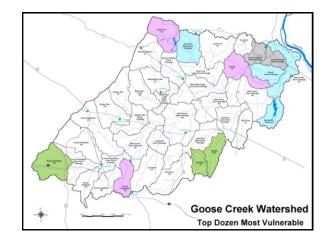


# Land Conservation in the GC Watershed

### Keys to Success

- Virginia Land Preservation Tax Credit
- Consistent program of outreach and education to landowners by multiple organizations
- Creating professional education programs
- More robust mapping and data analysis capabilities, permitting greater identification and targeting of priorities
- Supporting initiatives like the James Rowley / Goose
   Creek Conservation Fund

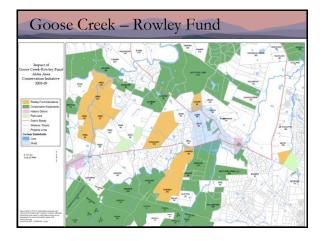


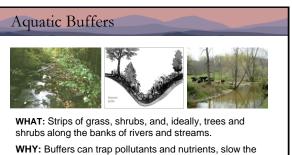
Land Conservation Priorities Conservation Easement Acreage in Vulnerable Sub-Areas, 2001-2010						
102	Little River	1,834	2,232	398	18%	52%
102	Hungry Run	2,206	2,206	0	0%	49%
105*	Goose Creek Headwaters	0	994	994	100%	12%
102	Goose Creek Headwaters	248	1044	796	76%	24%
102*	North Fork	461	580	119	21%	21%
101	Sycolin	505	818	313	38%	12%
DD*	North Fork Upper DD	357	619	262	42%	10%
	Goose Creek Watershed	44,352	81,464	37,112	46%	33%

## Land Conservation Priorities

### General study recommendations on land conservation

- Target large contiguous tracts of forested areas
- Target land along the Blue Ridge abutting the AT
- Target large parcels throughout the watershed





velocity of the water running off the land, stabilize stream banks and streambeds, cool water temperature, and provide wildlife habitat

# Aquatic Buffers

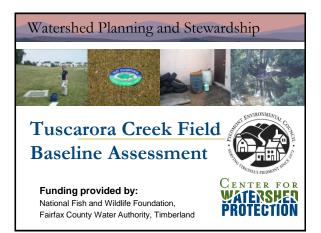
#### Study Recommendations

- Revise local ordinances to more explicitly include stream protection provisions
- Explore and distribute information on funding sources for agricultural practices
- Strengthen PDR Programs to protect key resources on a property and include measures to enhance and preserve the stream buffers
- Conservation Easement Buffer Initiative in selected subwatersheds

# Aquatic Buffers

#### **Conservation Easements and Aquatic Buffers**

- Since completing the study, riparian buffer provisions in conservation easements have gone from "recommended" to "essential".
- This change has resulted in a significant increase in the number of stream miles protected by riparian buffer provisions in the watershed between 2005 and 2010.
- In addition, numerous easement amendments in the watershed between 2005 and 2010 have resulted in "old" easements being strengthened with riparian buffer provisions



#### Tuscarora Upper and Lower DD Subwatershed Current Impervious Current Management Category % Tuscarora Upper DD 22 Urban Impacted 15 Tuscarora Lower DD Urban Impacted Subwatershed Future Impervious % Future Management Category Tuscarora Upper DD 34 Non-Supporting Non-Supporting Tuscarora Lower DD 36

# Outcomes To Date:

- Town-initiated watershed stakeholder group
- Specific recommendations for Town action
- New stormwater pond policy
- Active partnership with town and other non-profits
- Three demonstration projects completed
- Currently developing recommendations for Low Impact Development (LID) practices
- Better Site Design workshop





### Summary

### Success Stories

- Dramatic increase in protected land watershed-wide will contribute to minimizing impervious surface in the future
- Growing priority placed on riparian buffer provisions in conservation easements will result in significantly more protected stream miles over the long term
- Persistent outreach and education contributing to creation of community-wide "conservation ethic"
- Community involvement leads to changes in governmental policies

## Summary

### **Challenges & Opportunities**

- Need to more explicitly include stream protection provisions in local ordinances
- Watershed-wide land conservation success tempered by need for more conservation in areas prioritized in study
- Opportunity for landowners with "older" conservation easements to strengthen with riparian buffer provisions
- Opportunity to achieve greater implementation by landowners of riparian buffers and other voluntary agricultural BMPs through increased funding(?), outreach, and education.

