

# Learning to "SWVM"

### SWVM v2.1 for WVDEP Date: August 20, 2013



US Army Corps of Engineers BUILDING STRONG<sub>®</sub>

## **SWVM** Application

- Pro's [What it can do…]
  - HGM and SWVM integrated approach
  - Impact and mitigation assessments (baseline and projected)
  - Utilized to evaluate project alternatives
  - Monitor the performance of restored ecosystems (Mitigation)
  - Transparency of impacts and mitigation to all parties including: Applicant, Agent/ Consultant, Sponsors (Mit. Banks), General Public, Permit Reviewers

## **SWVM** Application

### Pro's [What it can do...] (cont'd)

- Correlates impacts of all (wadeable) stream classes (Eph, Int and Per) with similar forms of stream compensatory mitigation
- Provides overview of an impact and mitigation project (areas of projected functional lift visible at a glance)
- Multiple Site Tabulation Sheet (i.e. Debits and Credits)
- Incorporates factors and values considered in our evaluations
  - > Temporal Loss
  - Long-term Protection
  - > Water Chemistry
    - (if lights are "ON" we want somebody to be home...)
  - Extent of Work Incentive
  - Extended Buffer Width Incentive
- ► Can assess "sole preservation" (under v2.1)



### Stream Parts I and II (Tab 1)

#### West Virginia Stream and Wetland Valuation Metric (SWVM) v2.1

(Stream Valuation Metric - Worksheet 1 of 3)

	USACE FILE NO./Project Name:	Labor Creek	WV SWVM v2.1		Lat	Lon.	WEATHER:		DATE:	8/19/2011
	IMPACT STREAM/BITE ID (extended size (screep))	AND SITE DESCRIPTION: 1. unaffered or Instalments)							Comments:	
	STREAM IMPACT LENGTH:		ENHANCEMENT		Lat	Lon.	PRECIPITATION PAST 48 HRS:		Mitigation Length:	1425
	Column No. 1-Impact Existing	g Condition (Debit)	Column No. 2- Mitigation Existing Cor	dition - Daseline (Credit)		Column No. 2- Mitigation Existing Condition - Easeline (Credit)	Column No. 2- Mitigation Existing C	ondition - Baseline (Oredit)	Column No. 2-Mitigation Existing Co.	ndition - Baseline (Credit)
	Streem Classification:	Internitient	Stream Classification:	Intermittent		Stream Classification: Intermittent	Stream Classification:	Internitient	Stream Classification:	Internitient
	Percent Stream Channel Si	lope 4	Percent Stream Channel Slo	99 B		Percent Stream Channel Slope 6	Percent Stream Channel 5	liope 6	Percent Stream Channel Si	ope 6
	HGM Score (attach d	data forms):	HGM Score (attach da	ta forma):		HGM Score (attach data forms):	HGM Score (attach	data forms):	HGM Score (attach da	ita forms):
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	Impa		Baseline M	ligation		at 5 yrs	at 10	vrs	Maturi	-



Column No. 1- Impact Existing	Conditi	on (Deb	oit)
HGM Score (attach data forms):			Average
Hydrology	0	)	
Biogeochemical Cycling	0	)	0
Habitat	0	)	
PART I - Physical, Chemical and	Biologica	al Indic	ators
	Points Scale	Range	Site Score
PHYSICAL INDICATOR (Applies to all streams	classificati	ions)	
USEPA RBP (High Gradient Data Sheet)			
1. Epifaunal Substrate/Available Cover	0-20		0
2. Embeddedness	0-20		0
3. Velocity/ Depth Regime	0-20		0
4. Sediment Deposition	0-20		0
5. Channel Flow Status	0-20	0-1	0
6. Channel Alteration	0-20		0
7. Frequency of Riffles (or bends)	0-20		0
<ol><li>Bank Stability (LB &amp; RB)</li></ol>	0-20		0
9. Vegetative Protection (LB & RB)	0-20		0
10. Riparian Vegetative Zone Width (LB & RB)	0-20	1	0
Total RBP Score	Po	or	0
Sub-Total			0
CHEMICAL INDICATOR (Applies to Intermitten	t and Pere	nnial Str	eams)
WVDEP Water Quality Indicators (General)			
Specific Conductivity			
100-199 - 85 points	0-90		0
pH			48
5.6-6.0 = 45 points	0-80	0-1	0
DO			
>5.0 = 30 points	10-30		0
Sub-Total			
BIOLOGICAL INDICATOR (Applies to Intermitty	ent and Pe	rennial S	Streams)
WV Stream Condition Index (WVSCI)			
0	0-100	0-1	0
Sub-Total			0

PART II - Index and Ur	nit Score	
Index	Linear Feet	Unit Score
0.325	0	0

Column No. 2- Mitigation Existing Cond	lition - B	aseline	e (Credit)
HGM Score (attach data forms):			Average
Hydrology	0		
Biogeochemical Cycling	0		0
Habitat	0		
PART I - Physical, Chemical and B	iological	Indica	tors
	Points Scale	Range	Site Score
PHYSICAL INDICATOR (Applies to all streams of	lassificatio	ons)	
USEPA RBP (High Gradient Data Sheet)			
<ol> <li>Epifaunal Substrate/Available Cover</li> </ol>	0-20		20
2. Embeddedness	0-20		15
3. Velocity/ Depth Regime	0-20		18
4. Sediment Deposition	0-20		18
5. Channel Flow Status	0-20	0-1	20
6. Channel Alteration	0-20		20
7. Frequency of Riffles (or bends)	0-20		20
8. Bank Stability (LB & RB)	0-20	1	16
9. Vegetative Protection (LB & RB)	0-20	1	8
10. Riparian Vegetative Zone Width (LB & RB)	0-20	1	20
Total RBP Score	Opti	mal	175
Sub-Total			0.875
CHEMICAL INDICATOR (Applies to Intermittent WVDEP Water Quality Indicators (General)	and Peren	nial Stre	ams)
Specific Conductivity			
speene conducting	0-90	1	123
100-199 - 85 points	0-90		125
pH		]	
6.0-8.0 = 80 points	5-90	0-1	7.55
DO			
>5.0 = 30 points	10-30		10.89
Sub-Total	I		0.975
BIOLOGICAL INDICATOR (Applies to Intermittee	nt and Per	ennial St	reams)
WV Stream Condition Index (WVSCI)		,	
Very Good	0-100	0-1	85
Sub-Total		-	0.85

PART II - Index and Un	it Score		
Index	Linear Feet	Unit Score	
0.9	3017	2715.3	



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### Stream Parts III-VI (Tab 2)

#### West Virginia Stream and Wetland Valuation Metric (SWVM) v2.1

(Stream Valuation Metric - Worksheet 2 of 3)

		PART III - Impact Factors				
	(See instruction)	page to insert default values for MITIGATION	BANKING and IL	F)		
	foce instruction	page to insert delaat faldes for infrontion		•		
Temporal Loss-Construction				Long	-term Protection	
"Note: Reflects duration of aquatic functional loss between the time of an impact	t (debit) and completion of compensatory		% Add. Mitigatio	on and Monitoring Period	Long-	Term Protection (Years)
mitigation (credit).						
• • · ·						
Years	2					
Sub-Total	0.0463					
Sub-rotai	0.0465	-				
Temporal Loss-Maturity			0 + 5/1	10 Year Monitoring		101
"Note: Period between completion of compensatory mitigation measures			Sub-Total			0
as it relates to function (i.e. maturity of tree stratum to provide organic i	natter and detritus within riparian		•		•	
stream or wetland buffer combor).				PART IV - Index	to Unit Score Con	version
	-		Final Index Score	Linear Feet	Unit Score	ILF Costs
% Add. Mitigation	Temporal Loss-Maturity (Years)		(Debit)		(Debit)	(Offsetting Debit Units)
			0.9723	500	486.15	\$388,920.00
			0.3723	500	406.15	\$300,320.00
2014	15					
20%	13					

		PART	V- Comparison of Ur	nit Scores and Projected	l Balance				
Final Unit Score (Debit) [No Net Loss Value]	486.15	Mitigation Existing Condition - Baseline (Credit)	859.75	Mitigation Projected at Five Years pletion (Credit)	1122.1875	Mitigation Projected at Ten Years Post Completion (Credit)	1192.25	Mitigation Projected At Maturity (Credit)	1210.0625
FINAL PROJECTED NET BALANCE					262.4375		332.5		350.3125

	Part VI - Mitigation C	onsiderations (Incentive	es)		
	Extent of Stream Restoration tional handout to determine the correct Rectoration Levels (below) for your project ase a "oheokmark" in the appropriate category (only select one).		*Note <sup>1</sup> : Reference	e instructional handout for the de	Upland Buffer Zone Initions of the Buffer Zone Mitigation Extents and Types (below)
■ Restoration Level 1	FULL EXTENT (e.g. Extensive channel restoration involving dimension, pattern and profile work through re-establishment or creation on impaired moderate and low-gradient perennial and intermittent streams)				each channel cide (Left Bank and Right Bank) le appropriate mitigation type
Restoration Level 2	MODERATE EXTENT (e.g. Extensive channel restoration generally involving dimension and profile work through re-establishment or creation on impaired moderate and low-gradient perennial and intermitter streams)		Buffer Width		Left Bank
Restoration Level 3	FULL EXTENT IN LATERALLY CONTAINED OR LIMITED BELT WIDTH CHANNELS (e.g. Channel restoration involving dimension, pattern and profile work through re-establishment or creation on impaired high, moderate and low-gradient streams)		100	0-50	Preservation and Re-vegetation
		-			Descention and Questomerical District

In the absence of a Watershed Plan, a Watershed Approach (focusi scale or larger) for compensatory mitigation has been a "Note: A watershed approach is a requirement to obtain one of the "Extent	pplied? (Yes or No)	N
Site	impact Unit Yield (Debit)	Mitigation Unit Yield (Credit)
Labor Creek Mit Site A	486.15	490 4375

0.154333333

Sub-Total

"Note <sup>1</sup> : Reference	e instructional handout for the def *Note <sup>2</sup> : Enter the buffer width for	r each channel side (Left Bank and Right Bank)
Buffer Width		Left Bank
100	0-50	Preservation and Re-vegetation
	51-150	Preservation and Supplemental Planting
Buffer Width		Right Bank
100	0-50	Preservation and Re-vegetation
	51-150	Preservation and Supplemental Planting
Average Buffer Width/Side	100	
		Straight Preservation Ratio

Only Active During Preservation

| A       B       C       D       E         To ensure accurate calculations, the UPPERMOST STRATUM of the plant community is determined based on the calculated value for V <sub>CCMOPY</sub> (E20% cover is required for tree/sapling strata). Go to the SAR Data Entry tab and enter site characteristics and data in the yellow cells. For information on determining how to split a project into SARs, see Chapter 5 of the Operational Draft Regional Guidebook for the Functional Assessment of High-gradient Ephemeral and Intermittent Headwater Streams in Western West Virginia and Eastern Kentucky (Environmental Laboratory U.S. Army Corps of Engineers 2010).         Project Name: EIP TEST       Location:         Sampling Date: Enter dates on Data Form       Choose Site on Choose Timing Data Form of Data Form         Subclass for this SAR:       Select Stream Type on Data Form         Uppermost stratum present at this SAR:       SAR number:         Tree/Sapling Strata       Functional Results Summary:         Functional Results Summary:       Please Fill Out Ste and Timing Information on Data Form         Variable Measure and Subindex Summary:       0.67 | ATUM of the plant community is determined based or<br>t ree/sapling strata). Go to the SAR Data Entry tab a<br>formation on determining how to split a project into 3<br>for the Functional Assessment of High-gradient Ephe<br>ia and Eastern Kentucky (Environmental Laboratory<br>Choose Site on Cho<br>Data Form of D<br>Form<br>SAR number:<br>Please Fill Out Site and Timing Information<br>on Functional<br>Capacity Index<br>0.67<br>0.73<br>mary:<br>Average<br>Measure Si<br>85.00<br>1. 2.00 | a     b     a     c       a: community is determined based on the<br>tta). Go to the SAR Data Entry tab and enter<br>mining how to split a project into SARs, see<br>at Assessment of High-gradient Ephemeral and<br>entucky (Environmental Laboratory       Choose Site on<br>Data Form     Choose Timing<br>of Data Form       Choose Site on<br>Data Form     Choose Timing<br>of Data Form       SAR number:     Ill Out Site and Timing Information on Data Form       Functional<br>Capacity Index     0.77       0.67     0.73       0.67     0.73       Average<br>Measure     Subindex       85.00     0.96 | E ased on the y tab and enter it into SARs, see it control of the second | nter<br>, see<br>al and<br>Timing<br>Form<br>ata Form | E<br>I on the<br>b and enter<br>o SARs, see<br>hemeral and<br>ry<br>hoose Timing<br>f Data Form<br>on on Data Form<br>Subindex<br>0.96 | B       C       B       B       I       K       L       M       N       O       P       Q       R         0       o ensure accurate calculations, the UPEEMOST STATURE of the plant community is determined based on the final based based on the final based on   | B       D       D       E         B       D       E         B       D       K       L       M       N       O       P       Q       R         B       D       D       E       D       E       D       K       L       M       N       O       P       Q       R         B       D <thd< th="">       D       D       D&lt;</thd<>  | Project Name:       EPTOP       EPTOP       EPTOP       PO       R         Variable Measure and Subindex Summary:       Polonic State       Polonic Polonic State       Polonic Polonic State       P | Project Name:       EIP TEST<br>Location:<br>sampling Date:       SAR number:<br>Tree(Saping State)       SAR number:<br>Tree(Saping State)         Subclase for this SAR:<br>http://doi.org/1000/00000000000000000000000000000000  | Image: Interpretation of the second of the constraints of the information of based on the conclusted value for the sequence of the second of the conclusted value for the sequence of the second of   | B       C       D       E         B       C       M       N       O       P       Q       R         email and the light of the plant community is demined based on the relation of the plant community is demined based on the relation of the plant community is demined based on the relation of the plant community is demined based on the relation of the plant
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K         L         M         N         O         P         Q         R           Contain:         Sampling Date:         Einformation on determining base stream in Weaker Wea   | Image: Normal Sector       Image: Normal Sector <th< th=""><th>Project Name:         EIP TEST<br/>Location:         SAR         SAR</th><th>B         C         D         E           ensure accurate calculations, the <u>UPFRONCE</u>         M         M         O         P         Q         R           ensure accurate calculations, the <u>UPFRONCE</u>         Constrained when the theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to and enter theoremain gatabal, for the SARD has Envis to an envis to</th><th>p         c         p         c         p         c         k         L         M         N         O         P         Q         R           0 on stars accurate calculation, the UPFERDATULATURE of the plant community is the intervalue of the</th><th>B       J       K       L       M       N       O       P       Q       R         ensure acculation, the UPEEBNAST_STANUM of the plant community is determined based on the GRD pate Environmental Laboratory is the SRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is the community is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is determined based on the GRD pate Environmental Laboratory is
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| Functional Results Summary:     Please Fill Out Site and Timing Information on Data Form       Function     Functional<br>Capacity Index       Hydrology     0.77       Biogeochemical Cycling     0.67       Habitat     0.73  | Please Fill Out Site and Timing Information<br>on Functional<br>Capacity Index<br>0.77<br>0.67<br>0.73<br>mary:<br>Average<br>Measure<br>85.00<br>1. 2.00  | Ill Out Site and Timing Information on Data Form       Functional<br>Capacity Index       0.77       0.67       0.73         Average<br>Measure     Subindex       85.00     0.96  | Subindex   | ıdex  | Subindex<br>0.96   | Tree/Saping Strata         Functional Results Summary:       Please Fill Out Site and Timing Information on Data Form         Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Image: Constraint of the State   | Tree/Sapling Strata         Inctional Results Summary:       Please Fill Out Site and Timing Information on Data Form         Impute Support Summary:       Please Fill Out Site and Timing Information on Data Form         Impute Support Support Summary:       Impute Support Supp   | Tree/Sapling Strata         Functional Results Summary:       Please Fill Out Site and Timing Information on Data Form         Functional       Functional         Function       Functional         Capacity Index       0.77         Biogeochemical Cycling       0.77         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         Variable       Name       Average<br>Measure       Subindex         Verage on beddeness of channel.       2.00       0.46         Vasage meddedness of channel.       2.00       0.46   | Tree/Sapling Strata     Functional Results Summary:   Please Fill Out Site and Timing Information on Data Form   Function   Functional   Capacity Index   Hydrology   Biogeochemical Cycling   Habitat     Variable Measure and Subindex Summary:   Variable   Name   Average   Measure   Measure   Variable Measure ambdedeness of channel.   200   0.46   Vauges mebdedeness of channel.   200   0.46   Vauge mebdedeness of channel.   200   0.46   Vauges mebdedeness of channel.   200   0.46   Vauge mebdedeness of channel.   200   201   201   201   201   201   201   201   201   | Tree/Sapling Strata     Functional Results Summary:   Please Fill Out Site and Timing Information on Data Form   Hydrology   Hydrology   Hydrology   Biogeochemical Cycling   Habitat     Variable Measure and Subindex Summary:   Variable   Name   Measure   Measure   Variable Average embeddedness of channel.   200   0.46   Vsuesco   Yescon   Total percent of eroded stream channel bank.  
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   | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Variable       Average Measure       Subindex         Variable       Name       Average<br>Measure       Subindex         Vecanopv       Percent canpoy over channel.       85.00       0.96         Vsuberna       Average embeddedness of channel.       2.00       0.46         Vsuberna       Total percent of eroded stream channel bank.       70.00       0.70         V <sub>INDO</sub> Number of drow woody stems per 100 feet of stream.       10.00       1.00         V <sub>INDO</sub> Number of fange per 100 feet of stream.       10.00       1.00         V <sub>INDA</sub> Number of fange per 100 feet of stream.       0.070   | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Arriable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         Vernable       Name       Subindex         Vernable       0.96         Vsusepo       Average embeddefness of channel.       2.00         Vyuespmarte       0.255       0.13         Virdei       Average dbh of trees.       10.00         Virdei       Average dbh of trees.       14.97         Virdei       Average dbh of trees.       6.00         Virdei       0.00       0.70   | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Arriable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure         Vocanory       Percent canpoy over channel.       85.00         Vesmeso       Average embeddedness of channel.       0.03         Vuosmare       Median stream channel substate particle size.       0.25         Variab       0.70       0.70         Vyme       Number of down woody stems per 100 feet of stream.       10.00         Variao       Number of sangs per 100 feet of stream.       6.00         Vasao       Number of sangles per 100 feet of stream.       Not Used  | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Cariable Measure and Subindex Summary:         Variable       Name       Average<br>Measure       Subindex         V_coarrop-y       Percent canpoy over channel.       200       0.46         Vsussmare       Median stream channel substrate particle size.       0.25       0.13         Vesseo       Average dhh of trees.       14.97       1.00         Vumber of snags per 100 feet of stream.       14.97       1.00         Vsusso       Number of snags per 100 feet of stream.       6.00       0.70         Vsuso       Number of snags per 100 feet of stream.       6.00       0.70         Vsuso       Number of snags per 100 feet of stream.       10.00       1.00         Vsuso       Number of snags per 100 feet of stream.       6.00       0.70         Vsuso       Number of snags per 100 feet of stream.       Not Used       Not Used   | Function     Functional<br>Capacity Index       Hydrology     0.77       Biogeochemical Cycling     0.67       Habitat     0.73       Variable Measure and Subindex Summary:       Vessee       Vessee     Average mbeddedness of channel.       2.00     0.46       Vsusstrate     0.25       Varee     0.00       Vessee     0.70       Vrose     10.00       Vrose     14.97       Vorse     14.97       Varse     0.01 feet of stream.       Viros     Number of snage per 100 feet of stream.       Vase     Nutleer of snage per 100 feet of stream.       Viros     Number of snage per 100 feet of stream.       Viros     Number of snage per 100 feet of stream.       Viros     Number of snage per 100 feet of stream.       Viros     Number of snage per 100 feet of stream.       Not Used     Not Used  
   
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Vsiso       Number of singes and shrubs per 100 feet of stream.&lt;</td><td>Function         Functional<br/>Capacity Index           Hydrology         0.77           Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         0.73           Variable         Name         Average<br/>Measure           Verable Measure and Subindex Summary:         0.95           V_cconory         Percent canpoy over channel.         0.85.00           Verage embeddedness of channel.         2.00         0.46           VaussTwart         Median stream channel substrate particle size.         0.25           Vuito         Number of down woody stems per 100 feet of stream.         10.00           Vuito         Number of sings per 100 feet of stream.         14.97           Vsitod         Number of sings per 100 feet of stream.         6.30           Vsitod         Number of sings per 100 feet of stream.         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Not Used           Vsitod         Number of sings per cont circle ideates, stick, etc.         95.00  </td><td>Function     Functional<br/>Capacity Index       Hydrology     0.77       Biogeochemical Cycling     0.67       Habitat     0.73       Habitat     0.73       Variable     Name     Average<br/>Measure       Variable     Name     Average<br/>Measure       Vocanopy     Percent canpoy over channel.     85.00     0.96       Vsuesmax     Median strate nchanel substrate particle size.     0.25     0.13       Veseo     Average embeddeness of channel bank.     70.00     0.70       Vurob     Number of down woody stems per 100 feet of stream.     10.00       Visso     Number of snags per 100 feet of stream.     6.00       Visso     Number of snags per 100 feet of stream.     0.070       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Number of snags per 100 feet of stream.     0.0100       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Average percent cover of heaves, sticks, etc.     95.00     1.00       Visso     Average percent cover of heaves, sticks, etc.     95.00     1.00       Visso     Average percent cover of heaves segutation.     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Not Used         Vastor       Number of stange percent cover of heades station.</td></td> | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Variable       Name       Average<br>Measure       Subindex         V_ccaNopy       Percent canpoy over channel.       200       0.46         V_substrate       Median stream channel substrate particle size.       0.25       0.13         Vesseo       Total percent of ended stream channel bank.       77.00       0.70         Vtwo       Number of snaga per 100 feet of stream.       10.00       100         Vtmost       Average dhof ftrees.       6.30       0.70         Vssoch       Number of sagaings and shrubs per 100 feet of stream.       6.00       0.70         Vssoch       Riparian vegetation species inchness.       6.30       1.00   
   
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  | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure         V_coknorv       Percent canpoy over channel.       0.96         Vsuestrate       Media stream channel substrate particle size.       0.25         Vsuestrate       Media stream channel bank.       70.00         Vupo       Number of soded stream channel bank.       70.00         Vigon       Number of stream.       1.00         Vigon       Number of stream.       6.00         Vigon       Number of spaings and shrubs per 100 feet of stream.       Not Used         Visso       Number of spaings and shrubs per 100 feet of stream.       Not Used         Visso       Number of spaings and shrubs per 100 feet of stream.       Not Used         Visso       Riparian vegetation species richness.       6.30       1.00  | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         V_ccAtory       Percent canpoy over channel.       0.96         Vemeep       Average of channel.       2.00       0.46         Vsusstrate       Median stream channel substrate particle size.       0.25       0.13         Verseo       Total percent of orded stream.       10.00       1.00         Virope H       Average thof trees.       14.97       1.00         Vanseo       Number of snags per 100 feet of stream.       6.00       0.70         Vasso       Number of snags per 100 feet of stream.       1.00       Not Used         Vasso       Ripariar vegetation species richness.       6.30       1.00   
  | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Average<br>Measure       Subindex         V_ccanopy       Percent canpoy over channel.       85.00       0.96         Vsuestat       0.26       0.13         VesteeD       Average embeddeness of channel.       2.00         Vuo       Number of stream.       10.00         Vorget       Average dho ftrees.       14.97         Vorget       Average dho ftrees.       14.97         Vorget       Average per 100 feet of stream.       0.00         Vorget       Average strain substate particle size.       0.26         Vorget       Average dho ftrees.       14.97         Vorget       Average dho ftrees.       14.97         Vorget       Number of stream.       0.00         Vasio       Number of stream.       0.00   | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         Variable       Name       Average<br>Measure       Subindex         Vocanopy       Percent campoy over channel.       85.00       0.96         Vessep       Average embeddedness of channel.       2.00       0.46         Vsuo       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vuo       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vsuo       Number of sagues and shrubs per 100 feet of stream.       6.00       0.70         Vsuo       Number of sagues per 100 feet of stream.       6.00       0.70         Vsuo       Number of sagues per 100 feet of stream.       6.00       0.70         Vsuo       Number of sagues per 100 feet of stream.       6.00       0.70         Vsuo       Number of sagues per 100 feet of stream.       6.00       0.70         Vsuo       Number of sagues per 100 feet of stream.       6.00       1.00         Vsuo       Number of sagues per 100 feet of stream.       6.30       1.00       1.00 <td>Function       Functional<br/>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Versible Average embeddedness of chanel.         2.00       0.46         Vsussmart       Median stream channel substrate particle size.         0.25       0.13         Version       Number of down woody stems per 100 feet of stream.         10.00       1.00         Vsuo       Number of snage per 100 feet of stream.         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  | Function         Functional<br>Capacity Index           Hydrology         0.77           Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         0.73           Variable         Name         Average<br>Measure           Verable Measure and Subindex Summary:         0.95           V_cconory         Percent canpoy over channel.         0.85.00           Verage embeddedness of channel.         2.00         0.46           VaussTwart         Median stream channel substrate particle size.         0.25           Vuito         Number of down woody stems per 100 feet of stream.         10.00           Vuito         Number of sings per 100 feet of stream.         14.97           Vsitod         Number of sings per 100 feet of stream.         6.30           Vsitod         Number of sings per 100 feet of stream.         Not Used           Vsitod         Number of sings per 100 feet of stream.         Not Used           Vsitod         Number of sings per 100 feet of stream.         Not Used           Vsitod         Number of sings per 100 feet of stream.         Not Used           Vsitod         Number of sings per cont circle ideates, stick, etc.         95.00   | Function     Functional<br>Capacity Index       Hydrology     0.77       Biogeochemical Cycling     0.67       Habitat     0.73       Habitat     0.73       Variable     Name     Average<br>Measure       Variable     Name     Average<br>Measure       Vocanopy     Percent canpoy over channel.     85.00     0.96       Vsuesmax     Median strate nchanel substrate particle size.     0.25     0.13       Veseo     Average embeddeness of channel bank.     70.00     0.70       Vurob     Number of down woody stems per 100 feet of stream.     10.00       Visso     Number of snags per 100 feet of stream.     6.00       Visso     Number of snags per 100 feet of stream.     0.070       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Number of snags per 100 feet of stream.     0.0100       Visso     Number of snags per 100 feet of stream.     0.00       Visso     Average percent cover of heaves, sticks, etc.     95.00     1.00       Visso     Average percent cover of heaves, sticks, etc.     95.00     1.00       Visso     Average percent cover of heaves segutation.     Not Used     Not Used   | Function       Functional<br>Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Arriable Measure and Subindex Summary:       0.73         Variable       Name       Average<br>Measure         Vocation       85 00       0.96         Vestee       Average embeddentess of channel.       2.00         Vauesmark       2.00       0.46         Vaues       Number of down woody stems per tool feet of stream.       10.00         Variab       0.70       0.70         Variab       0.70       0.00         Variab       0.70       0.00         Variab       0.070       0.00         Variab       0.00       0.70         Variab       0.01 0.00       1.00         Variab       0.02       0.70         Variab       Number of stange pr100 feet of stream.       10.00         Vastor       Number of stange pr100 feet of stream.       10.00         Vastor       Number of stange per too treet of stream.       Not Used         Vastor       Number of stange percent cover of heades station.       Not Used         Vastor       Number of stange percent cover of heades station.  |
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   | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure         Veree       Average embeddedness of channel.       2.00         Vsubstrate       Median stream channel substrate particle size.       0.25         Veree       Total percent of eroded stream channel bank.       70.00         Vitwo       Number of down woody stems per 100 feet of stream.       10.00         Vitwo       Average dbh of trees.       14.97  | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         ariable Measure and Subindex Summary:         Average mbdddeness of channel.         Vocanopy       Percent canpoy over channel.       85.00         Vestes       Average embdddeness of channel substrate particle size.       0.25         Vsubstrate       Media stream channel substrate particle size.       0.25         Variable       Total percent of eroded stream channel bank.       70.00         Vwo       Number of down woody stems per 100 feet of stream.       10.00         Vsubstrate       Media frees.       14.97         Vsubstrate       Number of snags per 100 feet of stream.       6.00         Vsubstrate       0.00       0.70   | Function         Capacity Index           Hydrology         0.77           Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:           Variable         Name         Average<br>Measure         Subindex           Verage embeddedness of channel.         2.00         0.46           Vsuesco         Total percent of eroded
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  | Function     Capacity Index       Hydrology     0.77       Biogeochemical Cycling     0.67       Habita     0.73       Variable     Name     Average       Variable     Name     Average       Variable     Name     65.00       VesneeD     Average embeddedness of channel.     20.00       Vsuestratt     Median stream channel substrate particle size.     0.25       Vitudo     Number of sodgings per 100 feet of stream.     10.00       Vitudo     Number of sangings per 100 feet of stream.     6.00       Vissoi     Number of sangings and shrubs per 100 feet of stream.     6.00       Vissoi     Number of sangings and shrubs per 100 feet of stream.     6.00       Vissoi     Number of sangings and shrubs per 100 feet of stream.     Not Used       Vissoi     Number of sangings and shrubs per 100 feet of stream.     Not Used       Vissoi     Number of sangings and shrubs per 100 feet of stream.     Not Used   | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         Variable       Name       0.96         V_cosmoery       Percent canpoy over channel.       2.00         Vsuesed       Average embeddedness of channel.       2.00         Vsuesed       Average other of ended stream channel busktate particle size.       0.25         Visuo       Number of snage per 100 feet of stream.       10.00         Vroge       Average other of ended stream channel bank.       70.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       6.00         Visuo       Number of snage per 100 feet of stream.       Not Used         Visuo       Number of snage
per 100 feet of stream.       Not Used         Visuo  | Function       Capacity Index         Hydrology       0.77         Bigeochemical Cycling       0.67         Habita       0.73         Variable       Name       Average         Variable       Name       Subindex         VocAnory       Percent canpoy over channel.       85.00         Verage of total percent of eroded stream channel substrate particle size.       0.25         Variable       Median stream channel substrate particle size.       0.25         Vuno       Number of down woody stems per 100 feet of stream.       10.00         Vuno       Number of snags per 100 feet of stream.       10.00         Vsato       Number of snags per 100 feet of stream.       Not Used         Vsato       Number of snags per 100 feet of stream.       Not Used         Vsato       Number of snags per 100 feet of stream.       Not Used         Vsato       Number of snags per cont circle feases, stich, set.       6.30       100         Vsato       Number of snags per cont circle feases, stich, set.       6.30       100   | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Average Measure       Subindex         V_ccanoev       Percent canpoy over channel.       66 500       0.96         V_stateco       Average embeddedness of channel.       2.00       0.46         Vages market       Median stream channel substrate particle size.       0.25       0.13         Variab       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vuon       Number of snags per 100 feet of stream.       0.07.0       0.70         V <sub>strin</sub> Average percent or ored of estream.       0.00       0.00         V <sub>strin</sub> Number of snags per 100 feet of stream.       Not Used       Not Used         V <sub>strin</sub> Number of snags per 100 feet of stream.       Not Used       Not Used         V <sub>strin</sub> Average percent core of leaves, ticks, etc.       55.00       1.00  | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Variable       Average Measure       Subindex         V_ccencey       Percent canpoy over channel.       65:00       0.96         V_EMEED       Average embeddedness of channel.       2:00       0.46         Vuiro       Number of down woody stems per 100 feet of stream.       10:00       10:00         Vuiro       Number of down woody stems per 100 feet of stream.       10:00       10:00         Vision       Number of snage per 100 feet of stream.       Not Used       Not Used         Vastoch       Riparina vegetation species richness.       6:30       10:00         Vision       Number of snage percent core of
leaves, sticks, etc.       95:00       10:00 <td>Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Variable Average embeddeness of channel.       2.00         Vesueso       Average embeddeness of channel.         Voussmare       Median stream channel substrate particle size.         Vitore       0.73         Vitore       Average embeddeness of channel.         Voussmare       Median stream channel substrate particle size.         Vitore       0.73         Vitore       Number of down woody stems per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per tort over of leaves, sticks, etc.         Vitore       Number of snags per torot over of leaves, sticks, etc.      <t< td=""><td>Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         mriable Measure and Subindex Summary:       0.73         Variable       Name       Average<br/>Measure         V_ccanory       Percent canpoy over channel.       85.00         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       Measure         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       0.76         Weines       0.00         Vermap       0.00</td></t<></td> | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable Measure and Subindex Summary:         Variable Average embeddeness of channel.       2.00         Vesueso       Average embeddeness of channel.         Voussmare       Median stream channel substrate particle size.         Vitore       0.73         Vitore       Average embeddeness of channel.         Voussmare       Median stream channel substrate particle size.         Vitore       0.73         Vitore       Number of down woody stems per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per 100 feet of stream.         Vitore       Number of snags per tort over of leaves, sticks, etc.         Vitore       Number of snags per torot over of leaves, sticks, etc. <t< td=""><td>Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         mriable Measure and Subindex Summary:       0.73         Variable       Name       Average<br/>Measure         V_ccanory       Percent canpoy over channel.       85.00         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       Measure         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       0.76         Weines       0.00         Vermap       0.00</td></t<>   | Function       Capacity Index         Hydrology       0.77         Biogeochemical Cycling       0.67         Habitat       0.73         mriable Measure and Subindex Summary:       0.73         Variable       Name       Average<br>Measure         V_ccanory       Percent canpoy over channel.       85.00         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       Measure         Vermap       0.76         Measure       0.73         Variable       Name         Vermap       0.76         Weines       0.00         Vermap       0.00  |
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   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure         Subindex           V_coahopy         Percent canpoy over channel.         85.00         0.96           V_emeeD         Average embeddedness of channel.         2.00         0.46           V_substrate         Median stream channel substrate particle size.         0.25         0.13           Veree O         Total percent of eroded stream channel bank.         7.000         0.70           Vuo         Number of down woody stems per 100 feet of stream.         10.00         1.00           Variab         Number of saga per 100 feet of stream.         6.00         0.70           Vasco         Number of saga per 100 feet of stream.         Not Used         Not Used           Vasco         Number of saga per 100 feet of stream.         Not Used         Not Used           Vasco         Riparian vegetation species richnees.         6.30         1.00  | Biogeochemical Cycling       0.67         Habitat       0.73  
   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure<br>Measure         Subindex           V_CCANOPY         Percent canpoy over channel.         85.00         0.96           V_EMBED         Average embeddedness of channel.         2.00         0.46           VBUSSTRATE         Median stream channel substrate particle size.         0.25         0.13           VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLUVO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VSBAG         Number of snags per 100 feet of stream.         Not Used         Not Used           VSBAG         Number of snags per 100 feet of stream.         Not Used         Not Used           VSBAG         Riparian vegetaiton species richness.         6.30         1.00  | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         V_substrate       Median stream channel substrate particle size.       0.25       0.13         V_two       Number of down woody stems per 100 feet of stream.       10.00       100         V_subs       Number of snags per 100 feet of stream.       6.00       0.70         V_silkG       Number of snags per 100 feet of stream.       Not Used       Not Used         V_silkG       Number of snags per 100 feet of stream.       6.30       1.00         V_silkG       Number of snags per cent cover of leaves, sticks, etc.       9.500       1.00   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Variable         Name         Average<br>Measure         Subindex           Variable         Name         Average<br>Measure         Subindex         Subindex           VacANOPY         Percent canpoy over channel.         2.00         0.46           Vaueroo         Total percent of eroded stream channel substrate particle size.         0.25         0.13           Vaeroo         Total percent of eroded stream channel bank.         70.00         0.70           Vivo         Number of down woody stems per 100 feet of stream.         10.00         1.00           Vaso         Number of snags per 100 feet of stream.         6.00         0.70           Vaso         Number of snags per 100 feet of stream.         6.00         0.70           Vaso         Number of snags per 100 feet of stream.         Nut Used         Nut Used           Vasicu         Riparian vegetation species richness.         6.30         1.00           Vaerage percent cover of leaves, sticks, etc.         95.00         1.00  
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| Biogeochemical Cycling     0.67       Habitat     0.73  | 0.67<br>0.73<br>mary:<br>Average<br>Measure<br>85.00<br>1. 2.00  | 0.67<br>0.73<br>Average<br>Measure<br>85.00 0.96   |  |   | 0.96   | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average Measure         VccANOPY       Percent canpoy over channel.       Subindex         Verage ombeddedness of channel.       2.00       0.46         Vsuesmare       Median stream channel substrate particle size.       0.25       0.13         Verage       Total percent of eroded stream channel bank.       70.00       0.70   | Biogeochemical Cycling       0.67         Habita       0.73  | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Average Measure         Variable       O.96         Vexinge mbeddedness of channel.       2.00       0.46         Vsuestrate       Median stream channel substrate particle size.       0.25       0.13   
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  | Biogeochemical Cycling       0.67         Habita       0.73  | Biogeochemical Cycling       0.67         Habita       0.73  | Biogeochemical Cycling       0.67         Habitat       0.73  | Biogeochemical Cycling       0.67         Habita       0.73  
   
   
   | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         Vemeero       Average embeddedness of channel.       2.00       0.46         Vsubstrate       Median stream channel bank.       70.00       0.70         VLWO       Numbor of down woody stems per 100 feet of stream.       10.00       1.00         VropeH       Average dbh of trees.       14.97       1.00   | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Average         Variable       Name       Average<br>Measure         V_CCANOPY       Percent canpoy over channel.       0.96         V_EMBED       Average embeddedness of channel.       0.096         V_Substrate       Median stream channel bank.       70.00         V_BERO       Total percent of eroded stream channel bank.       70.00         V_TOBH       Average dho firees.       10.00         V_TOBH       Average hof trees.       14.97         Vanabo       Number of snags per 100 feet of stream.       6.00   
   | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         VccANOPY       Percent canpoy over channel.       2.00       0.46         Vsuestratte       Median stream channel substrate particle size.       0.25       0.13         Vgereo       Total percent of eroded stream channel bank.       70.00       0.70         Vtimo       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vsues       Average dbh of trees.       14.97       1.00         Vsues       Number of snags per 100 feet of stream.       6.00       0.70   | Biogeochemical Cycling       0.67         Habita       0.73         ariable Measure and Subindex Summary:       Average Measure         Variable       Name       Average Measure         V_CCANOPY       Percent canpoy over channel.       Subindex         V_EMEED       Average embeddedness of channel.       0.05         V_SUBSTRATE       Median stream channel substrate particle size.       0.25       0.13         V_EBRO       Total percent of eroded stream channel bank.       70.00       0.70         V_TOBH       Average dbh of treas.       14.97       1.00         V_SIAG       Number of snags per 100 feet of stream.       6.00       0.70   | Biogeochemical Cycling         0.67           Habita         0.73           nriable Measure and Subindex Summary:         Name         Average<br>Measure         Subindex           Variable         Name         Average<br>Measure         Subindex           Vermeto         Average embeddeness of channel.         2.00         0.46           Vermeto         Average embeddeness of channel.         2.00         0.46           Vermeto         Average embeddeness of channel.         0.00         0.70           VLWD         Number of adverse particle size.         0.25         0.13           VENDEN         Average dho ftrees.         14.97         1.00           VENDEN         Number of sapairs par 100 feet of stream.         0.00         0.70           Vestado         Number of sapairs and shrubs per 100 feet of stream.         Not Used         Not Used  | Biogeochemical Cycling         0.67           Habitat         0.73           ariable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure         Subindex           V_ccAnory         Percent canpoy over channel.         85.00         0.96           V_sueso         Average embeddedness of channel.         2.00         0.46           V_sueso         Average embeddedness of channel.         0.25         0.13           V_sueso         Total percent of ended stream channel bank.         70.00         0.70           V_two         Number of down woody stems per 100 feet of stream.         10.00         1.00           V_sueso         Number of snages per 100 feet of stream.         6.00         0.70           V_sueso         Number of snages per 100 feet of stream.         0.070           V_sueso         Number of snages per 100 feet of stream.         0.070           V_sso         Number of snages per 100 feet of stream.         0.070           V_sso         Number of snages per 100 feet of stream.         Nut Used   | Biogeochemical Cycling         0.67           Habita         0.73           Variable Measure         Subindex           Variable         Name         Average<br>Measure         Subindex           V_crauce         Percent canpoy over channel.         86.00         0.96           V_extee         Average embeddedness of channel.         2.00         0.46           V_suestrante         Median stream channel substrate particle size.         0.25         0.13           V_suestrante         of anote of orded stream.         10.00         1.00           V_two         Number of storags per 100 feet of stream.         10.00         1.00           V_sues         Average adh of trees.         14.97         1.00           V_sues         Number of stagas per 100 feet of stream.         6.00         0.70           V_sue         Number of stagas per 100 feet of stream.         1.00         1.00           V_suo         Number of stagas per 100 feet of stream.         6.00         0.70           V_suo         Number of stagas per 100 feet of stream.         Not Used         Not Used   
   
  | Biogeochemical Cycling       0.67         Habitat       0.73   
  | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure         Subindex           V_CCANOPY         Percent canpoy over channel.         85.00         0.96           V_EMBED         Average embeddedness of channel.         2.00         0.46           V_BUSTRATE         Median stream channel substrate particle size.         0.25         0.13           Vareage oth of trees         70.00         0.70           VrDBH         Average dth of trees.         14.97         1.00           Vsao         Number of sangs per 100 feet of stream.         6.00         0.70           Vsao         Number of sangs per 100 feet of stream.         Not Used         Not Used           Vascch         Riparian vegetaion species richness.         6.30         1.00   
   
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   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure         Subindex           V_coahopy         Percent canpoy over channel.         85.00         0.96           V_emeeD         Average embeddedness of channel.         2.00         0.46           V_substrate         Median stream channel substrate particle size.         0.25         0.13           Veree O         Total percent of eroded stream channel bank.         7.000         0.70           Vuo         Number of down woody stems per 100 feet of stream.         10.00         1.00           Variab         Number of saga per 100 feet of stream.         6.00         0.70           Vasco         Number of saga per 100 feet of stream.         Not Used         Not Used           Vasco         Number of saga per 100 feet of stream.         Not Used         Not Used           Vasco         Riparian vegetation species richnees.         6.30         1.00  | Biogeochemical Cycling       0.67         Habitat       0.73  
   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Subindex           Variable         Name         Average<br>Measure<br>Measure         Subindex           V_CCANOPY         Percent canpoy over channel.         85.00         0.96           V_EMBED         Average embeddedness of channel.         2.00         0.46           VBUSSTRATE         Median stream channel substrate particle size.         0.25         0.13           VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLUVO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VSBAG         Number of snags per 100 feet of stream.         Not Used         Not Used           VSBAG         Number of snags per 100 feet of stream.         Not Used         Not Used           VSBAG         Riparian vegetaiton species richness.         6.30         1.00  | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         V_substrate       Median stream channel substrate particle size.       0.25       0.13         V_two       Number of down woody stems per 100 feet of stream.       10.00       100         V_subs       Number of snags per 100 feet of stream.       6.00       0.70         V_silkG       Number of snags per 100 feet of stream.       Not Used       Not Used         V_silkG       Number of snags per 100 feet of stream.       6.30       1.00         V_silkG       Number of snags per cent cover of leaves, sticks, etc.       9.500       1.00   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Variable         Name         Average<br>Measure         Subindex           Variable         Name         Average<br>Measure         Subindex         Subindex           VacANOPY         Percent canpoy over channel.         2.00         0.46           Vaueroo         Total percent of eroded stream channel substrate particle size.         0.25         0.13           Vaeroo         Total percent of eroded stream channel bank.         70.00         0.70           Vivo         Number of down woody stems per 100 feet of stream.         10.00         1.00           Vaso         Number of snags per 100 feet of stream.         6.00         0.70           Vaso         Number of snags per 100 feet of stream.         6.00         0.70           Vaso         Number of snags per 100 feet of stream.         Nut Used         Nut Used           Vasicu         Riparian vegetation species richness.         6.30         1.00           Vaerage percent cover of leaves, sticks, etc.         95.00         1.00  
   | Biogeochemical Cycling         0.67           Habitat         0.73           Variable Measure and Subindex Summary:         Name         Average<br>Measure         Subindex           Variable         Name         Average<br>Measure         Subindex           Variable         Name         0.96           Variable         Average embeddedness of channel.         2.00           Variable         Cold         0.25           Variable         Total percent of eroded stream channel bank.         70.00           Variable         Total percent of eroded stream channel bank.         70.00           Visco         Number of snags per 100 feet of stream.         10.00           Vasco         Number of snags per 100 feet of stream.         6.00           Vasco         Number of snags per 100 feet of stream.         Not Used           Vasich         Riparian vegetation species richness.         6.30           Vasich         Riparin vegetation species richness.         6.30 <td>Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Name       Average<br/>Measure       Subindex         V_ccanopy       Percent canpoy over channel.       85.00       0.96         V_subestrante       Median stream channel substrate particle size.       0.25       0.13         V_subestrante       Median stream channel bank.       70.00       0.70         V_two       Number of down woody stems per 100 feet of stream.       10.00       1.00         V_susda       Number of saplings and shrubs per 100 feet of stream.       Not Used       Not Used         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_berne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00</td> <td>Biogeochemical Cycling       0.67         Habitat       0.73</td>   | Biogeochemical Cycling       0.67         Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Name       Average<br>Measure       Subindex         V_ccanopy       Percent canpoy over channel.       85.00       0.96         V_subestrante       Median stream channel substrate particle size.       0.25       0.13         V_subestrante       Median stream channel bank.       70.00       0.70         V_two       Number of down woody stems per 100 feet of stream.       10.00       1.00         V_susda       Number of saplings and shrubs per 100 feet of stream.       Not Used       Not Used         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_streage       Average percent cover of laves, sticks, etc.       95.00       1.00         V_berne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00       1.00         V_terne       Average percent cover of laves, sticks, etc.       95.00  | Biogeochemical Cycling       0.67         Habitat       0.73   |
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  | Habitat     0.73       Ariable Measure and Subindex Summary:       Variable     Name     Average<br>Measure     Subindex       V_ccANOPY     Percent canpoy over channel.     85.00     0.96       V_emeco     Average embeddedness of channel.     2.00     0.46       V_substrate     Median stream channel substrate particle size.     0.25     0.13       V_emeco     Total percent of ordod stream channel bank.     70.00     0.70       V_two     Number of down woody stems per 100 feet of stream.     10.00     1.00  | Habitat     0.73       Ariable Measure and Subindex Summary:     Subindex       Variable     Name     Average<br>Measure     Subindex       V_ccANOPY     Percent canpoy over channel.     85.00     0.96       V_EMBED     Average embeddedness of channel.     2.00     0.46       V_substrarte     Median stream channel substrate particle size.     0.25     0.13       V_EMBED     Total percent of eroded stream channel bank.     70.00     0.70       V_two     Number of down woody stems per 100 feet of stream.     10.00     1.00   | Habitat       0.73         Ariable Measure and Subindex Summary:         Variable       Name       Average Measure         Vsuesco       Average embeddedness of channel.       2.00       0.46         Vsuesco       Average embeddedness of channel substrate particle size.       0.25       0.13         Verroo       Total percent of endows than endows that particle size.       0.070       0.70         V <sub>LWO</sub> Number of down woody stems per 100 feet of stream.       10.00       1.00   | Habitat       0.73         Habitat       Average<br>Measure       Subindex         V <sub>CANOPY</sub> Percent canpoy over channel.       85.00       0.96         V <sub>EMBED</sub> Average embeddedness of channel.       2.00       0.46         V <sub>SUBSTRATE</sub> Median stream channel substrate particle size.       0.25       0.13         V <sub>EMBED</sub> Number of down woody stems per 100 feet of stream.       10.00       1.00         V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.       14.97       1.00   
   
   
   | Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         V_CCANOPY       Percent canpoy over channel.       860       0.96         VemeED       Average embeddefness of channel.       2.00       0.46         Vsubstratre       Median stream channel bubstrate particle size.       0.25       0.13         VemeEO       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vityop       Number of down woody stems per 100 feet of stream.       14.97       1.00  | Habitat       0.73         Ariable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_substrate       Median stream channel substrate particle size.       0.25       0.13         VBERO       Total percent of eroded stream channel bank.       70.00       0.70         Vumo       Number of down woody stems per 100 feet of stream.       10.00       1.00         Votabel       Average dho ftrees.       14.97       1.00         Vastado       Number of snags per 100 feet of stream.       6.00       0.70   | Habitat       0.73         Variable Measure and Subindex Summary:       Name       Average Measure         Variable       Name       Average Measure    
    Verside       Name       Average Measure         Verside       Name       O.96         Verside       O.96       O.96         Verside       O.25       O.13         Verside       O.70       O.70         Visual Number of down woody stems per 100 feet of stream.       10.00       1.00         Visual Number of sings per 100 feet of stream.       14.97       1.00         Visual Number of sings per 100 feet of stream.       6.00       0.70   | Habitat       0.73         Ariable Measure and Subindex Summary:       Name       Average<br>Measure       Subindex         Variable       Name       Average<br>Measure       Subindex         V_CCANOPY       Percent canpoy over channel.       2.00       0.46         Vsuestrate       Median stream channel substrate particle size.       0.25       0.13         VgerRo       Total percent of eroded stream channel bank.       70.00       0.70         Vyobert       Average dub of treas.       14.97       1.00         Vsildas       Number of snags per 100 feet of stream.       6.00       0.70   | Habitat       0.73         Ariable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         VsmBeD       Average embeddedness of channel.       2.00       0.46         VsmBeD       Total percent of eroded stream channel bank.       70.00       0.70         Vivio       Number of drow woody stems per 100 feet of stream.       10.00       1.00         Visues       14.97       1.00       0.70         Vsmac       Number of sangings and shrubs per 100 feet of stream.       Not Used       Not Used   | Habitat         0.73           Ariable         Measure         Subindex           Variable         Name         Average<br>Measure         Subindex           V_ccANOPY         Percent canpoy over channel.         85.00         0.96           V_substrate         Median stream channel substrate particle size.         0.25         0.13           V_substrate         Median stream channel bank.         70.00         0.70           V_two         Number of drown woody stems per 100 feet of stream.         10.00         1.00           V_SUBAG         Average bhol ftrees.         14.97         1.00           V_StaGo         Number of sagings and shrubs per 100 feet of stream.         Not Used         Not Used  | Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         Vertable       Name       Average mbeddeness of channel.       2.00       0.46         Vsubstrate       Median stream channel substrate particle size.       0.25       0.13         Vertable       Mumber of forded stream channel bank.       70.00       0.70         VisitaG       Number of streage per 100 feet of stream.       10.00       1.00         VsitaG       Number of stage per 100 feet of stream.       0.01 Sed       Not Used   
   
  | Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Name       Average<br>Measure       Subindex         Vc_CANOPY       Percent canpoy over channel.       85.00       0.96         V_EMBED       Average embeddedness of channel.       2.00       0.46         Vsubstrate       Median stream channel subtrate particle size.       0.25       0.13         Vsubstrate       Median stream channel bank.       70.00       0.70         Vt_two       Number of down woody stems per 100 feet of stream.       10.00       1.00         Vsubstrate       Mumber of sags per 100 feet of stream.       6.00       0.70         Vsubstrate       Number of sags per 100 feet of stream.       Not Used       Not Used         Vsubstrate       Riparian vsgetsion species richness.       6.30       1.00   
  | Habitat       0.73         Variable Measure and Subindex Summary:       Average Measure       Subindex         Variable       Name       Average Measure       Subindex         VscANOPY       Percent canpoy over channel.       85.00       0.96         Vsubstrate       Median stream channel substrate particle size.       0.25       0.13         Vsubstrate       Median stream channel bank.       70.00       0.70         VroBH       Average dbh of trees.       14.97       1.00         Vsub       Number of sangs per 100 feet of stream.       Not Used       Not Used         Vsso       Number of sangings and shrubs per 100 feet of stream.       Not Used       Not Used         Vsso       Number of sangings and shrubs per 100 feet of stream.       Not Used       Not Used         Vsso       Number of sangings and shrubs per 100 feet of stream.       Not Used       Not Used         Vsso       Number of sangings and shrubs per 100 feet of stream.       Not Used       Not Used   
   
  | Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         Vsubstrate       Median stream channel substrate particle size.       0.25       0.13         V_EME O       Number of down woody stems per 100 feet of stream.       10.00       1.00         V_two       Number of snags per 100 feet of stream.       14.97       1.00         V_stage       Number of snags per 100 feet of stream.       Not Used       Not Used         V_stage       Number of snags per 100 feet of stream.       Not Used       Not Used         V_stage       Number of snags per 100 feet of stream.       Not Used       Not Used         V_stage       Number of snags per 100 feet of stream.       Not Used       Not Used   | Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         Vsubstrate
      Median stream channel substrate particle size.       0.25       0.13         V_EWED       Total percent of eroded stream channel bank.       70.00       0.70         V_LWO       Number of down voody stems per 100 feet of stream.       10.00       1.00         V_subs       Number of sags per 100 feet of stream.       6.00       0.70         V_siked       Number of saglings and shrubs per 100 feet of stream.       Not Used       Not Used         V_stack       Riparian vegetation species richnees.       6.30       1.00  | Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_substrate       Median stream channel substrate particle size.       0.25       0.13         V_two       Number of stream channel bank.       70.00       0.70         V_two       Number of stream.       10.00       1.00         V_two       Number of stream.       6.00       0.70         V_staG       Number of stream.       Not Used       Not Used         V_staG       Number of stream.       Not Used       Not Used         V_staG       Ruparings and shrubs per 100 feet of stream.       Not Used       Not Used         V_staG       Ruparing starting species richnees.       6.30       1.00   | Habitat       0.73         Variable Measure and Subindex Summary:         Variable       Name       Average<br>Measure       Subindex         V_ccANOPY       Percent canpoy over channel.       85.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         Vsubstrate       Median stream channel subtrate particle size.       0.25       0.13         V LWO       Number of down woody stems per
100 feet of stream.       10.00       1.00         V TOBH       Average dbh of trees.       14.97       1.00         V subs       Number of snags per 100 feet of stream.       Not Used       Not Used         V sixo.       Number of snags per 100 feet of stream.       Not Used       Not Used         V sixo.       Riparian vegetation species richness.       6.30       1.00  | Habitat       0.73         Variable       Name       Average<br>Measure       Subindex         V_ccanopy       Percent canpoy over channel.       86.00       0.96         V_EMEED       Average embeddedness of channel.       2.00       0.46         V_sugstraate       Median stream channel substrate particle size.       0.25       0.13         V_two       Number of down woody stems per 100 feet of stream.       10.00       1.00         V_sus_NAG       Number of snags per 100 feet of stream.       6.00       0.70         V_sso       Number of snags ner 100 feet of stream.       Not Used       Not Used         V_sso       Number of snags ner 100 feet of stream.       Not Used       Not Used         V_string       Average percent cover of leaves, sticks, etc.       95.00       1.00  | Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure       Subindex         VscANOPY       Percent canpoy over channel.       85 00       0.96         Vsugstrate       Median stream channel substrate particle size.       0.25       0.13         Vsugstrate       Median stream channel bank.       70.00       0.70         Vtime       Average dbh of trees.       14.97       1.00         VsukaG       Number of saplings and shrubs per 100 feet of stream.       6.00       0.70         VsukaG       Number of saplings and shrubs per 100 feet of stream.       Not Used       Not Used         Vsuch       Riparian vegetation species richness.       6.30       1.00         Vsuch       Riparian vegetation species richness.       6.30       1.00   | Habitat       0.73         Variable Measure and Subindex Summary:       Subindex         Variable       Name       Average<br>Measure   
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   | VEXAGE/         Average embeddedness of channel.         2.00         0.46           VSUBSTRATE         Median stream channel substrate particle size.         0.25         0.13           VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWO         Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TDEH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of sags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of sags per 100 feet of stream.         Not Used         Not Used           V <sub>SSICH</sub> Riparian vegetation species richness.         6.30         1.00  | VENUE         Average embeddedness of channel.         2.00         0.46           VSUBSTRATE         Median stream channel substrate particle size.         0.25         0.13           VBERGO         Total percent of eroded stream channel bank.         70.00         0.70           VLWO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SIAG         Number of sags per 100 feet of stream.         6.00         0.70           V_SSICH         Riparian vegetation species richnees.         6.30         1.00   
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   | VENNED       Average embeddedness of channel.       2.00       0.46         VSUBSTRATE       Median stream channel substrate particle size.       0.25       0.13         VBERO       Total percent of eroded stream channel bank.       70.00       0.70         VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VSHAG       Number of sings per 100 feet of stream.       6.00       0.70         VSNAG       Number of sings per 100 feet of stream.       6.00       0.70         Vsso       Number of sings per 100 feet of stream.       6.00       0.70         Vsso       Number of sings per 100 feet of stream.       6.00       0.70         Vsso       Number of sings per 100 feet of stream.       Not Used       Not Used         Vssich       Riparian vegetaition species inchness.       6.30       1.00         Voerstrus       Average percent cover of leaves, sticks, etc.       95.00       1.00   | VEMEED       Average embeddedness of channel.       2.00       0.46         VsuBSTRATE       Median stream channel substrate particle size.       0.25       0.13         VBERO       Total percent of eroded stream channel bank.       70.00       0.70         VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTDBH       Average dbh of trees.       14.97       1.00         VsiAG       Number of snags per 100 feet of stream.       6.00       0.70         Vss0       Number of snags per 100 feet of stream.       6.00       0.70         Vss0       Number of snags per 100 feet of stream.       Not Used         Vss0       Number of sagings and shrubs per 100 feet of stream.       Not Used         Vstich       Riparian vegatation species richness.       6.30       1.00         VDETRITUS       Average percent cover of leaves, sticks, etc.       95.00       1.00         VHERB       Average percent cover of herbaceous vegatation.       Not Used       Not Used   | VENUED       Average embeddedness of channel.       2.00       0.46         VSUBSTRATE       Median stream channel substrate particle size.       0.25       0.13         VEREO       Total percent of eroded stream channel bank.       70.00       0.70         VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTOBH       Average dbh of trees.       14.97       1.00         VSIAG       Number of snags per 100 feet of stream.       6.00       0.70         VSING       Number of snags per 100 feet of stream.       Not Used       Not Used         VSIGNITUS       Average percent cover of leaves, sticks, etc.       95.00       1.00         VDETRITUS       Average percent cover of herbaccous vegetation.       Not Used         VIEND       Average percent cover of herbaccous vegetation.       Not Used   |
| Control 1 2   |  |  |  |   |  | Vsuestrate         Median stream channel substrate particle size.         0.25         0.13           Vereo         Total percent of eroded stream channel bank.         70.00         0.70   | V <sub>SUBSTRATE</sub> Median stream channel substrate particle size.         0.25         0.13           V <sub>BERO</sub> Total percent of eroded stream channel bank.         70.00         0.70  | V <sub>SUBSTRATE</sub> Median stream channel substrate particle size. 0.25 0.13   
   | Vsubstrate Median stream channel substrate particle size. 0.25 0.13   | V_SUBSTRATE         Median stream channel substrate particle size.         0.25         0.13           V_BERO         Total percent of eroded stream channel bank.         70.00         0.70   | V_SUBSTRATE         Median stream channel substrate particle size.         0.25         0.13           V_BERO         Total percent of eroded stream channel bank.         70.00         0.70   | V <sub>SUBSTRATE</sub> Median stream channel substrate particle size.         0.25         0.13           V <sub>BERO</sub> Total percent of eroded stream channel bank.         70.00         0.70   
  | V <sub>supstrate</sub> Median stream channel substrate particle size.         0.25         0.13           V <sub>BERO</sub> Total percent of eroded stream channel bank.         70.00         0.70           V <sub>LWO</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00   | Vsuestrate         Median stream channel substrate particle size.         0.25         0.13           Vserio         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00  | V SUBSTRATE         Median stream channel substrate particle size.         0.25         0.13           V BERO         Total percent of eroded stream channel bank.         70.00         0.70           V LWD         Number of down woody stems per 100 feet of stream.         10.00         1.00   | Vsubstrate<br>Beroot         Median stream channel substrate particle size.         0.25         0.13           Vsubstrate<br>Beroot         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00   
   
   
   | Vsussmans         Median stream channel substrate particle size.         0.25         0.13           Vecency         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VropeH         Average dbh of trees.         14.97         1.00  | V         Wedian stream channel substrate particle size.         0.25         0.13           V         ERO         Total percent of eroded stream channel bank.         70.00         0.70           V         Number of down woody stems per 100 feet of stream.         10.00         1.00           V         Average dbh of trees.         14.97         1.00           V         Staas         Number of snags per 100 feet of stream.         6.00         0.70  
   | Vsubstrate         Median stream channel substrate particle size.         0.25         0.13           Vgero         Total percent of eroded stream channel bank.         70.00         0.70           VLwo         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VsuaG         Number of snags per 100 feet of stream.         6.00         0.70   | Vsuestrate<br>Stepso         Median stream channel substrate particle size.         0.25         0.13           Vsuestrate<br>Vsuco         Total percent of eroded stream channel bank.         70.00         0.70           Vsuco         Number of down woody stems per 100 feet of stream.         10.00         1.00           VroeH         Average dbh of trees.         14.97         1.00           VsiAG         Number of snags per 100 feet of stream.         6.00         0.70   | Vsuestrate<br>Bero         Median stream channel substrate particle size.         0.25         0.13           VBERO         Total percent of eroded stream channel bank.         70.00         0.70           Viumo         Number of down woody stems per 100 feet of stream.         10.00         1.00           Viden         Average dbh of trees.         14.97         1.00           Vsinag         Number of snagis per 100 feet of stream.         6.00         0.70           Vsinag         Number of snagis neg ro 100 feet of stream.         Not Used         Not Used   | V         Wedian stream channel substrate particle size.         0.25         0.13           V         BERO         Total percent of eroded stream channel bank.         70.00         0.70           V         Womber of down woody stems per 100 feet of stream.         10.00         1.00           V         Average dbh of trees.         14.97         1.00           V         Standon         Number of snags per 100 feet of stream.         6.00         0.70           V         Standon         Number of snags per 100 feet of stream.         Not Used         Not Used   | V       Wedian stream channel substrate particle size.       0.25       0.13         V       BERO       Total percent of eroded stream channel bank.       70.00       0.70         V_LVD       Number of down woody stems per 100 feet of stream.       10.00       1.00         V       Description       14.97       1.00         V       Stander       0.00 feet of stream.       6.00       0.70         V       Ssp       Number of saplings and shrubs per 100 feet of stream.       Not Used       Not Used   
   
  | V         Wedian stream channel substrate particle size.         0.25         0.13           V         Wedian stream channel substrate particle size.         0.25         0.13           V         ERRO         Total percent of eroded stream channel bank.         70.00         0.70           V         Number of down woody stems per 100 feet of stream.         10.00         1.00           V         Open         Average dbh of trees.         14.97         1.00           V         Sing         Number of sagas per 100 feet of stream.         6.00         0.70           V         Sing         Number of saglings and shrubs per 100 feet of stream.         Not Used         Not Used           V         Sinch         Riparian vegetation species richness.         6.30         1.00   
  | Vsussmarte       Median stream channel substrate particle size.       0.25       0.13         Vaero       Total percent of eroded stream channel bank.       70.00       0.70         V_IND       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTDBH       Average dbh of trees.       14.97       1.00         VsiAAG       Number of sings per 100 feet of stream.       6.00       0.70         VsiAAG       Number of sags per 100 feet of stream.       Not Used       Not Used         VsiRicH       Riparian vegetation species richness.       6.30       1.00  
   
  | V     Weilian stream channel substrate particle size.     0.25     0.13       V     With the stream channel substrate particle size.     0.25     0.13       V     Total percent of eroded stream channel bank.     70.00     0.70       V     Womer of down woody stems per 100 feet of stream.     10.00     1.00       V     Number of down woody stems per 100 feet of stream.     10.00     1.00       V     Sign Number of snaps per 100 feet of stream.     6.00     0.70       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used       V     Sign Number of saplings and shrubs per 100 feet of stream.     Not Used   
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   | VsuBstrate       Median stream channel substrate particle size.       0.25       0.13         VBERO       Total percent of eroded stream channel bank.       70.00       0.70         VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VDBH       Average dbh of trees.       14.97       1.00         VSING       Number of sapings and shrubs per 100 feet of stream.       6.00       0.70         Vsso       Number of sapings and shrubs per 100 feet of stream.       Not Used       Not Used         Vssich       Riparian vegetation species richness.       6.30       1.00  | VsuBstrate         Median stream channel substrate particle size.         0.25         0.13           VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDEH         Average dbh of trees.         14.97         1.00           VsiAG         Number of snags per 100 feet of stream.         6.00         0.70           VsiAG         Number of snags nep 100 feet of stream.         6.00         0.70           VsiAG         Number of snags nep 100 feet of stream.         6.00         0.70           VsiAG         Number of snagings and shrubs per 100 feet of stream.         Not Used           VsiRCH         Riparian vegetation species richness.         6.30         1.00           VDETRIVIS         Average percent cover of leaves, sticks, etc.         95.00         1.00   | Vsuesmane         Median stream channel substrate particle size.         0.25         0.13           Vecence         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           Vrigen         Average dbh of trees.         14.97         1.00           VsiAnG         Number of snags per 100 feet of stream.         6.00         0.70           VsiAnG         Number of snags per 100 feet of stream.         Kot Used         Not Used           Vsinch         Riparian vegetation species richness.         6.30         1.00           Vsinch         Riparian vegetation species, sticks, etc.         95 00         1.00   
   | Vsussmarte         Median stream channel substrate particle size.         0.25         0.13           Vsussmarte         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VrpeH         Average dbh of trees.         14.97         1.00           VssAG         Number of saplings and shrubs per 100 feet of stream.         6.00         0.70           VssAG         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Vssich         Riparian vegetation species richness.         6.30         1.00           Vortrarus         Average percent cover of leaves, stick, etc.         95 00         1.00  | VsuBstrate       Median stream channel substrate particle size.       0.25       0.13         VsuBstrate       Median stream channel bank.       70.00       0.70         VLWO       Number of down woody stems per 100 feet of stream.       10.00       1.00         VtDBH       Average dbh of trees.       14.97       1.00         VstAG       Number of saplings and shrubs per 100 feet of stream.       Not Used         VstAG       Number of saplings and shrubs per 100 feet of stream.       Not Used         VstRH       Riparian vegetation species richness.       6.30       1.00         Vbettrate       Average percent cover of leaves, sticks, etc.       95.00       1.00         VHERB       Average percent cover of herbaceous vegetation.       Not Used       Not Used  | VsuesTRATE       Median stream channel substrate particle size.       0.25       0.13         VsuesTRATE       Median stream channel substrate particle size.       0.25       0.13         VsuesTRATE       Total percent of eroded stream channel bank.       70.00       0.70         Vtwo       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTOBH       Average doh of trees.       14.97       1.00         Vstwo       Number of snags per 100 feet of stream.       6.00       0.70         Vstwo       Number of snags per 100 feet of stream.       Not Used         Vstwo       Riparian vegetation species richness.       6.30       1.00         Vstrinus       Average percent cover of leaves, stick, etc.       95.00       1.00         Vstream       Average percent cover of herbaccous vegetation.       Not Used         Vstream       Average percent cover of herbaccous vegetation.       Not Used         Vstream       Average percent cover of herbaccous vegetation.       Not Used  |
|   |  |  |  |   |  | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70   | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70  |   
   |   | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70   | VBERO Total percent of eroded stream channel bank. 70.00 0.70   | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70   
  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           V_TDBH         Average dbh of trees.         14.97         1.00   
   
   
   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00  | VEERO         Total percent of eroded stream channel bank.         70.00         0.70           VLVD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           Vstage         Number of snags per 100 feet of stream.         6.00         0.70   
   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           VsiAG         Number of snags per 100 feet of stream.         6.00         0.70   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           VSING         Number of snags per 100 feet of stream.         6.00         0.70  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           Vigeno         Number of down woody stems per 100 feet of stream.         10.00         1.00           Vigeno         Average dbh of trees.         14.97         1.00           Vanado         Number of snagis per 100 feet of stream.         6.00         0.70           Vsinado         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | V         Total percent of eroded stream channel bank.         70.00         0.70           V         Number of down woody stems per 100 feet of stream.         10.00         1.00           V         Normal         Average dbh of trees.         14.97         1.00           V         StatG         Number of snaps per 100 feet of stream.         6.00         0.70           V         StatG         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of sappings per 100 feet of stream.         6.00         0.70           VsiAG         Number of sappings and shrubs per 100 feet of stream.         Not Used         Not Used  
   
  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VBERO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VSING         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snags per 100 feet of stream.         Not Used         Not Used           Vssich         Riparian vegetation species richness.         6.30         1.00   
  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of sagings and shrubs per 100 feet of stream.         6.00         0.70           Vsso         Number of sagings and shrubs per 100 feet of stream.         Not Used         Not Used           VssncH         Riparian vegetation species richness.         6.30         1.00  
   
  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of snags per 100 feet of stream.         6.00         0.70           Vssp.         Number of saplings and shrubs per 100 feet of stream.         Not Used           VsRCH         Riparian vegetation species richness.         6.30         1.00   
   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of saplings and shrubs per 100 feet of stream.         Not Used           VsRCH         Riparian vegetation species richness.         6.30         1.00   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VSNAG         Number of snags per 100 feet of stream.         6.00         0.70           VSSO         Number of saplings and shrubs per 100 feet of stream.         Not Used           VSRCH         Riparian vegetation species richness.         6.30         1.00   
   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VBERO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snags per 100 feet of stream.         Not Used         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VDBH         Average dbh of trees.         14.97         1.00           VsiAG         Number of snags per 100 feet of stream.         6.00         0.70           VsiRAG         Number of sags per 100 feet of stream.         Not Used         Not Used           VsiRCH         Riparian vegetation species richness.         6.30         1.00           VDETRITUS         Average percent cover of leaves, sticks, etc.         95.00         1.00   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SNAG         Number of snags per 100 feet of stream.         Not Used         Not Used           V_SRCH         Ripriar vegetation species richness.         6.30         1.00           V_DETRITUS         Average percent cover of leaves, sticks, etc.         95 00         1.00  
   | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SNAG         Number of snags per 100 feet of stream.         Not Used         Not Used           V_SNCH         Riparia vegetation species richness.         6.30         1.00           V_DERTRUS         Average percent cover of leaves, stick, etc.         95 00         1.00  | VBERO         Total percent of eroded stream channel bank.         70.00         0.70           VLWO         Number of down woody stems per 100 feet of stream.         10.00         1.00           VDBH         Average dbh of trees.         14.97         1.00           VSING         Number of snags per 100 feet of stream.         6.00         0.70           VSING         Number of snags per 100 feet of stream.         6.00         0.70           Vsing         Number of snags and shrubs per 100 feet of stream.         Not Used           Vsing         Average percent cover of leaves, sticks, etc.         95.00         1.00           VDETRITUS         Average percent cover of herbaceous vegetation.         Not Used         Not Used           VHERB         Average percent cover of herbaceous vegetation.         Not Used         Not Used   | VBERO       Total percent of eroded stream channel bank.       70.00       0.70         Visition       Number of down woody stems per 100 feet of stream.       10.00       1.00         VirDBH       Average dbh of trees.       14.97       1.00         Visition       Number of snags per 100 feet of stream.       6.00       0.70         Visition       Number of saplings and shrubs per 100 feet of stream.       Not Used         Visition       Riparian vegetation species richness.       6.30       1.00         Visition       Average percent cover of leaves, stick, etc.       95.00       1.00         Visition       Average percent cover of herbaccous vegetation.       Not Used       Not Used   |
|   |  |  | 0.13   | 3   | 0.13   |   |  | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70   
   | V <sub>BERO</sub> Total percent of eroded stream channel bank. 70.00 0.70   |   |   |   
  | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream. 10.00 1.00   | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream. 10.00 1.00   | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream. 10.00 1.00  | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00  
   
   
   | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00  | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70  
   | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70  | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_NAG         Number of snags per 100 feet of stream.         6.00         0.70  | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           VsHAG         Number of snags per 100 feet of stream.         6.00         0.70           VsHAG         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>LVD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TOBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>LVD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snags and shrubs per 100 feet of stream.         Not Used         Not Used   
   
  | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>TOBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of sangs per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00   
  | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_BNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SNO         Number of sapings and shrubs per 100 feet of stream.         Not Used         Not Used           V_SNCH         Riparian vegetation species richness.         6.30         1.00   
   
  | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>DBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SHAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   
   | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           V <sub>DBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SHAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           V_SMAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V sRICH         Riparian vegetation species richness.         6.30         1.00   
   | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTOBH         Average dbh of trees.         14.97         1.00           V_SIAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsruch         Riparian vegetation species richness.         6.30         1.00  | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SIAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SSD         Number of snags per 100 feet of stream.         Not Used         Not Used           V_SRICH         Riparian vegetation species richness.         6.30         1.00           V_DETRITUS         Average percent cover of leaves, sticks, etc.         95.00         1.00   | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V_SNAC         Number of snags per 100 feet of stream.         6.00         0.70           VssD         Number of snags sper 100 feet of stream.         Not Used         Not Used           VsrCH         Ripriar vegetation species richness.         6.30         1.00           VDETRUIS         Average percent cover of leaves, sticks, etc.         95.00         1.00  
   | VLWD         Number of down woody stems per 100 feet of stream.         10.00         1.00           VTDBH         Average dbh of trees.         14.97         1.00           V SNAC         Number of snags per 100 feet of stream.         6.00         0.70           V SSO         Number of snags per 100 feet of stream.         Not Used         Not Used           V SRCH         Riparian vegetation species richness.         6.30         1.00           V DETRUTS         Average percent cover of leaves, sticks, etc.         95 00         1.00   | VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTDBH       Average dbh of trees.       14.97       1.00         VsiNG       Number of snags per 100 feet of stream.       6.00       0.70         Vsso       Number of snags and shrubs per 100 feet of stream.       Not Used         Vsrich       Riparian vegetation species richness.       6.30       1.00         Voerrinus       Average percent cover of leaves, sticks, etc.       95.00       1.00         VHERB       Average percent cover of herbaceous vegetation.       Not Used       Not Used  | VLWD       Number of down woody stems per 100 feet of stream.       10.00       1.00         VTDBH       Average dbh of trees.       14.97       1.00         VstAG       Number of snags per 100 feet of stream.       6.00       0.70         VssD       Number of saplings and shrubs per 100 feet of stream.       Not Used         VsRUCH       Riparian vegetation species richness.       6.30       1.00         VDETRITUS       Average percent cover of leaves, sticks, etc.       95.00       1.00         VHERB       Average percent cover of herbaceous vegetation.       Not Used       Not Used  |
|   | innel bank. 70.00  |  |  |   |  | V. was Number of down woody stems per 100 feet of stream 10.00 1.00   |  |   
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   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70  
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  | VTDBH         Average dbh of trees.         14.97         1.00           VsiNAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsiso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           VsisoH         Riparian vegetation species richness.         6.30         1.00   
  | VTDBH         Average dbh of trees.         14.97         1.00           Vstand         Number of snags per 100 feet of stream.         6.00         0.70           Vssp         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vssc         Riparian vegetation species richness.         6.30         1.00  
   
  | VTDBH         Average dbh of trees.         14.97         1.00           VstAG         Number of snags. per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00  
   | VTDBH         Average dbh of trees.         14.97         1.00           VstAG         Number of snags. per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00   | VTDBH         Average dbh of trees.         14.97         1.00           VsHAG         Number of snags. per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsnich         Riparian vegetation species richness.         6.30         1.00   
   | VTDBH         Average dbh of trees.         14.97         1.00           VsiNAG         Number of snags per 100 feet of stream.         6.00         0.70           VsiSD         Number of snaghings and shrubs per 100 feet of stream.         Not Used         Not Used           VsixcH         Riparian vegetation species richness.         6.30         1.00   | VTDBH         Average dbh of trees.         14.97         1.00           VSIAG         Number of snags. per 100 feet of stream.         6.00         0.70           VsiAG         Number of snags. per 100 feet of stream.         Not Used           VsiAG         Riprain vegetation species richness.         6.30         1.00           VDETRINUS         Average percent cover of leaves, sticks, etc.         95.00         1.00  | Vтовн         Average dbh of trees.         14.97         1.00           V знас         Number of snags per 100 feet of stream.         6.00         0.70           V sso         Number of snaglings and shrubs per 100 feet of stream.         Not Used           V sso         Number of snaglings and shrubs per 100 feet of stream.         Not Used           V snch         Riparian vegetation species richness.         6.30         1.00           V brittrus         Average percent cover of leaves, sticks, etc.         95.00         1.00   
   | VTDBH         Average dbh of trees.         14.97         1.00           VstraG         Number of snags per 100 feet of stream.         6.00         0.70           VstraG         Number of sapplings and shrubs per 100 feet of stream.         Not Used           VstraG         Riparian vegetation species richness.         6.30         1.00           VstraCH         Riparian vegetation species richness.         6.30         1.00           Voertrutus         Average percent cover of leaves, sticks, etc.         95 00         1.00  | VTDBH     Average dbh of trees.     14.97     1.00       V_SNAG     Number of snags. per 100 feet of stream.     6.00     0.70       V ss0     Number of saplings and shrubs per 100 feet of stream.     Not Used       V sRLCH     Riparian vegetation species richness.     6.30     1.00       V DETRITUS     Average percent cover of herbaceous vegetation.     Not Used     Not Used       VHERB     Average percent cover of herbaceous vegetation.     Not Used     Not Used  | VTDBH     Average dbh of trees.     14.97     1.00       VSHAG     Number of snags per 100 feet of stream.     6.00     0.70       Vsso     Number of saglings and shrubs per 100 feet of stream.     Not Used       Vsrich     Riparian vegetation species richness.     6.30     1.00       Voerrigues     Average percent cover of leaves, sticks, etc.     95.00     1.00       Vnerke     Average percent cover of herbaceous vegetation.     Not Used  |
|   |  |  | 0.70   | 70  |  |   | VLWD Number of down woody stems per 100 feet of stream. 10.00 1.00   | V   
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   |  | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | V <sub>SNAG</sub> Number of snags         per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  
   
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
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  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
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   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRIVIS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snajings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DERTRUS</sub> Average percent cover of leaves, sticks, etc.         95 00         1.00   
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snaglings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRUIS</sub> Average percent cover of leaves, sticks, etc.         95 00         1.00  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SD</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRUCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00           V <sub>HERB</sub> Average percent cover of herbacous vegetation.         Not Used         Not Used  | VsNAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsruch         Riparian vegetation species richness.         6.30         1.00           Voerrarrus         Average percent cover of herbaceous vegetation.         Not Used         Not Used           Vierse         Average percent cover of herbaceous vegetation.         Not Used         Not Used  |
|   |  | . 10.00 1.00   | 0.70<br>1.00   | 70<br>10  | 1.00   |   |  |   
   |   |   |   | Vmpu Average dbh of trees. 14.97 1.00   
  | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00   |  |   |  
   
   
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  |  
   |   |  | V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream. Not Used Not Used  | V <sub>ss0</sub> Number of saplings and shrubs per 100 feet of stream. Not Used Not Used   | V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream. Not Used Not Used  
   
  | With Stress         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00  
  | With Solution         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vsro         Riparian vegetation species richness.         6.30         1.00  
   
  | With Same         Number of saplings and shrubs per 100 feet of stream.         Not Used           V <sub>SRUCH</sub> Riparian vegetation species richness.         6.30         1.00  
   | With Same         Number of saplings and shrubs per 100 feet of stream.         Not Used           V <sub>SRUCH</sub> Riparian vegetation species richness.         6.30         1.00   | With Stress         Number of saplings and shrubs per 100 feet of stream.         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   
   | When         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00  | Works         Number of saplings and shrubs per 100 feet of stream.         Not Used           V <sub>SSD</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00   | With Weights         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00           Vpetrarrus         Average percent cover of leaves, sticks, etc.         95.00         1.00   
   | Winds         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vsso         Riparian vegetation species richness.         6.30         1.00           Vperminus         Average percent cover of leaves, sticks, etc.         95.00         1.00   | Winter     Number of saplings and shrubs per 100 feet of stream.     Not Used       Vsso     Riparian vegetation species richness.     6.30     1.00       VDETRITUS     Average percent cover of leaves, sticks, etc.     95.00     1.00       VHERB     Average percent cover of herbaceous vegetation.     Not Used     Not Used   | Visio         Number of saplings and shrubs per 100 feet of stream.         Not Used           Visio         Riparian vegetation species richness.         6.30         1.00           Visitinus         Average percent cover of leaves, stick, etc.         95.00         1.00           Vierner         Average percent cover of herbaccous vegetation.         Not Used         Not Used   |
|   | 14.97  | . 10.00 1.00<br>14.97 1.00   | 0.70<br>1.00<br>1.00   | ro<br>00  | 1.00<br>1.00   |   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00  
   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00  | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00  |   |   
  |  |  | Views Number of spage per 100 feet of stream 6.00 0.70  | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  
   
   
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   | Veco INumber of saplings and shrubs per 100 feet of stream Not Used I Not Used I  | V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream. Not Used Not Used   |   |  |   
   
  | V <sub>SRICH</sub> Riparian vegetation species richness. 6.30 1.00   
  | V <sub>sRICH</sub> Riparian vegetation species richness. 6.30 1.00   
   
  | V <sub>SRICH</sub> Riparian vegetation species richness. 6.30 1.00   
   | V <sub>SRICH</sub> Riparian vegetation species richness. 6.30 1.00  | V <sub>SRICH</sub> Riparian vegetation species richness. 6.30 1.00  
   | V <sub>SRICH</sub> Riparian vegetation species richness. 6.30 1.00  | V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  | V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  
   | V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  | V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00           V <sub>HERB</sub> Average percent cover of herbaceous vegetation.         Not Used         Not Used   | V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRTUS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00           V <sub>HERB</sub> Average percent cover of herbaceous vegetation.         Not Used         Not Used   |
| V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | 14.97<br>tream. 6.00   | . 10.00 1.00<br>14.97 1.00<br>6.00 0.70  | 0.70<br>1.00<br>1.00<br>0.70   | 70<br>10<br>10<br>70                                  | 1.00<br>1.00<br>0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70  | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70  
   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  |  |   |  
   
   
   | V Number of capilings and shrubs nor 100 feat of stream Not Lload II   |  
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   | ip per 100 feet of stream.         10.00         1.00           14.97         1.00         1.00           t of stream.         6.00         0.70           s per 100 feet of stream.         Not Used           chness.         6.30         1.00   | ip per 100 feet of stream.         10.00         1.00           14.97         1.00         1.00           t of stream.         6.00         0.70           s per 100 feet of stream.         Not Used           chness.         6.30         1.00   
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   | is per 100 feet of stream.         10.00         1.00           14.97         1.00         1.00           t of stream.         6.00         0.70           s per 100 feet of stream.         Not Used           hortses.         6.30         1.00           se, sticks, etc.         95.00         1.00   | is per 100 feet of stream.         10.00         1.00           14.97         1.00         1.00           t of stream.         6.00         0.70           s per 100 feet of stream.         Not Used         Not Used           chness.         6.30         1.00           s, sticks, etc.         95.00         1.00           aceous vegetation.         Not Used         Not Used  | is per 100 feet of stream.         10.00         1.00           14.97         1.00         1.00           t of stream.         6.00         0.70           s per 100 feet of stream.         Not Used         Not Used           chness.         6.30         1.00           s, sticks, etc.         95.00         1.00           aceous vegetation.         Not Used         Not Used   |
| Total percent of eroded stream channel bank. 70.00 0.70   | nnel bank. 70.00   |  |  |   |  | Number of down woody stems, per 100 feet of stream 10,00 1,00   |  |   
   |   |   | Number of down woody stems, per 100 feet of stream 10.00 1.00   | Number of down woody stems per 100 feet of stream. 10.00 1.00   
  |  |  |   | Average dbh of trees. 14.97 1.00   
   
   
   | Average dbh of trees. 14.97 1.00   | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70   
   | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70  | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70   | Average dbh of trees.     14.97     1.00       Number of snags per 100 feet of stream.     6.00     0.70       Number of saplings and shrubs per 100 feet of stream.     Not Used     Not Used  | Average dbh of trees.     14.97     1.00       Number of snags per 100 feet of stream.     6.00     0.70       Number of saplings and shrubs per 100 feet of stream.     Not Used     Not Used   | Average dbh of trees.     14.97     1.00       Number of snags per 100 feet of stream.     6.00     0.70       Number of saplings and shrubs per 100 feet of stream.     Not Used     Not Used  
   
  | Average dbh of trees.         14.97         1.00           Number of snags per 100 feot of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00   
  | Average dbh of trees.         14.97         1.00           Number of snags per 100 feot of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00   
   
  | Average dbh of trees.         14.97         1.00           Number of snags per 100 fed of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00  
   | Average dbh of trees.         14.97         1.00           Number of snags per 100 fed of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00   | Average dbh of trees.         14.97         1.00           Number of snags per 100 fed of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00   
   | Average dbh of trees.         14.97         1.00           Number of snags per 100 fed of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           Riparian vegetation species richness.         6.30         1.00   | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used           Riparian vegetation species richness.         6.30         1.00           nus         Average percent cover of leaves, sticks, etc.         95.00         1.00   | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used           Riparian vegetation species richness.         6.30         1.00           nus         Average percent cover of leaves, sticks, etc.         95.00         1.00   
   | Average dbh of trees.         14.97         1.00           Number of snags per 100 feet of stream.         6.00         0.70           Number of saplings and shrubs per 100 feet of stream.         Not Used           Riparian vegetation species richness.         6.30         1.00           nus         Average percent cover of leaves, sticks, etc.         95.00         1.00   | Average dbh of trees.     14.97     1.00       Number of snags per 100 feet of stream.     6.00     0.70       Number of saplings and shrubs per 100 feet of stream.     Not Used       Riparian vegetation species richness.     6.30     1.00       Nus     Average percent cover of leaves, sticks, etc.     95.00     1.00       Average percent cover of herbaceous vegetation.     Not Used     Not Used  | Average dbh of trees.     14.97     1.00       Number of snags per 100 feet of stream.     6.00     0.70       Number of saplings and shrubs per 100 feet of stream.     Not Used       Riparian vegetation species richness.     6.30     1.00       Nus     Average percent cover of leaves, sticks, etc.     95.00     1.00       Average percent cover of herbaceous vegetation.     Not Used     Not Used   |
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   | VTDBH Average dbh of trees. 14.97 1.00   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70  
   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70  | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SSD         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SSD         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | VTDBH         Average dbh of trees.         14.97         1.00           V_SNAG         Number of snags per 100 feet of stream.         6.00         0.70           V_SSD         Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   
   
  | VTDBH         Average dbh of trees.         14.97         1.00           VsmAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vssuch         Riparian vegetation species richness.         6.30         1.00  
  | VTDBH         Average dbh of trees.         14.97         1.00           VsmAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vssuch         Riparian vegetation species richness.         6.30         1.00  
   
  | VTDBH         Average dbh of trees.         14.97         1.00           VsmAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of saplings and shrubs per 100 feet of stream.         Not Used           Vssuch         Riparian vegetation species richness.         6.30         1.00  
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| V <sub>LWD</sub> Number of down woody stems per 100 feet of stream. 10.00 1.00  |  |  | 0.70   | 70  |  |   | VLWD Number of down woody stems per 100 feet of stream. 10.00 1.00   | V   
   | V. wo Number of down woody stems, per 100 feet of stream 10,00 1,00   | V <sub>LWD</sub> Number of down woody stems per 100 feet of stream. 10.00 1.00  |   |   
  |  |  |   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00   
   
   
   | V <sub>TDBH</sub> Average dbh of trees. 14.97 1.00   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70   
   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70  | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   
   
  | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00  
  | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snags per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00  
   
  | V <sub>TDEH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00  
   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00   
   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SIAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snags per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SING</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snaghings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRINS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SING</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snaghings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRINS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00   
   | V <sub>TDBH</sub> Average dbh of trees.         14.97         1.00           V <sub>SING</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snaghings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRINS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00   | V <sub>TDBH</sub> Average dbh of trees.     14.97     1.00       V <sub>SIAG</sub> Number of snags. per 100 feet of stream.     6.00     0.70       V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.     Not Used       V <sub>SRCH</sub> Riparian vegetation species richness.     6.00     1.00       V <sub>DETRING</sub> Average percent cover of leaves, sticks, etc.     95.00     1.00       V <sub>HERB</sub> Average percent cover of herbaceous vegetation.     Not Used     Not Used   | VTDBH     Average dbh of trees.     14.97     1.00       VSING     Number of snags per 100 feet of stream.     6.00     0.70       VSso     Number of saplings and shrubs per 100 feet of stream.     Not Used       VSRICH     Riparian vegetation species richness.     6.30     1.00       VDETRITUS     Average percent cover of leaves, sticks, etc.     95.00     1.00       VHERB     Average percent cover of herbaceous vegetation.     Not Used  | | | | | |
|   | 100 feat of stream 40.00   |  | 0.70   | 70  |  |   | VLWD Inventorie or down woody stems per 100 teet of stream. 10.00 1.00   |   
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   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | V <sub>SNAG</sub> Number of snags         per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  
   
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
   
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRIVIS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snajings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DERTRUS</sub> Average percent cover of leaves, sticks, etc.         95 00         1.00   
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|   | 100 feet of stream 10 00   |  | 0.70   | 70  |  |   |  |   
   |   |   |   |   
  | V Average dbh of trees   |  | YTDBH [Average duil of uees. 14.37 1.00   |  
   
   
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   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70   | V <sub>SNAG</sub> Number of snags per 100 feet of stream. 6.00 0.70  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  | V <sub>SNAG</sub> Number of snags         per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used  
   
  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
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  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00  
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSD</sub> Number of saplings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRICH</sub> Riparian vegetation species richness.         6.30         1.00   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRIVIS</sub> Average percent cover of leaves, sticks, etc.         95.00         1.00  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snajings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DERTRUS</sub> Average percent cover of leaves, sticks, etc.         95 00         1.00   
   | V <sub>SNAG</sub> Number of snags per 100 feet of stream.         6.00         0.70           V <sub>SSO</sub> Number of snaglings and shrubs per 100 feet of stream.         Not Used         Not Used           V <sub>SRCH</sub> Riparian vegetation species richness.         6.30         1.00           V <sub>DETRUIS</sub> Average percent cover of leaves, sticks, etc.         95 00         1.00  | V <sub>SNAG</sub> Number of snags per 100 feet of stream.     6.00     0.70       V <sub>SD</sub> Number of sapplings and shrubs per 100 feet of stream.     Not Used       V <sub>SRCH</sub> Riparian vegetation species richness.     6.30     1.00       V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, etc.     95.00     1.00       V <sub>HERB</sub> Average percent cover of herbaceous vegetation.     Not Used   | VsNAG         Number of snags per 100 feet of stream.         6.00         0.70           Vsso         Number of snagings and shrubs per 100 feet of stream.         Not Used         Not Used           Vsruch         Riparian vegetation species richness.         6.30         1.00           Voerrarrus         Average percent cover of herbaceous vegetation.         Not Used         Not Used           Vierse         Average percent cover of herbaceous vegetation.         Not Used         Not Used  |

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8		Top Strata:	Tree	e/Sapling St	rata	(determine	d from perce	ent calculat	ed in V <sub>CCANO</sub>	DPY)			Variable Sub-									
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20	i		_	5 to 25 perc							icity)	-										
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25		2	2	2	2	2	2					1										
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30			along the s	tream; use ti	he same po	ints and par	ticles as us	ed in V <sub>EMBE</sub>	D-			0.20										
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31			2.00	0.0 in, sand 0.08								•										
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34		0.40	0.05	1.00	0.25	0.08	0.08					-										
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nple Variables 10-11 within at least 8 subplots (40" x 40", or 1m x 1m) in the riparian/bu		nin 25 feet	from each															Ī
Ik. The four subplots should be placed roughly equidistantly along each side of the stread 0 V <sub>DETRITUS</sub> Average percent cover of leaves, sticks, or other organic material. Woody of	ebris <4" diam	neter and	95.00 %	1.00														
<36" long are include. Enter the percent cover of the detrital layer at each s Left Side Right Side	ibplot.	1	95.00 %	1.00														
Left Side Right Side 95 90 100 95 95 90 100	95	1																
95         90         100         95         95         90         100           11         V <sub>HFRB</sub> Average percentage cover of herbaceous vegetation (measure only if tree of the section of th	95	Do.not																
include woody stems at least 4" dbh and 36" tall. Because there may be se	veral layers of	f ground	Not Used	Not														
cover vegetation percentages up through 200% are accepted. Enter the pe vegetation at each subplot.	cent cover of	ground		Used														
Left Side Right Side																		
mple Variable 12 within the entire catchment of the stream.																		
12 V <sub>WLUSE</sub> Weighted Average of Runoff Score for watershed:			0.93	0.98														
		% in	Running										I					
Land Use (Choose From Drop List)	Runoff Score	Catch-	Percent															
Forest and native range (>75% ground cover)	▼ 1	ment 90	(not >100) 90															
	• 0.3	10	100															
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Summary Notes:																		
Variable Value VSI																		
VCCANOPY 85 % 0.96																		
V <sub>EMBED</sub> 2.0 0.46																		
V <sub>SUBSTRATE</sub> 0.25 in 0.13																		
V <sub>BERO</sub> 70 % 0.70																		
V <sub>LWD</sub> 10.0 1.00																		
V <sub>TDBH</sub> 15.0 1.00																		
V <sub>SNAG</sub> 6.0 0.70																		
V <sub>SSD</sub> Not Used Not Used																		
V <sub>SRICH</sub> 6.30 1.00																		
V <sub>DETRITUS</sub> 95.0 % 1.00																		
V <sub>HERB</sub> Not Used Not Used																		
V <sub>WLUSE</sub> 0.93 0.98																		
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## A Breakdown of SWVM Baseline Components

- HGM
- Physical
   USEPA RBPs
- Chemical
  - ► Conductivity, pH and DO
- Biological
  - ► WVSCI

Each of the four Sections have been Scaled from: 0 (poor) to 1.0 (best)



## A Breakdown of SWVM Baseline Components (cont'd)

<20

Agency/IRT
 consensus on scales
 and weighting
 approach

Score	Range	Default	Score	Individual		erall
		Values		Percentages	Perc	entage
HGM (Operational Draft Regio	onal Guidel	book Jul	/ 2010)			-
Hydrology	0-1.0				1111	50%
Biogeochemical Cycling	0-1.0	NA	Avg of FCI Scores		· · · · · ·	50%
Habitat	0-1.0	[	scores			
Physical Indicator						
1. Epifaunal Substrate/Available Cover	0-20					
2. Pool Substrate Characterization	0-20	ł				
3. Pool Variability	0-20	ł				
4. Sediment Deposition	0-20	ł				
5. Channel Flow Status	0-20	ł			33%	
6. Channel Alteration	0-20	NA	0-200			
7. Channel Sinuosity	0-20	ł				
8. Bank Stability (LB & RB)	0-20	ł				
9. Vegetative Protection (LB & RB)	0-20	ł				
10. Riparian Vegetative Zone Width (LB and RB)	0-20	ł				
10. Ripanan vegetative zone width (LD and RD)	0-20					
Chemical Indicator						
DO						
>5	30	Default	30	15%		
0-5	10					
Specific Conductivity	1					
Specific Conductivity 0-99	90					
100-199		Default	85	45%		50%
200-299	80	Delault	00	43%		
300-399	70					
400-499	60					
	50					
500-599	50 40					
600-749	40				33%	
750-999						
1000-1499 1500-2500	20					
1900-2900	10			L		
рН						
0-3.5	0					
3.6-4.5	5					
4.6-5.5	10					
5.6-5.9	45	Default	45	40%		
6.0-8.0	80					
8.1-9.0	45		<u> </u>			
9.1-11	10					
Biological Indicator						
100-86	1		1			
60.6-86	x/100		x/100		33%	

## Factors and Value Components

Temporal Loss

### Long-term Protection

### Extent of Restoration Work Incentive

### Extended Buffer Zone Width Incentive

Temporal Loss-Construction (period between impact and completion of mitigation)					
Year(s)	% Additional Mitigation (figure added to total debit)				
<u>&lt; 1</u>	0				
2	6				
3	9				
4	12				
5	15				
6	18				
7	21				
8	24				
9	27				
10	30				
11	33				
12	36				
13	39				
14	42				
15	45				
16	48				
17	51				
18	54				
19	57				
<u>&gt;</u> 20	60				

Long-term Protection						
Year(s)	% Additional Mitigation					
0-20	50% + 20 yr Monitoring					
21-30	40% + 15 yr Monitoring					
31-40	30% + 10 yr Monitoring					
41-50	20% + 5/10 yr Monitoring					
51-100	10% + 5/10 yr Monitoring					
Perpetual	0% + 5/10 yr Monitoring					

Temporal Loss-Maturity (period between mitigation completion and maturity)						
Year(s)	% Additional Mitigation (figure added to total debit)					
<5	0%					
5.1-10	10%					
10.1-15	20%					
15.1-19	30%					

Extent of Stream Restoration - Incentive (% multiplied by projected lift and added to total)					
Level I Restoration	100%				
Level II Restoration	75%				
Level III Restoration	<b>50%</b>				

Extended Stream Buffer Zone Width - Incentive						
(% multiplied by projected lift and added to total)						
Inner Buffer 0-100'	Preservation 10%					
(or 0-50'/bank)	Preservation and Supplemental 20%					
	Preservation and Revegetation 35%					
	Preservation 5%					
Outer Buffer 101-300'	Preservation and Supplemental 10%					
(or 51-150'/bank)	Preservation and Revegetation 17.5%					

(% multiplied	by projected lift and added to total)
Inner Buffer 0-100'	Preservation 5%
(or 0-50'/bank)	Preservation and Supplemental 10%
	Preservation and Revegetation 17.5%
	Preservation 2.5%
Outer Buffer 101-300'	Preservation and Supplemental 5%
(or 51-150'/bank)	Preservation and Revegetation 8.75%

Extended Wetland Buffer Zone Width - Incentive

## **Extent of Stream Restoration**

Restoration Incentive Levels	Applicable Stream Classification	Activity Types	Corresponding Priority Level	Incentive Amount
Level I	Moderate and Low- gradient (Perennial and Intermittent )	Full-extent Channel/ Habitat Restoration, Floodplain Restoration and Bank Stability	Priority 1 and Priority 2 (as deemed applicable based upon a case-by-case review)	100%
Level II	Moderate and Low- gradient (Perennial and Intermittent)	Significant Floodplain Re-establishment, Habitat Improvement & Bank Stability	Priority 2	75%
Level III	High, Moderate and Low-gradient (Perennial, Intermittent and Ephemeral)	Intensive Channel Restoration, Habitat Restoration & Bank Stability	Priority 3	50%

Caveat: A Watershed Approach (or a Watershed Plan) **based upon 12-digit HUC** shall be provided to qualify for the above incentives . Submittal criteria established in 2011 PN.



## Sole Preservation (v2.1)

- Stream Preservation
  - For special aquatic sites, waters exhibiting functional importance or waters under threats and pressure
  - Stream index score correlates to Ratio Incentive
    - 1.0-0.95= 10:1
    - 0.95-0.90= 12:1
    - 0.90-0.85= 14:1
    - 0.85-0.80= 16:1



