern hog sucker	123	123	123	123	123	123	123	123	<b>23</b>	<b>2</b>					12	123	123			3201	13
<i>Moxostoma anisurum</i> silver redhorse	123				123	123	123	123		13	13	123	123	123						190	10
<i>Moxostoma breviceps</i> smallmouth redhorse	123																			19	1
<i>Moxostoma carinatum</i> river redhorse	23																			17	1
<i>Moxostoma duquesnei</i> black redhorse	123				123	1														60	3
<i>Moxostoma erythrurum</i> golden redhorse	123				123	123	12	12												188	5
<i>Moxostoma macrolepidotum</i> shorthead redhorse		23	123		123	123	123	123		123	123	123	123	12	2	123	23			379	14

<i>Moxostoma valenciennesi</i> greater redhorse					123	23	123	123		23	12	13	13	13						38	9
<i>Ameiurus catus</i> white catfish				<b>23</b>											2	2	123	<b>13</b>		646	5
<i>Ameiurus melas</i> black bullhead	1		<b>2</b>	<b>23</b>	23	12	12	<b>2</b>	<b>2</b>	<b>12</b>				<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>12</b>		72	14
<i>Ameiurus natalis</i> yellow bullhead	123		<b>23</b>	<b>23</b>	123	23	123	123		23		23		123	123	123	123	123		504	14
<i>Ameiurus nebulosus</i> brown bullhead	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	12698	19
<i>Ictalurus punctatus</i> channel catfish	<b>2</b>		<b>23</b>	<b>23</b>	123	23	123	123	23	123	13	123		123	<b>2</b>	<b>2</b>	<b>23</b>	<b>3</b>	<b>3</b>	192	17
<i>Noturus flavus</i> stonecat	123				123	123	123	123	123	23	123	1	123	123	123	123	23			443	14
<i>Noturus gyrinus</i> tadpole madtom		12	2	123	123	12	123	123		13		123			13	123	12	1		289	13
<i>Noturus insignis</i> margined madtom		123	123	123		<b>2</b>	<b>12</b>	<b>123</b>	<b>23</b>	<b>23</b>	<b>3</b>	<b>3</b>	<b>2</b>		<b>2</b>	<b>123</b>	<b>123</b>	<b>3</b>		828	15
<i>Noturus miurus</i> brindled madtom	123				123	2	123	123								<b>23</b>				77	6
<i>Esox americanus americanus</i> redfin pickerel		2	2	123										<b>123</b>	12	12	123	23	123	247	9
<i>Esox americanus vermiculatus</i> grass pickerel	23				123	2	123	123	23	2		123								209	8
<i>Esox lucius</i> northern pike	<b>23</b>	<b>123</b>	<b>23</b>	<b>12</b>	123	123	123	123	123	123	123	123	123	123	<b>123</b>	<b>123</b>	<b>123</b>			2432	17
<i>Esox masquinongy</i> muskellunge	123	<b>2</b>	<b>23</b>	<b>13</b>	123	1m	13			123	13m	123	123	123	<b>1</b>	<b>2</b>	<b>3</b>			446	15
<i>Esox niger</i> chain pickerel		123	123	123	<b>123</b>	123	123	123	123	<b>123</b>	<b>2m</b>	<b>2</b>		123	123	123	123	123	123	3784	17
<b><i>E. lucius</i> x <i>E. masquinongy</i> tiger muskellunge</b>	<b>23</b>	<b>3</b>	<b>2</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>3</b>	<b>23</b>	<b>3</b>	<b>3</b>	<b>3</b>			<b>3</b>		<b>23</b>	<b>23</b>	<b>3</b>	<b>23</b>	53	16
<i>Umbra limi</i> central mudminnow	123	<b>23</b>	<b>23</b>		123	123	123	123	<b>23</b>	123	123	123	123	123	<b>23</b>	<b>12</b>	<b>23</b>			647	16
<i>Umbra pygmaea</i> eastern mudminnow																	123	123	123	221	3
<i>Osmerus mordax</i> rainbow smelt			<b>23</b>	<b>123</b>	<b>23</b>	<b>2</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>23</b>	123	<b>123</b>	<b>3</b>	123		1		1264	16
<i>Coregonus artedii</i> cisco	12	<b>1</b>	<b>23</b>	<b>2</b>	13	12	123	123	2	123	123	12	12	123	123	<b>23</b>	<b>23</b>			776	17
<i>Coregonus clupeaformis</i> lake whitefish			123	<b>2</b>	123	12	123	123	<b>123</b>	123	<b>123</b>	123	123	123	123	<b>123</b>	<b>123</b>			882	15
<i>Coregonus hoyi</i> bloater							12													89	1
<i>Coregonus kiyi</i> kiyi							12													20	1
<i>Coregonus reighardi</i> shortnose cisco							12													11	1
<i>Coregonus zenithicus</i> shortjaw cisco							1													<10	1
<b><i>Oncorhynchus gorbuscha</i> pink salmon</b>					<b>3</b>		<b>23</b>													>50	2
<b><i>Oncorhynchus kisutch</i> coho salmon</b>					<b>23</b>	<b>3m</b>	<b>23</b>					<b>2</b>								123	4
<b><i>Oncorhynchus mykiss</i> rainbow trout</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>12</b>	<b>12</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	3875	19
<b><i>Oncorhynchus nerka</i> sockeye salmon</b>			<b>2</b>	<b>2</b>				<b>2</b>	<b>23</b>	<b>23</b>				<b>2</b>	<b>2</b>		<b>2</b>			106	8
<b><i>Oncorhynchus tshawytscha</i> chinook salmon</b>					<b>23</b>	<b>2m</b>	<b>23</b>	<b>3m</b>	<b>3m</b>		<b>3m</b>	<b>23</b>				<b>2</b>				39	8
<i>Prosopium cylindraceum</i> round whitefish							12		123	12	123	1	123	123	123	12				97	9
<i>Salmo salar</i> Atlantic salmon			<b>23</b>	<b>23</b>		1m	123	123	<b>123</b>	<b>123</b>	<b>123</b>	1	123	123	<b>123</b>		<b>123</b>	<b>12</b>		524	14
<b><i>Salmo trutta</i> brown trout</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	<b>123</b>	11950	19
<i>Salvelinus fontinalis</i> brook trout	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	16592	19
<i>Salvelinus namaycush</i> lake trout			123	<b>12</b>	123	23	123	123	123	123	123	123	123	123	123	123	123	123		2175	15
<b><i>S. fontinalis</i> x <i>S. namaycush</i> splake</b>		<b>2</b>	<b>2</b>			<b>2</b>	<b>2</b>		<b>23</b>	<b>23</b>	<b>23</b>		<b>23</b>	<b>23</b>	<b>2</b>	<b>23</b>	<b>2</b>			387	12
<i>Percopsis omiscomaycus</i> trout-perch	123				123	123	12	123		123		123		123	12	123	123			427	11
<i>Aphredoderus sayanus</i> eastern pirate perch																			123	55	1
<i>Aphredoderus sayanus gibbosus</i> western pirate perch					1		123													12	2
<i>Lota lota</i> burbot	123		123		123		123	123	123	12	123			12						286	10
<i>Microgadus tomcod</i> Atlantic tomcod																	123		2	794	2
<i>Fundulus diaphanus</i> banded killifish	123	123	123	123	123	123	123	123	23	123	123	123	3	123	123	123	123	13	123	2337	19
<i>Fundulus heteroclitus</i> mummichog																	123	<b>1</b>	123	369	3
<b><i>Gambusia affinis</i> western mosquitofish</b>																	<b>3</b>		<b>123</b>	24	2
<i>Labidesthes sicculus</i> brook silverside	123				123	23	123	123		13		123		<b>3</b>		<b>123</b>	<b>3</b>			265	10
<i>Apeltes quadracus</i> fourspine stickleback																123		123		252	2
<i>Culaea inconstans</i> brook stickleback	123	123	123		123	123	123	123	123	123	12	123	123	123	23	12	123			546	16
<i>Gasterosteus aculeatus</i> threespine stickleback					1	1m	123	12				1					123		123	125	7
<i>Pungitius pungitius</i> ninespine stickleback					2		12	12									12		123	47	5

<i>Cottus bairdii</i> mottled sculpin	123	123	123		123	123	123	123				123		123					2106	9		
<i>Cottus cognatus</i> slimy sculpin		123	123	123	12	123	123	123	123	123	123	12	123	123	123	123	23		1467	17		
<i>Cottus ricei</i> spoonhead sculpin					1		2												<10	2		
<i>Myoxocephalus thompsonii</i> deepwater sculpin					1		13												14	2		
<i>Morone americana</i> white perch	3				23	23	23	23			2m	123		2	23	123	123	13	123	2998	13	
<i>Morone chrysops</i> white bass	23				123	23	123	123				23				23	23			409	8	
<i>Morone saxatilis</i> striped bass				3										2	2	123		123		969	5	
<i>Acantharchus pomotis</i> mud sunfish																	1			3	1	
<i>Ambloplites rupestris</i> rock bass	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	7523	19		
<i>Enneacanthus gloriosus</i> bluespotted sunfish				123													123	13		64	4	
<i>Enneacanthus obesus</i> banded sunfish																	1	123		38	2	
<i>Lepomis auritus</i> redbreast sunfish		123	123	123								123		123	123	123	123	12		1917	10	
<b><i>Lepomis cyanellus</i> green sunfish</b>	3	123	2	23	23	3	23	3				3				23	123	3		69	12	
<i>Lepomis gibbosus</i> pumpkinseed	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	13546	19	
<b><i>Lepomis gulosus</i> warmouth</b>																		123			8	1
<i>Lepomis macrochirus</i> bluegill	123	123	123	123	123	123	123	123	23	123	23	23	2	123	123	123	123	123	123	4016	19	
<i>Lepomis megalotis</i> longear sunfish					23		123	12												28	3	
<i>Micropterus dolomieu</i> smallmouth bass	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	7773	19	
<i>Micropterus salmoides</i> largemouth bass	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	6148	19	
<i>Pomoxis annularis</i> white crappie	123	2	23	23	123	23	12	23			2					23	123	123	12	550	13	
<i>Pomoxis nigromaculatus</i> black crappie	123	123	123	123	123	123	123	123	23	123	23	123	23	123	123	123	123	3	123	2703	19	
<i>Ammocrypta pellucida</i> eastern sand darter					13							13	13	23						14	4	
<i>Etheostoma blennioides</i> greenside darter	123		3		123	123	123	123								123	2			705	8	
<i>Etheostoma caeruleum</i> rainbow darter	123				123	23	123													935	4	
<i>Etheostoma camurum</i> bluebreast darter	23																			<10	1	
<i>Etheostoma exile</i> Iowa darter	1				123	2	123	12		13	3	123	13	1						96	9	
<i>Etheostoma flabellare</i> fantail darter	123	123	23		123	123	123	123	123	123	123	123	123	123		123	2			2490	15	
<i>Etheostoma fusiforme</i> swamp darter																		123		39	1	
<i>Etheostoma maculatum</i> spotted darter	123																			17	1	
<i>Etheostoma nigrum</i> johnny darter	123				123	123	123		23	3	23	123	23	123						1585	10	
<i>Etheostoma olmstedti</i> tessellated darter		123	123	123		23	123	123	123	123	123	123	123	123	123	123	123	123	123	3834	17	
<i>Etheostoma variatum</i> variegated darter	123																			114	1	
<i>Etheostoma zonale</i> banded darter	123	23	23			2														218	4	
<i>Perca flavescens</i> yellow perch	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	12057	19	
<i>Percina caprodes</i> logperch	123				123	123	123	123	123	123	123	123	123	123	123	123	123			1127	14	
<i>Percina copelandi</i> channel darter	3				123					13	13	13	13	123						56	7	
<i>Percina evides</i> gilt darter	1																			<10	1	
<i>Percina macrocephala</i> longhead darter	123																			30	1	
<i>Percina maculata</i> blackside darter	123				123	123	123	123												305	5	
<i>Percina peltata</i> shield darter		123	123	123														123		354	4	
<i>Sander canadense</i> sauger					123		2	1				1		123						29	5	
<i>Sander vitreum vitreum</i> walleye	123	123	123	123	123	123	123	123	123	123	123	123	123	12	123	123	3	123	2562	19		
<i>Sander vitreum glaucum</i> blue pike					12		12	1m												129	3	
<i>Aplodinotus grunniens</i> freshwater drum					123	123	123	123				23		12		3	23			168	8	
<b><i>Neogobius melanostomus</i> round goby</b>					3		3													>100	2	
Total taxa	98	70	83	71	114	102	126	110	68	85	72	96	70	92	81	87	105	51	53			
Total exotic taxa	13	26	32	31	19	18	16	18	18	14	13	14	6	16	30	38	44	18	17			

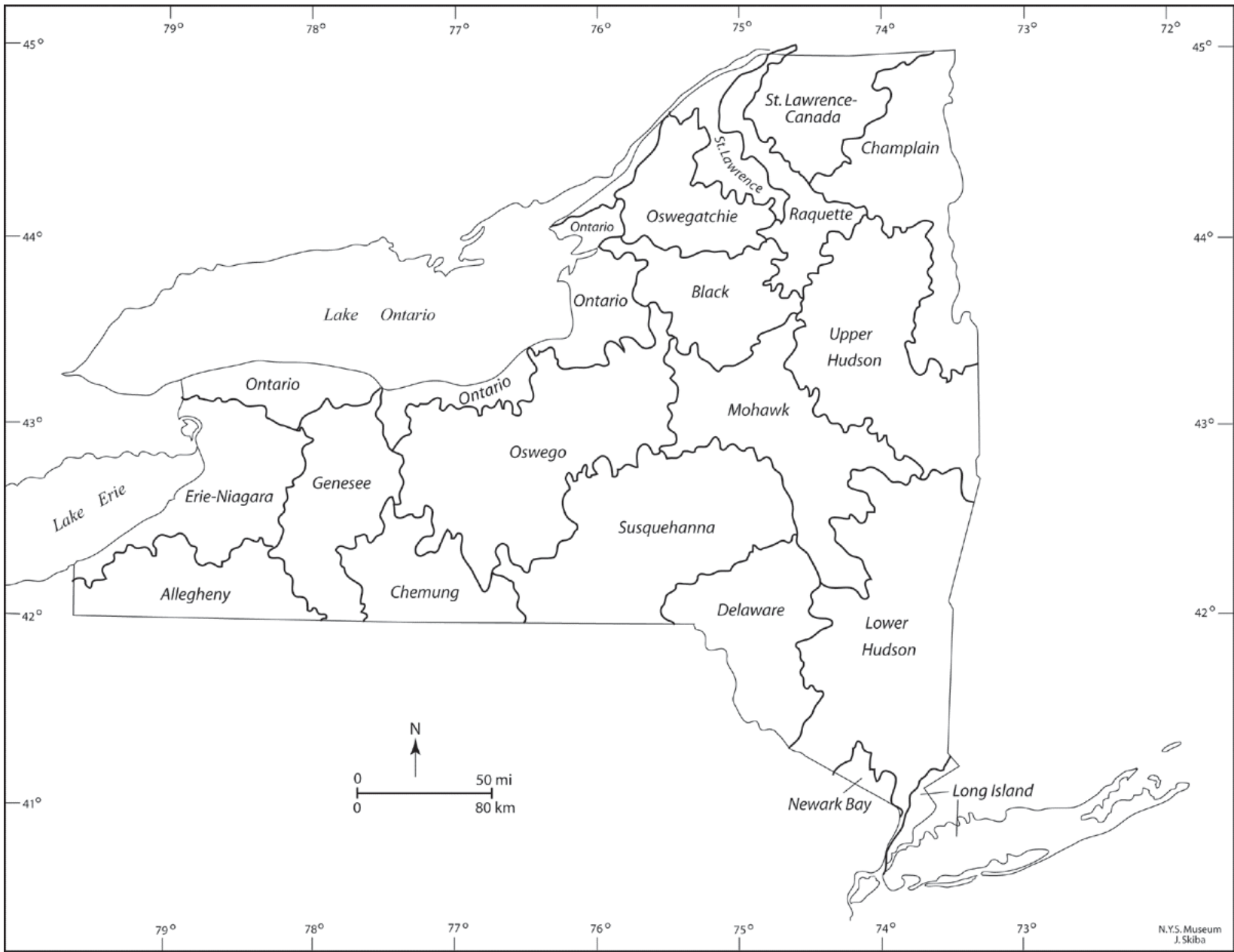


Figure 1 – Watersheds of New York State