

Atlantic Salmon Life Cycle:



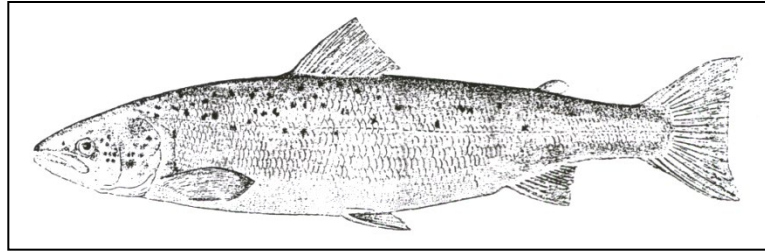
Anadromy and Coastal Watersheds

Anadromous

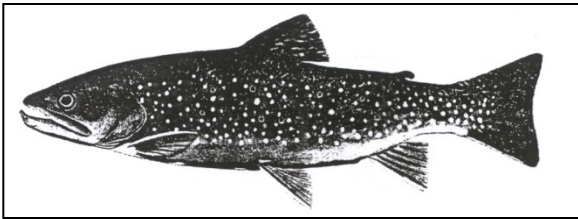
An anadromous species spawns in fresh water and spends a portion of its life in the ocean, then migrates from salt water to spawn in fresh water, as salmon of the genera *Salmo*. The Atlantic Salmon is *Salmo Salar*.

Local Anadromous Species

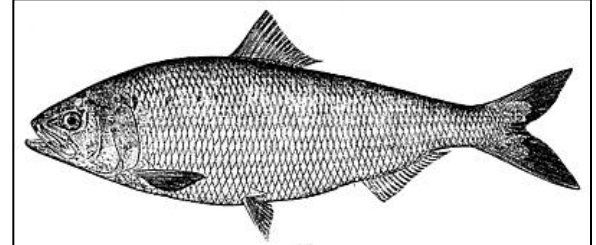
Salmon



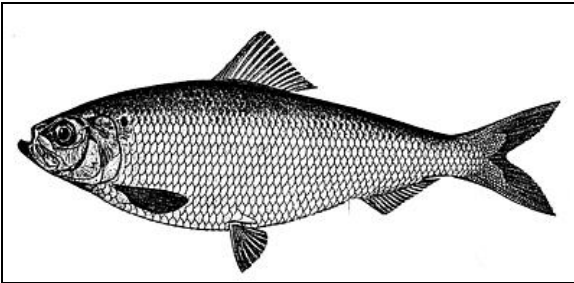
Trout



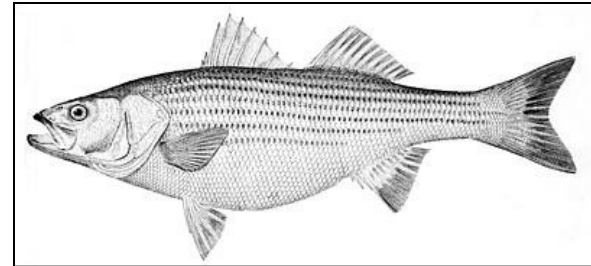
Shad



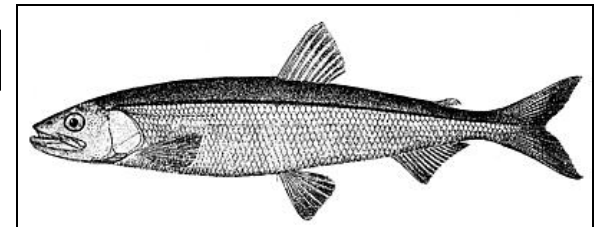
Alewives



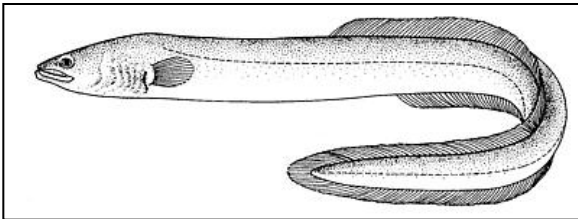
Striped bass



Smelts



American
Eel



Where do they Come From?



Salmon Return to Their Natal River

Natal River: river of their birth

Washington County
Salmon Rivers

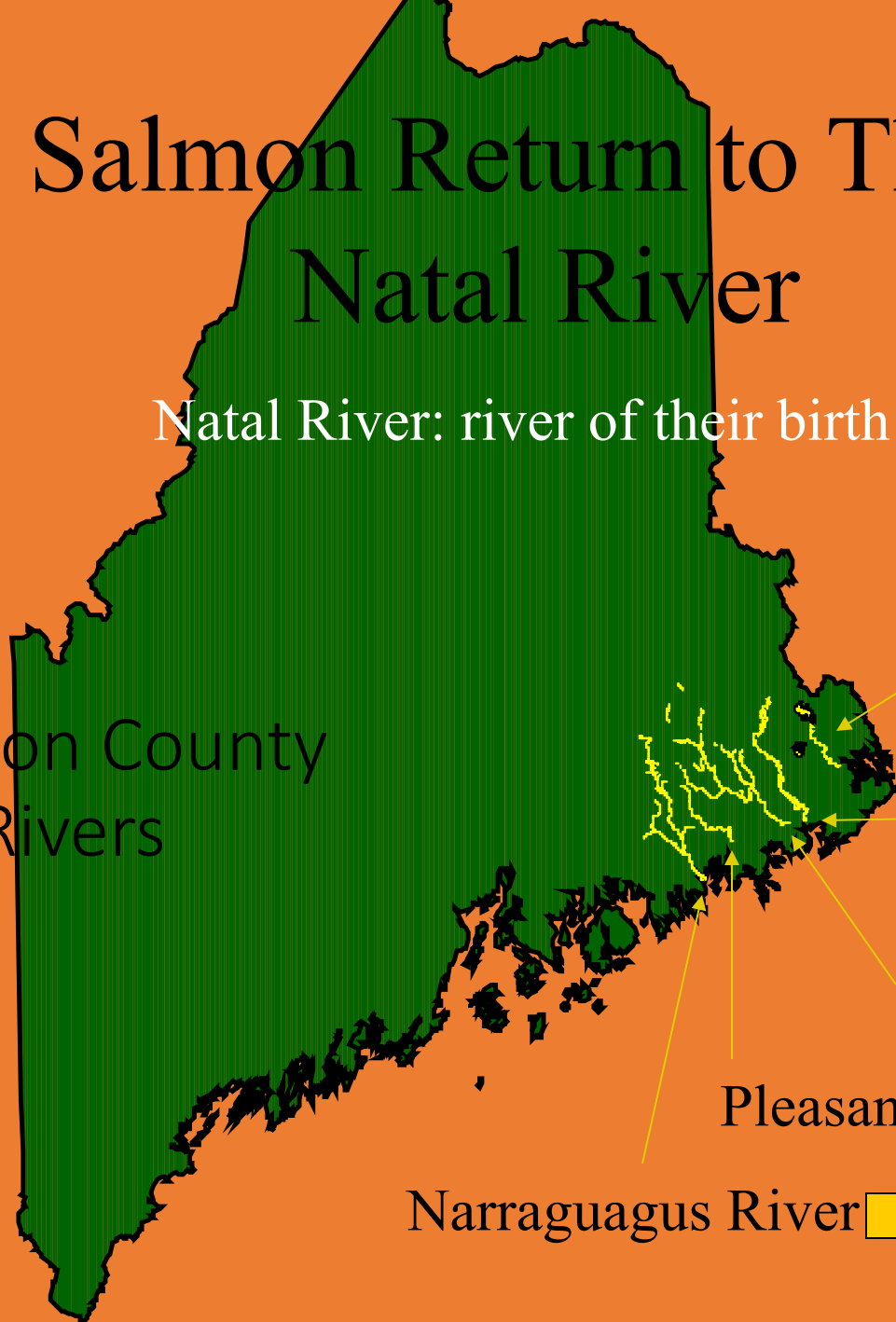
Dennys River 

East Machias River 

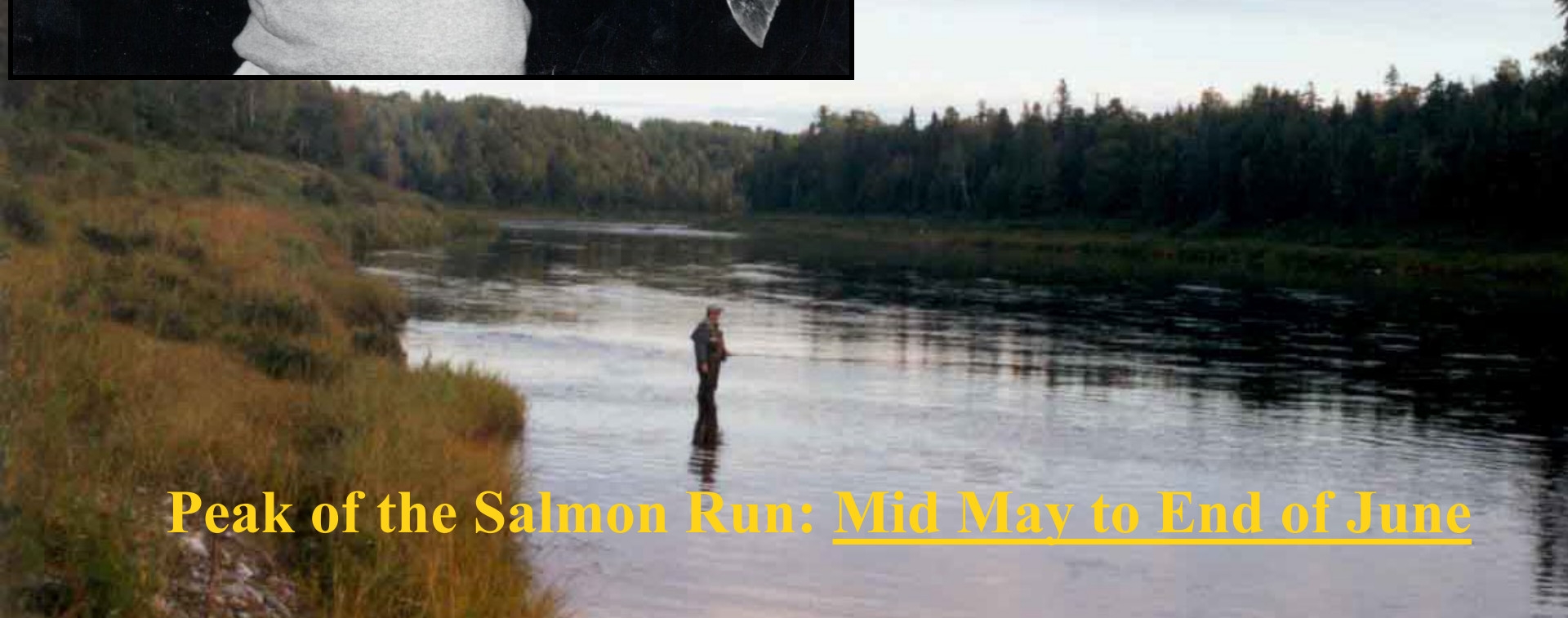
Machias River 

Pleasant River 

Narraguagus River 



Local Interest: Fly fishing for Atlantic salmon



Peak of the Salmon Run: Mid May to End of June

Summer Holding

Adults enter the River from Mid May through September

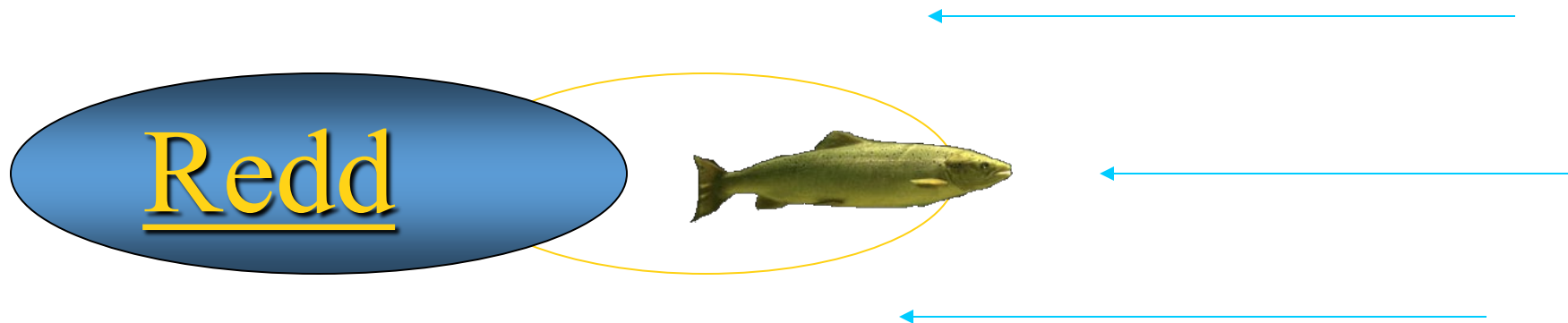
They spend their summer in pools where the water is
below 75 degrees F

Fall Prespawning Movement



With the decline of water temperature and shorter days the salmon begin to move to spawning areas

Spawning: October & November



A Redd is the gravel nest where salmon lay their eggs

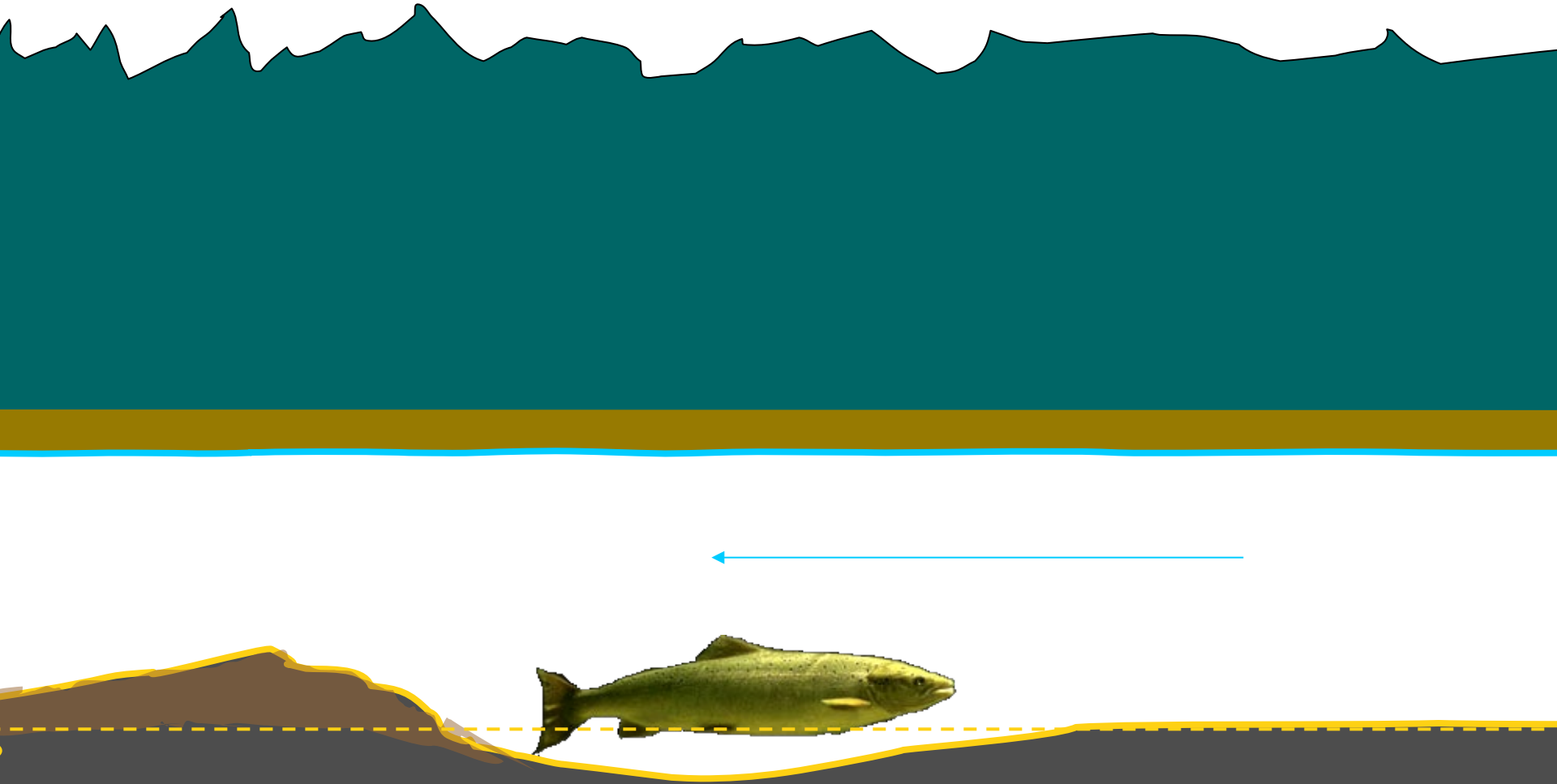
Redd size is dependent on salmon size

Redd construction



Redd Construction

Digging an egg pit





Egg Deposition



Photos © Sidnee wheelwright

Fertilization

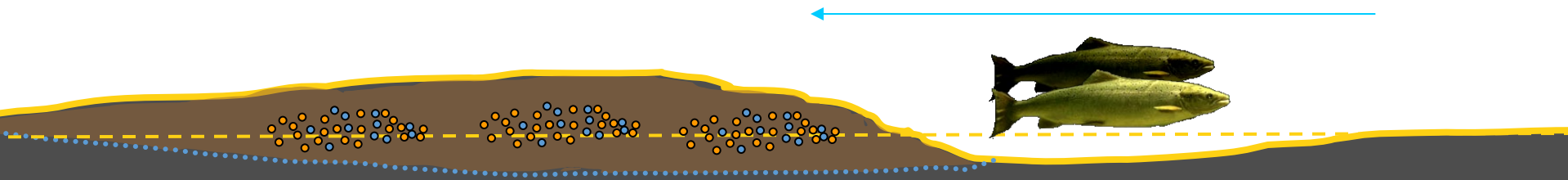


Photos © Sidnee wheelwright

Completed Redd

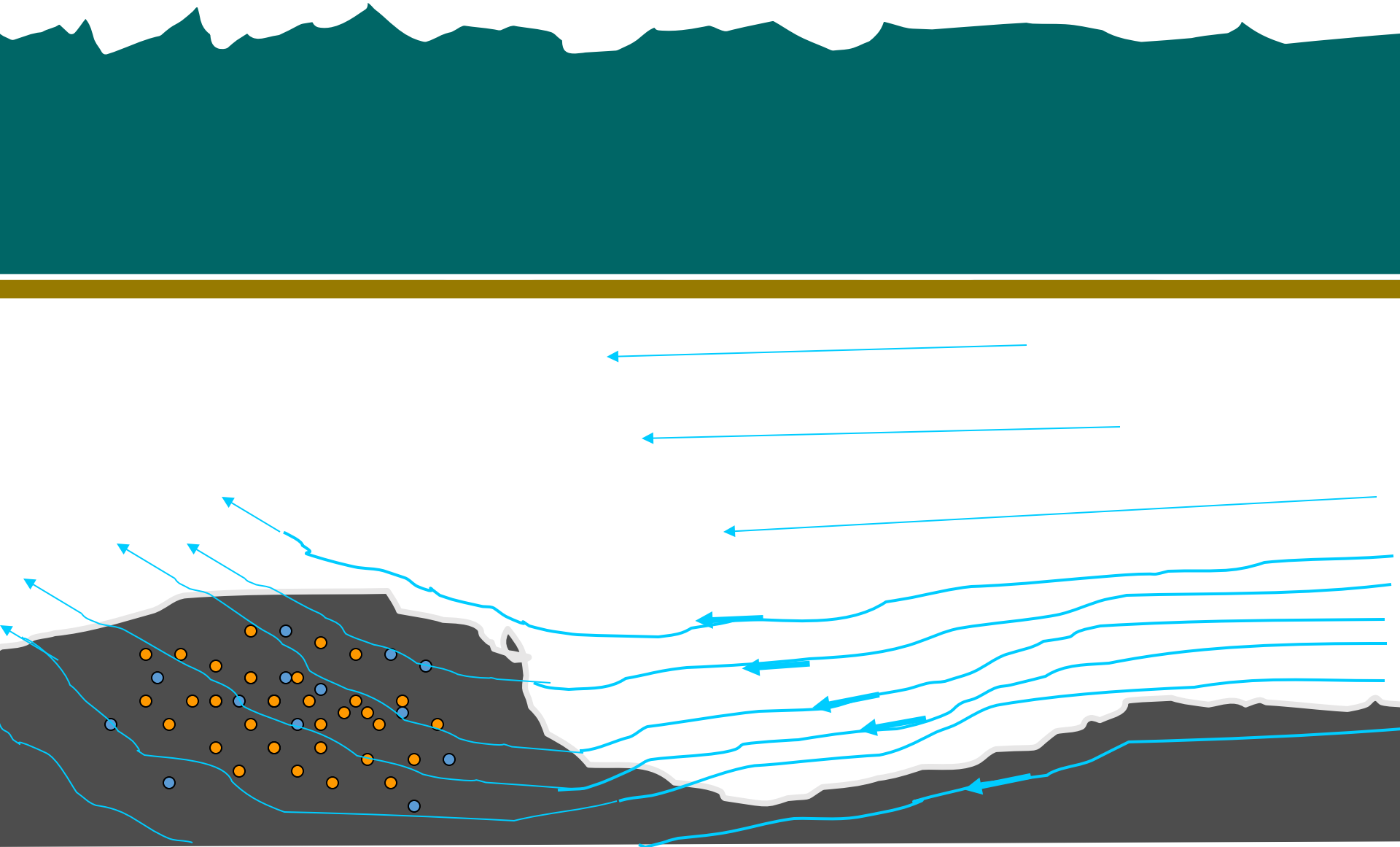
Spawning lasts for 7-10 days

Average Redd Length = 7 ft 10 in (4'7" to 18'3")



Up to 8 egg pits per redd

Egg Incubation Over Winter



Eggs in gravel



High Spring Flow in the East Machias and Pleasant Rivers

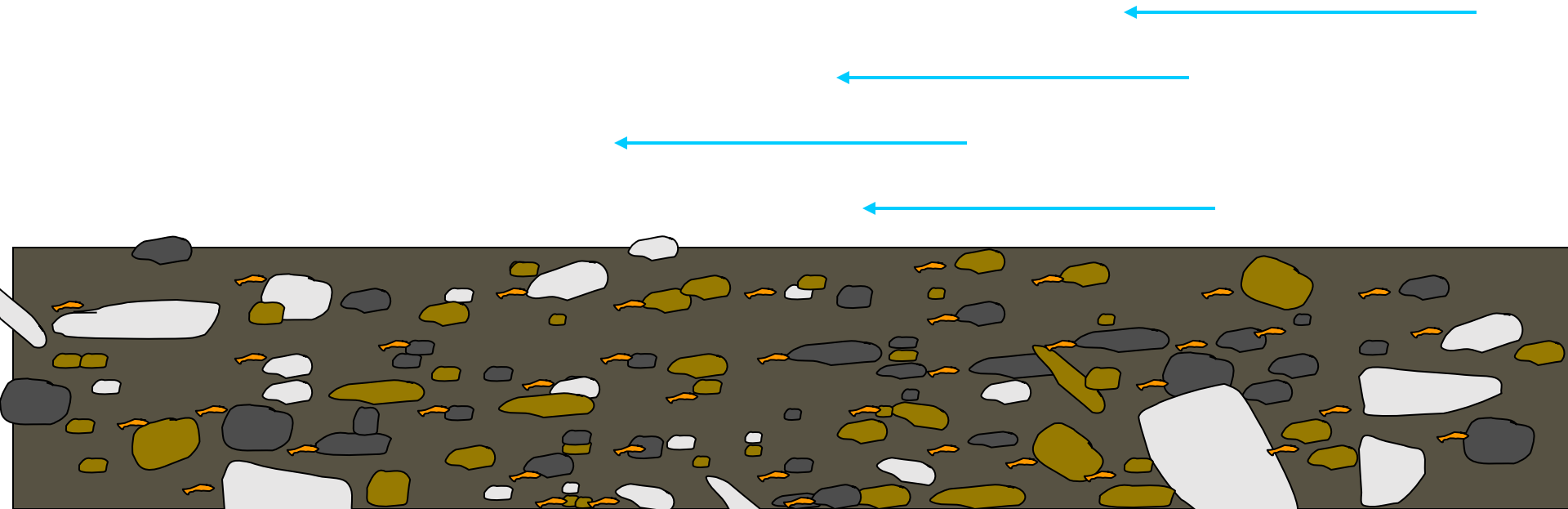


Emergence: May



YOY or Young Of the Year:
Summer habitat

Fry



0+ months old



1+ or Second Year:
Summer habitat

Parr

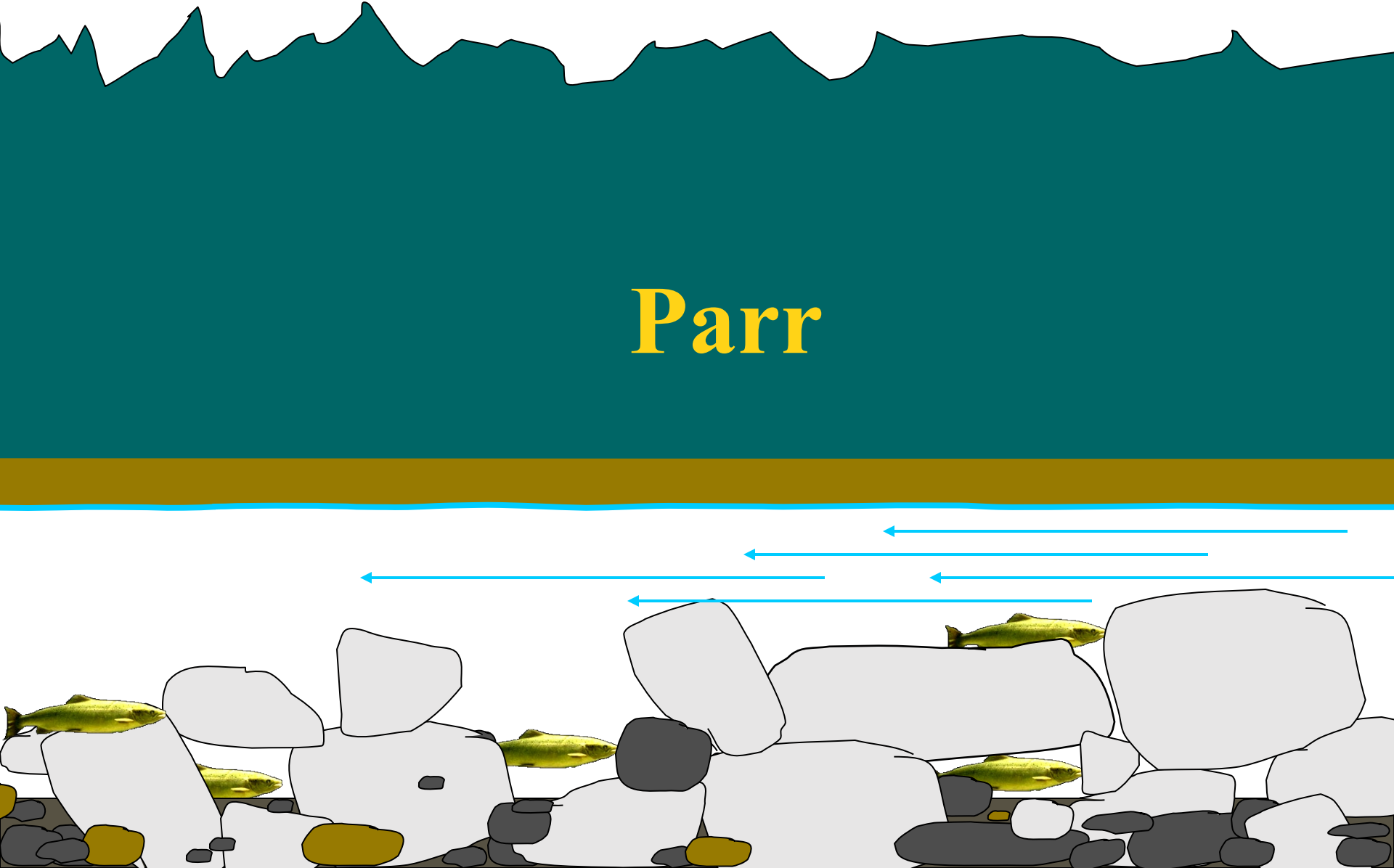


1+ years old



2+ or Third Year:
Summer habitat

Parr



2+ years old



From River to Sea: Smolt



**Downstream migration
and Physiological Change**

**Late April to Early
June depending on
temperature**



Where do they Go?

Summer Feeding

Greenland

Canada

USA

Wintering area

Migration Route

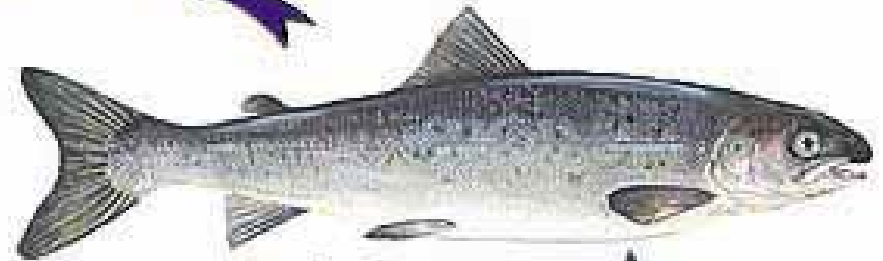


Wild Atlantic salmon *a wondrous life cycle*



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Adult



Smolt



Spawning in a Redd



Eggs



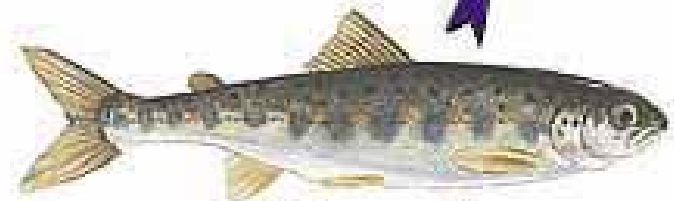
Eyed eggs



Alevin



Fry



Parr

Visit www.asf.ca
to learn more

Atlantic Salmon Federation

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Illustrations by Judi Penman

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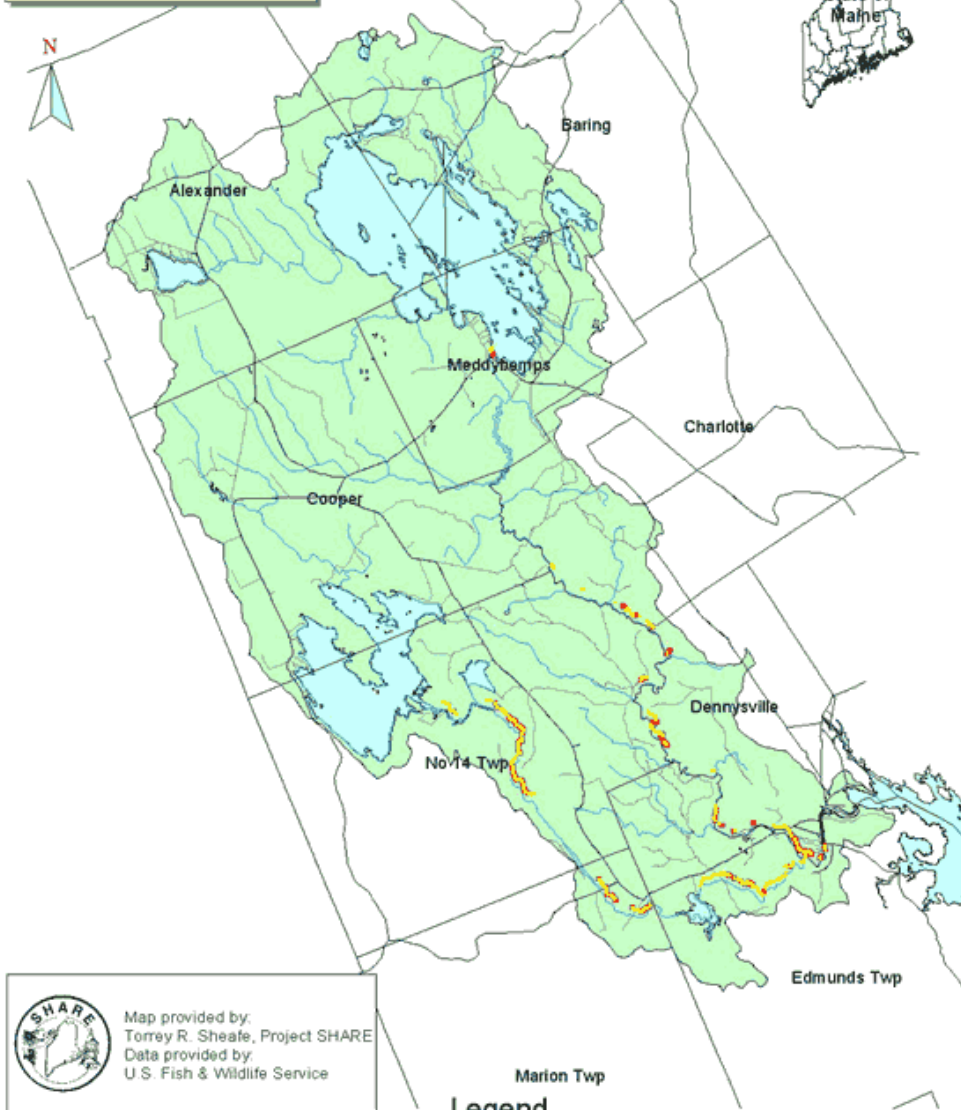
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Dennys River Watershed & Atlantic Salmon Habitat



Map provided by:
Torrey R. Sheafe, Project SHARE
Data provided by:
U.S. Fish & Wildlife Service

Marion Twp
Legend



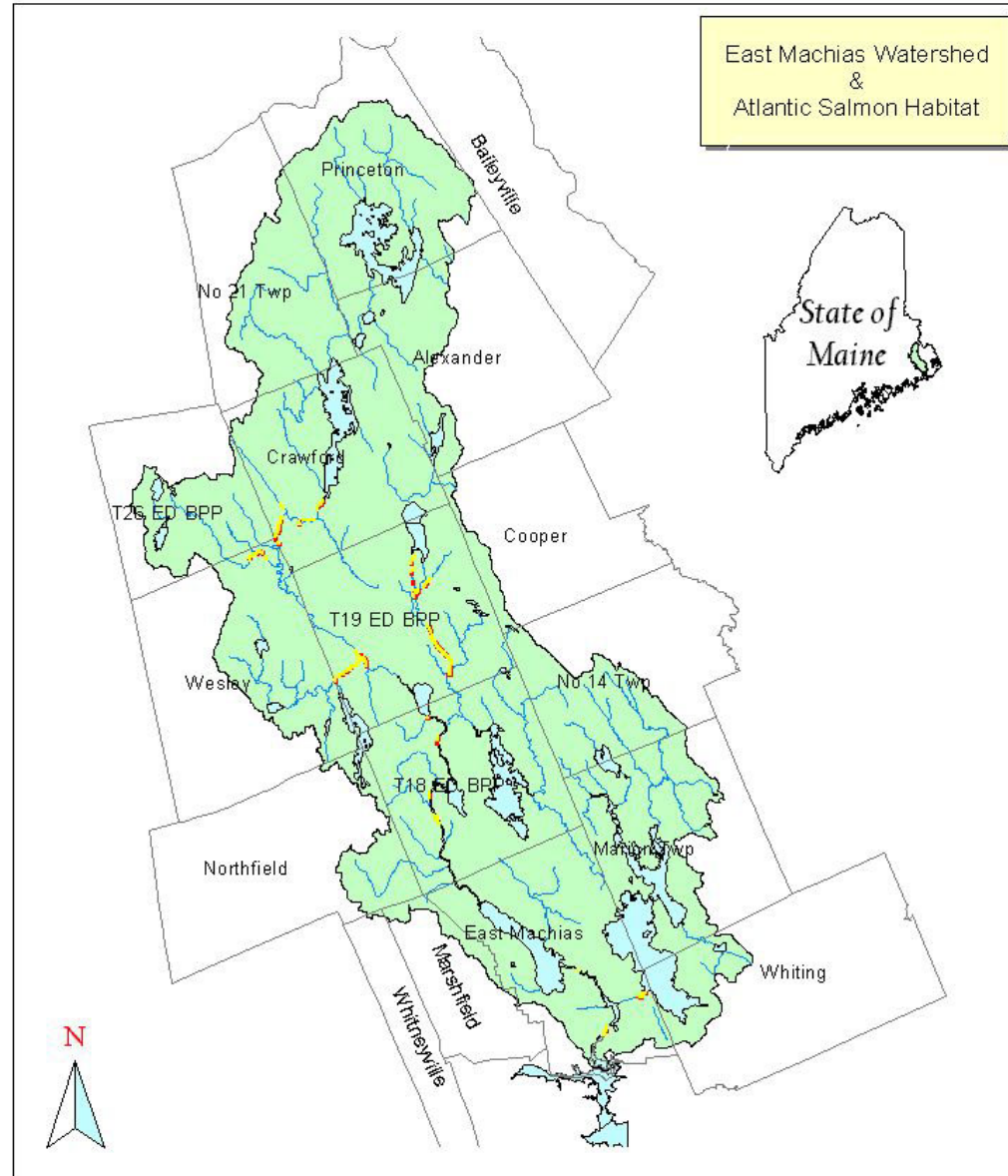
Flowing Water
Juvenile Rearing Habitat
Spawning Habitat
Roads

Lakes & Ponds
Town Boundary
Watershed Boundary

Scale
1:331,150



East Machias Watershed & Atlantic Salmon Habitat



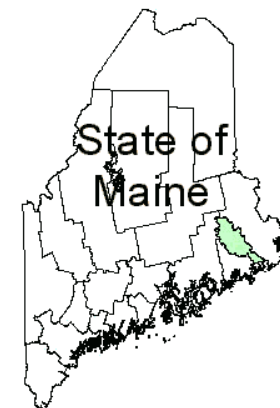
Legend

Rearing Habitat	Town Boundary
Spawning Habitat	Lakes & Ponds
Major Roads	Watershed Boundary
Flowing Water	

Scale:
1: 234,000

Map provided by:
Tomey R. Sheate
Project SHARE
Data provided by:
U.S. Fish & Wildlife Service

Machias River Watershed & Atlantic Salmon Habitat



Map provided by:
Torrey R. Sheafe, Project SHARE
Data provided by:
U.S. Fish & Wildlife Service

Legend



Spawning Habitat



Flowing Water



Lakes & Ponds



Rearing Habitat



Town Boundary

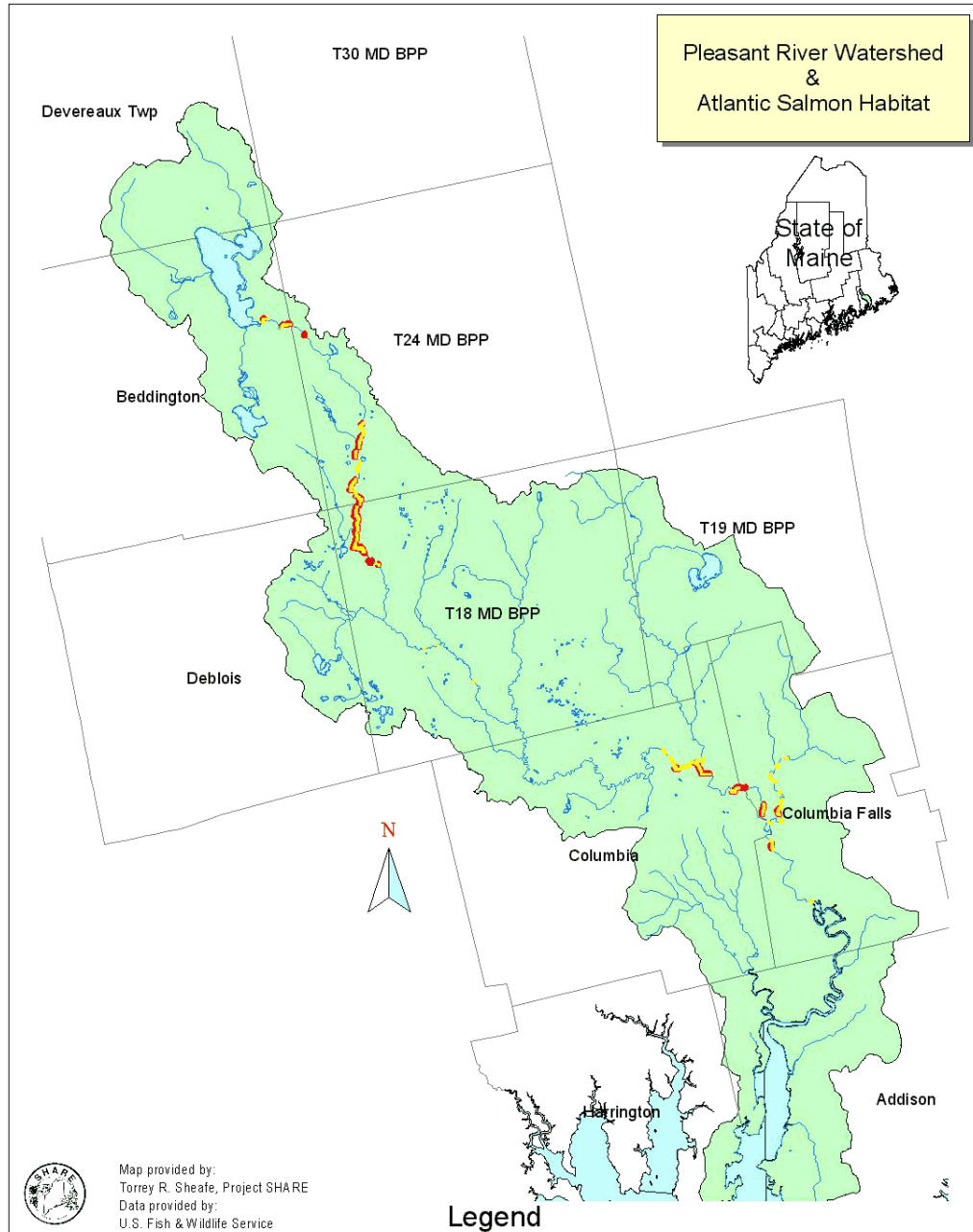
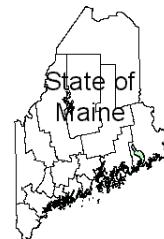


Machias River Watershed

Scale:
1:108,955

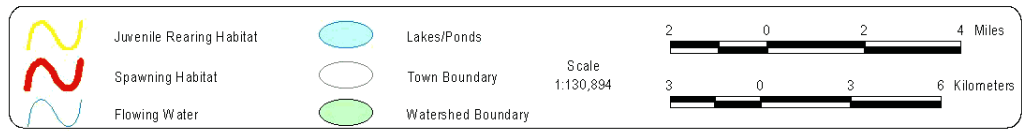


Pleasant River Watershed & Atlantic Salmon Habitat

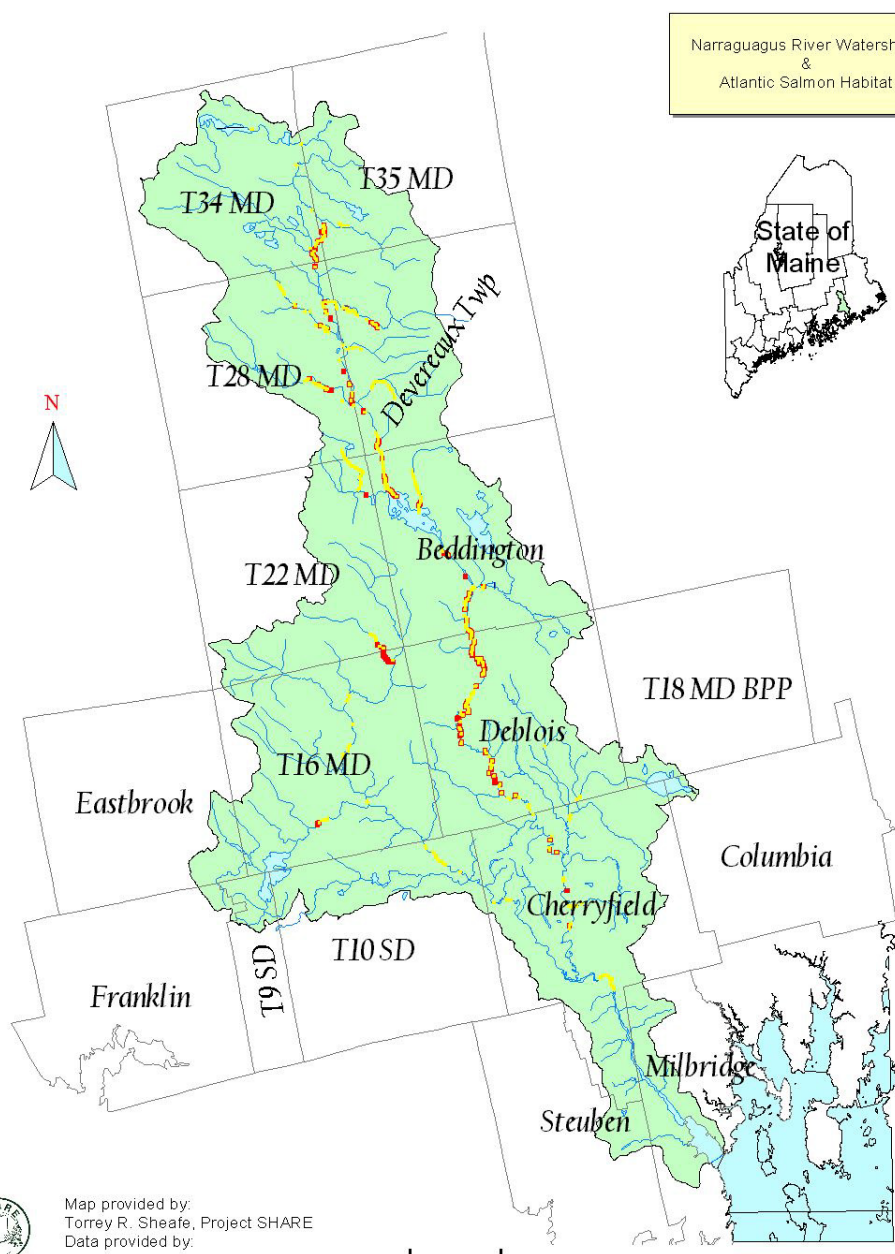
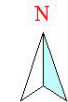


Map provided by:
Torrey R. Sheafe, Project SHARE
Data provided by:
U.S. Fish & Wildlife Service

Legend



Narraguagus River Watershed
&
Atlantic Salmon Habitat



Map provided by:
Torrey R. Sheafe, Project SHARE
Data provided by:
U.S. Fish & Wildlife

Legend

	Juvenile Habitat		Lakes, Ponds & Coast	Scale 1:110,000
	Spawning Habitat		Town Boundary	
	Flowing Water		Watershed Boundary	