Advanced Stream Habitat Survey Data Sheet

(use a new data she	et for eacl	h reterence	site surve	yed)	Module 2	
Stream Name / Nearest Town	:			Date		
Organization Name:				Watershed	code	
Contact Name:				Phone:		
Crew Names:				Email:		
				Stream Sec	tion #	
				Length Surv		
STEP I BENCHMARK	LOCATION	ON				
GPS: (use 'degrees decimal') Latitude: Longitude:						
Survey Start time:	Survey End	l Time:	Duration	on:		
Location (distance from know	vn stream la	andmark, dire	ctions to ben	chmark)		
		(1-2.5 cm in 2-2.5 cm in 24 l	<i>′</i> —			
STEP 2 CROSS-SECTI	ONAL SU	JRVEY				
Location relative to benchmark Photos taken: (yes or no)						
Wetted channel width (m) Average wetted depth (m)						
Bankfull channel width (m) Average bankfull depth (m)						
Temperature: Air: Water: Turbidity:						
Take measurements eve	rv 0.5m in str	reams less than	5m wide every	/ Im in streams	s 5 to 15m	
Left Bank 0.10					Right Bank	
Wetted Depth (cm)					Wetted Depth	
Bankfull Depth (cm)					Bankfull Depth	
STEP 3 CALCULATE D Cross-sectional area of	ISCHAR	GE				
					. 2.	
Wetted stream (m ²) _	etted width	xaverage we		=	(m²)	
Average Time (sec)			•	_		
(+++						
trial trial 2 trial 3	triai 4	triai 5	total trials	Average	: I ime (sec)	
Average Velocity (m/sec)	<u>+</u>	:	=			
, , ,		 rage time (s	sec) Aver	age Velocit	 v (m/sec)	
Average Stream	· · · · · · · · · · · · · · · · · · ·	(.	,		, ()	
Discharge (m3 /sec)	x		x 0.8	B =		
		average vel				
area	(m²)	(m/sec)	facto	or (n	n³ /sec)	

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Juneth of summer			וטט	H	<u> </u>	UN	7 E I	, ı·	ILAS	UKI		.171	<u> </u>				
Length of surve (minimum 12 t	•		ankfu	ll wid	th)	Min	imum			m	Actu	al Lei	ngth c	of Surv	ey S	ite	m
Upstream su					,								0		-, -		
6x Bankfull Measurement					,		m		Actual Length of Survey Site								m
Upstream Location Description:			Lat:				Lng:										
habitat unit bottom of				of hab	itat		length				% sl	оре	Р	hoto t			
type		habitat	,	m)	unit (clinon	neter))	(yes/r	10)
(pool or riffle)	(hip chain) 0m Up		(hip	chain)		1-	(measuring tape)									
			um	Up				Jр									
		Up		Up													
			Up				ι	Jр									
		Up		Up			JР										
		Up		Up			Jр										
				Up			ι	Jр									
				Up			ι	Jр									
Left Bank	0.	10														Rigl	ht Bank
Wetted Depth																	
Bankfull Depth																	
Upstream Av	era	ge De	pth:			m	•			•			•			'	
Downstream	ı sı	urvey	bou	nda	ry												
6x Bankfull Mea	asur	ement					n	า	Ac	tual L	ength.	of S	urvey	Site			m
Downstream L	.oca	tion De	escrip	tion:	I	Lat:			Lng:								
					•												
habitat unit top of habitat		at	bottom of			length of habitat				% slope			Photo taken				
type	`	unit (m	,		habitat unit (m)			unit (m) (measuring tape)				(clinometer)			(yes/r	10)	
(pool or riffle) (hip chain) Om Dr		Dn	(hip chain) Dn				asurir	e)									
			OIII	Dn				Dn									
				Dn				Dn									
				Dn				Dn				+					
				Dn	Dn		<u> </u>										
				Dn				Dn									
				Dn				Dn									
Left Bank	_		1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	1	<u> </u>	<u> </u>	L	<u> </u>		<u> </u>	D:-	at Danis
Wetted Depth	0.	IU						-								Kigi	ht Bank
Bankfull Depth								-								1	
Downstream	Δv	erage	Dent	-h·			m	<u> </u>								1	
- C TT II Calli	, ,,	ت مود		·· '·			'''										

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I	eambed n	nateria	al at benc	hmark					Cour	nt	x4 = %		
_					,								
	6	П	16	21	,		ladybug size				%		
2	7	12	17	22	gravel (0.2-5 cm) - ladybug to tennis ball						%		
3	8	13	18	23	cobble (5·25cm) - tennis ball to basketball						%		
4	9	14	19	24	boulde	r (>25cm	II		%				
5	10	15	20	25	bedroo	: k - slab c	of rock				%		
	cent em				Total				25	,	100%		
cover of	-	nd cobl %	ble by fine	e sediment	Tasal				0/				
Littlacc		70			i otai d	сорые рі	us boulder				%		
5.3 Instr	tream Cover Left Bank					Right Ba	ank		Total #	Total #			
	ody Debris		ere Barik		right bank 101								
Rooted C													
	Total Instream Cover=												
Actual Su	rvey Lengt	h		Divided I	ny Bankfi	ıll \\/;d+b	1						
Actual 3U	i vey Lengt		n		y Dalikil	an vviulii	m	= (answer	1				
Divide Tot	tal Instream	Cover b	ov (answer)	above to find	Instream	Cover Rat	io						
	c ent Pool ool Habitat	Habit	tat – from m		pp 4 Divided by Actual Survey Length m =						% slope % Pool Habitat		
	Channel F	labitat	(Describe:	Flood Refug	e, Pond, S	Side Chan	nel, Size, and	f Seasonal ((Ephemeral)	or Ye	ear-round)		
Present													
F / DI	- C4-L:!!4-			C	1 -6 D-		Diales Deale		(C -: I T-		T l-		
	c Stability Ink Erosion			Count	Left Ba	Left Bank Right Bank Comments				/pe,	i opograpny		
Active ba	aching Cha				m m								
		nnol				m		m					
Slides Rea		nnel				m m		m m					
Slides Rea		nnel											
Slides Rea Bank Stab	pilization		No Voget	-ation	Loft Po	m m		m m	Donk				
Slides Rea Bank Stab	pilization	k with	No Veget		Left Ba	m m		m Right I	3ank		ı		
Slides Rea Bank Stab 5.7 Leng % Bank	pilization gth of Ban With Veg	k with		f bank with	Left Ba	m m		m m	3ank				
Slides Rea Bank Stab 5.7 Leng % Bank v no vegeta	gth of Ban With Veg	k with etation d by Ac	n (Length o	f bank with	Left Ba	m m		m Right I	3ank				
Slides Rea Bank Stab 5.7 Leng % Bank no vegeta 5.8 Ove	gth of Ban With Veg ation divide	k with etation d by Ac	n (Length o	f bank with Length)		m m		m Right I	3ank				
Slides Rea Bank Stab 5.7 Leng % Bank v no vegeta	gth of Ban With Veg ation divide	k with etation d by Ac	n (Length o	f bank with		m m		m Right I	3ank				
Slides Rea Bank Stab 5.7 Leng % Bank no vegeta 5.8 Ove % bankfu 5.9 Ripa	gth of Ban With Veg ation divide rhead ca all channel	nk with etation d by Ac nopy covere	n (Length octual Survey	f bank with Length) anging branc	hes of chan	m m nk		m Right I	3ank				
Slides Rea Bank Stab 5.7 Leng % Bank no vegeta 5.8 Ove % bankfu 5.9 Ripa	gth of Ban With Veg ation divide rhead ca	nk with etation d by Ac nopy covere	n (Length octual Survey	f bank with Length) anging brance # co	of channiferous	m m nk nel width: trees		m Right I					
Slides Rea Bank Stab 5.7 Leng % Bank no vegeta 5.8 Ove % bankfu 5.9 Ripa	gth of Ban With Veg ation divide rhead ca all channel	nk with etation d by Ac nopy covere	n (Length octual Survey	f bank with Length) anging brance # co	hes of chan	m m nk nel width: trees		m Right I	ie 🗌 few	_	%		
Slides Rea Bank Stab 5.7 Leng % Bank no vegeta 5.8 Ove % bankfu 5.9 Ripa	gth of Ban With Veg ation divide rhead ca all channel	nk with etation d by Ac nopy covere	n (Length octual Survey	f bank with Length) anging brance # co de	of channiferous	m m nk nel width: trees		m Right l	ie	v 🗌	% many [

Advanced Stream Habitat Survey Field Data Sheet (use a new data sheet for each reference site surveyed) Module 2

HABITAT ASSESSMENT (the score in bold, estimate a value within the range listed)

Characteristic	Results	Good	Acceptable	Marginal	Poor	Score
I: Streambed material:		15 - 20	10 - 15	5 - 10	0 - 5	
% boulder and cobble		50%	30-50%	10-30%	<10%	
2: Embeddedness:		15 - 20	10 - 15	5 - 10	0 - 5	
		25–0%	50-25%	75-50%	>75%	
3: Instream cover:		15 - 20	10 - 15	5 - 10	0 - 5	
		>3	2 to 3	I to 2	<i< th=""><th></th></i<>	
4: % Pool Habitat		11 - 15	7 - 11	3 - 7	0 - 3	
<2% stream slope	% Slope	>60% pool	50-60%	40-50%	<40%	
2-5% stream slope		>50% pool	40-50%	30-40%	<30%	
>5% stream slope	% Pool	>40% pool	30-40%	20-30%	<20%	
5: Off-channel habitat:		11 - 15	7 - 11	3 - 7	0 - 3	
ponds, side channels		year round,	seasonal,	seasonal,	little or	
with protection from		good	good	minimal	none, no	
flood flows		protection	protection	protection	protection	
6: Bank Stability		11 - 15	7 - 11	3 - 7	0 - 3	
evidence of erosion or		stable	Moderately	moderately	unstable	
bank failure		none	Stable	unstable	lots	
(see note I)			some	some		
7. Bank vegetation: %		8 - 10	5 - 8	2 - 5	0 - 2	
stream bank covered		>90%	70-90%s	50-70%	<50%	
by vegetation						
8. Overhead canopy: %		8 - 10	5 - 8	2 - 5	0 - 2	
bankfull channel						
overhung by trees and		>30%	20-30%	10-20%	0-10%	
shrubs						
9. Riparian zone:		8 - 10	5 - 8	2 - 5	0 - 2	
# bankfull channels		2 or more	I to 2	<i< th=""><th>0</th><th></th></i<>	0	
		abundant	good	common,	sparse	
		on whole	species mix	few	or	
		floodplain		species	absent	
		Joapiani				
Total						
Score		102 - 135	66 - 102	30 - 66	0 - 30	
90010	1	l .	l			

Note 1: The evidence of erosion or bank failure changes from **Good** (intact banks) to **Acceptable** (healed or banks stabilized) to **Marginal** (active erosion or extensive bank stabilization) to Poor (many actively eroding areas or upslope slides reaching channel).

Enter the data: Streamkeepers Database, www.streamkeepers.info

Data entered on (date):
Name: