

Don't Speculate, Calculate!

NEW LONG-TERM STEWARDSHIP CALCULATOR

Angela Sturdevant Indiana Chapter



Why does this matter?

- LTM funding is critical to successful conservation outcomes.
- 2008 Mitigation Rule: "A long-term management plan should include a description of long-term management needs, annual cost estimates for these needs, and identify the funding mechanism that will be used to meet those needs" (33 C.F.R. §332.7(d)(2)).

Need a better widget!

Advisory committee formed:



One size does NOT fit all

Location, location!

- Remoteness, ease of access
- Urban/rural setting
- Adjacent land use
- Edge effects
- Public use
- Position in watershed

High maintenance habitat?

- Habitat type, fire-dependent communities
- Ecological integrity



Flexible tool

- Free and available to public
- Calculator & accompanying handbook
- Voluntary conservation or mitigation projects
- Fee land or easements

Fund Principal = annual costs/cap rate

"Cap" rate = nominal return-inflation-fees

LONG-TERM STEWARDSHIP CALCULATOR:

ACCOMPANYING HANDBOOK





May 2016

- Background Materials
- Cost Estimates Guidance
- Managing Money for the Long-term
- Additional Resources
- Guide to Using the Calculator
- Examples of the Calculator in Use
- Example Stewardship Standards & Guidelines

Example Project

- Preserved 7,000 feet of stream, 80 acres riparian buffer.
- Reforested 9 acre hayfield.
- Long-term management:
 - Annual monitoring
 - Trash removal
 - Fence/gate/culvert/sign repair & replacement
 - Invasive species control



Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

1 2	4	Α		В	С)	E	F
	1					NOTE: En	ter values	in blue-shaded cells	
	2	LONG-TERM STEWARD	SHIP COSTS CALCU	JLATOR		Click on in guidance.		Tasks and Description	ons for additional
	3	Project Name:		Acres:	State (or state equivalent):	Country:		Prepared by:	Date:
	4	on community and the second community and the		80	N/A	US		ILF Manager	03/28/16
	5								
	6		stimates:						
	7	7		Quantity	Units	Cost			
	8	Regular staff hourly rate (in	c benefits)		hour	\$	30.00		
	9				hour	\$	-		
+	14	Click + to the left to expand a	see Instruction	is below).					
	15	Travel Costs:							
	16	Mileage OR cost (round-trip)		miles	\$	-		
	17	Mileage rate		0.54	\$/mile				
-	18	Vehicle Travel Cost:				\$	212.76		
-		Overnight lodging cost (per	night)	\$ -	\$/night				
	21	Per diem (meals)		\$ 25.00	\$/day				
-		Additional Rates:							
-		Capitalization rate		4.55%					
		<u> </u>	v fund (50% or 100%)	100%					
	25	, , ,		100%					
		Administrative (recommend	ed min 10%)	10%					
	27	Talling of the freedingenor	20.00	10/0					
4	ŀ	1-Assumptions	2-Stewardship	3-Land Man	agement & Ma	int 4-	Summar	y (±)	



Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

Summary

	2	Drainet Name	Acros	State (or state	Country				
	J	Project Name:	Acres:	equivalent):	Country:				
	4	Stream and Riparian Buffer ILF Restoration	80	N/A	US				
	5								
	6	Unit Cost E	t Cost Estimates:						
	7		Quantity	Units	Cost				
	8	Regular staff hourly rate (inc benefits)		hour	\$ 30.00				
	8 9	Regular staff hourly rate (inc benefits) Short-term staff hourly rate (inc benefits)		hour hour					
+ K	9			hour					

Expand for additional staff types

3	Project Name:	Acres:	State (or state equivalent):	Country:					
	-		' - <u>-</u>	-					
4	Stream and Riparian Buffer ILF Restoration	80	N/A	US					
5									
6	Unit Cost E	st Estimates:							
7		Quantity	Units	Cost					
8	Regular staff hourly rate (inc benefits)		hour	\$ 30.00					
9	Short-term staff hourly rate (inc benefits)		hour	\$ -					
10	Enter staff type and hourly rate (inc benefits)		hour	\$ -					
11	Enter staff type and hourly rate (inc benefits)		hour	\$ -					
12	Enter staff type and hourly rate (inc benefits)		hour	\$ -					
13	Enter staff type and hourly rate (inc benefits)		hour	\$ -					
14	Click + to the left to expand additional hourly rates (s	see Instruction	is below).						
15	Travel Costs:			_					

-	6	Unit Cost Es	stimates:				
-	7		Quantity	Units	Cost		
	8	Regular staff hourly rate (inc benefits)		hour	\$ 30.00		
-	9	Short-term staff hourly rate (inc benefits)		hour	\$ -		
+ 14 Click + to the left to expand additional hourly rates (see Instructions below).							
	15	Travel Costs:					
	16	Mileage OR cost (round-trip)		miles	\$ -		
_	17	Mileage rate	0.54	\$/mile			
	18	Vehicle Travel Cost:			\$ 212.76		
	19	Overnight lodging cost (per night)	\$ -	\$/night			
	20	Per diem (meals)	\$ 25.00	\$/day			

Additional Rates:	
Capitalization rate	4.55%
% of annual costs covered by fund (50% or 100%)	100%
Contingency (10-20%)	10%
Administrative (recommended min 10%)	10%

Easement Stewardship



Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

П	1													
1					T									
4	A B	С	D	E	J	К	L	М	N	0		Р	Q	R
1	ite Protection Monitoring an	d Easement Stewardship Costs	NOTE: Enter v	alues in blue-s	shaded cells.	Click on individ	lual Tasks and	d Description	s for addition	al guidance.				
2	Stewardship Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Unit Cost	Extended Cost	Recurrence Interval (years)	Annual Co	st	Subtotal	Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
	Monitoring the site protection med	hanism										\$ 787.76		ILF program
4	Preparation for site visit	Staff time	2			hours		\$ 60.00	1	\$ 60.	.00			
5	Travel expenses occurring	Number of trips annually			1	#trips								
6	annually	Overnight stays for annual site visit(s)			0	#nights	\$ 237.76	\$ 237.76	1	\$ 237.	7.76	[
7		Allowance for meals (# of days) for annual site vis	it(s)		1	#days								
8	T1	Number of trips				#trips								
9	Travel expenses (non-annual	Overnight stays for site visit(s)				#nights	\$ -	\$ -	3	\$	-	l		
10	trips)	Allowance for meals (# of days) for site visit(s)				#days						İ		
11		Visual assessment, notes, photos. Include travel time and time on-site.	12			hours		\$ 360.00	1	\$ 360.	.00		8 hrs travel time, 4 hrs field time	
12	Prepare and submit report,	Report preparation & submittal, agency coordination, maintenance of records	4			hours		\$ 120.00	1	\$ 120.	.00			
13	maintain records	Expenses (e.g. printing, copying, mailing)				ea		s -	1	s				
14	Sunnlies	iPad (with camera and GPS) and waterproof case			0.05	ea	\$ 600.00		_		.00		Used 5% of time on this site	
	Maintaining landowner/neighbor re											\$ 240.00		
16		Communicating with landowner/neighbors, reviewing reserved rights, etc.	8			hours		\$ 240.00	1	\$ 240.	.00	,		
17		Staff time				hours		\$ -	1	s	-			
	Communications/outreach	Expenses (e.g. newsletter/brochure printing,				ea		s -	1	s				
18		postage, supplies for events, etc.)				ea				7	_			
19	nforcement to correct violations											\$ -		
20		Lump sum (based on LTA Legal Defense Reserves calculator). Entire lump sum is carried over to Summary tab.			1	ea	\$ 5,000.00	\$ 5,000.00	N/A	N/A				
21		Staff time				hours		\$ -	8	\$	-			
22		Travel expenses (Number of trips)				#trips					\neg			
23	Option B: Legal defense costs	Travel expenses (Overnight stays for site visit(s))				#nights	\$ -	\$ -	8	\$	-	İ		
22 23 24	COSES	Travel expenses (Meals (# of days) for site visit(s))				#days						i		
25		Legal fees				hours		\$ -	8	\$	-			
26	Legal Detense Insurance	Annual insurance premium, prorated for an individual property				ea		\$ -	1	\$	-			
27								•	ANNUAL CO	OST SUBTOT	AL:	\$ 1,027.76		

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

1	<u> </u>				+								
2													
4	A B	С	D	E	J	K	L	M	N	0	P	Q	R
1 :	ite Protection Monitoring an	d Easement Stewardship Costs	NOTE: Enter v	alues in blue-s	shaded cells.	Click on individ	lual Tasks an	d Description:	s for addition	al guidance.			
2	Stewardship Tasks	Description	Regular Staff (hours)	Staff (hours)	Quantity	Unit	Unit Cost	Extended Cost	Recurrence Interval	Annual Cost	Subtotal	Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
3 1	Monitoring the site protection med	hanism Monito	rina 1	tha ci	ita n	rotect	ion i	mach	anie	m	787.76		ILF program
4	Preparation for site visit	Staff time IVIOIIILO	illig i	1116 2	ire h	IOLECI			iai ii 5	111			
5		Number of trips annually				m urips							
6	Travel expenses occurring	Overnight stays for annual site visit(s)			0	#nights	\$ 237.76	\$ 237.76	1	\$ 237.76			
7	annually	Allowance for meals (# of days) for annual site vis	it(s)		1	#days							
8		Number of trips				#trips							
9	Travel expenses (non-annual	Overnight stays for site visit(s)				#nights	\$ -	\$ -	3	\$ -			
10	trips) Allowance for meals (# of days) for site v					#days							
11	Site visit	Visual assessment, notes, photos. Include travel time and time on-site.	12			hours		\$ 360.00	1	\$ 360.00		8 hrs travel time, 4 hrs field time	
12	Prepare and submit report,	Report preparation & submittal, agency coordination, maintenance of records	4			hours		\$ 120.00	1	\$ 120.00			
13	maintain records	Expenses (e.g. printing, copying, mailing)				ea		s -	1	s -			
		iPad (with camera and G							_	-		Used 5% of time on this	
14	Supplies		! !	اء مرما			: - -		1-4:	l- !		site	
15	Maintaining landowner/neighbor re	elationships Mainta	ınına	land	own	ier/ne	ignb	or re	iation	nsnips	240.00		
	Stafftime	Communicating with lar	9				J						
16	otali time	reviewing reserved rights, etc.							_				
17	Communications (automate	Stafftime				hours		\$ -	1	\$ -			
18	Communications/outreach	Expenses (e.g. newsletti											
_	nforcement to correct violations	postage, supplies for ev Enforce	amar	ot to	orre	act vic	Vatio	ne					
10		LIIIOIO		וו נט נ		SOL VIC	nalic	פות					
	Option A: Legal defense fund	Reserves calculator). Entire iump sum is carried			_	50	3 3,000.00	2 2,000.00	11/0	17/0			
20	contribution	over to Summary tab.											
21		Stafftime				hours		\$ -	8	\$ -			
22 23	Option B: Legal defense	Travel expenses (Number of trips)				#trips							
	costs	Travel expenses (Overnight stays for site visit(s))				#nights	\$ -	\$ -	8	\$ -			
24		Travel expenses (Meals (# of days) for site visit(s))			#days							
25 Legal fees hours 5 - 8 5 -													
26	Legal Defense Insurance	Annual insurance premium, prorated for an individual property				ea		ş -	1	ş -			
27						•			ANNUAL CO	ST SUBTOTAL:	\$ 1,027.76		

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

Summary

Expand for additional staff types

					1					
1					+					
[2]										
	A B	C	D	E	J	K	L	M	N	0
1	Site Protection Monitoring and	d Easement Stewardship Costs	NOTE: Enter v	alues in blue-s	haded cells.	Click on individ	lual Tasks and	d Description	s for additional guidance.	
2	Stewardship Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Unit Cost	Extended Cost	Recurrence Interval (years)	Annual Cost
	Monitoring the site protection med	hanism								
4	Preparation for site visit	Staff time	2			hours		\$ 60.00	1	\$ 60.00
5		Number of trips annually			1	#trips				
6	Travel expenses occurring	Overnight stays for annual site visit(s)			0	#nights	\$ 237.76	\$ 237.76	1	\$ 237.76
7	annually	Allowance for meals (# of days) for annual site vis	it(s)		1	#days	1			
8		Number of trips				#trips				
9	Travel expenses (non-annual trips)	Overnight stays for site visit(s)				#nights	\$ -	\$ -	3	\$ -
10		Allowance for meals (# of days) for site visit(s)				#days	1			
11	Site visit	Visual assessment, notes, photos. Include travel time and time on-site.	12			hours		\$ 360.00	1	\$ 360.00
12	Prepare and submit report,	Report preparation & submittal, agency coordination, maintenance of records	4			hours		\$ 120.00	1	\$ 120.00
13	maintain records	Expenses (e.g. printing, copying, mailing)				ea		\$ -	1	\$ -
14	Supplies	iPad (with camera and GPS) and waterproof case			0.05	ea	\$ 600.00	\$ 30.00	3	\$ 10.00

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

J	K								
NOTE: Enter values in blue-shaded cells. Click on individual Tasks and Descriptions for additional guidance.									
taff									
nd									
ate Quantity	Unit								
.									
ts)									
	hours								
1	#trips								
0	#nights								
1	#days								
	#trips								
	#nights								
	#days								
	hours								
	hours								
	ea								
0.05	ea								
0.03									
	0								

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

2	Stewardship Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Unit Cost		tended Cost
3	Monitoring the site protection	n mechanism							
4	Preparation for site vis	t Staff time	2			hours		\$	60.00
5	T1	Number of trips annually			1	#trips			
6	Travel expenses occurr annually	Overnight stays for annual site visit(s)			0	#nights	\$ 237.76	\$	237.76
7	annuany	Allowance for meals (# of days) for annual site vi	sit(s)		1	#days			
8	T	Number of trips				#trips			
9	Travel expenses (non-a trips)	Overnight stays for site visit(s)				#nights	\$ -	\$	-
10	шрз/	Allowance for meals (# of days) for site visit(s)				#days			
11	Site visit	Visual assessment, notes, photos. Include travel time and time on-site.	12			hours		\$	360.00
12	Prepare and submit rep	ort, Report preparation & submittal, agency coordination, maintenance of records	4			hours		\$	120.00
13	maintain records	Expenses (e.g. printing, copying, mailing)				ea		\$	-
14	Supplies	iPad (with camera and GPS) and waterproof case			0.05	ea	\$ 600.00	\$	30.00
15	Maintaining landowner/neig	bor relationships							
16	Stafftime	Communicating with landowner/neighbors, reviewing reserved rights, etc.	8			hours		\$	240.00
17		Staff time				hours		\$	-
18	Communications/outre	Expenses (e.g. newsletter/brochure printing, postage, supplies for events, etc.)				ea		\$	-

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

2	Stewardship Tasks	Descr	rip	Extended Cost	Recurrence Interval (years)	А	innual Cost	Subtotal	Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
3	Monitoring the site protection med	hanism						\$ 787.76		ILF program
4	Preparation for site visit	Stafftime		\$ 60.00	1	\$	60.00			
5	Travel expenses occurring	Number of trips annuall	y							
6	annually	Overnight stays for annu	Ja.	\$ 237.76	1	\$	237.76			
7		Allowance for meals (# c	of							
8	T	Number of trips								
9	Travel expenses (non-annual trips)	Overnight stays for site	vi	\$ -	3	\$	-			
10		Allowance for meals (# c	of							
	Site visit	Visual assessment, note	es	\$ 360.00	1	s	360.00		8 hrs travel time, 4 hrs	
11		travel time and time on-	-5	\$ 360.00	1	`	360.00		field time	
12	Prenare and submit report	Report preparation & su coordination, maintena		\$ 120.00	1	\$	120.00			
13	maintainrecords	Expenses (e.g. printing,	cc	\$ -	1	\$	-			
14	Supplies	iPad (with camera and 0 case	3F	\$ 30.00	3	\$	10.00		Used 5% of time on this site	
15	Maintaining landowner/neighbor re	elationships						\$ 240.00		
16	Staff time	Communicating with lar reviewing reserved righ	_	\$ 240.00	1	\$	240.00			
17		Stafftime		\$ -	1	\$	-			
18		Expenses (e.g. newslett postage, supplies for ev		\$ -	1	\$	-			

Site Protection Monitoring & Easement Stewardship

Enfo	rcement to correct violations		_						
	Ontion A: Legal defense	Lump sum (based on LTA Legal Defense Reserves calculator). Entire lump sum is carried over to Summary tab.		1	ea	\$ 5,000.00	\$ 5,000.00	N/A	N/A
		Staff time			hours		\$ -	8	\$ -
	Option B: Legal defense costs	Travel expenses (Number of trips)			# trips				
		Travel expenses (Overnight stays for site visit(s))			# nights	\$ -	\$ -	8	\$ -
		Travel expenses (Meals (# of days) for site visit	(s))		# days				
		Legal fees			hours		\$ -	8	\$ -
	Hegal Defense Insurance	Annual insurance premium, prorated for an individual property			ea		\$ -	1	\$ -

Land Trust Alliance - Legal Defense Reserve Calculator

- Minimum adequate reserve for portfolio of properties.
- http://tlc.lta.org/calculator
- Non-members contact tlc@lta.org for access.



Questions?

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

	nagement and Maintenance Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	u	Jnit Cost	Extended Cost	Recurrence Interval (years)		nnual Cost		Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
Infras	tructure Maintenance and Rep												\$ 1,254.73		ILF program
1	Travel expenses securies	Number of trips annually			1	#trips									
1	Travel expenses recurring annually	Overnight stays for annual site visit(s)			0	#nights	\$	237.76	\$ 237.76	5 1	\$	237.76			
	announy ,	Allowance for meals (# of days) for annual site visit	t(s)		1	#days									
1	Facual and a second	Number of trips			0	#trips					Г				
	Travel expenses (non-annual trips)	Overnight stays for site visit(s)			0	#nights	\$	-	\$ -	3	\$	-			
1	u ips)	Allowance for meals (# of days) for site visit(s)			0	#days									
	Site visit	Inspect boundaries, signs, other infrastructure. Include prep time, travel time and time on-site.	8			hours			\$ 240.00	1	\$	240.00		travel time	
		Trash removal and addressing trespass, vandalism	2	0		hours			\$ 60.00	1	\$	60.00			
1	Replace fence	Contract Amount			1700	linear ft	\$	2.78	\$ 4,726.00	20	\$	236.30			
1	nepiace tence	Staff Oversight	5	0		hours			\$ 150.00)	\$	7.50		3hr contracting, 2hr field conf (in annual visit
1		Material (12" No Trespassing)			2	ea	\$	2.50	\$ 5.00	10	\$	0.50			
!	Kepair/replace signs 1	Labor	1	0		hours			\$ 30.00	10	\$	3.00			
1		Materials or Contract Amount				ea	\$	-	\$ -		5	-			
		Labor or Staff Oversight				hours			\$ -	1	5	-			
	,	Vehicle (add description)				day	\$	-	\$ -	- 1	\$	-			
1	Equipment daily use rate	Other (select from drop-down list)				day	\$	_	\$ -	1	\$	-			
1	,	Vehicle (add description)				ea	\$	_	\$ -	1	\$	-			
1	Equipment replacement H	Other (select from drop-down list)				ea	\$	-	\$ -	1	\$				
Ecolo	gical Management										Ť		\$ 1,084.76		
		Number of trips annually			1	#trips					Г				
1	Travel expenses recurring	Overnight stays for annual site visit(s)			0	#nights	\$	237.76	\$ 237.76	1	\$	237.76			
1	annually	Allowance for meals (# of days) for annual site visit	t(s)		1	#days	1								
		Review and update management plan	7	0		hours			\$ 210.00	5	\$	42.00		travel included in annual visit	
		Monitoring T&E species, inventories, reporting				hours			\$ -		\$	-			
1	Ecological monitoring	Supplies				ea	\$	-	\$ -	1	\$	-			
	Invasive species control	Contract Amount			1	ea	\$	430.00	\$ 430.00)	\$	430.00		8.6 acres at \$50/acre	
		Staff Oversight	12.5	0		hours			\$ 375.00	⊣ 1	\$	375.00		8.5hr travel, 2hr field conf, 2hr	contracting
		Materials or Contract Amount				ea	\$	-	\$ -		\$	-			
	Nuisance wildlife control	Labor or Staff Oversight				hours			\$ -	1	\$	-			
	(Cost of burn (burn plan, implementation of burn, follow-up monitoring)				ea	\$	-	ş -	. 1	\$	-			
	Proscribed fire	Staff oversight of contract				hours			\$ -		\$	-			
		Annual training and recertification costs				ea	\$	-	\$ -	1	\$	-			
		Materials or Contract Amount				ea	\$	-	\$ -		\$	-			
	Vegetation management F	Labor or Staff Oversight				hours			\$ -	1	\$				
		Small equipment & supplies				ea	\$	-	\$ -	- 1	\$	-			
	Dub (- dd d 1 -1 - 1	Materials or Contract Amount				ea	\$	_	\$ -		\$	-			
	Other (add description) F	Labor or Staff Oversight				hours			\$ -	1	\$				
Occu	pancy	, in the second									Ť		s -		
		Taxes, drainage assessments, other fees			1	ea	\$		\$ -	1	5			tax exempt	
	Insurance	,			1	ea	s	_	s .	1	s				
		eg. utilities, water rights			1	ea	s	_	s .	1	s		 		
_							-			ANNUAL COS		IBTOTAL:	\$2,339.40		
										MINIORE COS	ונייי	JOIOIAL	72,333,43		

Assump	otions		Site Pro Ease	tection ment S		_	&
nt and Maintenance Tasks		Description		Regular Staff	Short-term	Quantity	U

Land Management & Maintenance

Infractructure Maintanance and Panlacement	Ma	nagement and Maintenance Tasks	Description	Regular Staff	Short-term Staff (hours)	Quantity	Unit	U	Init Cost	Extended Cost	Recurrence Interval	An	nual Cost	Subtotal	Notes (explain assumptions used in cost estimate; indicate	Responsible Party
Travel appress recurring starts for annual site visit(s)															corresponding LTMP task)	
Travel appress recurring starts for annual site visit(s)	Infra	structure Maintenance and Rep	Intrastructure	Main	tenai	nce	and F	Кe	plac	ceme	ent			\$ 1,254.73		ILF program
Allowance for mate) Allowance for mate)			Numb						-							
Allowance for mass find days find annual site visit(s)			Overnight stays for annual site visit(s)			0	#nights	\$	237.76	\$ 237.76	1	\$	237.76			
Travel expenses (non-annual) Our might start for size wist(s) O			Allowance for meals (# of days) for annual site visi	t(s)		1	#days									
Our of profit Our of profi		Travel expenses (non-appual	Number of trips			0	#trips	╛								
Allowance for meals (or d'ays) for size visits 0			Overnight stays for site visit(s)			0	#nights	\$	-	\$ -	3	\$	-			
Service Include preprints Travel and rectify Preprints P		,53/	Allowance for meals (# of days) for site visit(s)			0	#days									
Reglace fance		Site visit		8			hours			\$ 240.00	1	\$	240.00		travel time	
Replace fence				2	0		hours			\$ 60.00	1	\$	60.00			
StaffOversight Staf		Renlace fence	Contract Amount			1700	linear ft	\$	2.78	\$ 4,726.00	20	<u> </u>	236.30			
Sepain S		p.ace icince	Staff Oversight	5	0		hours			\$ 150.00	-0	· ·	7.50		3hr contracting, 2hr field conf (in annual visit
Second Control Contr		Repair/replace signs	Material (12" No Trespassing)			2	ea	\$	2.50	\$ 5.00	10	_	0.50			
		nepail/replace signs	Labor	1	0		hours			\$ 30.00	10	\$	3.00			
Sound		Other (select from drop-	Materials or Contract Amount				ea	\$	-	\$ -	1	\$	-			
Equipment daily use rate Color (select from drop-down list) Color (select from		down)	Labor or Staff Oversight				hours			\$ -	•	\$	-			
Color Colo		Fourinment daily use rate	Vehicle (add description)				day	\$	-	\$ -	1	\$	-			
Company Comp			<u> </u>				day	\$	-	\$ -	1	\$	-			
Company Comp		Fourinment replacement	Vehicle (add description)					اد		c	1	\$	-			
Travel expenses recurring annually		equipment replacement (Other									\$	-			
Travel expenses recurring annually	Ecolo		Ecological IVIa	anade	emen	t						Н		\$ 1,084.76		
Allowance for meals (if of days) for annual site visit(s)		Travel expenses recurring	Nullib									١.				
Update management plan Review and update management plan 7 0 hours 5 210.00 5 5 42.00 travel included in annual visit		annually	0 /					->	237.76	\$ 237.76	1	۶	237.76			
Ecological monitoring Monitoring T&Especies, inventories, reporting Supplies Sup						1	#days	_								
Ecological monitoring Supplies				7	0		hours	_			5	-	42.00		travel included in annual visit	
Invasive species control Contract Amount C		Ecological monitoring F					hours			-	1	<u> </u>	-			
Prescribed fire Prescribed			• •				ea	-	-	-		-	-			
Nuisance wildlife control Materials or Contract Amount Labor or Staff Oversight Nuisance wildlife control Nuisance wildlife control Nuisance wildlife control Nuisance wildlife control Nuisance Nuisance wildlife control Nuisance Nui						1		\$	430.00		1	<u> </u>			8.6 acres at \$50/acre	
Nuisance wildlife control Labor or Staff Oversight Labor or Staff Ove				12.5	0		hours					-	375.00		8.5hr travel, 2hr field conf, 2hr	contracting
Prescribed fire Cost of burn (burn plan, implementation of burn, follow-up monitoring) Staff oversight of contract hours S - 1 S -		Nuisance wildlife control					ea	\$	-	*	1	_	-			
Prescribed fire Follow-up monitoring Fo							hours	_		\$ -		\$	-			
Staff oversight of contract Staff oversight of contract Staff oversight of contract Staff oversight of contract Staff oversight	Prescribed fire	follow-up monitoring)					\$	-		1	_	-				
Vegetation management Materials or Contract Amount ea S - S - 1								_		-		-	-			
Vegetation management Labor or Staff Oversight hours S - 1 S -								\$	-	-	1	<u> </u>	-			
Supplies Small equipment & supplies ea S S S S S S S S S		Vegetation management					ea	\$	-		1	Ť	-			
Mater							hours	_		*		-	-			
Company Comp		• • • • • • • • • • • • • • • • • • • •					ea	\$	-	\$ -	1	-	-			
Property taxes Taxes, Insurance 1 ea 5 - 1 \$ - tax exempt Other fees eg. utilities, water rights 1 ea 5 - 5 - 1 \$ -		Other (add description) F	lahor									_	-			
Property taxes Taxes \$ - tax exempt Insurance 1 ea \$ - 1 \$ - 1 \$ - 1 \$ -	Occu	pancy	Uccupancy											\$ -		
Other fees eg. utilities, water rights 1 ea \$ - \$ - 1 \$ -		Property taxes	Taxes,									\$	-		tax exempt	
		Insurance				1	ea	\$	-	\$ -	1	\$	-			
ANNIIAL COST SURTOTAL : \$2,330,40		Other fees (eg. utilities, water rights			1	ea	\$	-	\$ -	1	\$	-			
ANNOAL COST SOUTOTAL: \$2,333.43										-	ANNUAL COS	T SU	BTOTAL:	\$2,339.49		

Infrastructure Maintenance and Replacement

Ma	nagement and Maintenance Tasks	Description		Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Unit Cost	Extended Cost	Recurrence Interval (years)	Ann	ual Cost
Infra	structure Maintenance and Re	placement										
	Ti	Number of trips annually				1	#trips					
	Travel expenses recurring annually	Overnight stays for annual site visit(s))			0	#nights	\$ 237.76	\$ 237.76	1	\$	237.76
	annuany	Allowance for meals (# of days) for ann	nual site visi	it(s)		1	#days					
	T	Number of trips				0	#trips					
	Travel expenses (non-annual trips)	Overnight stays for site visit(s)				0	#nights	\$ -	\$ -	3	\$	-
	trips/	Allowance for meals (# of days) for site	e visit(s)			0	#days					
	Site visit	Inspect boundaries, signs, other infra Include prep time, travel time and tim		8			hours		\$ 240.00	1	\$	240.00
	Remove trash and rectify trespass, vandalism	Trash removal and addressing trespas vandalism	ss,	2	0		hours		\$ 60.00	1	\$	60.00
	Replace fence	Contract Amount				1700	linear ft	\$ 2.78	\$ 4,726.00	20	\$	236.30
	Replace fence	Staff Oversight		5	0		hours		\$ 150.00	20	\$	7.50
	Di-/Ii	Material (12" No Trespassing)				2	ea	\$ 2.50	\$ 5.00	10	\$	0.50
	Repair/replace signs	Labor		1	0		hours		\$ 30.00	10	\$	3.00
	Other (select from drop-	▼ te Select additional tasks as					ea	\$ -	\$ -	4	\$	-
	down)	Labo needed.					hours		\$ -	1	\$	-
	Fauires and deileures and	Vehi					day	\$ -	\$ -	1	\$	-
	Equipment daily use rate	Othe These two rows may be					day	\$ -	\$ -	1	\$	-
	Fauiament and annual	Vehic copied and pasted as					ea	\$ -	\$ -	1	\$	-
	Equipment replacement	Othe many times as needed.					ea	\$ -	\$ -	1	\$	-

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

Infrastructure Maintenance and Replacement

Ma	nagement and Maintenance Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	U	Init Cost		tended Cost
Infra	structure Maintenance and Re	eplacement								
	TI	Number of trips annually			1	#trips				
	Travel expenses recurring annually	Overnight stays for annual site visit(s)			0	#nights	\$	237.76	\$	237.76
	annuany	Allowance for meals (# of days) for annual site vis	it(s)		1	#days				
	T	Number of trips			0	#trips				
	Travel expenses (non-annual trips)	Overnight stays for site visit(s)			0	#nights	\$	-	\$	-
	шрэ	Allowance for meals (# of days) for site visit(s)			0	#days				
	Site visit	Inspect boundaries, signs, other infrastructure. Include prep time, travel time and time on-site.	8			hours			\$	240.00
	Remove trash and rectify trespass, vandalism	Trash removal and addressing trespass, vandalism	2	0		hours			\$	60.00
	Maintain fence	Contract Amount			1700	linear ft	\$	0.04	\$	68.00
	Maintain fence	Staff Oversight	2	0		hours			\$	60.00
	Dealess force	Contract Amount			1700	linear ft	\$	2.78	\$ 4,	,726.00
	Replace fence	Staff Oversight	5	0		hours			\$	150.00
	Pannis/sanlasa signs	Material (12" No Trespassing)			2	ea	\$	2.50	\$	5.00
	Repair/replace signs	Labor	1	0		hours			\$	30.00
	Maintain gate	Contract Amount			3	ea	\$	4.00	\$	12.00
	Maintaingate	Staff Oversight	0	0		hours			\$	-
	Paninas ente	Contract Amount (2" tube gate, 12')			3	ea	\$	200.00	\$	600.00
	Replace gate	Staff Oversight	0	0		hours			\$	-
	Maintain culvert	Materials				ea	\$	-	\$	-
	manitalii culvett	Labor (clean out culvert)	1	0		hours			\$	30.00
	Replace culvert	Contract Amount			2	ea	\$	4,000.00	\$8,	,000.00
	neplace culvert	Staff Oversight	3	0		hours			\$	90.00

Land Management & Maintenance

Infrastructure Maintenance and Replacement

Ma	nagement and Maintenance Tasks	Description	E	xtended Cost	Recurrence Interval (years)	Ar	nnual Cost	Subtotal	Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
Infra	structure Maintenance and Re	placement						\$ 1,254.73		ILF program
	T	Number of trips annually								
	Travel expenses recurring annually	Overnight stays for annual site visit(s)	\$	237.76	1	\$	237.76			
	annually	Allowance for meals (# of days) for annual	si							
	T	Number of trips								
	Travel expenses (non-annual trips)	Overnight stays for site visit(s)	\$	-	3	\$	-			
	u ipsj	Allowance for meals (# of days) for site vis	t(
	Site visit	Inspect boundaries, signs, other infrastru Include prep time, travel time and time o	_	240.00	1	\$	240.00		travel time	
	Remove trash and rectify trespass, vandalism	Trash removal and addressing trespass, vandalism	\$	60.00	1	ş	60.00			
	Maintain fence	Contract Amount	\$	68.00	1	\$	68.00		1.3% annual maintenance	
		Staff Oversight	\$	60.00	1	\$	60.00		1hr contracting, 1hr field conf (i	n annual visit
	Replace fence	Contract Amount	\$	4,726.00	20	\$	236.30			
	Replace lence	Staff Oversight	\$	150.00	20	\$	7.50		3hr contracting, 2hr field conf (i	n annual visit
	Repair/replace signs	Material (12" No Trespassing)	\$	5.00	10	\$	0.50			
	Repair/replace signs	Labor	\$	30.00	10	\$	3.00			
	Maintain gate	Contract Amount	\$	12.00	1	\$	12.00		2% annual maintenance	
	Maintain gate	Staff Oversight	\$	-	1	\$	-		oversight included in fence mai	ntenance
	Replace gate	Contract Amount (2" tube gate, 12')	\$	600.00	20	\$	30.00			
	Neplace Sate	Staff Oversight	\$	-	20	\$	-		oversight included in fence repl	acement
	Maintain culvert	Materials	\$	-	1	\$	-			
	Iviaintalli Culvert	Labor (clean out culvert)	\$	30.00	1	\$	30.00			
	Replace culvert	Contract Amount	\$	8,000.00	30	\$	266.67			
		Staff Oversight	\$	90.00	30	\$	3.00		2hr contracting, 1hr field conf (i	n annual visit

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

Ecological Management

Ma	nagement and Maintenance Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Ui	nit Cost	 tended Cost
Ecolo	gical Management								
	Tii	Number of trips annually			1	#trips			
	Travel expenses recurring annually	Overnight stays for annual site visit(s)			0	#nights	\$	237.76	\$ 237.76
	annuany	Allowance for meals (# of days) for annual site vis	it(s)		1	#days			
	Update management plan	Review and update management plan	7	0		hours			\$ 210.00
	F1i1i+i	Monitoring T&E species, inventories, reporting				hours			\$ -
	Ecological monitoring	Supplies				ea	\$	-	\$ -
	Invasive species control	Contract Amount			1	ea	\$	430.00	\$ 430.00
	(plants)	Staff Oversight	12.5	0		hours			\$ 375.00
	Nuisance wildlife control	Materials or Contract Amount				ea	\$	-	\$ -
	Nuisance wildlife control	Labor or Staff Oversight				hours			\$ -
		Cost of burn (burn plan, implementation of burn, follow-up monitoring)				ea	\$	-	\$ -
	Prescribed fire	Staff oversight of contract				hours			\$ -
		Annual training and recertification costs				ea	\$	-	\$ -
	V	Materials or Contract Amount				ea	\$	-	\$ -
	Vegetation management	Labor or Staff Oversight				hours			\$ -
	Supplies	Small equipment & supplies				ea	\$	-	\$ -
	Osh /- dd di-si\	Materials or Contract Amount				ea	\$	-	\$ -
	Other (add description)	Labor or Staff Oversight				hours			\$ -

Ecological Management

Ma	nagement and Maintenance Tasks	Description	Б	tended Cost	Recurrence Interval (years)	An	inual Cost	Subtotal	Notes (explain assumptions used in cost estimate; indicate corresponding LTMP task)	Responsible Party
Ecolo	gical Management							\$ 1,084.76		
	-	Number of trips annually								
	Travel expenses recurring annually	Overnight stays for annual site vi	\$	237.76	1	\$	237.76			
	amidany	Allowance for meals (# of days) fo								
	Update management plan	Review and update management	\$	210.00	5	\$	42.00		travel included in annual visit	
	Feelesies I monitories	Monitoring T&E species, inventor	\$	-	1	\$	-			
	Ecological monitoring	Supplies	\$	-	1	\$	-			
	Invasive species control	Contract Amount	\$	430.00	1	\$	430.00		8.6 acres at \$50/acre	
	(plants)	Staff Oversight	\$	375.00	1	\$	375.00		8.5hr travel, 2hr field conf, 2hr	contracting
	Nuisance wildlife control	Materials or Contract Amount	\$	-		\$	-			
	Nuisance Wildlife Control	Labor or Staff Oversight	\$	-	1	\$	-			
		Cost of burn (burn plan, impleme follow-up monitoring)	\$	-	1	\$	-			
	Prescribed fire	Staff oversight of contract	\$	-		\$				
		Annual training and recertification	\$	-	1	\$	-			
	V	Materials or Contract Amount	\$	-	1	\$	-			
	Vegetation management	Labor or Staff Oversight	\$	-	1	\$	-			
	Supplies	Small equipment & supplies	\$	-	1	\$	-			
	Other (add description)	Materials or Contract Amount	\$	-	4	\$	-			
	Other (add description)	Labor or Staff Oversight	\$	-	1	\$	-			

Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

Occupancy

Ma	nagement and Maintenance Tasks	Description	Regular Staff (hours)	Short-term Staff (hours)	Quantity	Unit	Unit Cost
Occu	pancy						
	Property taxes	Taxes, drainage assessments, other fees			1	ea	\$ -
	Insurance				1	ea	\$ -
	Other fees	eg. utilities, water rights			1	ea	\$ -

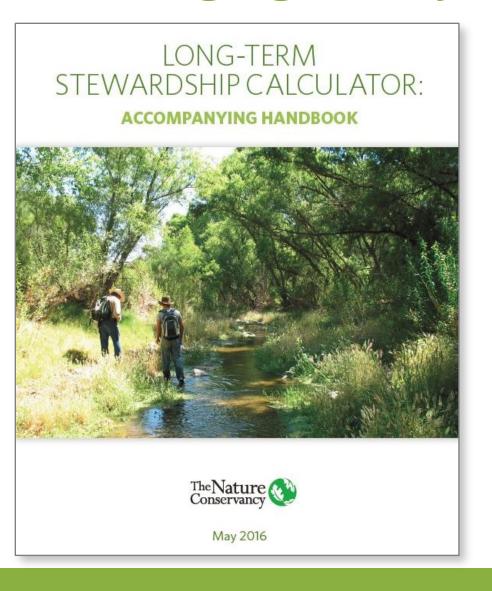


Site Protection Monitoring & Easement Stewardship

Land Management & Maintenance

SUMMARY OF LONG-TERM COSTS AND PR	RINCIPAL NE	EDE	D			
Project Name:	Acres:		te (or state iivalent):	Country:	Prepared by:	Date:
Stream and Riparian Buffer ILF Restoration	80	N/A	4	US	ILF Manager	3/28/2016
Site Protection Monitoring and Easement Stev	wardship					
Annual Cost Subtotal (see Tab 2 for details)		\$	1,027.76			
Contingency (10-20%)	10%	\$	102.78			
Administrative (min 10%)	10%	\$	113.05			
Annual Cost Total (includes Option B Legal Defense						
Costs):		\$	1,243.59			
Capitalization Rate:	4.55%					
Option A: Legal defense fund contribution		\$	5,000.00			
Total Fund Principal Needed for Site Protectio	n			Drin	cipal = <u>anr</u>	nual cost
Monitoring and Easement Stewardship:		\$	32,331.64			
					_	0 1 1 0 1 0
					C	ap rate
					C	ap rate
Land Management and Maintenance						ap rate
Land Management and Maintenance Annual Cost Subtotal (see Tab 3 for details)		\$	2,339.49			ap rate
	10%	_	2,339.49 233.95			ap rate
Annual Cost Subtotal (see Tab 3 for details)	10%	\$				ap rate
Annual Cost Subtotal (see Tab 3 for details) Contingency (10-20%)		\$	233.95			ap rate
Annual Cost Subtotal (see Tab 3 for details) Contingency (10-20%) Administrative (min 10%)		\$ \$ \$	233.95 257.34			ap rate
Annual Cost Subtotal (see Tab 3 for details) Contingency (10-20%) Administrative (min 10%) Annual Cost Total:	10% 4.55%	\$ \$ \$	233.95 257.34			ap rate
Annual Cost Subtotal (see Tab 3 for details) Contingency (10-20%) Administrative (min 10%) Annual Cost Total: Capitalization Rate:	10% 4.55%	\$ \$ \$	233.95 257.34			ap rate
Annual Cost Subtotal (see Tab 3 for details) Contingency (10-20%) Administrative (min 10%) Annual Cost Total: Capitalization Rate: Total Fund Principal Needed for Land Manage	10% 4.55%	\$	233.95 257.34 2,830.78			ap rate

Managing Money for the Long-term

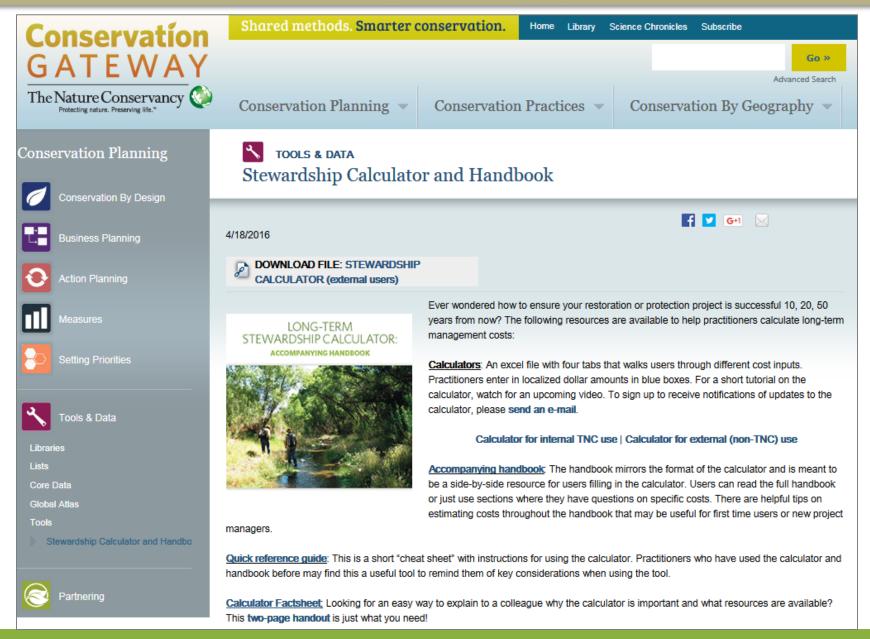


- Types of funds
- Choosing an appropriate cap rate
- Investment strategy needed to achieve cap rate
- Different financing approaches
- Alternative funding sources
- Example NFWF Investment Policy Statement

Additional resources

- Doscher, P. et al. 2007. Determining Stewardship Costs and Raising and Managing Dedicated Funds. Standards and Practices Curriculum. Ed. Sylvia Bates. Land Trust Alliance, www.landtrustalliance.org/publication/determining-stewardshipcosts-raising-and-managing-dedicated-funds
- Environmental Law Institute. 2012. Wetland and Stream Mitigation: A Handbook for Land Trusts. Washington, DC, www.eli.org/land-biodiversity/wetland-and-stream-mitigationhandbook-land-trusts
- Land Trust Alliance. 2015. Calculating Minimum Legal Defense Reserves for Land Trusts. Land Trust Alliance Conservation Defense Initiative, www.landtrustalliance.org/topics/conservation-defense

www.nature.org/stewardshipcalculator



Give it a try!

www.nature.org/stewardshipcalculator



Angela Sturdevant asturdevant@tnc.org | 317-951-8818