

FIELD DATA-ENTRY FORM FOR STREAMBANK EROSION SEVERITY

This form may be used to compare the severity of eroding streambanks. Results can help in prioritizing streambank stabilization efforts. Fill in all known information. Where provided, fill in the appropriate number per each category, then total the points on the last page.

GENERAL INFORMATION

OBSERVER: _____ DATE: _____

COUNTY: _____ STREAM: _____

PROPERTY OWNERS: _____

FARM NUMBER: _____ TRACT NUMBER: _____ FIELD NUMBER: _____

SITE INFORMATION

SITE NUMBER: _____ LATITUDE (North): _____ LONGTITUDE (West): _____

BANK (Right or Left, Looking Downstream): _____

OTHER INFORMATION: _____

STREAM WIDTH

AVERAGE PERPENDICULAR WIDTH OF STREAM: _____
 (At low water elevation, not during or following floods or large storm events)

AVERAGE PERPENDICULAR WIDTH OF STREAM IF SITE HAS A DRY STREAM CHANNEL: _____
 (Toe of bank to toe of bank)

CRITERIA

CONDITION OF BANK	PROBLEM TREND
TOE OF BANK	
<ul style="list-style-type: none"> • Toe of Bank and Upper Slope are Eroding 5 • Toe of Bank Undercutting but Upper Bank Stable 4 • Toe of Bank Stable, Upper Slope Eroding 1 <p style="text-align: right;">POINTS</p>	(Landowner's observations may be needed) <ul style="list-style-type: none"> • Erosion Increasing 5 • Erosion Decreasing or Stable 1 <p style="text-align: right;">POINTS</p>
LENGTH OF ERODING BANK	MAXIMUM DEPTH OF WATER IN STREAM (In Eroded Area)
<ul style="list-style-type: none"> • > 150' 5 • 75 - 150' 3 • < 75' 1 <p style="text-align: right;">POINTS</p>	(Measured at low flow; do <u>not</u> evaluate during floods or following large storms) <ul style="list-style-type: none"> • > 5' 5 • 2 - 5' 3 • < 2' 1 <p style="text-align: right;">POINTS</p>
SIDE SLOPE	AVERAGE HEIGHT OF BANK
<ul style="list-style-type: none"> • < 1:1 5 • 1:1 - 2:1 3 • > 2:1 1 <p style="text-align: right;">POINTS</p>	(Measured from top of bank to maximum depth in stream at site location) <ul style="list-style-type: none"> • > 12' 5 • 8 - 12' 4 • 5 - 8' 3 • 3 - 5' 2 • < 3' 1 <p style="text-align: right;">POINTS</p>
VEGETATIVE COVER ON STREAMBANK	
(From top of bank to waterline or toe of slope) <ul style="list-style-type: none"> • < 30% 5 • 30 - 60% 3 • 60% 1 <p style="text-align: right;">POINTS</p>	

PREDOMINANT SOIL TYPE OR TEXTURE	
(Soil located on the lower portion of the bank near the water line or toe of bank)	
• Sand/Gravel	4
• Clay or Loam	2
• Bedrock	<u>0</u>
POINTS	
APPARENT CAUSE OF EROSION	
(List all that apply and add points)	
• Light impacts from access (mowing, cropping, rotational grazing with small herd, and fence located at edge of field/top of bank)	1
• Stream crossing (low water ford type crossing)	1
• Woody riparian vegetation has been removed from slope but minimal erosion on slope; herbaceous vegetation remains or is becoming established	1
• Isolated woody debris directing flow toward bank	2
• Gullies in side channel tributaries	2
• Overland flow from drainage area or returning flood flows	2
• Bank seepage or saturation on slope	3
• Moderate impacts from access (Grazing with small herd, access to bank with no exclusion fence, existing alternative water sources and shade available in other locations away from stream within 800')	3
• Eroded section of streambank has curve < 30 degrees	3
• Eroded section of streambank has curve 30-60 degrees	4
• Eroded section of streambank has curve > 60 degrees	5
• Streambed has bedrock that is directing water towards streambank (either with bedrock located at higher elevation on opposite side of stream, and/or the edges and cuts in the bedrock have directed water toward streambank)	5
• Heavy impacts from access (grazing with large herd, access to bank with no exclusion fence, no additional existing alternative water sources and shade available in other locations away from stream within 800'; construction site impacts often have the same impacts at utility crossings where all riparian vegetation is removed and maintained in this condition)	5
• Stream crossing (stream crossing constructed as a road that raises the constructed crossing surface several feet above the existing streambed; often has single or multiple culverts that restrict flow; cause debris accumulations; cause scour on the abutments; cause scour in the floodplain; cause gravel deposits in the stream channel upstream of the crossing; and, cause scour in the streambed on the downstream side of the crossing)	5
POINTS	
ADD POINTS FROM ALL CRITERIA CATEGORIES	
TOTAL POINTS: EXTREME = More than 35 SEVERE = 28-35 MODERATE = 20-28 MINOR = Less than 20	

AQUATIC THREATENED AND ENDANGERED (T&E) SPECIES PRESENT OR HABITAT IS PRESENT	Y/N
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TENNESSEE 303d LISTED STREAM	Y/N
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Additional priority can be added to project sites with T&E species or their habitat present and/or to 303d listed streams.

NOTE: Sketch location on a separate sheet showing any unusual circumstances. Attach photographs of site to document the decisions made in filling this form.

SOURCE: THIS FORM WAS MODIFIED FROM THE INVENTORY SHEET USED IN THE UPPER MANISTEE STREAM BANK EROSION INVENTORY.