

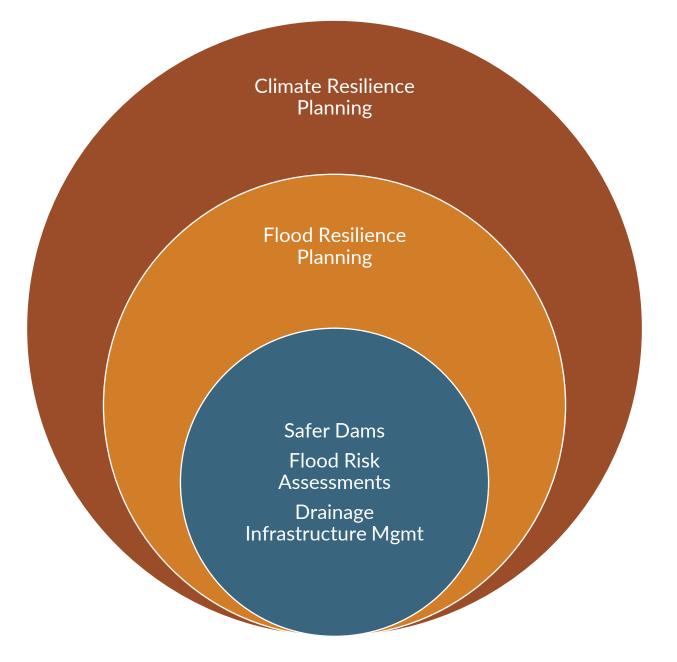
Flood Resilience through Investments in Infrastructure

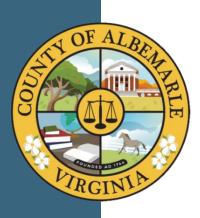
Presentation to LUEPC

Greg Harper, P.E. Albemarle County - Chief of Environmental Services

December 15, 2023



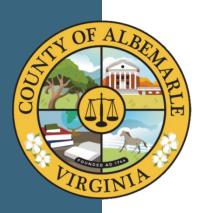


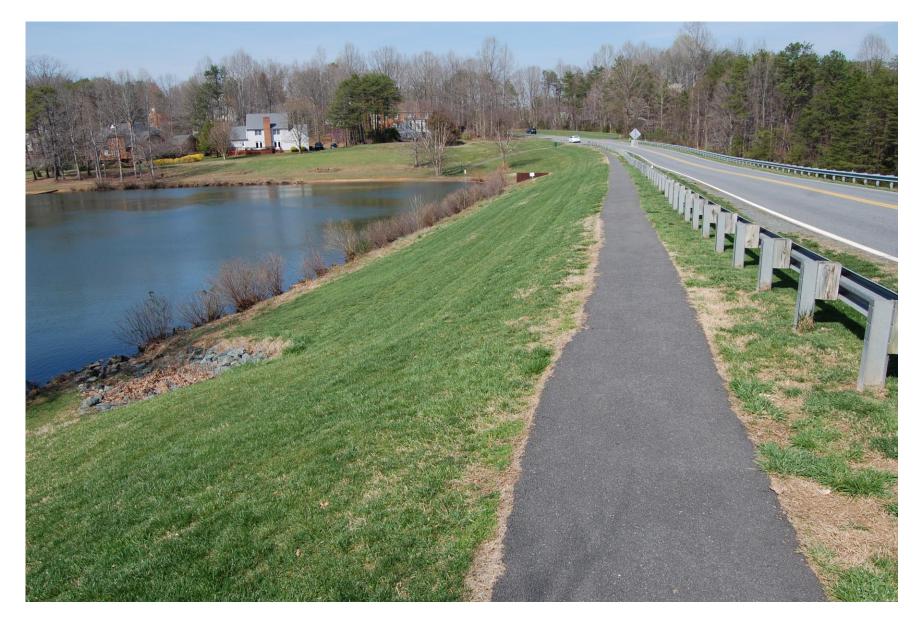


Safer Dams through Owner Outreach and Assistance

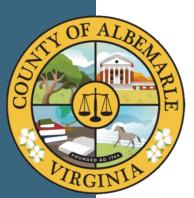


<image/>			2	Mint Sprängs Jaley Park Jozet 240
Name of Dam	Year Built	Hazard Potential Class	Use	Batesville Hillcrest 53 Nonth Gard Walnut Creek Park
Chris Greene Park	1968	High	Recreation	
Hillcrest	1970	Low	Amenity	Covesville
Hollymead	1974	High	Amenity	Fluvanna G. Esmont
Mint Springs Park – Upper	1961	High	Recreation	6 Contraction Scottisville
Mint Springs Park - Middle	1961 (modified)	High	Recreation (originally water supply)	
Walnut Creek Park	1990	Low	Recreation	4





Hollymead Dam (2016)





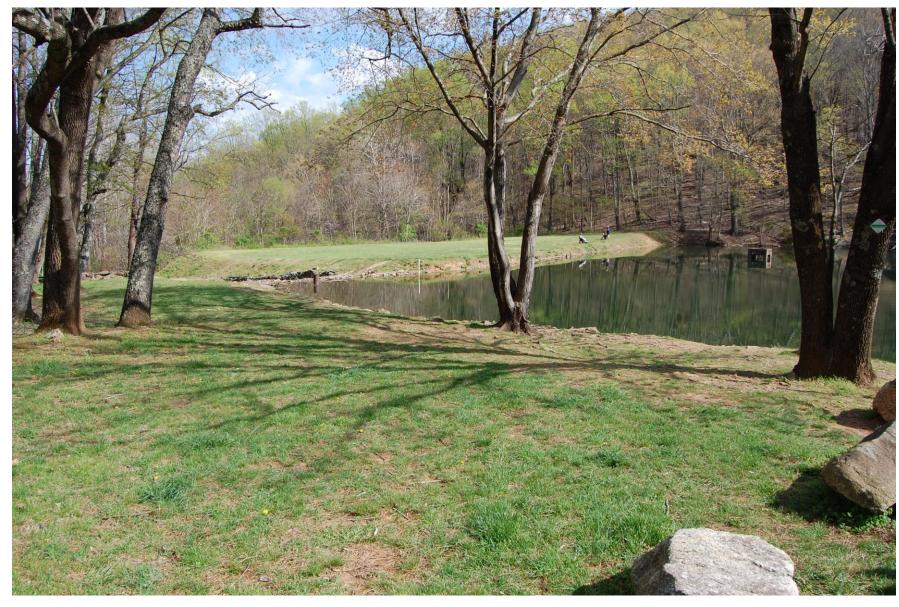
Hollymead Dam Improvements – 2018-2019



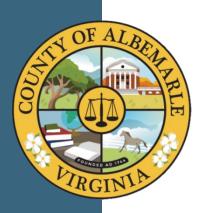


Hollymead Dam Improvements – 2018-2019



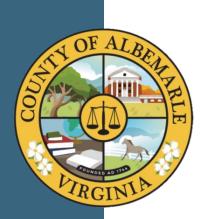


(Proposed) Mint Springs Valley Park Dam Improvements – 2023-2025





(Proposed) Mint Springs Valley Park Dam Improvements – 2023-2024



Community Development Dept.

- receives and adds DBIZs* to composite layer on GISWeb
- DCR, dam owner, and developers are notified if proposed development lies within DBIZ

*DBIZ - dam break inundation zone

250

Batesville

Earlysville

harlottesville Alben

Woodridge

Scottsville

Keene

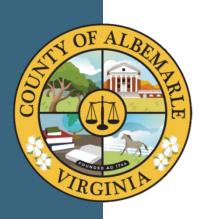
smont

Keswick



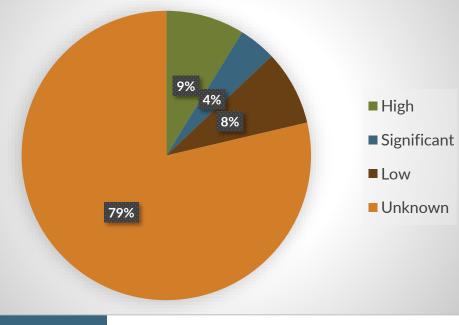
FEMA Collaborative Technical Assistance Program

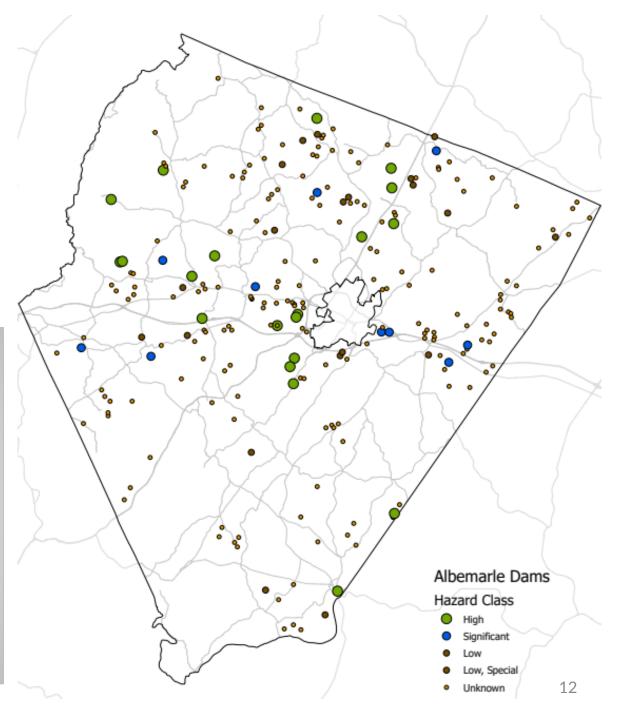
- assist communities to "better understand their risk-landscape and the potential consequences of dam-related emergencies"
- one and two-day work sessions each month from April to August 2023



Information from DCR

State Regulated Dams in Albemarle County







Private Dam Owner Outreach

Intent:

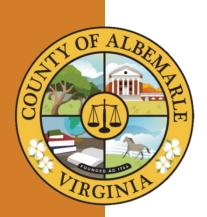
- reach reluctant dam owners
- increase their awareness and participation
- improve dam operation and maintenance
- increase County knowledge (fewer unknown dams)
- decrease overall community risk



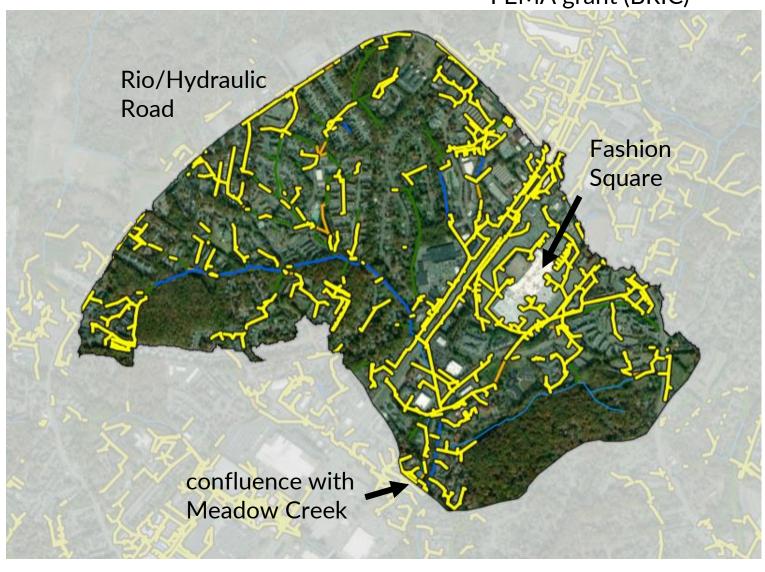
Private Dam Owner Outreach

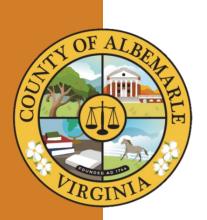
Dam owner workshop(s) – winter/spring

- clarify Virginia regulations
- connect to technical and financial resources
- partner with DCR, TJSWCD, RWSA
- consultants on hand as SMEs



Branchlands Watershed FloodRisk Assessmentsupported by \$96,261FEMA grant (BRIC)





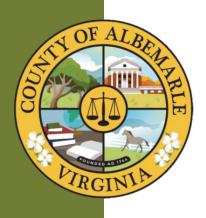
Branchlands Watershed Flood Risk Assessment

- create models for present and future (2070) conditions:
 - rainfall
 - land cover
- identify greatest flood risks
- identify mitigation activities/projects
 - creating more detention, including floodplains
 - upsizing pipes
 - green infrastructure
 - community awareness



- a program to maintain public stormwater conveyance infrastructure on private property in the County's urban areas

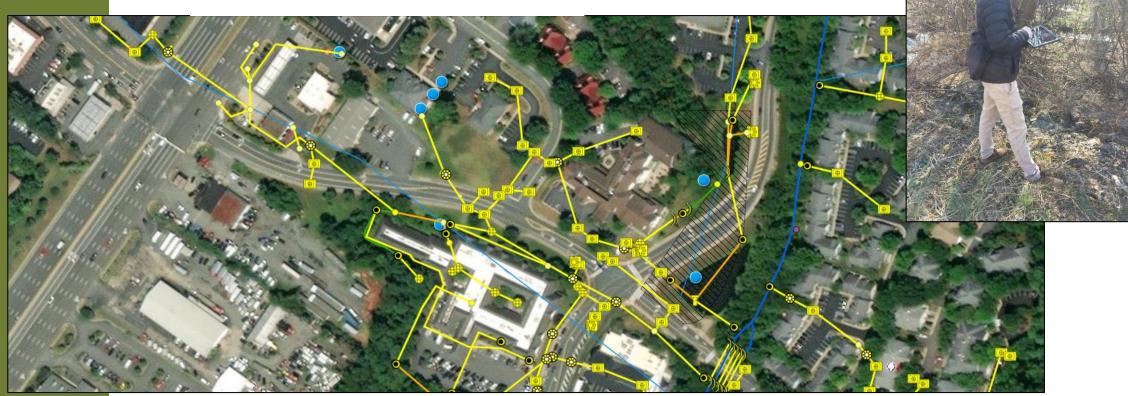


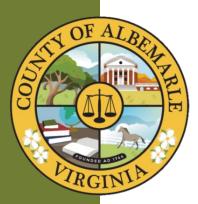






• mapping





Drainage Infrastr. Management

• cleaning and assessing





Risk of Failure

Moderate Defects

Minor Defects

Good Condition

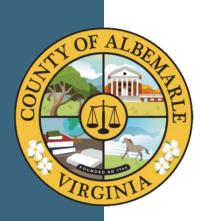




prioritization and repairs







Questions?