

# The Christina Basin Report Card

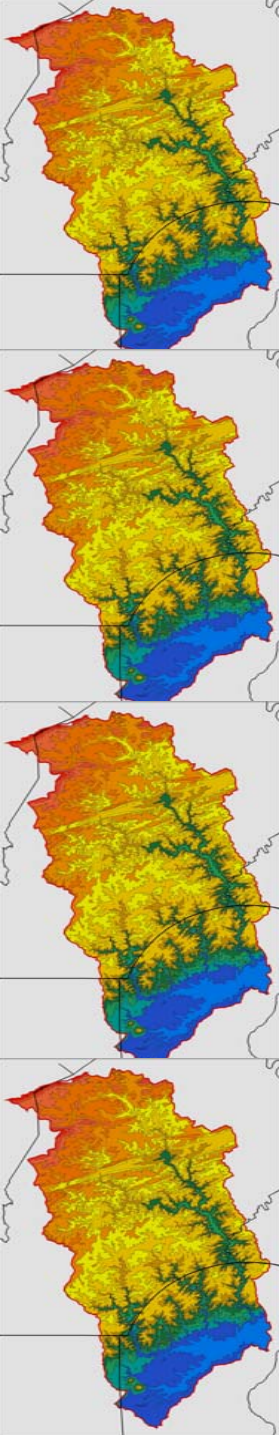
## Is the Basin Making the Grade?

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University of Delaware Policy Forum

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<u>Grade</u>	<u>Water Quality</u>	<u>Basis of Rating</u>
A	Excellent	So pure one could drink water from stream
B	Good	Meets fishable and swimmable standards, supports cold water trout fishery
C	Average	Clean enough to support warm water fishery, not swimmable
D	Unsatisfactory	Polluted, okay for boating not swimming or fishing
F	Poor	Polluted, has raw sewage and floating trash

# Indicators

- **Stream Water Quality**

Total Nitrogen

Total Phosphorus

Chlorophyll

Copper

Lead

Dissolved Oxygen

Enterococcus Bacteria

Total Suspended Solids

Zinc

- **Stream Habitat**

Aquatic Life Support

Fish Consumption Advisories

Biological Community Index

Waters of Exceptional Recreational and Ecological Significance (ERES)

Cold Water Fishery

Habitat Community Index

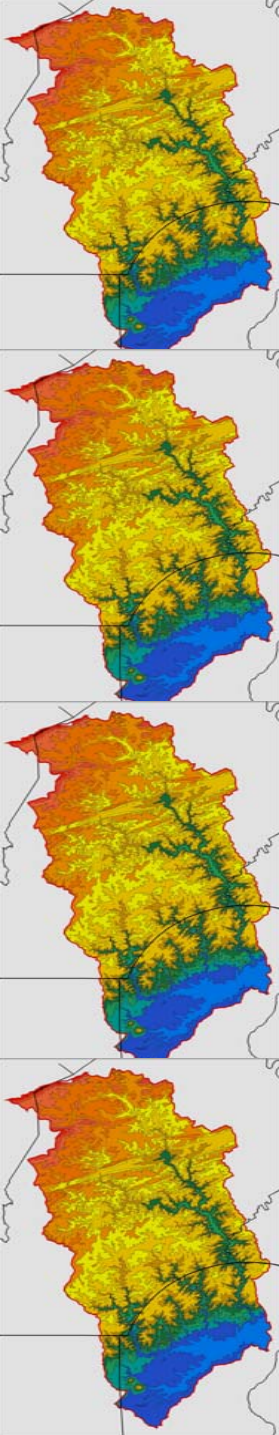
- **Watershed Health**

Population Density

Watershed Imperviousness

Delaware Hazardous Substance Sites

Forest/Open Space



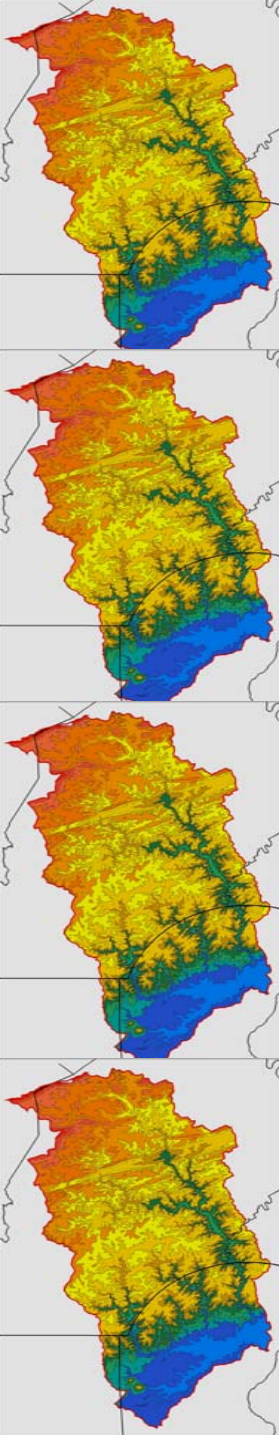
# Example of Indicator Criteria

## ***Indicator: Total Nitrogen***

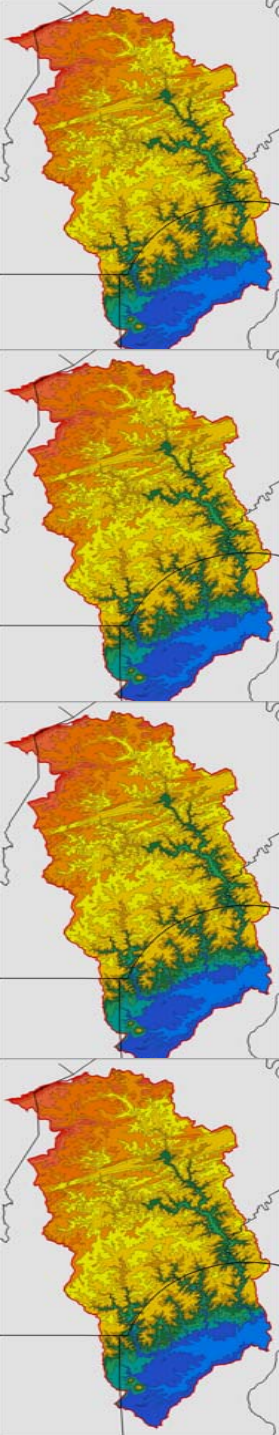
<b>A (Excellent)</b>	<0.50 mg/L
<b>B (Good)</b>	0.50 to 5.00 mg/L
<b>C (Average)</b>	5.01 to 10.00 mg/L
<b>D (Unsatisfactory)</b>	10.01 to 15.00 mg/L
<b>F (Poor)</b>	>15.00 mg/L

## ***Indicator: Watershed Imperviousness***

<b>A (Excellent)</b>	< 8%
<b>B (Good)</b>	8.1 – 15%
<b>C (Average)</b>	15.1 – 25%
<b>D (Unsatisfactory)</b>	25.1 – 40%
<b>F (Poor)</b>	> 40%



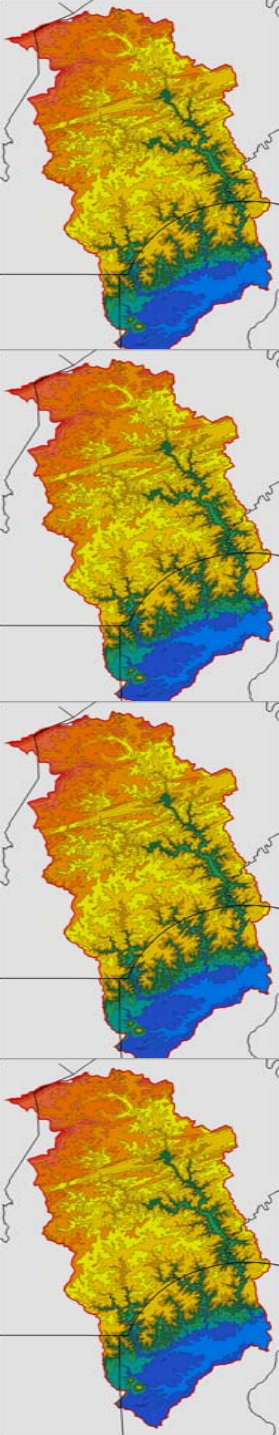
# Report Card of Subwatersheds



Subwatershed	Grade	Watershed Health
<b><u>Brandywine Creek Watershed</u></b>		
Brandywine Creek below Wilmington	C	Average
Burroughs Run	B-	Good
<b><u>Red Clay Creek Watershed</u></b>		
Red Clay Creek above Wooddale	C	Average
Red Clay Creek below Wooddale	C-	Average

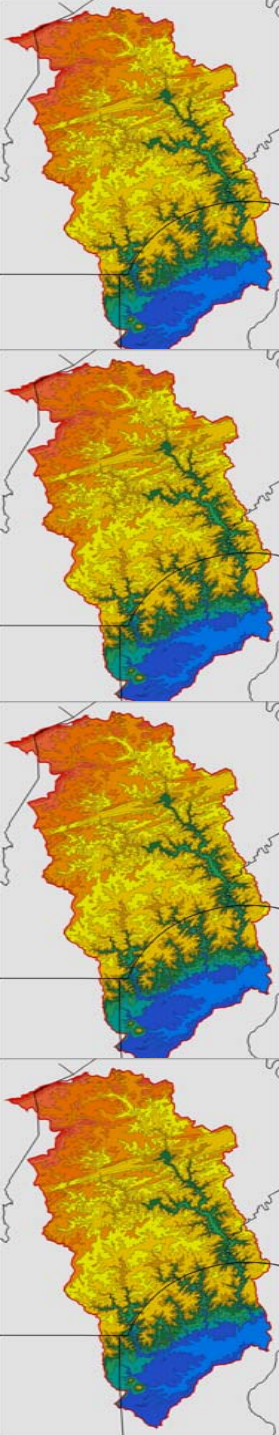
# Report Card (cont.)

Subwatershed	Grade	Watershed Health
<b><u>White Clay Creek Watershed</u></b>		
Mill Creek	C	Average
Pike Creek	C+	Average
Middle Run	B-	Good
White Clay Creek above Newark	B	Good
White Clay Creek below Newark	C-	Average
White Clay Creek tidal	C-	Average



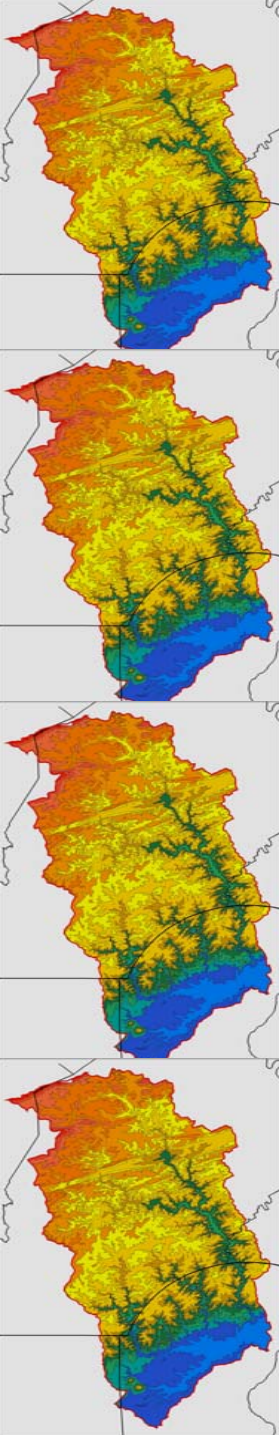
# Report Card (cont.)

Subwatershed	Grade	Watershed Health
<b><u>Christina Watershed</u></b>		
Upper Christina River above Cooches Bridge	C+	Average
Muddy Run	B-	Good
Belltown Run	B-	Good
Little Mill Creek	D+	Unsatisfactory
Christina River below Newark	C	Average
Tidal Christina River below Smalley's Pond	C-/D+	Average/ Unsatisfactory



# Report Card of Indicator Quality

Indicator	Grade
<u>Stream Water Quality</u>	<u>B-</u>
Total Nitrogen	C+
Total Phosphorus	B
Chlorophyll	C
Copper	A
Lead	D
Zinc	A-
Dissolved Oxygen	B+
Enterococcus Bacteria	C-
Total Suspended Solids	D+



# Report Card (cont.)

Indicator	Grade
<b><u>Stream Habitat</u></b>	<b><u>C</u></b>
Aquatic Life Support	D+/D
Waters of Exceptional Recreational and Ecological Significance	C+
Cold Water Fishery	B-
Fish Consumption Advisories	C+
Biological Community Index	C-
Habitat Community Index	C+
<b><u>Watershed Health</u></b>	<b><u>C-</u></b>
Delaware Hazardous Substance Sites	C-
Watershed Imperviousness	C-
Population Density	D
Forest/Open Space	C+

