

BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OHIO

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TOM ARISS
PAT ARNOLD SOUTH
DAVID G. YOUNG

BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OHIO

MINUTES: Regular Session - August 16, 2012

The Board met in regular session pursuant to adjournment of the August 14, 2012, meeting.

David G. Young - present Pat Arnold South - present

Tom Ariss - present Tina Davis, Clerk - present

Minutes of the August 14, 2012 meeting were read and approved.

12-1110	A resolution was adopted to designate Tina Davis, Clerk of Commissioners, as Representative to receive training on behalf of David G. Young, Pat Arnold South and Tom Ariss, Warren County Commissioners, pursuant to House Bill 9. Vote: Unanimous
12-1111	A resolution was adopted to Waive Permit Fee associated with St. Francis De Sales Catholic Church Festival. Vote: Unanimous
12-1112	A resolution was adopted to authorize Amendment No. 1 to the Engineering Agreement with Burgess & Niple Inc. increasing purchase order No. 88482 for the North Water System – Water Booster Pump Station Improvements Project, Fund No. 3225. Vote: Unanimous
12-1113	A resolution was adopted to approve Second Amendment to Frequency Reconfiguration Agreement with Nextel on behalf of Warren County Telecommunications. Vote: Unanimous
12-1114	A resolution was adopted to approve various Refunds. Vote: Unanimous

12-1115	A resolution was adopted to approve a Change Order No. 3 to the Contract with Lake Erie Electric Inc. increasing Purchase Order No. 78896 for the Lower Little Miami Wastewater Treatment Plant Expansion Project, Fund No. 574. Vote: Unanimous
12-1116	A resolution was adopted to declare various items within Engineer's Office, Sheriff's Office, Health Department, Telecommunications, and Facilities Management as surplus and authorize the disposal of said items. Vote: Unanimous
12-1117	A resolution was adopted to enter into Street and Appurtenances (including sidewalks) Security Agreement with M/I Homes of Cincinnati, LLC, for installation of certain improvements in Estates at Hawthorne Manor, Section 4 situated in Hamilton Township. Vote: Unanimous
12-1118	A resolution was adopted to enter into a Subdivision Public Improvement Performance and Maintenance Security Agreement with M/I Homes of Cincinnati, LLC for installation of certain improvements in Estates at Hawthorne Manor, Section 4 situated in Hamilton Township. Vote: Unanimous
12-1119	A resolution was adopted to enter into Erosion Control Bond Agreement with M/I Homes of Cincinnati, LLC for improvements in Estates at Hawthorne Manor Section 4, situated in Hamilton Township. Vote: Unanimous
12-1120	A resolution was adopted to enter into a Subdivision Public Improvement Performance and Maintenance Security Agreement with the Drees Company for installation of certain improvements in Heritage at Miami Bluffs, Phase 3, Block "C", Part 2 situated in Hamilton Township. Vote: Unanimous
12-1121	A resolution was adopted to approve following Record Plats. Vote: Unanimous
12-1122	A resolution was adopted to accept Amended Certificate into Grants Pass Thru Fund #261 and Approve Supplemental Appropriation Adjustment into Fund #261. Vote: Unanimous
12-1123	A resolution was adopted to approve Supplemental Appropriation within Water Revenue Fund #510. Vote: Unanimous
12-1124	A resolution was adopted to approve a Supplemental Appropriation in Community Development Fund #265. Vote: Unanimous
12-1125	A resolution was adopted to approve Appropriation Adjustment from Commissioners Fund #101-1112 into Coroner's Office Fund #101-2100. Vote: Unanimous

12-1126	A resolution was adopted to approve Appropriation Adjustments within Juvenile Probation Fund #101-2500. Vote: Unanimous
12-1127	A resolution was adopted to approve Appropriation Adjustment within Building and Zoning Inspection Fund #101-2300. Vote: Unanimous
12-1128	A resolution was adopted to waive Permit Fees associated with the Ohio Sauerkraut Festival. Vote: Unanimous
12-1129	A resolution was adopted to authorize payment of Bills. Vote: Unanimous

DISCUSSIONS

Ron Kronenberger, Waynesville Chamber of Commerce and Ohio Sauerkraut Festival Representative, was present to thank the employees within the Building Department for the hard work and guidance to the Sauerkraut Committee in the Committee's improvements to the safety of the festival goers.

Mr. Kronenberger then updated the Board on the dates of the festival and requested their consideration of a fee waiver for the inspection of the various items required prior to the festival opening.

Upon discussion, the Board resolved (Resolution #12-1128) to waive the permit fees associated with the Ohio Sauerkraut Festival.

The Board met this 16th day of August, 2012, in the Commissioners' Meeting Room, for a work session with representatives from the Regional Planning Commission, Building and Zoning Department, Soil and Water Conservation and various townships and municipalities within Warren County to discuss if there is a need for Streamside Setbacks to be required within the Warren County Zoning Code.

Commissioner South welcomed those present and gave background information on the streamside setback discussion that has lead to this work session being scheduled today.

Jeff Thomas, Soil and Water Conservation, introduces John Mathews, ODNR, who presented the attached PowerPoint presentation relative to background information and the importance of streamside setbacks/storm water controls.

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Greg Vreeland, Dayton Homebuilders Association, discussed the definition of stream as determined by the State of Ohio and stated his opinion that Warren County's current regulations accommodate as written. He then discussed the need for Warren County to take into consideration elevations adjacent to a stream if they are going to consider a mandatory streamside setback in the Zoning Code.

There was discussion relative to a committee being formed of a few key players within the interested parties to draft regulations for presentation and consideration at a later date.

Upon discussion, Commissioner Young requested that Mr. Vreeland, along with Jerry Spurling, Chief Building Official, Pam Jones and Fred Grimm, Zoning Board of Appeals, along with staff, form the discussed committee and upon and make a presentation to the entire group upon completion of their findings.

Upon motion the meeting was adjourned.

David G. Young, President

Tom Ariss

Pat Armord South

I hereby certify that the foregoing is a true and correct copy of the minutes of the meeting of the Board of County Commissioners held on August 16, 2012, in compliance with Section 121.22 O.R.C.

lina Davis, Clerk

Board of County Commissioners

Warren County, Ohio

Information Re: Stream Setbacks

- Are Headwater Streams & Small Tribs Important?
- Effects of sub/urbanization on natural drainage systems.
- Does loss of stream buffers or stream degradation have a cost?
- Comparison of FEMA regulated floodplains to meander belt width (streamway) based areas.

John Mathews, Stormwater and Streams Division of Soil and Water Resources Ohio Dept. of Natural Resources

How Important are Headwater & Small Tributaries?

and quality of water and the timing of water Natural processes occurring in headwater availability in rivers, lakes, estuaries, and streams and wetlands affect the quantity groundwater.

How Important are Headwater & Small Tributaries?

- Natural processes occurring in headwater streams and wetlands affect the quantity and quality of water and the timing of water availability in rivers, lakes, estuaries, and groundwater.
- These areas
- store water,
- recharge groundwater,
- reducing the intensity and frequency of floods.
- Process and buffer natural and human sources of nutrients (leaves, fertilizer etc.)
- Capture sediments from uplands and streams

Stormwater Services – Detention, sediment and nutrient treatment

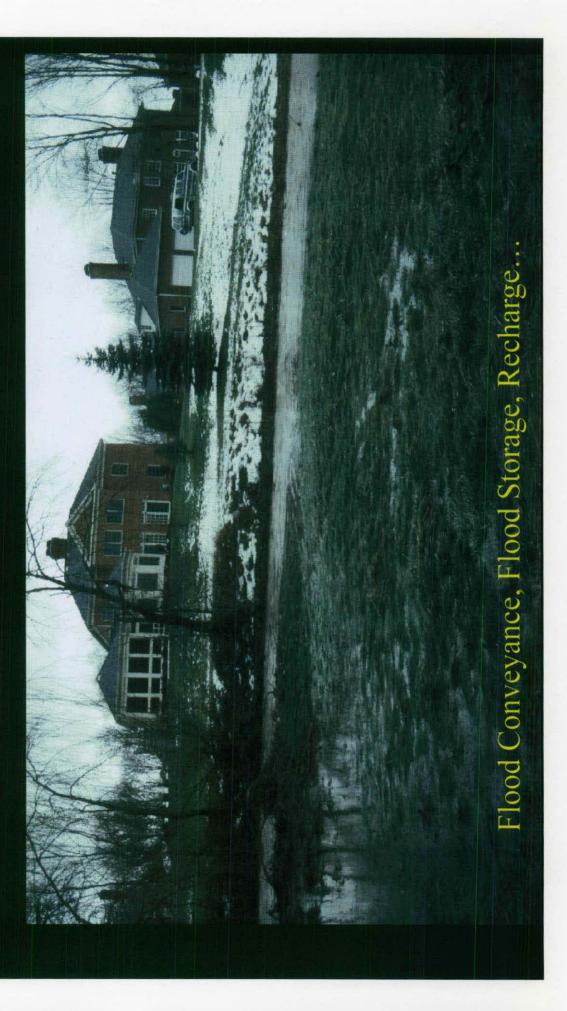


Storage in headwaters and small tributaries reduces flooding

- public health
- infrastructure and property - damage to & safety



Hydrologic & Hydraulic Function (even w/Development)



Pollution Treatment:

Sediment, Nitrogen, and Phosphorous

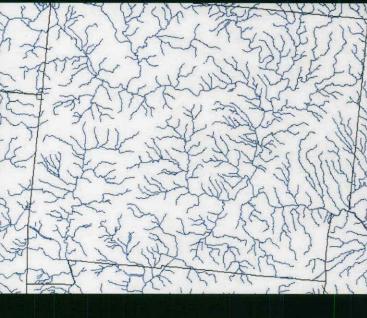


Plus Stream and Riparian Habitat, tream Stability and Thermal Bufferir

Stream System

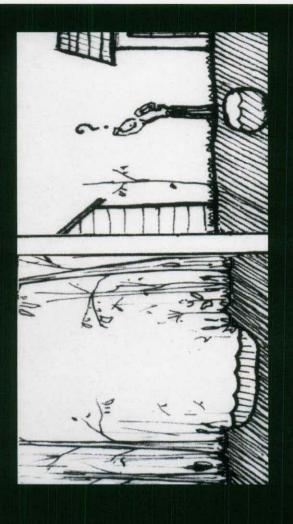
- Dendritic Pattern is revealing
- Stream system is analogous to other branching systems: Trees; digits-arm-body; circulatory system.



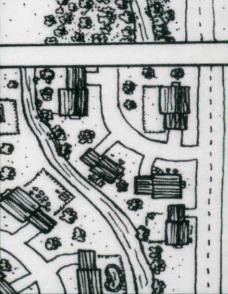


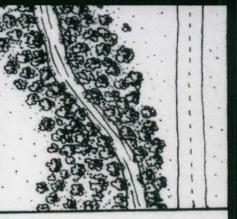
Effects of Development on Streams

Loss of Small Channels



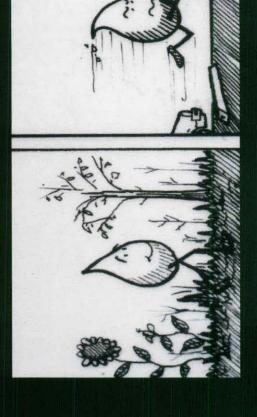
Loss of Stream Corridors/Floodplains

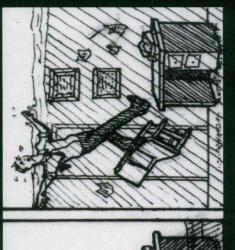




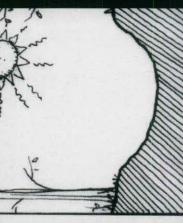
Faster Runoff - Time Runoff Reaches Stream" as much as 50% faster

More Runoff – Moderate Development produces as much as 50% more runoff Low Flows
Reduced infiltration often
affects base flows







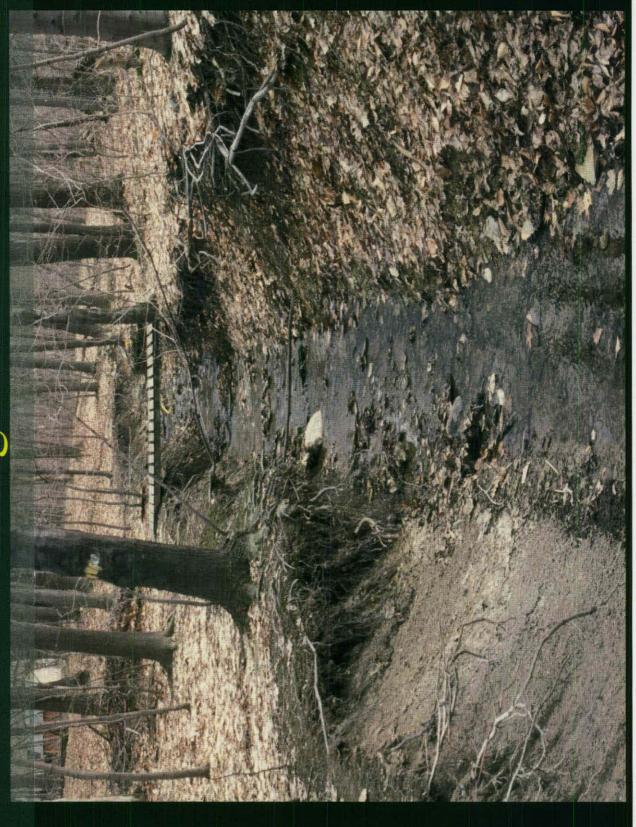


Increased Flood Frequency Higher Peaks



• 2-5 times Predevelopment /Increased Bankfull Events

Creek Result-Degradation or Incision



Creek Result-Degradation or Incision



The big problem in developing areas

Cost of Stream Degradation

- Property loss (often structures in unmapped but active floodplain or former floodplain)
- Infrastructure

Stable channel w/ floodplain access

less able to erode the bed and banks



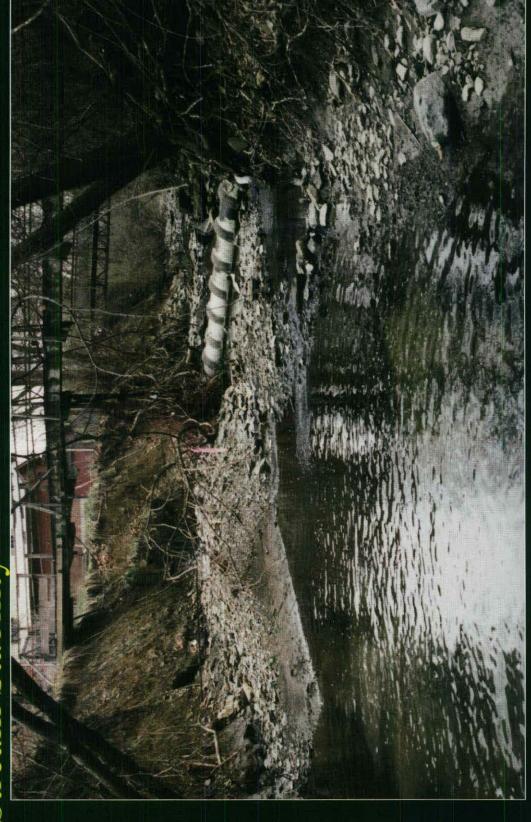
Entrenched Channel Fill FP, Dike, ...

more able to work, eroding the bed and banks.



Purposes of Stream Setbacks?

Stream Stability

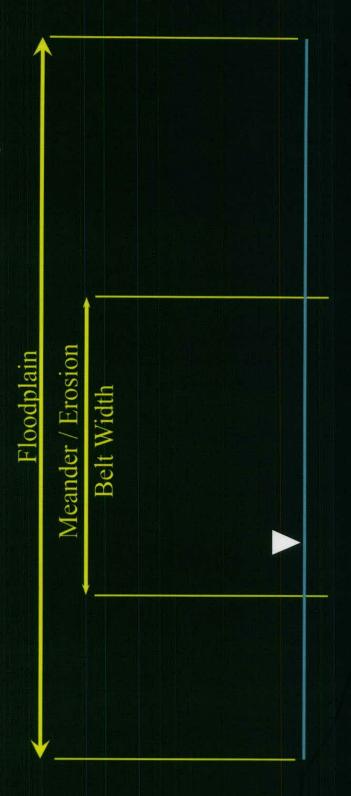


Problem of Trading Natural Services for Projected Services



Purposes of Stream Setbacks? Channel Stability

Setbacks allow room for natural stream adjustments



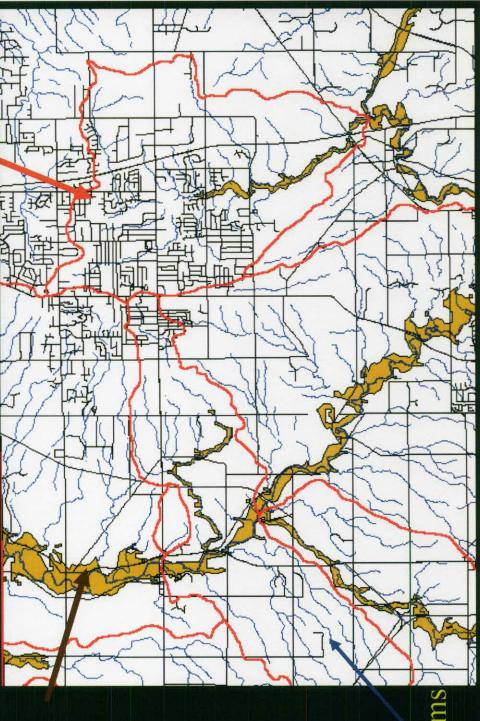
Vinton County, Ohio Salt Creek Land Most Subject to Stream Movement and Flooding 1997 1980 1966 1951 1989

How Do Stream Setback Widths Differ from 100 year Floodplain Area?

How Do Stream Setback Widths Differ from 100 year Floodplain Area?

Watershed Boundaries

FEMA
Floodplain &
Floodway



Unmapped Streams

London, Ohio Floodplains and Streams



Current Floodplain Program (FEMA) Recognize the Limitations of the

- Based on older development
- Leaves out small channels
- stormwater management, pollution • Focus: life and property damages not watershed services such as control etc.

General Setback Width Guidelines

(Source: US Army Engineer Research and Development Center)

Function	Description	Recommended Setback, Each Side
Water Quality Protection	Dense grass or herbaceous vegetation	15 to 100 ft
Riparian Habitat	Diverse stands of shrubs and trees	100 to 1600 ft
Stream Stabilization	Riparian vegetation roots anchor soil along stream	30 to 65 ft
Flood Attenuation	Store and attenuate flood flows	65 to 500 ft
Detritus Input	Leaves, twigs, and branches fall into streams	10 to 30 ft

What We've Learned in Ohio About How Wide?

High quality stream systems have

extensive floodplains often beyond

10 x Channel Width

What We've Learned About How Wide?

Good qualities in stream systems begin showing

5 x Channel Width

What We've Learned About How Wide?

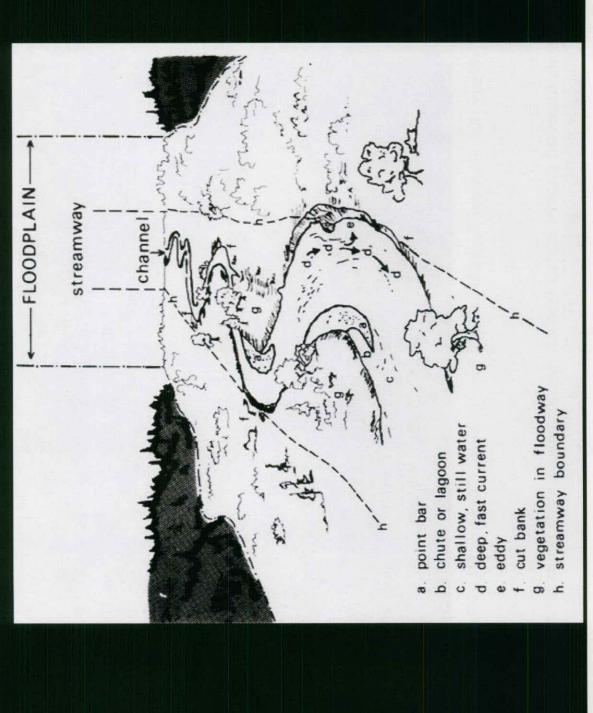
Minimum Width

for Stability

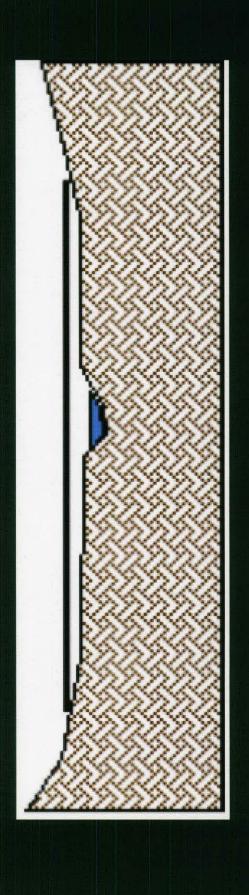
3 x Channel

Width

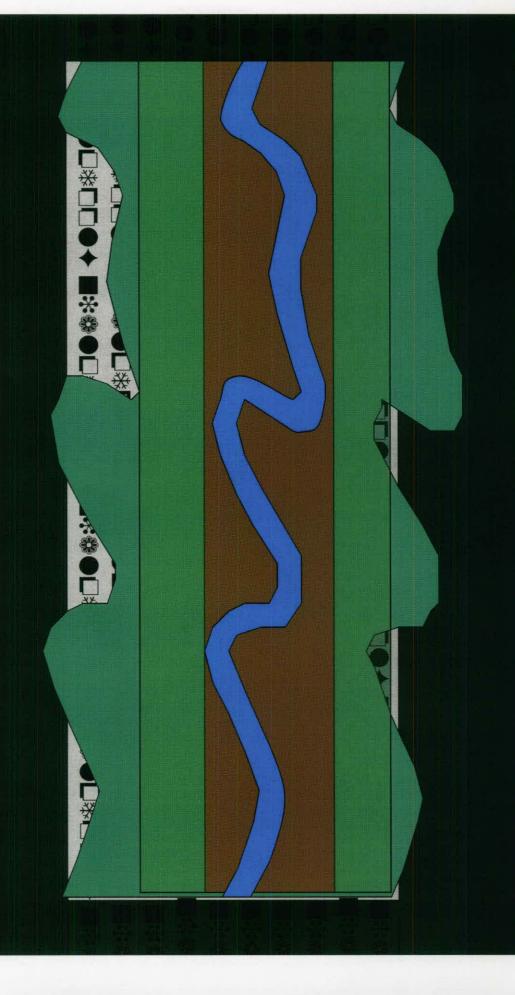
ODNR's Approach: Streamway reating SW and Flood flows



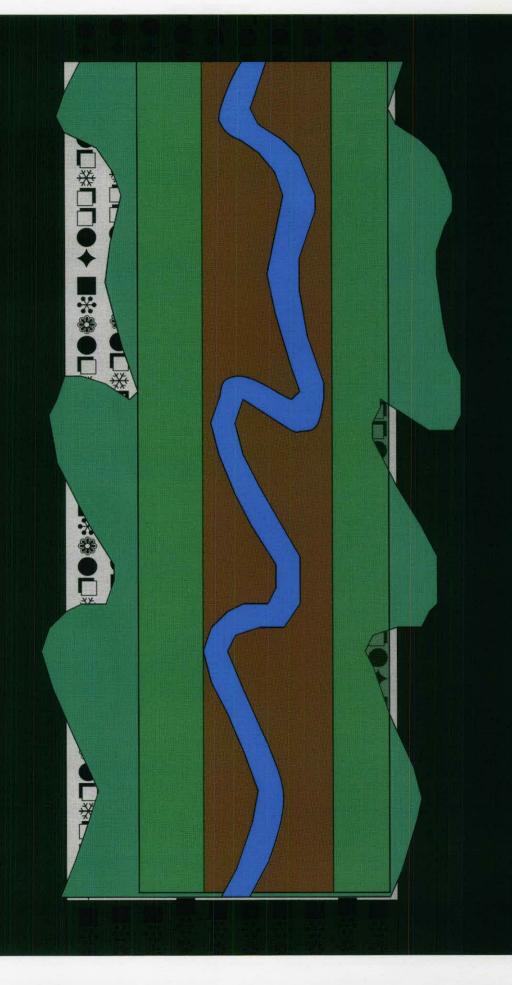
Most Valuable Area = Lowest elevation



Many Approaches to Stream Setbacks



Many Approaches to Stream Setbacks

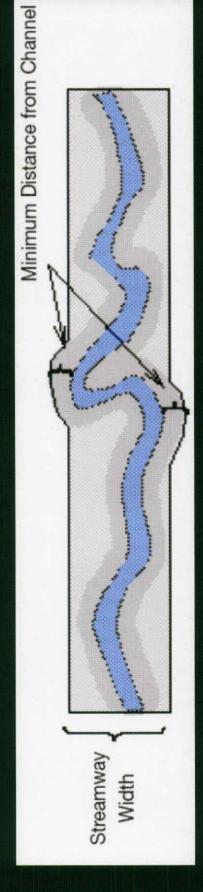


Comparing Widths

Dr. Area	Dr. Area 25'/side	25'/side	10 x W	5 x W	Darby	M
Acres	Sq. Miles		147DA^0.38	74DA^0.38	133DA^0.43	147DA^0.38 74DA^0.38 133DA^0.43 14.7DA^0.38
32	0.1	90	47	24	37	5
64	0.1	90	61	31	49	9
128	0.2	20	80	40	67	8
256	0.4	20	104	52	90	10
320	0.5	50	113	57	66	
480	0.8	20	132	66	118	13
640	1.0	20	147	74	133	15
1280	2.0	20	191	96	179	19
3200	5.0	20	271	136	266	27
12800	20.0	50	459	231	482	46

Approaches: Overlaying Zones

Streamway



• Minimum Offset for Stability, Slope, Infrastructure Issues

Alterations or Encourage Changes? Protect Current Condition, Allow

Final Recommendations

- Apply a setback that allows a full set of services to be gained in the area (5-10 times channel width)
 - Stormwater detention, water quality and habitat
- Allow option of channel improvements to maximize channel quality and services.