

We work with the people who work the land.

Landowner Conservation Programs







1

Changing Landscapes: Development



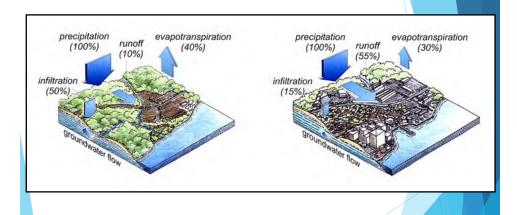
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Changing Landscapes: Imperviousness

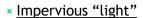


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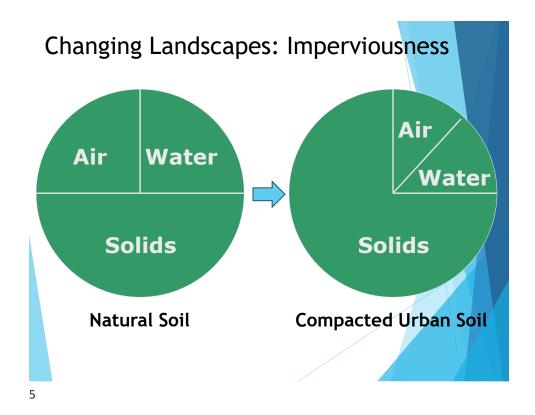
Changing Landscapes: Imperviousness

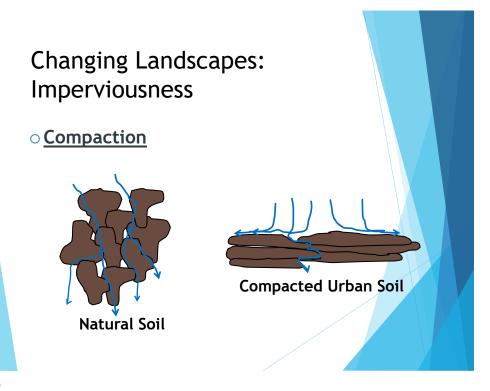
Compaction

- Causes significant loss in pore space
- Reduces the ability of air and water to infiltrate into the soil











More Runoff: The Results

Impervious surfaces and compacted soil create increased runoff volumes.

Without a suitable flow path, those increased volumes can lead to...

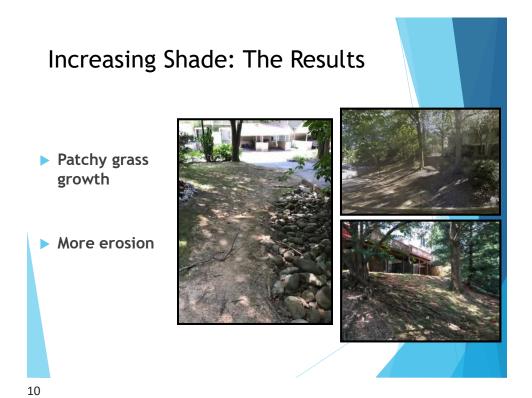
- Flooding
- **Erosion**
- Waterlogging







Changing Landscapes: Increasing Shade 1990 2023



Assistance Available

The Northern Virginia Soil and Water Conservation District serves small landowners, clusters and HOAs through three programs

Flood Mitigation AssistanceProgram (FMAP)

Provides
Grant Funding

► The Conservation Assistance Program (CAP)

Residential Technical Assistance Program (RTA)

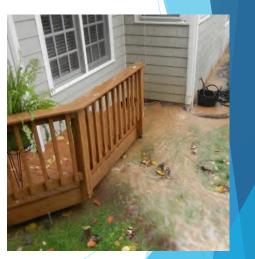
Provides Ideas & Advice

▶ Home Turf

11

FMAP: Flood Mitigation Assistance Program

- ► For structural flooding
- ➤ 50% reimbursement for eligible floodproofing practices, up to \$5,000
- ► Launched July 1st



FMAP: Flood Mitigation Assistance

Program

► Funded by the Stormwater Service District Fee

- Approved List of Practices
 - ▶ 25 practices
 - ▶ "Other" category

Practice	Description	County Review Requirements
Install permanent glass protection materials or floodproof windows	During significant flooding wents, moving debris or simple pressure can break windows that are not adequately protected. Fermanent glass protection can prevent damage from flooding and other extreme weather events. Floodippool windows or those with glass protection are passive systems that protect from sising floodward and debris impact. They are hypically hurricone impact—treated and tested to withstand more than 10° of water and large object collision.	No reviews or permits needed.
Install basement window covers	Fixed, translucent, water-tight covers installed on near grade or below grade basement windows provide increased protection against surface flooding. To significantly increase effectiveness, basement window protection should be custom fitted and installed, as studies have shown inexpensive, plastic models offer minimal protection.	No reviews or permits needed.
Install custom	A ground floor or basement window well should have a centrol drain that is either connected to an interior or	Before you begin: Approved practices may require applying for and the issuance by Land Developmen Services of building and/or mechanical, electrical, and electrical processing the services of the services

13

FMAP: Flood Mitigation Assistance Program

- ► How to apply
 - Install a practice on the approved list
 - ▶ Save receipts, take pictures
 - ► Apply after work completed
 - Reimbursement nearly guaranteed



Listed Practice: Sump Pump Battery Backup

- Install a practice not on approved list
 - ► Save receipts, take pictures
 - Apply as "other" category after work is completed
 - Reimbursement on case-by-case basis



Unlisted Practice: Downspout Extension and Catch Basin

FMAP: Flood Mitigation Assistance Program

- Uncertain?
 - Consult with Conservation District first
 - Good for those who want to install practice not on approved list
 - ► Good for those who don't know what practice to install
 - Good for those who want second opinion



15

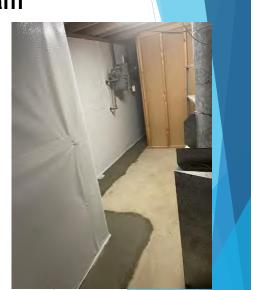
FMAP: Flood Mitigation Assistance Program

- ▶ Who may apply?
 - Homeowners and renters
 - ► HOAs and Condo Associations
 - ▶ Places of Worship
- Who may not?
 - Commercial properties
 - Properties in Towns of Vienna & Herndon



FMAP: Flood Mitigation **Assistance Program**

- ► Next Steps: Publicity!
 - ▶ Increase awareness and applications
 - ► Goal is thousands of applications/year
 - ► To date: \$45,111 in grant money disbursed to 24 applicants



17

FMAP: Flood Mitigation **Assistance Program**

▶ Next Steps: Publicity!

https://www.fairfaxcounty.gov/ soil-water-conservation/fmap





Conservation Assistance

Program (CAP)

For flooding and/or erosion problems in the yard.

- Eligible projects solve the drainage or erosion problem while benefitting local water quality
- Only certain types of projects qualify



19

CAP: Eligible Practices

- Conservation Landscaping
- Rain Gardens/Bioretention
- Dry Wells/Infiltration Trenches
- ▶ Permeable Paving
- ► Impervious Surface Removal
- Rainwater Harvesting
- ▶ Green Roofs
- Constructed Wetland
- Vegetated Stormwater Conveyances
- Living Shorelines



CAP: Eligible Practices

- ConservationLandscaping
 - ▶ a.k.a. native plants!
- Specs
 - Must replace turf or bare soil or soak up excess runoff
 - Use only species native to VA
 - Can be a meadow, trees, or a mulched bed
 - ▶ Planting density must be high



80% cost-share with a \$7,000 cap

21

CAP: Conservation Landscaping





80% cost-share with a \$7,000 cap

CAP: Conservation Landscaping



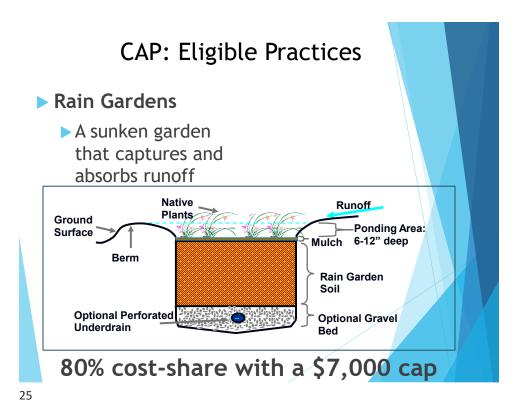
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CAP: Conservation Landscaping



80% cost-share with a \$7,000 cap

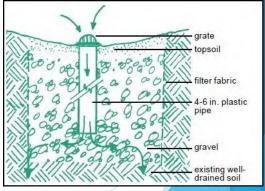


CAP Eligible Practices

Dry Well

▶ Buried pit of gravel that

absorbs runoff



80% cost-share with a \$7,000 cap

27



Conservation Assistance Program: Water Quality Practices

- ▶ Permeable Paving
 - Allows runoff to soak down into gravel base



\$14/square foot up to \$20,000

29







31

CAP: Impervious Surface Removal



\$10/square foot with a \$20,000 cap

Conservation Assistance Program: Maintenance

All projects that receive funding must be maintained for 10-years!









33

Conservation Assistance Program: How to Apply

- Submit a site visit request
- Conservation District staff will visit, determine which CAP projects aresuitable
- Submit your application to Conservation District for review
- Start construction <u>after</u> District approval
- District inspects project after installation and reimburses applicant
- Practice must be maintained for 10 years







Conservation Assistance Program: Who Can Apply?

- Residential property owners
- Homeowners or Condo Associations
- Places of Worship
- ▶ Commercial Properties
- Vienna and Herndon property owners are eligible







35

Conservation Assistance Program: Who Can Apply?

https://www.fairfaxcounty.gov/soil-water-conservation/vcap









The Home Turf Program

- ► Master Gardeners visit your home
 - ► Measure the lawn area
 - ▶ Identify types of grass & weeds
 - ► Collect soil for testing
 - Create a nutrient management plan for proper lime and fertilizer application
- ► The most ecologically sensitive lawn is one that is healthy and lush

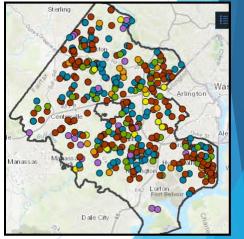




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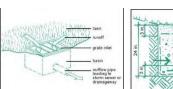
Residential Technical Assistance

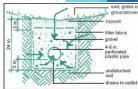
- ▶ Technical consultations with our staff concerning:
 - ▶ Drainage problems
 - Erosion issues
 - ► Landscaping problems



Residential Technical Assistance

- What it does
 - ▶ Diagnoses problems
 - Suggests solutions
 - Provides second opinions
- What it doesn't do
 - ▶ Take sides in disputes
 - Provide grants









39

Take Advantage!



- ► Home Turf Program: http://fairfaxgardening.org/home-turf/
- Residential Technical Advice: conservationdistrict@fairfaxcounty.gov

FMAP Questions?

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RTA Questions?

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