Ohio's Areas of Concern Program







Ohio Coastal Atlas





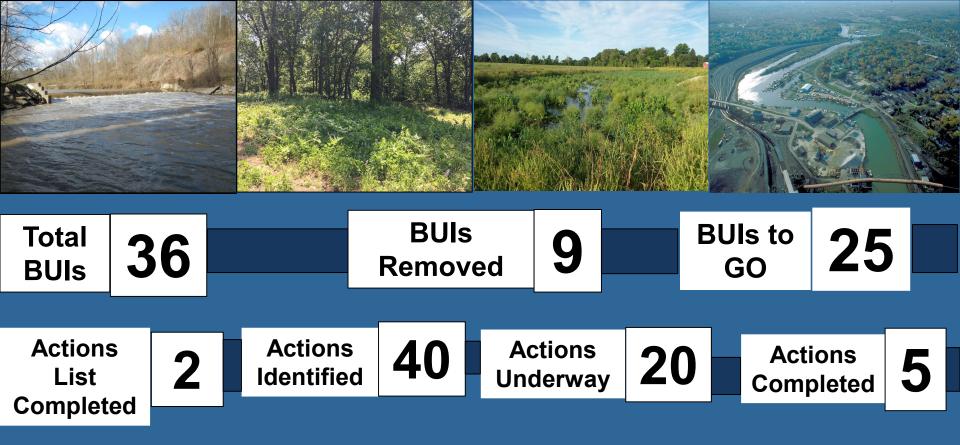




Areas of Concern in Ohio

Maumee **Black** Cuyahoga **Ashtabula** 3rd Largest AOC in the Lower 6 miles of Main Lower 50 miles and its I ower two miles of the **Great Lakes** Stem + French Creek tributaries main stem GLLA and GLRI - 5 Sediment Remediation Final Management Investments of nearly may be key Action **Actions Underway** years \$60 million in GLRI and GLLA

Progress in Ohio's AOCs



What is next for Ohio's AOCs?

- Management Actions List in All AOCs
- Complete
 Management
 Actions in All
 AOCs
- Removal of BUIs
- Delisting of AOCs Hint: Ashtabula!
- Celebration of Ohio AOC milestones with all our Partners



Cuyahoga – 50 Years!





Rising Above the Ashes





Cuyahoga River 1965 – "Site of the 1969 Fire"

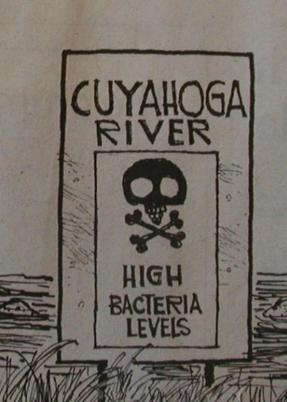




The Cleveland Industrial Flats 1965



IN THE OLD DAYS, THE FIRE USED TO STERILIZE IT.



Akron Beacon Journal

Some river! Chocolate-brown, oily, bubbling with subsurface gases, it oozes rather than flows. 'Anyone who falls into the Cuyahoga does not drown,' Cleveland's citizens joke grimily. 'He decays.' The Federal Water Pollution Control Administration dryly notes: 'The lower Cuyahoga has no visible life, not even low forms such as leeches and sludge worms that usually thrive on wastes.' It is also--literally--a fire hazard. A few weeks ago, the oilslicked river burst into flames and burned with such intensity that two railroad bridges spanning it were nearly destroyed. 'What a terrible reflection on our city,' said Cleveland Mayor Carl Stokes sadly.

Time Magazine
August 1, 1969

Fast Forward Fifty Years...



About Us

Conta

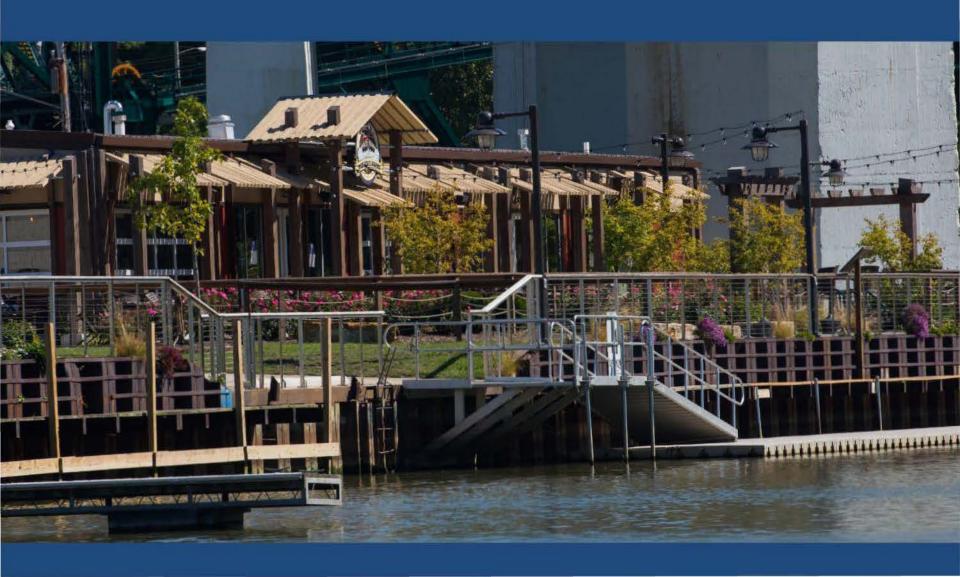
AMERICA'S RIVERS

THREATS & SOLUTIONS

AMERICAN RIVERS NAMES CLEVELAND'S CUYAHOGA "RIVER OF THE YEAR"



















Cuyahoga River 1984-2017			
Common Name	Total	Common Name	Total
Alewife	2	Northern Pike	79
Bigmouth Buffalo	23	Orangespotted Sunfish	2
Bigmouth Shiner	2	Pumpkinseed Sunfish	1463
Black Bullhead	9	Quillback	103
Black Crappie	317	Rainbow Darter	179
Black Redhorse	5	Rainbow Trout	67
Bluegill Sunfish	2393	Redear Sunfish	4
Bluntnose Minnow	10772	Redfin Pickerel	22
Bowfin	3	Redside Dace	3
Brook Silverside	93	River Chub	353
Brook Stickleback	1	Rock Bass	816
Brown Bullhead	201	Rosyface Shiner	1
Central Mudminnow	7	Round Goby	994
Central Stoneroller	11309	Sand Shiner	3284
Channel Catfish	1093	Sea bamprev	2
Common Carp	4805	Shortle of Redhorse	907
Common Shiner	6278	Silver Redhorse	47
Creek Chub	4)27	Silver Shiner	' 1
Emerald Shiner	8040	Silverjat Wherow	297
Fantail Darter	114	in all numbass	3151
Fathead Minnow	3.5	Smallmouth Buffalo	34
Flathead Catfish	82	Spotfin Shiner	12359
Freshwater Drim	286	Spottail Shiner	41
Gizzard Shad	22766	Spotted Sucker	70
Golden Redhorse	1224	Stonecat Madtom	8
Golden Shiner	327	Striped Shiner	583
Goldfish	433	Suckermouth Minnow	21
Grass Carp	32	Trout-Perch	7
Green Sunfish	863	Walleye	21
Greenside Darter	1536	Warmouth Sunfish	103
Hornyhead Chub	78	Western Blacknose Dace	376
Johnny Darter	305	Western Mosquitofish	1
Largemouth Bass	1447	White Bass	554
Logperch	1049	White Crappie	98
Longear Sunfish	1	White Perch	1674
Longnose Gar	3	White Sucker	15739
Mimic Shiner	14	Yellow Bullhead	1374
Northern Hog Sucker	9111	Yellow Perch	268

Fish in Cuyahoga River now OK'd for eating



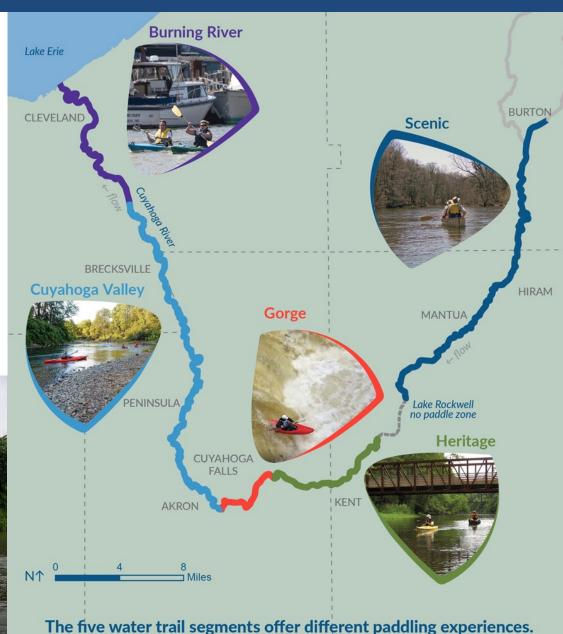
Fish in Cuyahoga River now OK'd for eating

Published: 6:18 PM EDT March 19, 2019 Updated: 6:17 PM EDT March 19, 2019

BUI 10b: Public Access & Recreation Impairments 2017







BUI 11: Aesthetics 2017 V



Public Law 92-500 (The Clean Water Act) October 18, 1972

The objective of this Act is to restore and maintain the chemical, physical, and biological integrity of the Nation's waters.

This is THE DRIVING FORCE,
CAUSE, IMPETUS
for overall improved water quality
in the United States!

WQ Conventional Approach

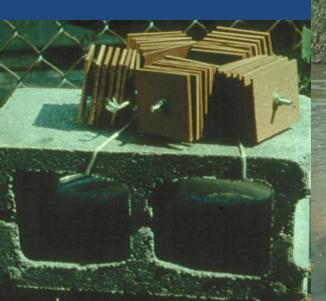


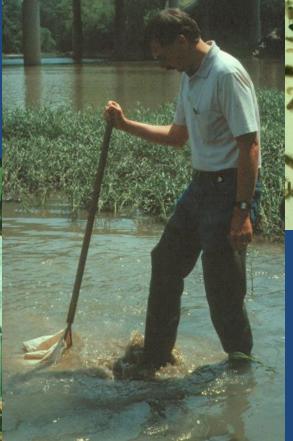






Bug Pickers







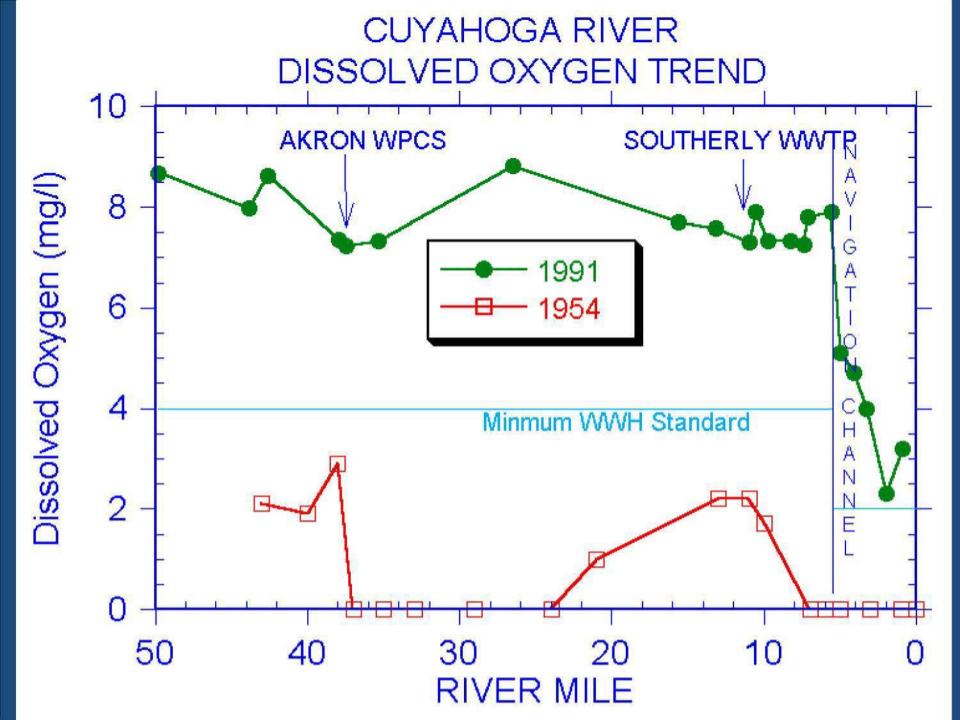




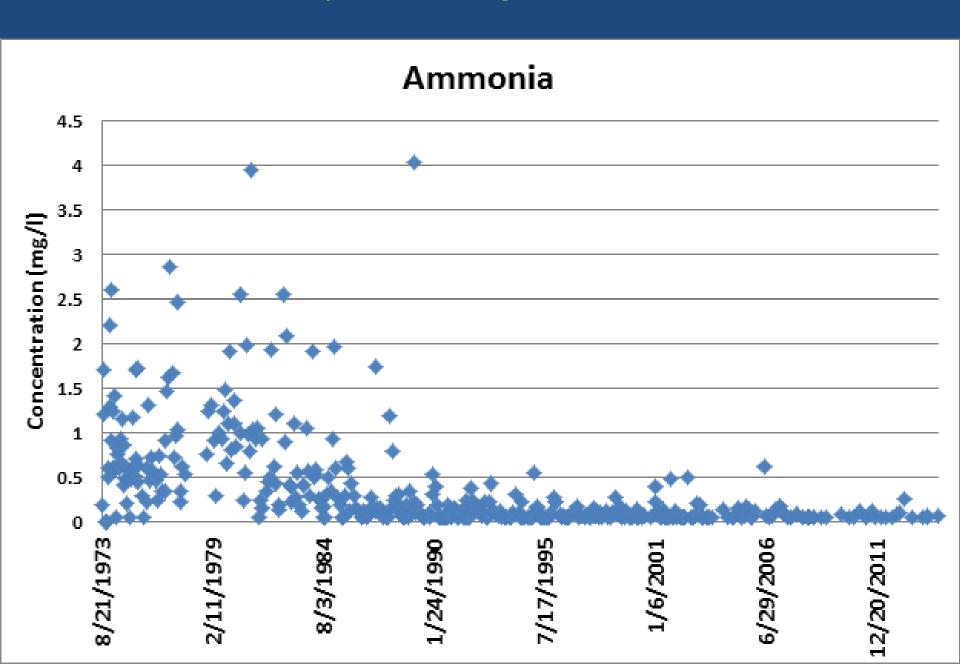
Fish Kickers



Ohio EPA Photos



Trend Data from Independence Gage





1 Dam...



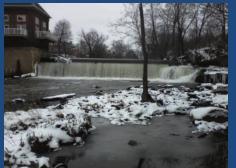


2 Dams...





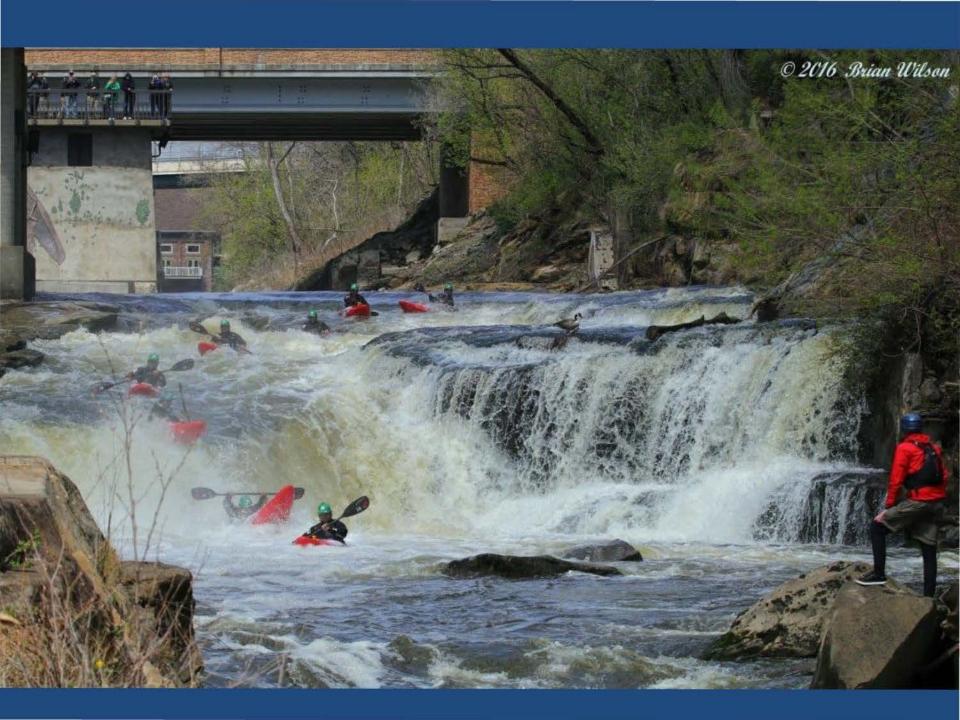
3 Dams...





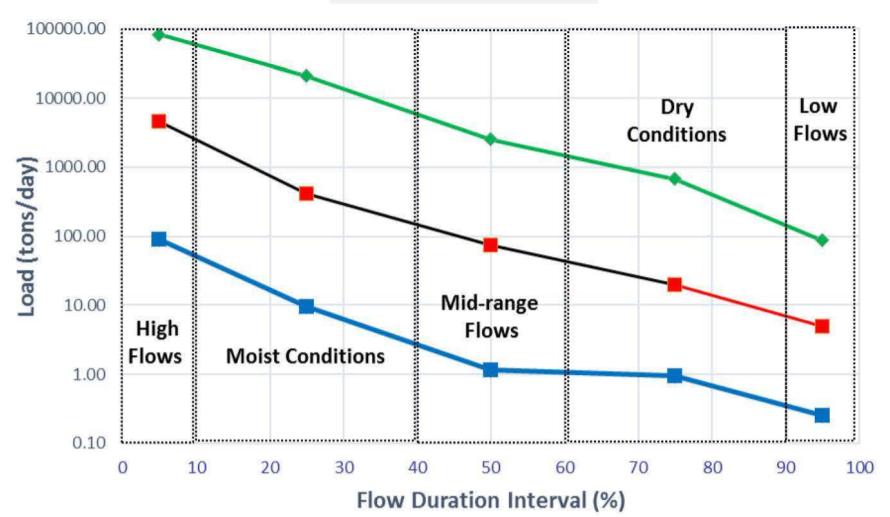


4... No more!

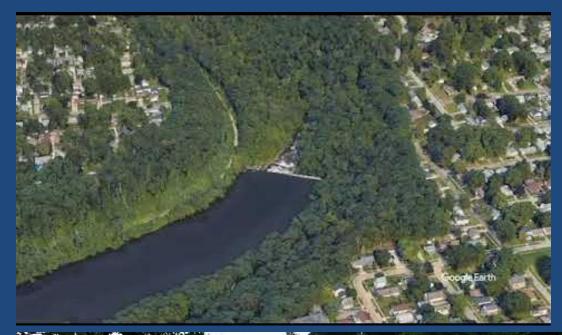




Cuyahoga River TSS Load Curve USGS Gage 04208000









Gorge Dam



Sand/Run Phny II. Porlage Path Howe Rd Mainst Memorial Piny Talmadge Ave West Ave Comp Brook Little Guyahaga River 13 Oppodusily Plany Market Summit. CSO Drainage Area

Combined Sewer Overflows



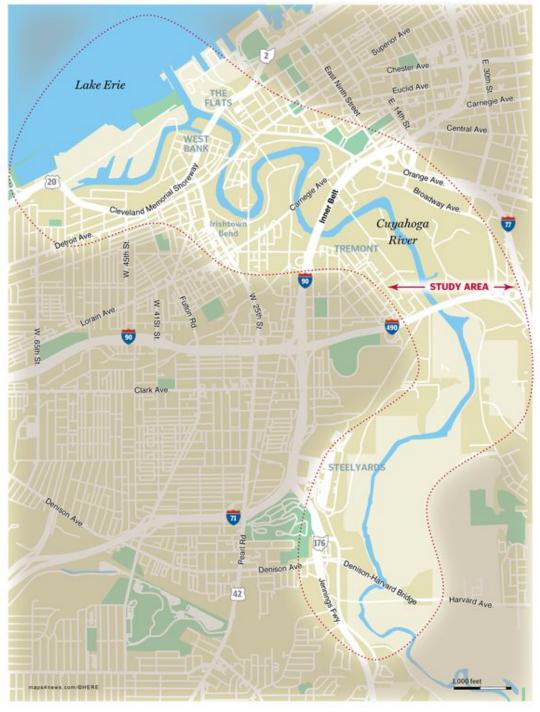
Beneficial Use Impairments

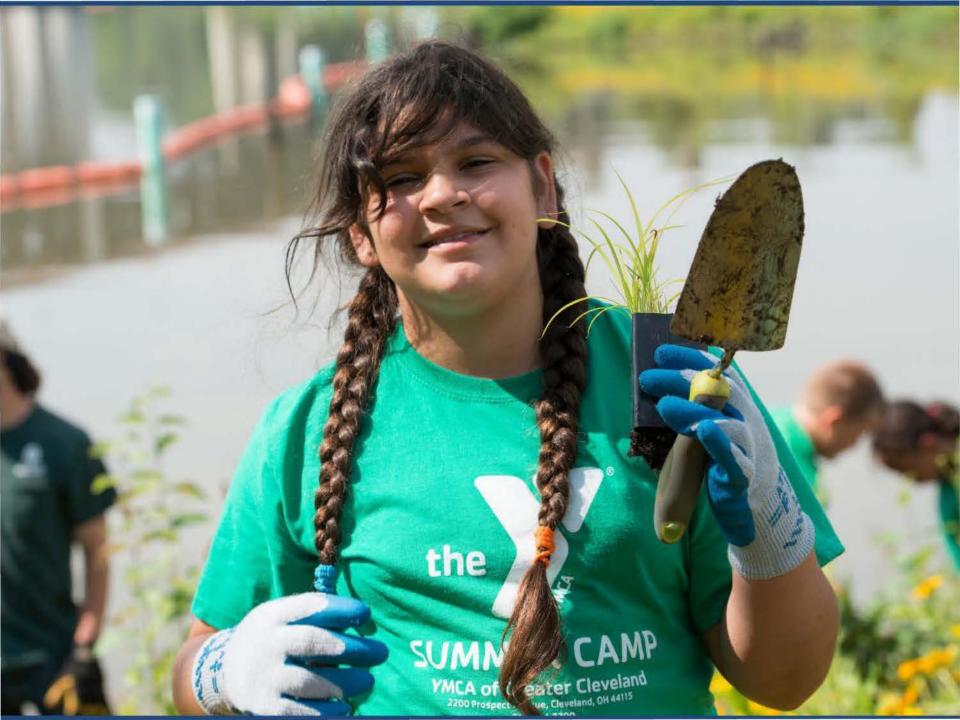
BUI I: Restrictions on Fish Consumption	complete
BUI 3: Degradation of Fish Populations	
BUI 4: Fish Tumors or Other Deformities	2021
BUI 6: Degradation of Benthos	
BUI 7: Restrictions on Dredging	2021
BUI 8: Eutrophication or Undesirable Algae	2019
BUII0a: Beach Closings	2020
BUI 10b: Public Access & Recreation Impairments	complete
BUI II: Degradation of Aesthetics	complete
BUI 14: Loss of Fish Habitat	

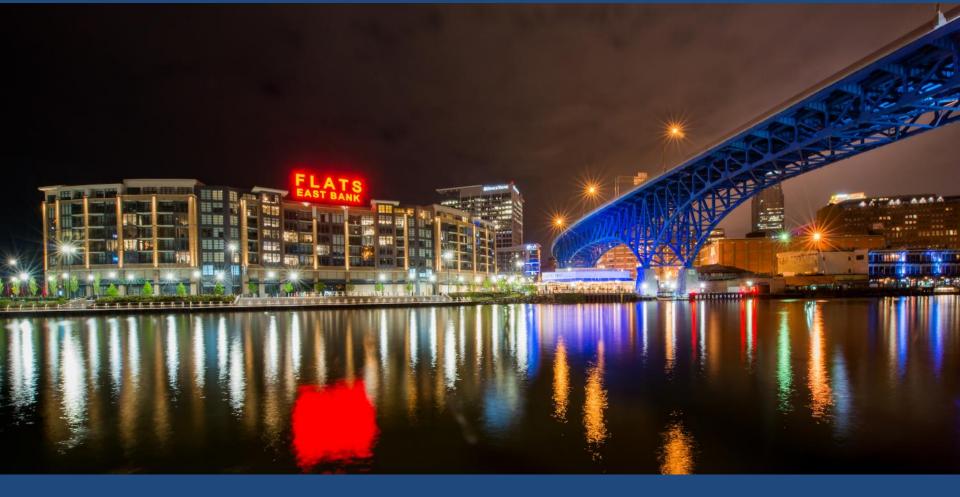


Vision for the Valley









Visit www.cuyahogaaoc.org

for more information, data, news and resources

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