

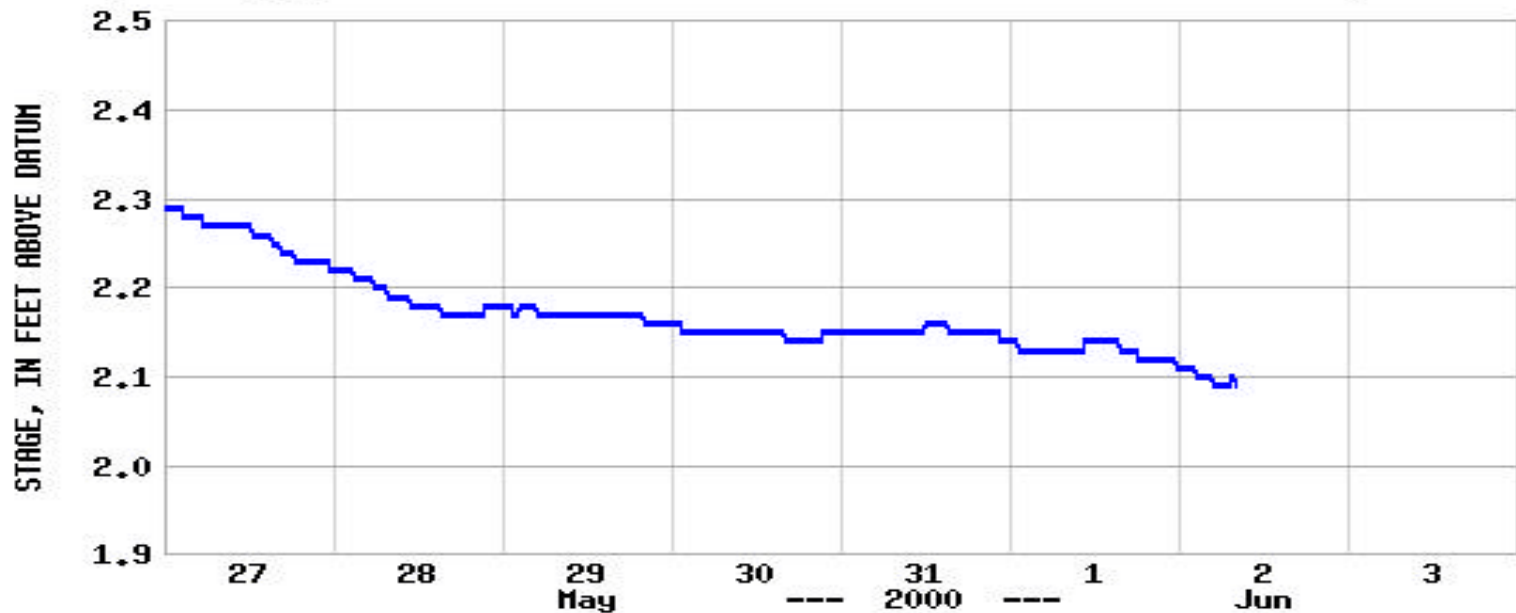
**North Fork Shenandoah,
MIF Quarterly Meeting
June 21, 2000**

**Matt Chan and Adrienne Weimer
Virginia Polytechnic Institute
and State University**

Strasburg, VA Gauge - Recent Stage Conditions



01634000 N F SHENANDOAH RIVER NEAR STRASBURG, VA



Fri Jun 2 08:00 2000

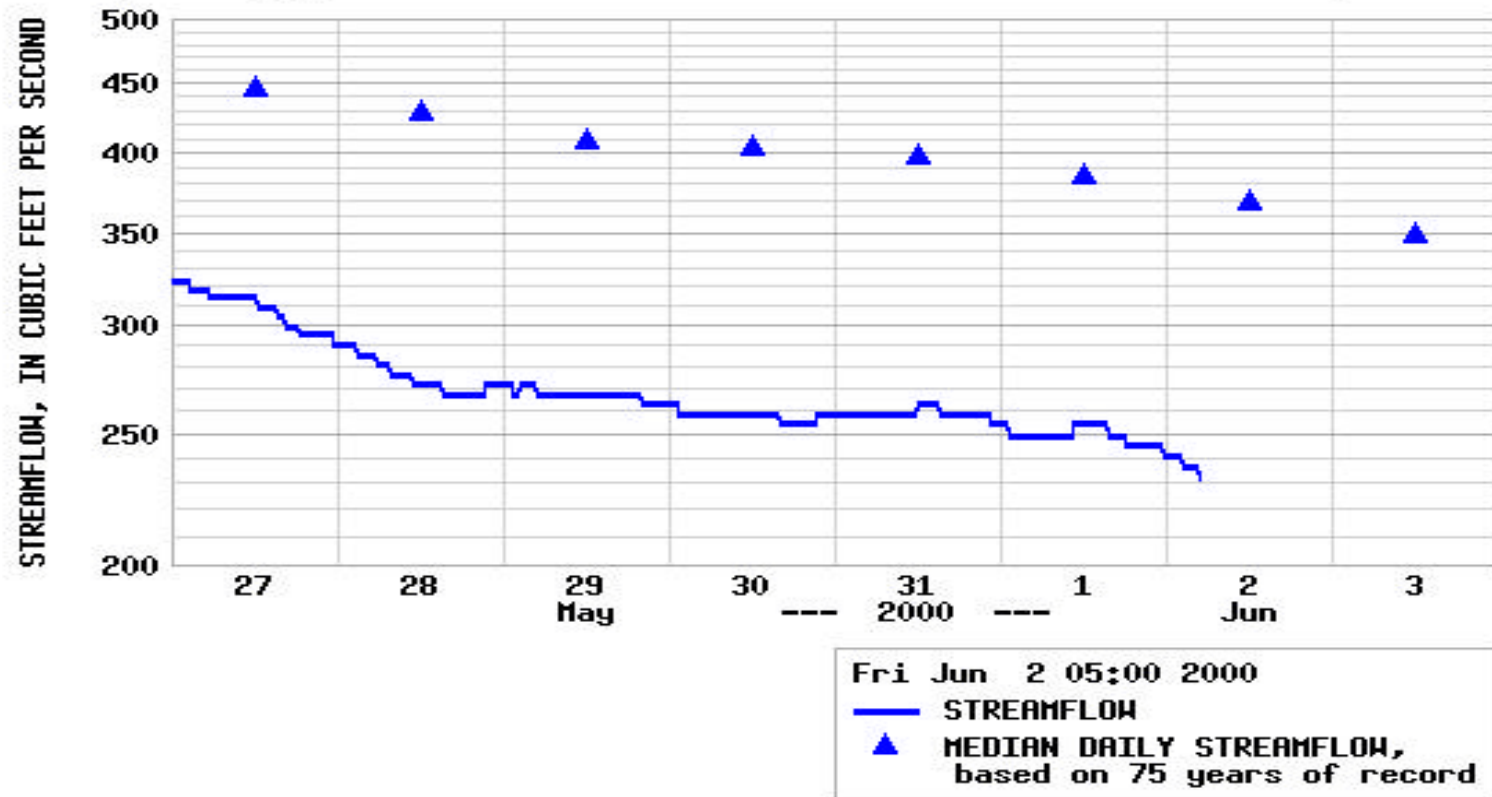
— STAGE, in feet above datum

Provisional Data Subject To Revision

Strasburg, VA Gauge- Recent Flow Conditions



01634000 N F SHENANDOAH RIVER NEAR STRASBURG, VA



Provisional Data Subject To Revision

Strasburg, VA Gauge

Daily Mean Flow Statistics(June 2, 2000)

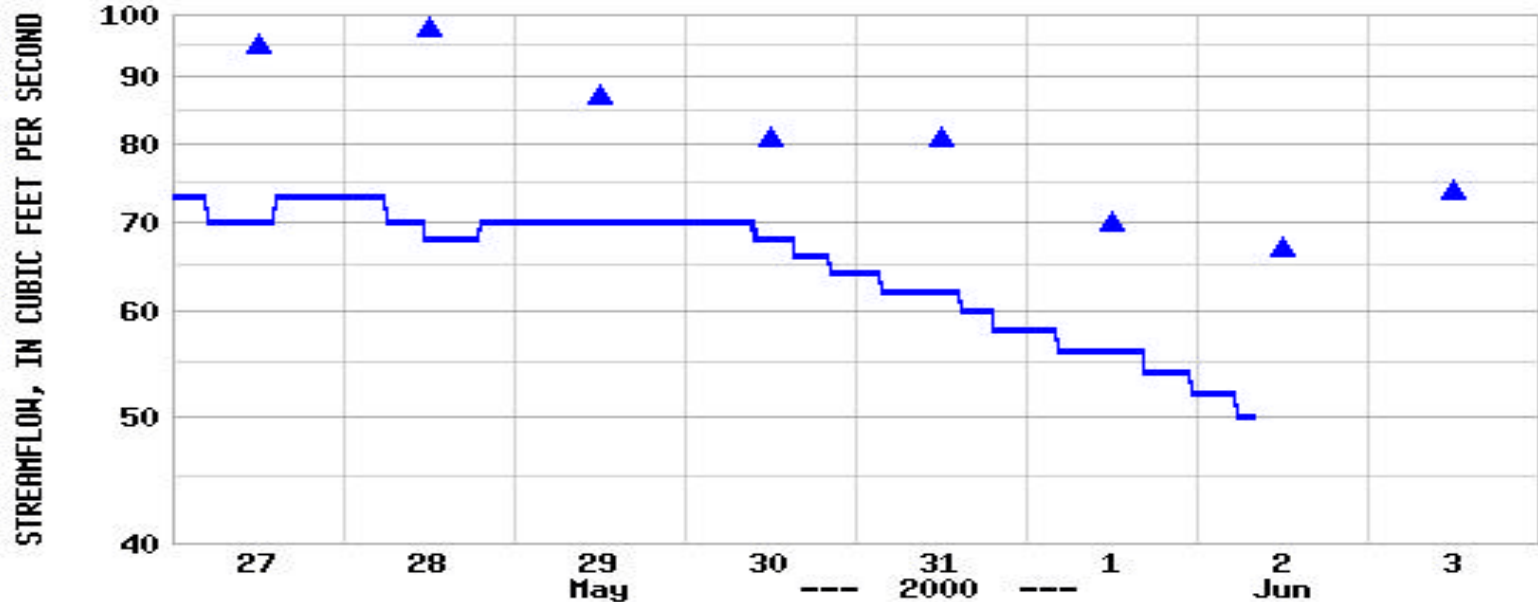
Based on 75 Years of Record, in ft³/sec

| Latest Flow (June 2 - 0800) | Min. | Mean | Max. | <u>Exceedance</u> | | |
|--------------------------------|------|------|-------|-------------------|-----|-----|
| | | | | 75% | 50% | 25% |
| 232 | 106 | 597 | 2,770 | 252 | 369 | 768 |

Cootes Store, VA Gauge - Recent Flow Conditions



01632000 N F SHENANDOAH RIVER AT COOTES STORE, VA



Fri Jun 2 08:00 2000

— STREAMFLOW

▲ MEDIAN DAILY STREAMFLOW,
based on 75 years of record

Provisional Data Subject To Revision

Cootes Store, VA Gauge
Daily Mean Flow Statistics (June 2, 2000)
Based on 75 Years of Record, in ft³/sec

| Latest Flow (June 2 - 0800) | Min. | Mean | Max. | <u>Exceedance</u> | | |
|--------------------------------|------|------|-------|-------------------|-----|-----|
| | | | | 75% | 50% | 25% |
| 50 | 8.3 | 307 | 7,390 | 34 | 67 | 200 |

Fishes of the North Fork Shenandoah

Fluvial Specialists



Fluvial Generalists



Images from Jenkins and Burkhead 1994

Fishes of the North Fork Shenandoah

Fluvial Specialists

Fast Riffle Group

**Shallow Rheophilic
Group**

Riffle Run Group

Fluvial Generalists

Pool Group

**Deep & Open
with Cover**

Fast Generalists



Image from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



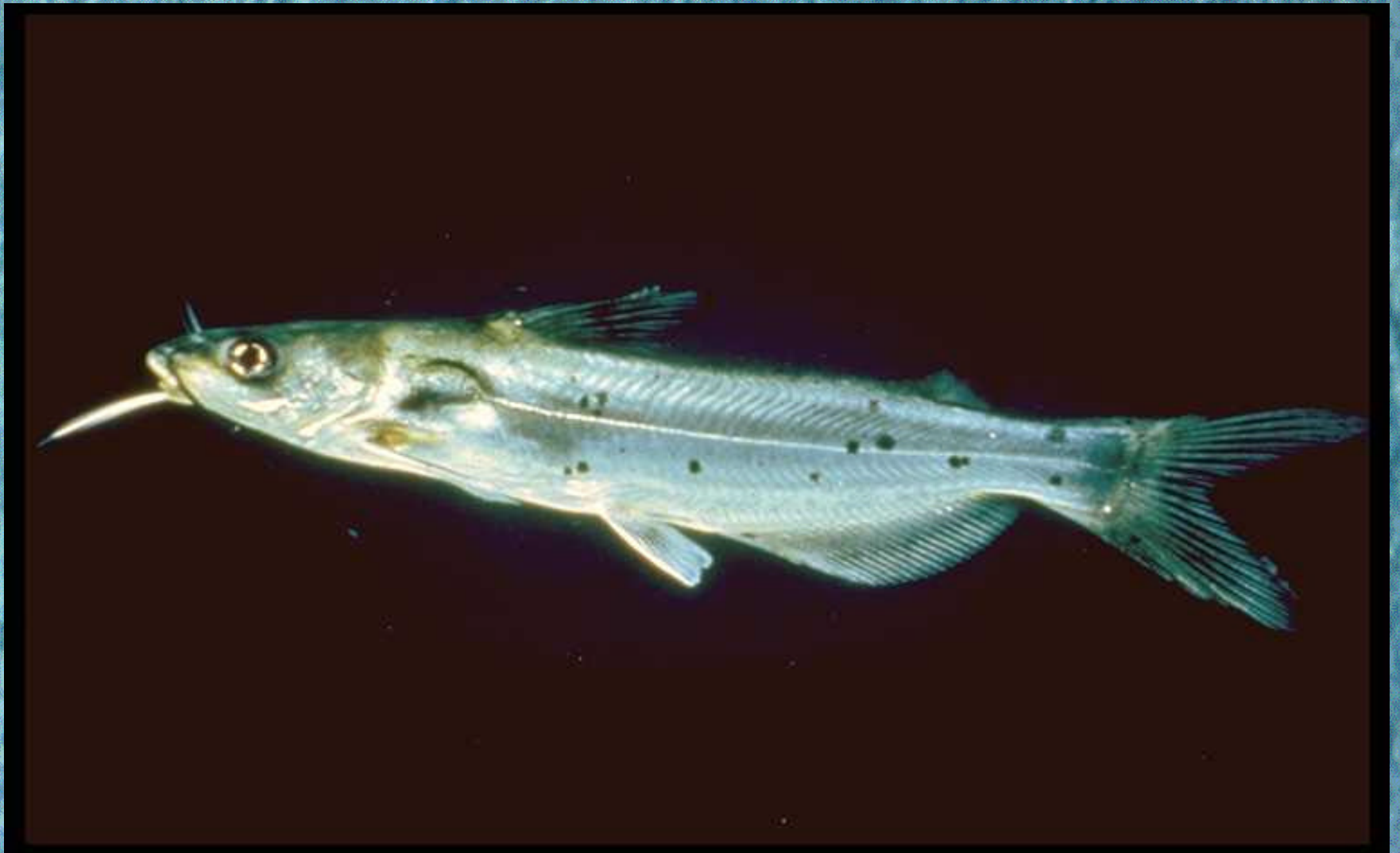
Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994



Images from Jenkins and Burkhead 1994

PHABSIM Site Selection (for Hydraulic Modeling)

| Site | Representative Habitat Type |
|--------------------------------|--|
| Winchester Pool | Artificial Pool |
| Rt. 648 or Posey Hollow | Run (w/pockets) |
| Laurel Hill Farm | Riffle & Run |
| Plain Mills | Riffle & Run |

The North Fork Shenandoah Watershed

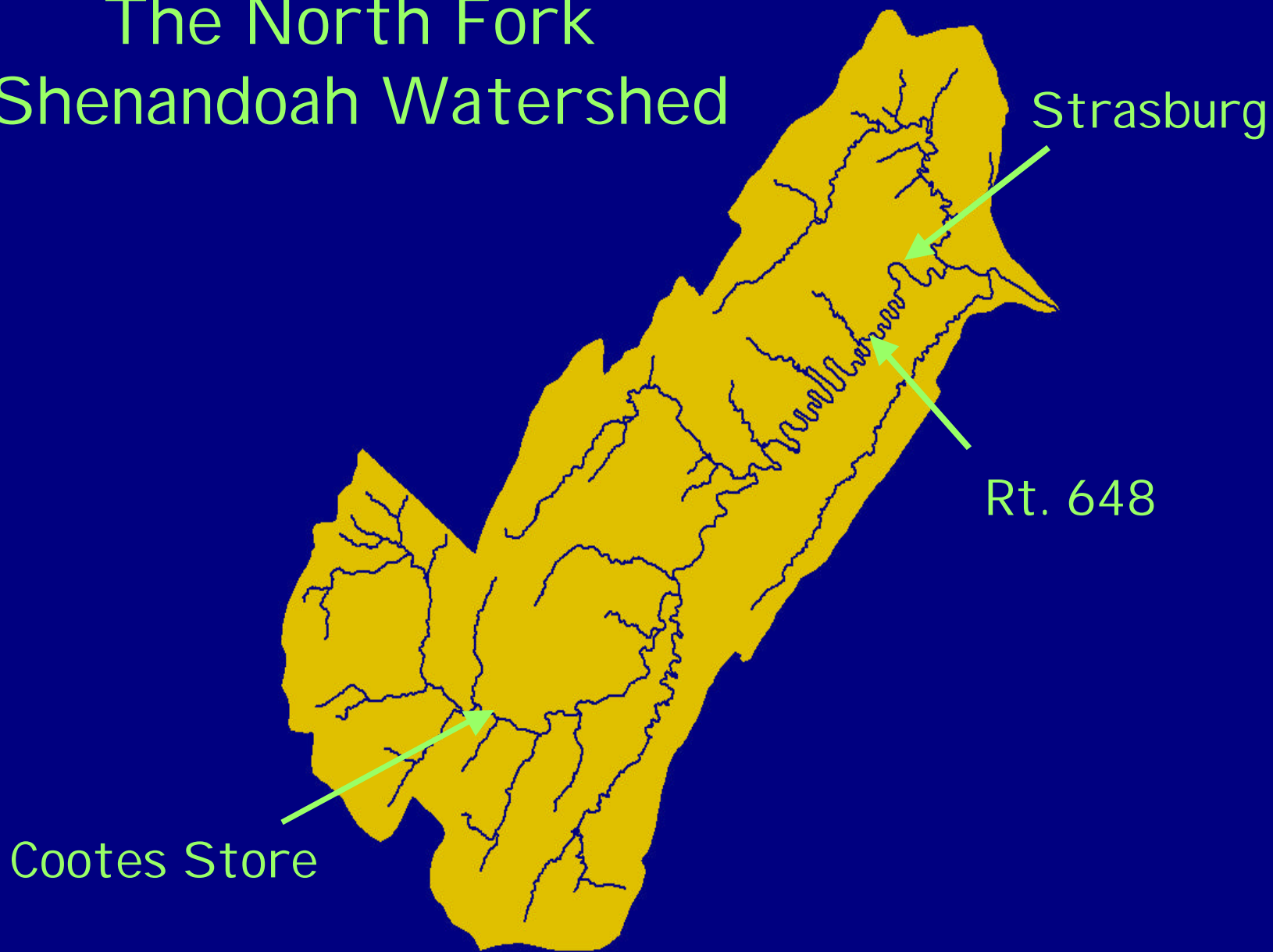


Strasburg

Winchester Pool

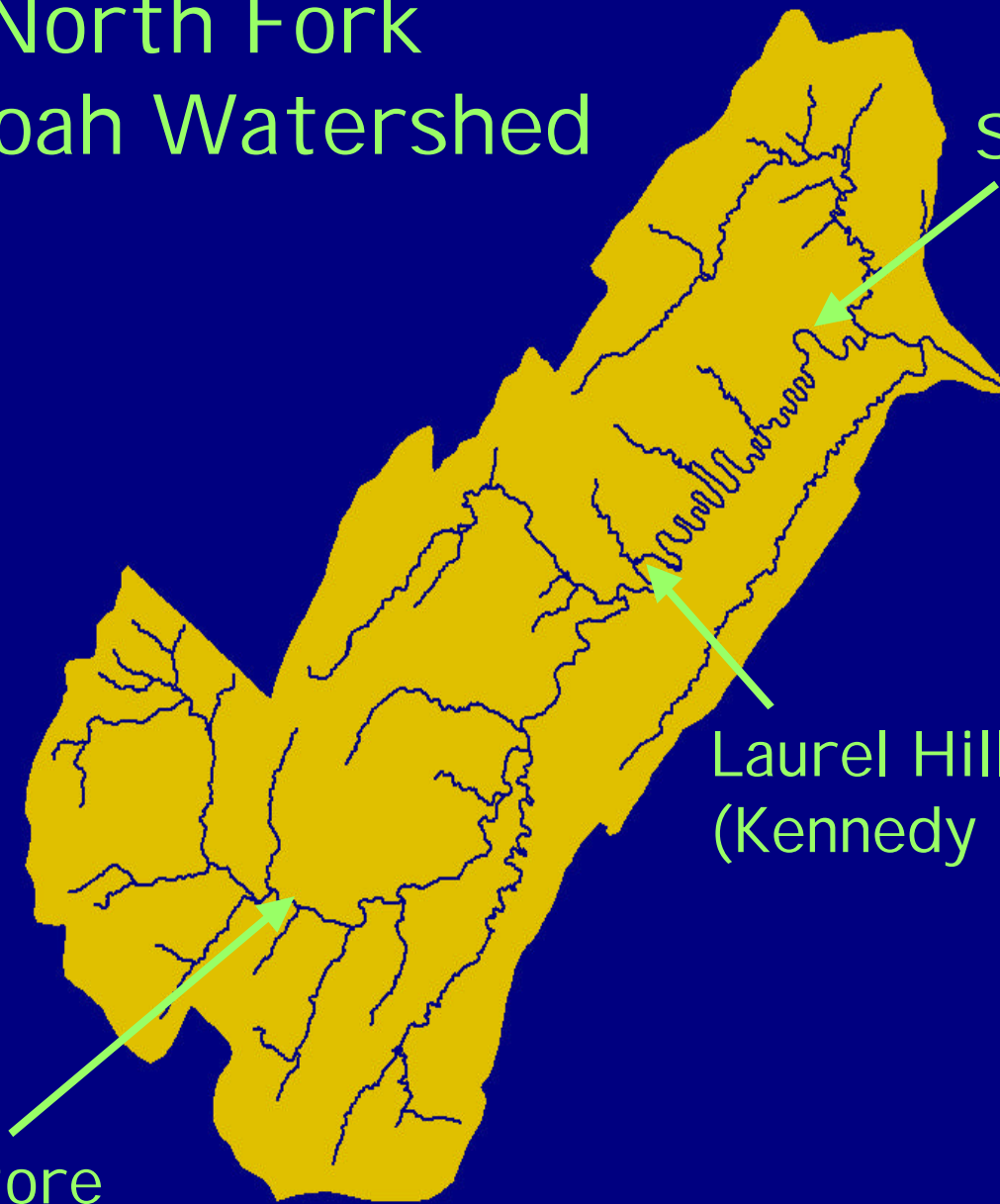
Cootes Store

The North Fork Shenandoah Watershed



The North Fork Shenandoah Watershed

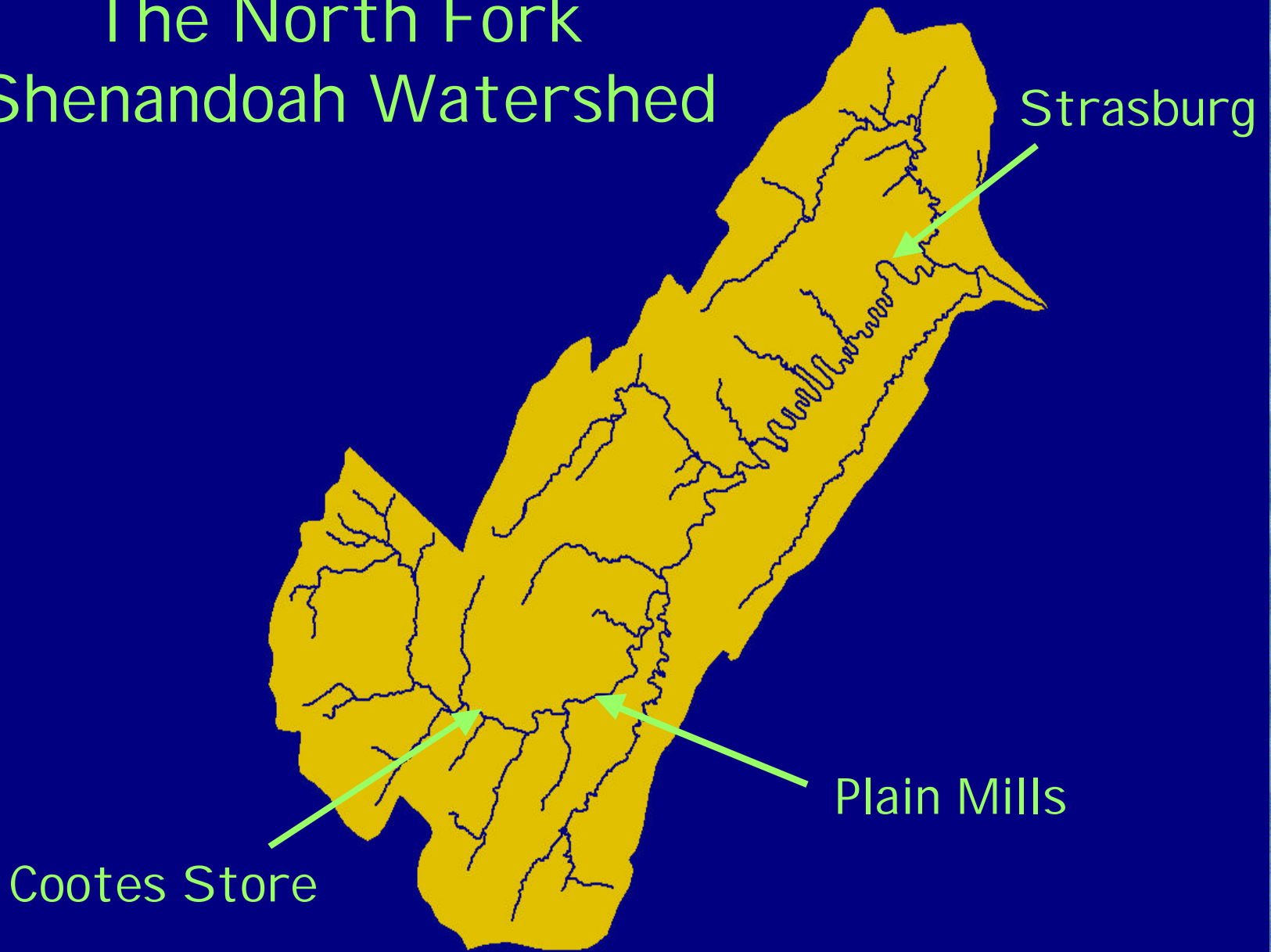
Cootes Store



Laurel Hill Farm
(Kennedy Property)

Strasburg

The North Fork Shenandoah Watershed



Images from Strayer and Jirka 1997

Pyganodon cataracta



Alasmidonta varicosa

Lasmigona subviridis



Strophitus undulatus

Images from Parmalee and Bogan 1998

