

TOO MUCH WATER – NOT ENOUGH WATER

2025 RIVANNA RIVER BASIN COMMISSION

ANNUAL CONFERENCE

DAVID J. HIRSCHMAN

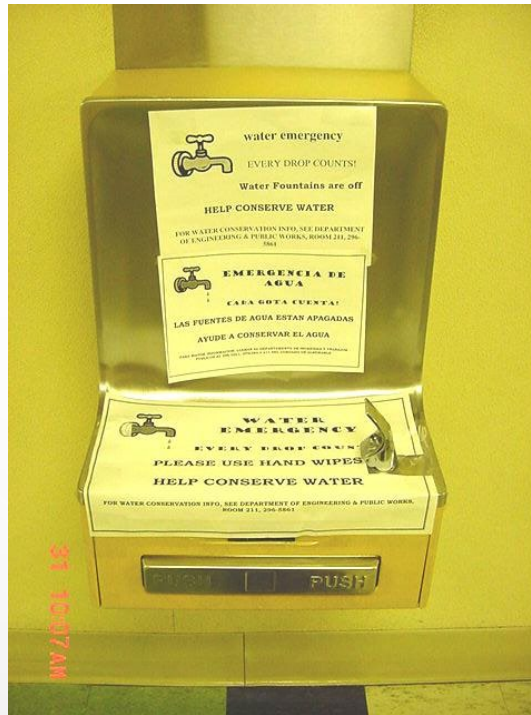
HIRSCHMAN WATER & ENVIRONMENT, LLC





**Too
Much
Water!**



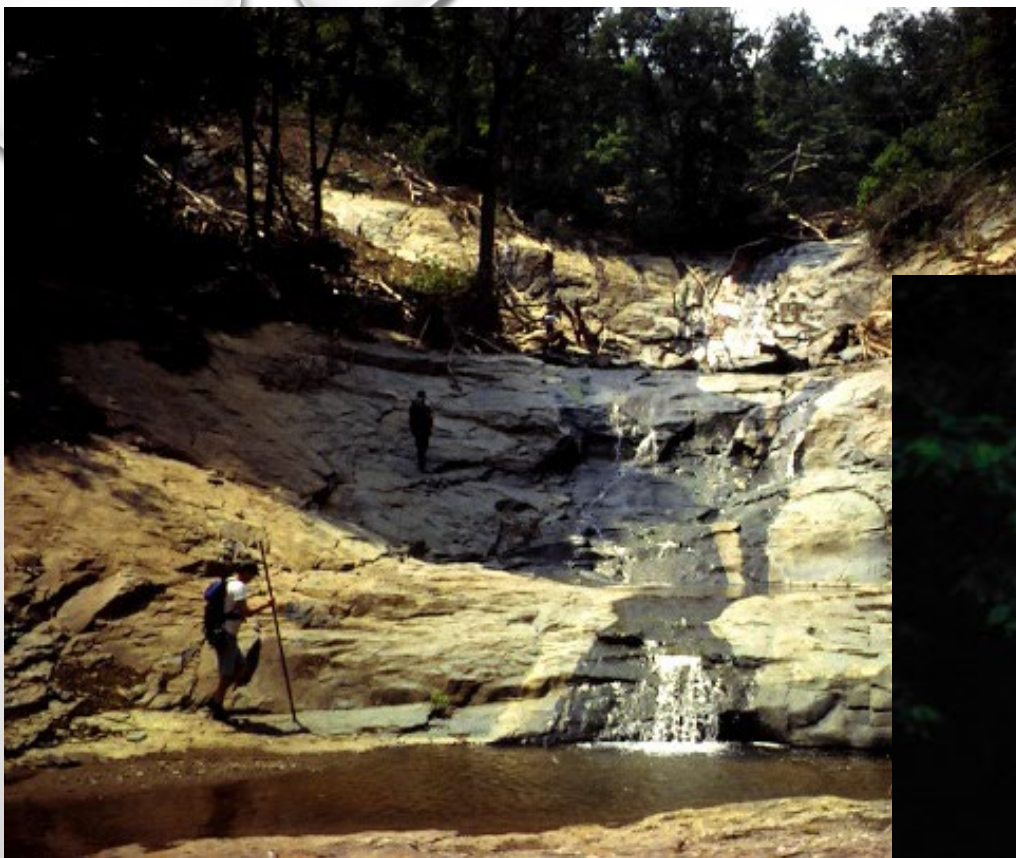


Not Enough Water!



**Too
Much
Water!**
**June,
1995**







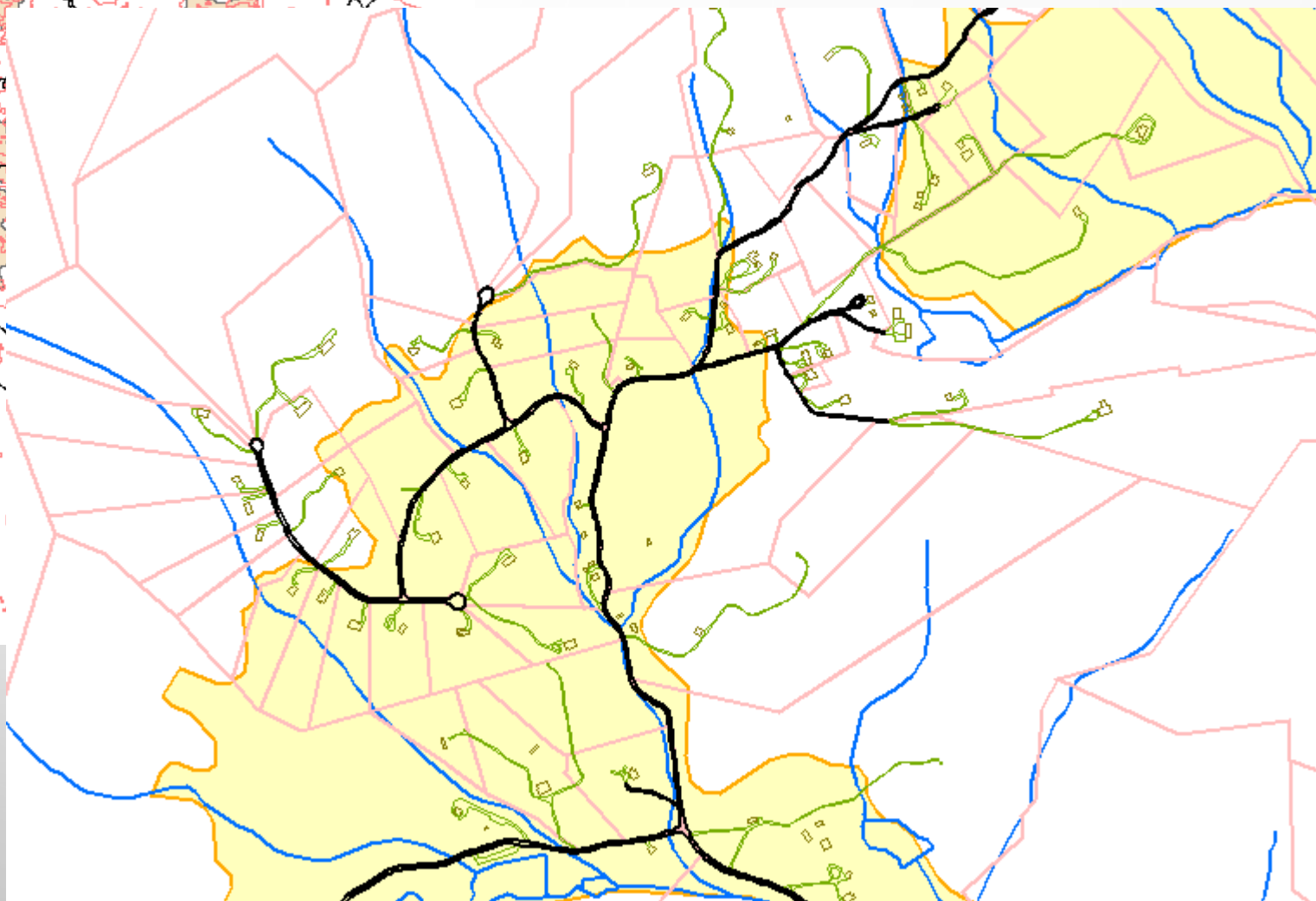
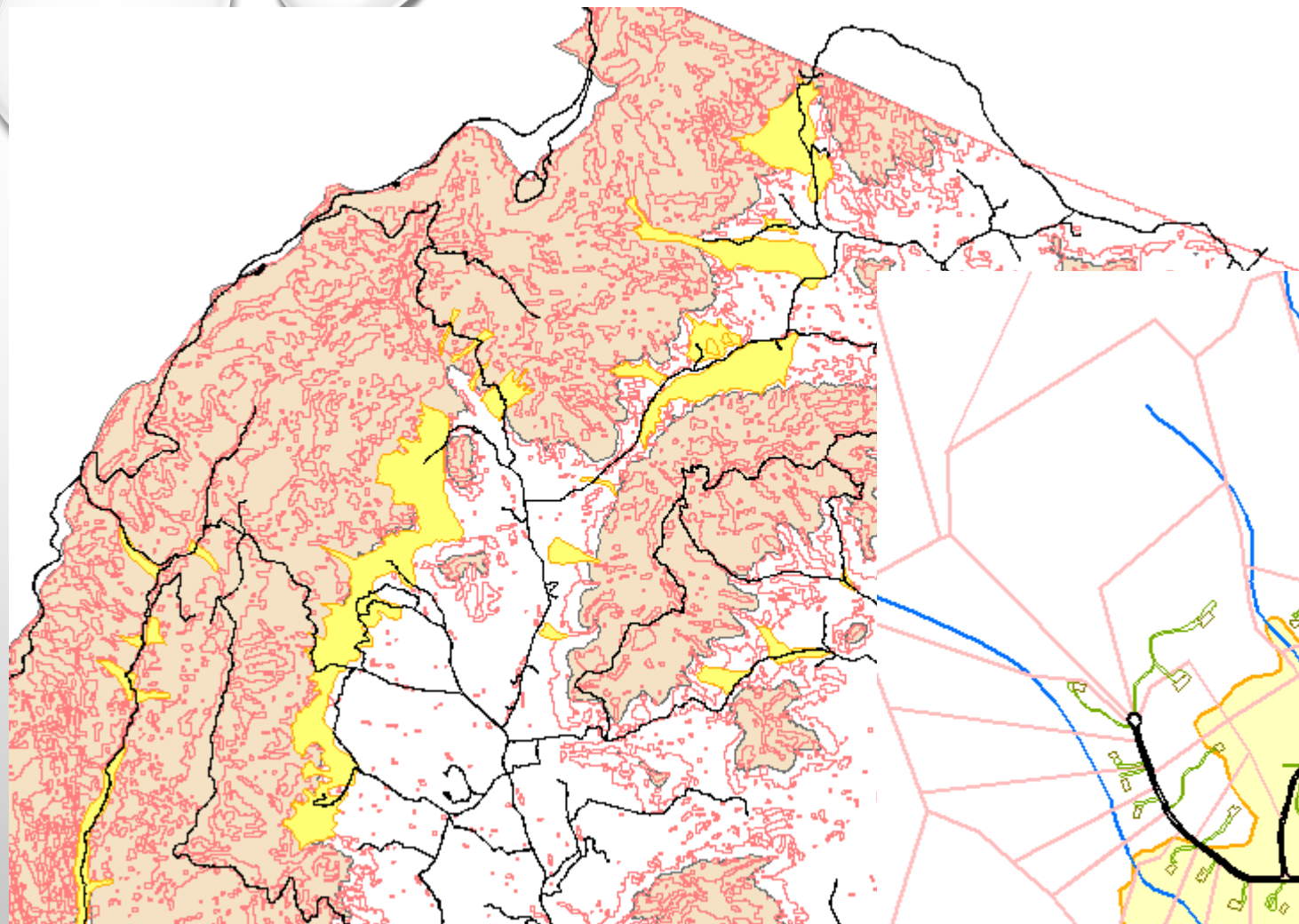




River, Ye Shall Submit!

But Daddy, it's not as fun to play in anymore.





DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

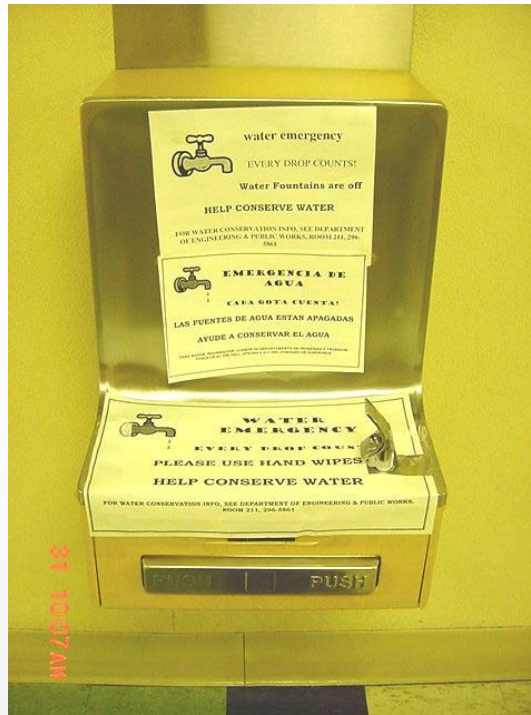
**DEBRIS FLOWS AND LANDSLIDES
RESULTING FROM THE JUNE 27, 1995, STORM
ON THE NORTH FORK OF THE MOORMONS RIVER,
SHENANDOAH NATIONAL PARK, VIRGINIA**

BY

MORGAN, B.A.¹ AND WIECZOREK, G.F.¹

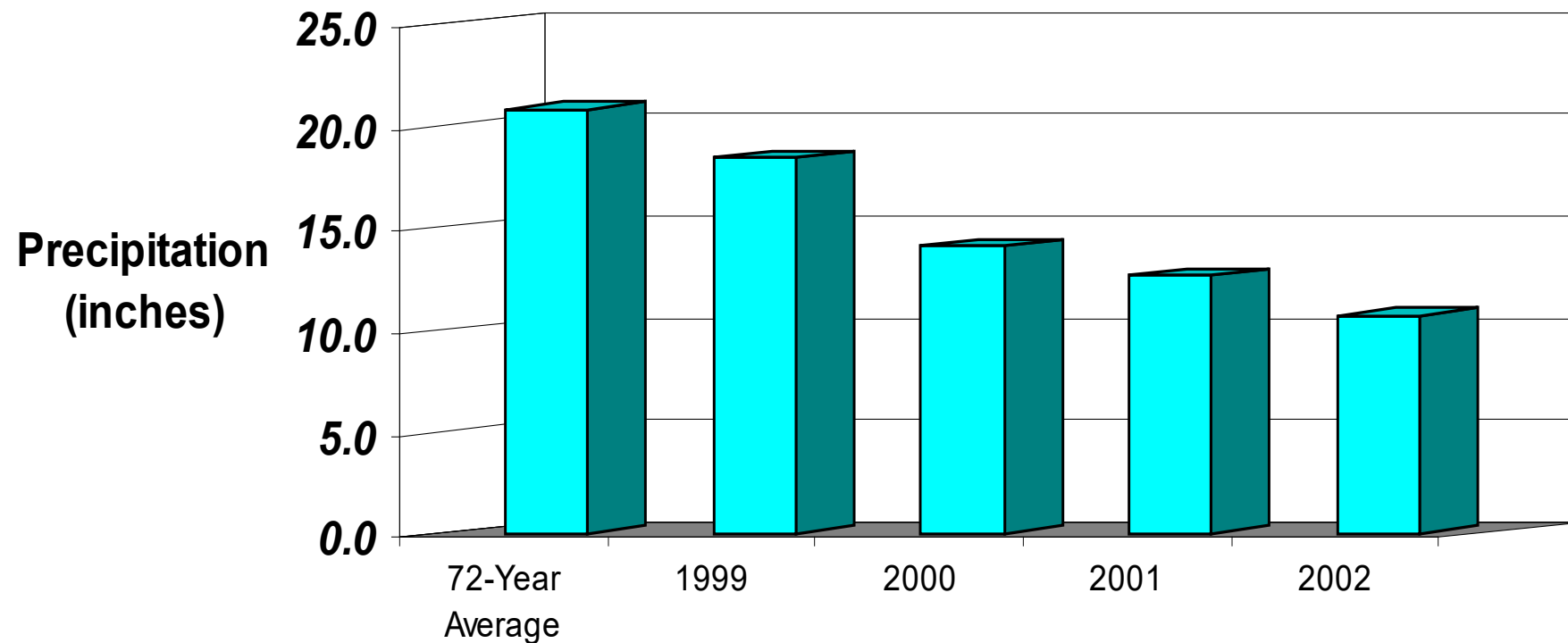
OPEN-FILE REPORT 96-503

<https://pubs.usgs.gov/of/1996/0503/report.pdf>



Not Enough Water!
Summer, 2002

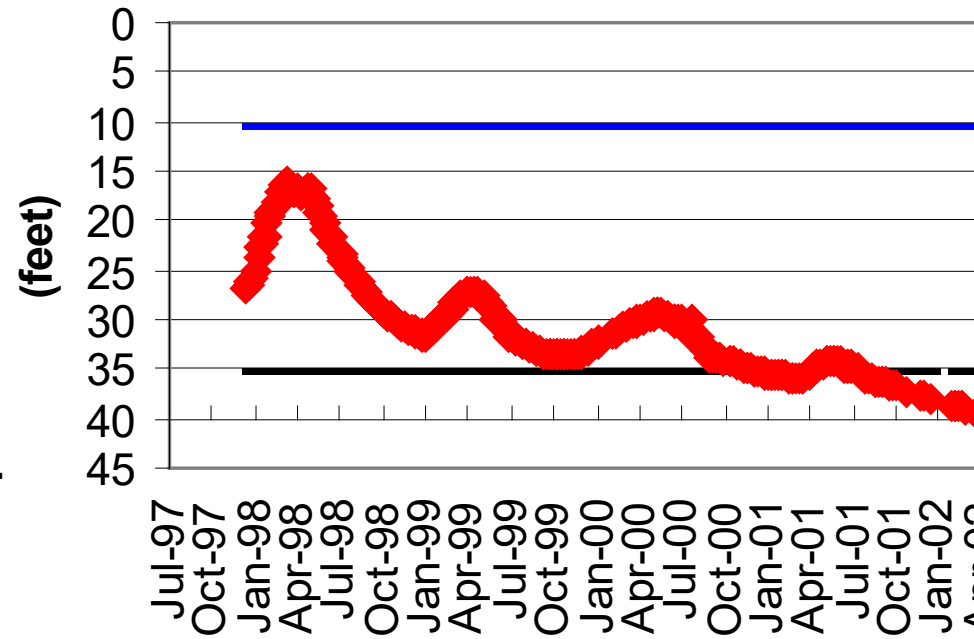
Precipitation in Peak Water Table Replenishment Months (October-March) in Charlottesville, VA



* Data provided by VA State Climatology Office. Graph compiled by County of Albemarle, VA.

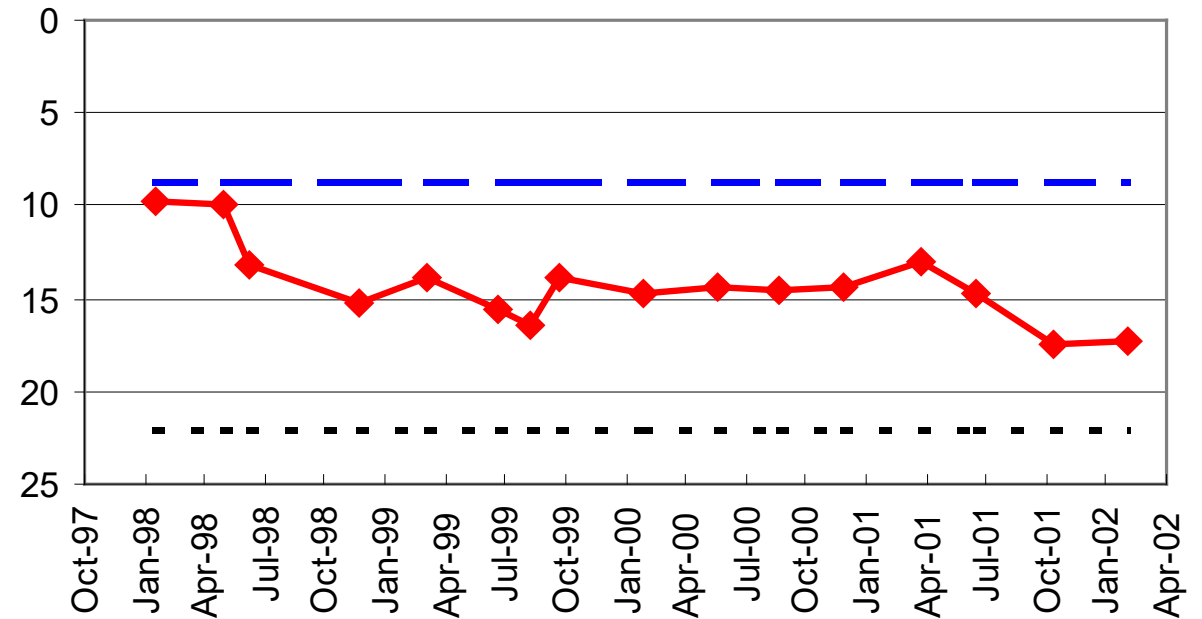
Recent and Historic Water Table Depth in a 56-Foot Well in Louisa County, VA (near Boswells Tavern)

Depth Below Land Surface
(feet)



Recent and Historic Water Table Depth in a 409-Foot Well in Albemarle County, VA (at Key West)

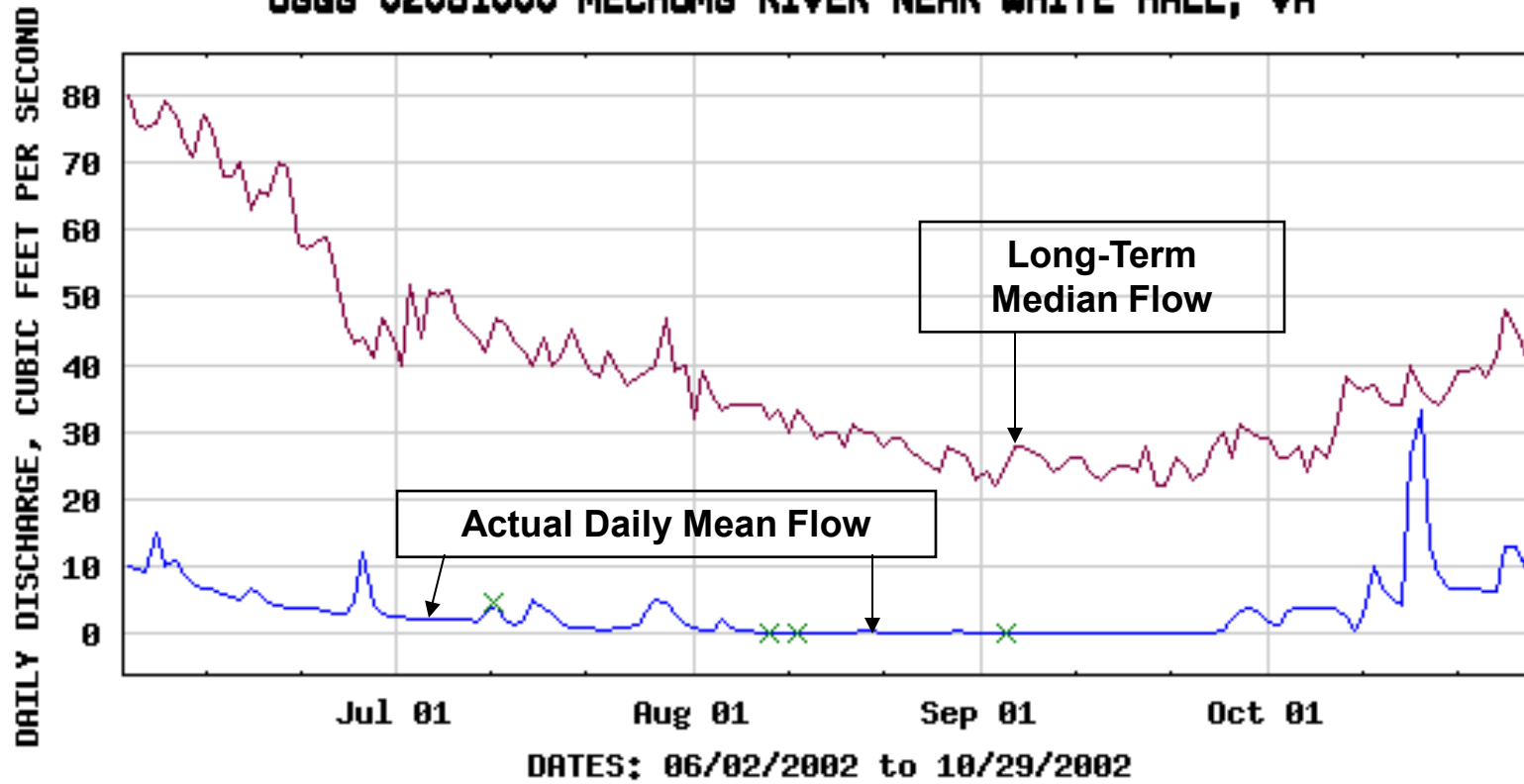
Depth Below Land Surface (feet)



—◆— Recent Depth — 33-Year Historic High - - - 33-Year Historic Low

* Data provided by VA Department of Environmental Quality and US Geological Survey. Graph compiled by County of Albemarle.

USGS 02031000 MECHUMS RIVER NEAR WHITE HALL, VA



EXPLANATION

- DAILY MEAN DISCHARGE
- MEDIAN DAILY STREAMFLOW BASED ON 31 YEARS OF RECORD
- × MEASURED DISCHARGE

Provisional Data Subject to Revision







WATER EMERGENCY ** WATER EMERGENCY

The Charlottesville-Albemarle community is in a

WATER EMERGENCY!

We Are In A Drought, Do Something About It!

Mandatory water use restrictions are in place and must be observed.

Warnings are being issued for violations.

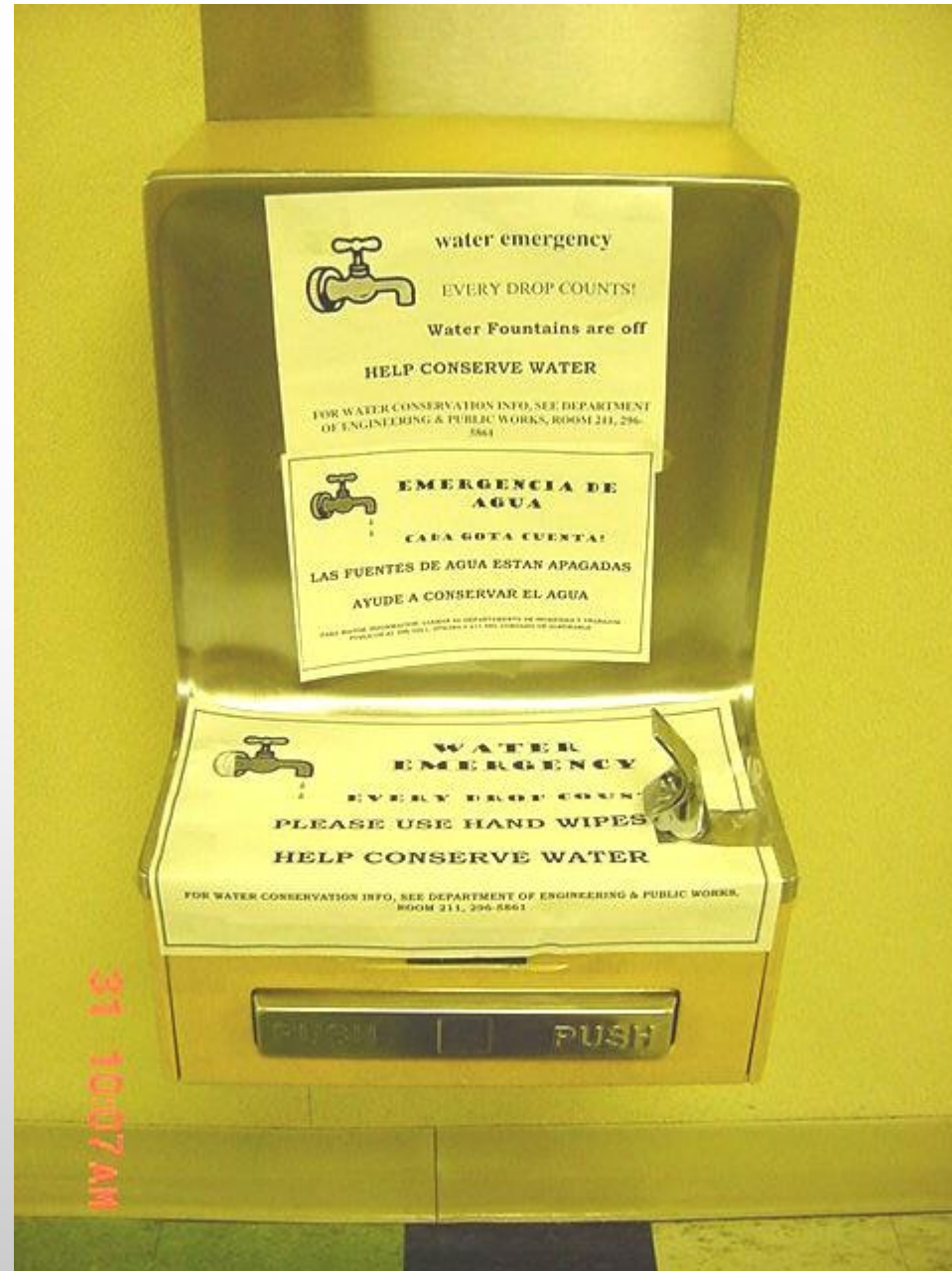
CALL to report VIOLATIONS, leaks, or for more information.

970-3040

Water Drought Hotline



WHAT WILL YOU DO WHEN THE WATER IS GONE?



ATTENTION: WELL USERS!

Water Emergency in Albemarle!

(public water customers, please see reverse)



On August 30, Governor Mark Warner signed an Executive Order declaring a state of emergency due to the drought. The Albemarle County Board of Supervisors voted on September 4 to enforce these restrictions. The order applies to Albemarle County households that use wells for their water supply. The order prohibits the following household uses of water:

- watering lawns
- washing vehicles
- filling swimming pools

WELL USERS SHOULD ADHERE TO THE GOVERNOR'S RESTRICTIONS AND ARE STRONGLY ENCOURAGED TO ADOPT ADDITIONAL WATER CONSERVATION MEASURES! PLEASE BE AWARE THAT, WHILE YOU MAY OWN THE WELL PUMP AND SHAFT, THE WATER YOU DRAW FROM UNDERGROUND IS A SHARED RESOURCE. ALL CITIZENS MUST CONSERVE THE RESOURCE DURING THIS TIME OF SEVERE DROUGHT. THESE MEASURES CAN SAVE YOUR OWN WELL AND YOUR NEIGHBORS' WELLS, TOO.



OBJECT LESSONS

- HISTORY (AND WEATHER) REPEAT THEMSELVES
 - THE MEMORIES OF ONCE-IN-A-GENERATION EVENTS DO NOT TRANSMIT TO SUBSEQUENT GENERATIONS
 - 1995 & 2002 WERE HARBINGERS OF OUR EXISTING CLIMATE CHALLENGES
 - COMMUNICATION WITH THE PUBLIC & PRE-MEDITATED RESPONSE PLANS ARE CRITICAL.
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THANK YOU!

DAVID J. HIRSCHMAN

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