

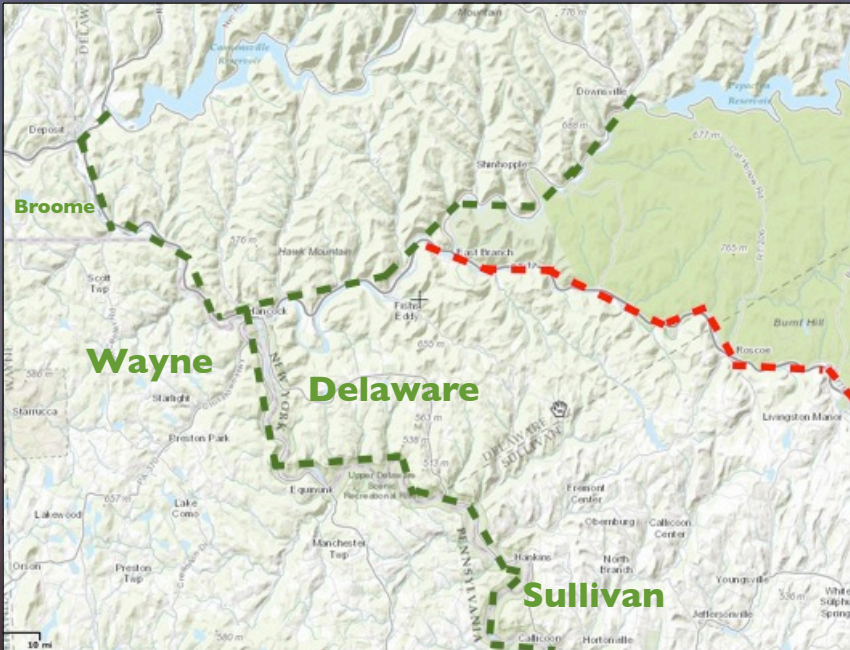
A person is fishing in a boat on a river at sunset. The person is wearing a dark jacket and a cap, and is holding a fishing rod that is arched high in the air. The sky is a mix of blue and orange, with clouds catching the low light of the sun. The water is dark and calm. The overall scene is peaceful and scenic.

# What's A River Worth?

## Delaware County's Fishing Industry Economic Impact Study

Future of the Upper Delaware River Watershed – October 15, 2013

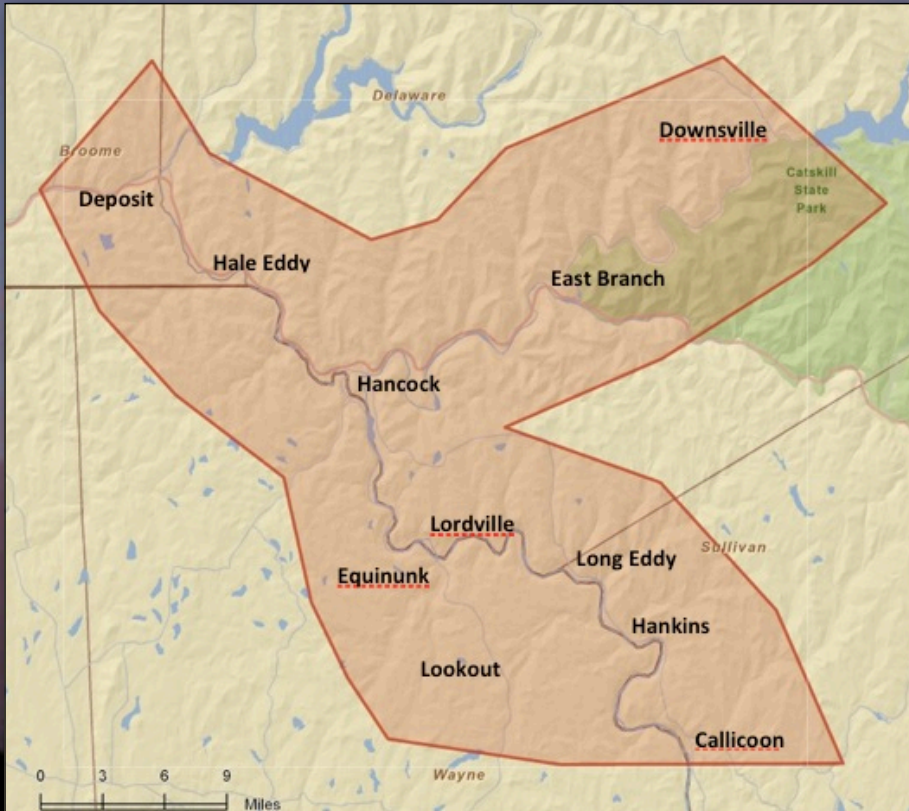
# What's A River Worth?



- Direct economic contributions of cold water fishery today
- Indirect benefits (e.g., 2nd home impacts)
- Impacts of release regimen on fishing industry economy
- Potential economic gains from more consistent release regimen

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# What's A River Worth?



- 28 miles of main stem (Callicoon to Hancock)
- 33 miles of East Branch (Hancock to Downsville)
- 17 miles of West Branch (Hancock to Deposit)
- 78 miles of cold water fishery impacted by releases from Cannonsville and Pepacton reservoirs

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# What's A River Worth?

## Impacted Area Business Summary

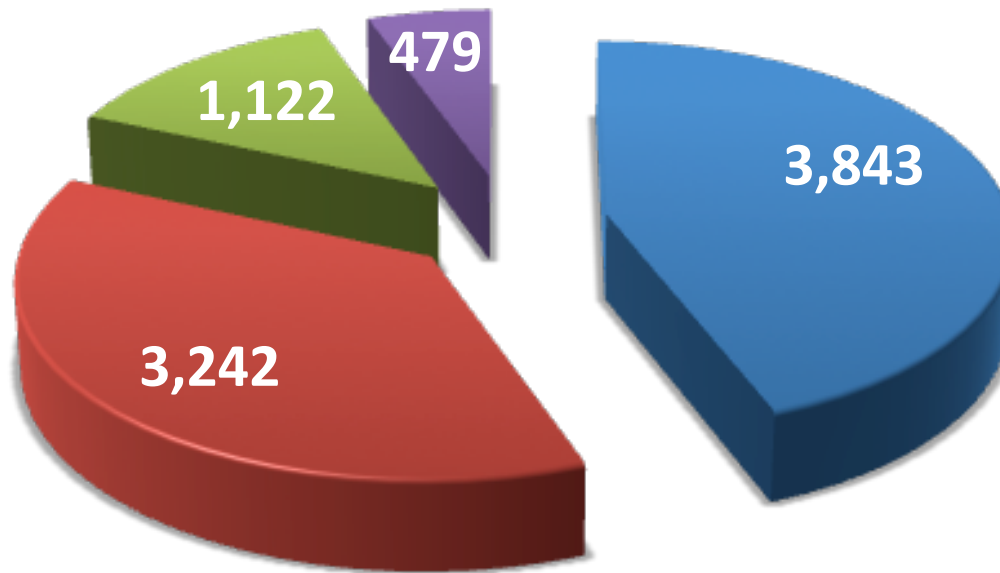
NAICS Codes	Businesses		Employees	
	Number	Percent	Number	Percent
Agriculture, Forestry, Fishing & Hunting	53	7.3%	113	1.9%
Food & Beverage Stores	12	1.7%	75	1.3%
Gasoline Stations	3	0.4%	13	0.2%
Sport Goods, Hobby, Book, & Music Stores	9	1.2%	19	0.3%
Miscellaneous Store Retailers	21	2.9%	43	0.7%
Arts, Entertainment & Recreation	13	1.8%	40	0.7%
Accommodation	25	3.5%	126	2.1%
Food Services & Drinking Places	33	4.6%	97	1.6%
<b>Total</b>	<b>169</b>	<b>23.4%</b>	<b>526</b>	<b>8.8%</b>
<b>Total of Potentially Impacted Businesses</b>	<b>169</b>	<b>100%</b>	<b>526</b>	<b>100%</b>

Source: Copyright 2013 Dun & Bradstreet, Inc. All rights reserved. ESRI Total Residential Population

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# What's A River Worth?

## Impacted Area Housing



Owner-Occupied

Seasonal/Recreational

Renter-Occupied

Other Vacant Homes

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# What's A River Worth?

## Expenditures Per Day/Trip

- US Fish & Wildlife (2001) - \$53/trip (2010 \$'s)
- University of Minnesota (1990) - \$41.25 (resident), \$22.03 (non-resident)
- US Fish & Wildlife Shad Study (1986) - \$25.50 per trip
- Cornell University (1981) - \$56.70/day/group (all recreation)
- NPS River Study (1989) - \$19.42 (all river recreation)
- NPS Money Gen. Mod. (1997) - \$70.72/lodging, \$43.95/meals (all travel)
- North Carolina Trout Study (2009) - \$103/day
- University of Minnesota (2002) - \$29.37/day at home & \$56.57 away
- US Fish & Wildlife (2011) - \$55/trip

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# What's A River Worth?

## Other Key Economic Facts

- Fresh water anglers in New York spend roughly 16 days per year fishing and spend approximately \$879 per year. Roughly 20% each is spent on lodging, food and transportation (gasoline), with the remainder going for other supplies and services.
- Some 89% of anglers come from metro areas, and 38% come from large metropolitan areas such as New York City. Fishing is also the primary reason visitors to the Delaware River region head to Delaware County.
- There are direct, indirect and induced economic impacts from spending on fishing. Multiplier effects can be segregated into these and other categories and range from a factor of 1.30 to 2.53. NPS estimates 1.84 for gross output on a local basis and 2.01 on a statewide basis.

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# What's A River Worth?

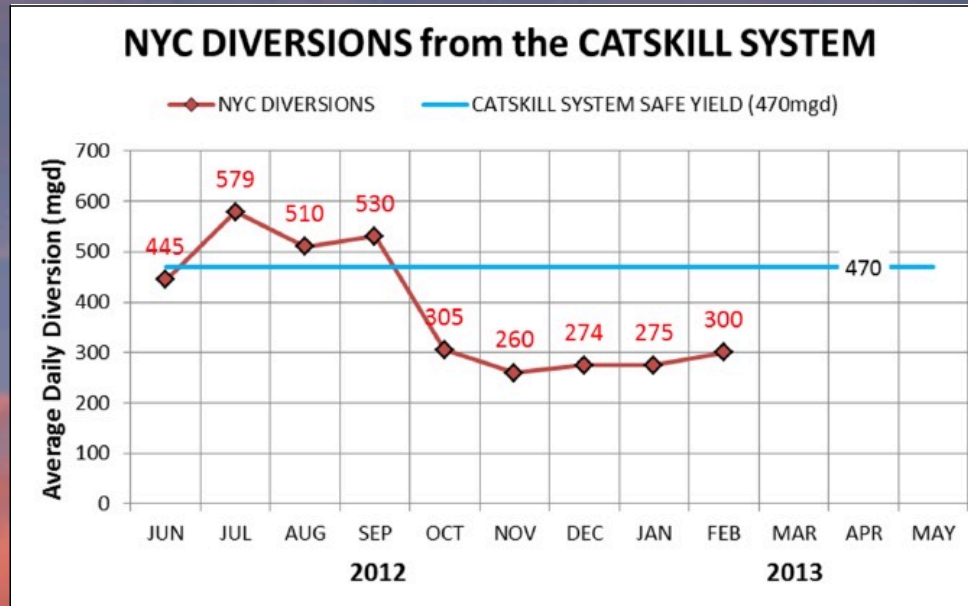
## Current Estimated Non-Property Value of Local Fishing Economy

County	Resident Angler Days	NR Angler Days	Total Angler Days	Impact Area Share	Other NR Anglers	Estimated Angler Days	Lost Days Low Flow	Net Angler Days	Estimated Value	Indirect & Induced Value (Local)	Total Value
Broome	141,994	19,736	161,730	7.5%	10,486	22,615	5,654	16,962	\$ 932,883	\$ 783,621	\$1,716,504
Delaware	36,416	14,295	50,711	35.0%	9,318	27,066	6,767	20,300	\$ 1,116,493	\$ 937,854	\$2,054,347
Sullivan	76,497	25,256	101,753	15.0%	9,104	24,367	6,092	18,275	\$1,005,151	\$ 844,327	\$1,849,478
Wayne	138,415	50,894	189,309	7.5%	7,847	22,045	5,511	16,534	\$ 909,369	\$ 763,870	\$1,673,239
<b>Total</b>	<b>393,322</b>	<b>110,181</b>	<b>503,503</b>	<b>19.1%</b>	<b>36,755</b>	<b>96,094</b>	<b>24,024</b>	<b>72,071</b>	<b>\$3,963,896</b>	<b>\$ 3,329,673</b>	<b>\$7,293,569</b>

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# What's A River Worth?



**Current fishing economy generates gross output of \$7.3 million. Net present valued over 20 years at a 5% discount rate, this represents a \$90.9 million value with a minimum of another 25% or \$30.3 million of value to be had from consistent reservoir water releases.**

**Future of the Upper Delaware River Watershed – October 15, 2013**

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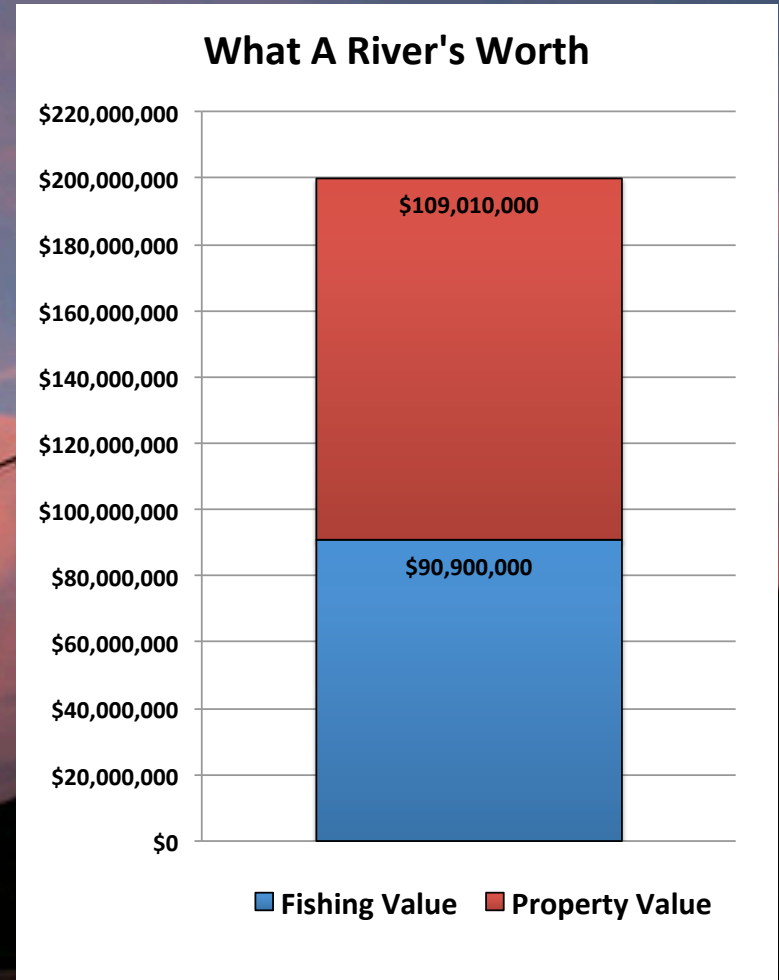
## Impacts on Property Values

- 3,242 or 37% of all housing units in the impacted area are second homes and these are occupied by households focused on recreation as a pursuit while staying in the area. Housing units within the impacted area have a current estimated average value of \$115,152 according to ESRI.
- Second home value is relative to recreational use, and NPS data indicates 29.2% of those headed to that portion of the river between Callicoon and Hancock were there to fish, indicating the 3,242 second homes in the impacted area represent a total value of \$109.0 million attributable to the fishing sector.

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# What's A River Worth?

**\$200 million**



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