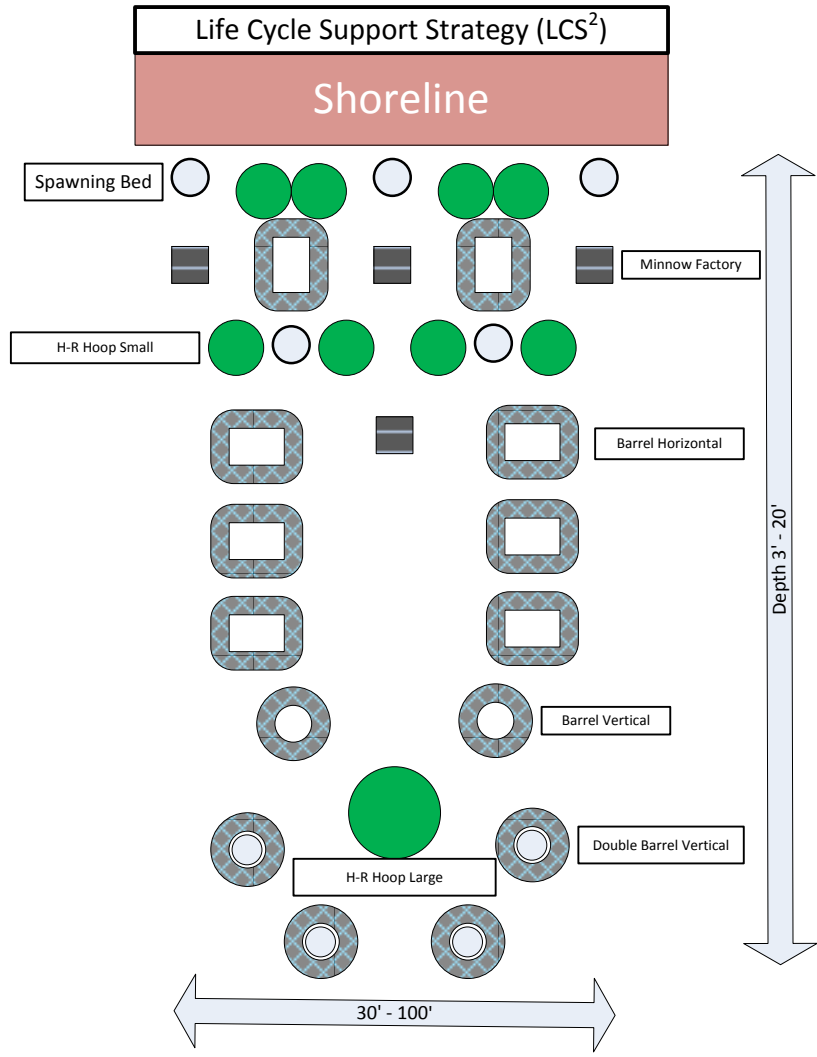


Life Cycle Support Strategies (LCS²)

ELS 12/12/18

Pre-Spawn	Spawn	Fry	Fingerling	Juvenile	Slot - Junior	Slot - Senior	Overs
Food							
Primary/ Secondary Sources							
Location							
Environment							
Structure/Feeding Routes							
Temperature							
Location							
Resting/Foraging							
Depth							



E.L. Swenson 8/16/2019

LCS² Site and Project Cost Analysis

E.L. Swenson 8/18/2019

Component Costs

Component	Material (\$s)		Component Labor (hrs.)				Labor (\$s)		Total
	Organization		Organization				Labor (\$s)		
	Pepsi	LFSA	LFSA	TPWD	Yantis HS	Total	In-Kind	Cash	
Spawning Beds	\$ 3.00	\$ 4.33	0.73	0.50	0.70	1.93	\$	32.20	\$ 39.53
Minnow Factory	\$ -	\$ 51.54	1.80	1.00	2.30	5.37	\$	79.40	\$ 130.94
Habitat Protection Fence	\$ -	\$ 31.79	2.65	2.81	1.75	7.21	\$	132.70	\$ 164.49
T-Habs	\$ 15.00	\$ 15.31	1.13	1.00	2.60	4.73	\$	70.40	\$ 100.71
T-Habs - Double Stack Kit	\$ -	\$ 32.15	0.53	0.50	0.00	1.03	\$	21.60	\$ 53.75

Single Site Costs

Component	Qty./Site	Material (\$s)		Labor (\$s)				All Mat. & Labor (\$s)		Total
		In-Kind	Cash	LFSA (\$18)	TPWD (\$24)	Yantis HS (\$10)	Total	In-Kind	Cash	
Spawning Beds	8	\$ 24	\$ 35	\$ 106	\$ 96	\$ 56	\$ 258	\$ 282	\$ 35	\$ 316
Minnow Factory	4	\$ -	\$ 206	\$ 130	\$ 96	\$ 92	\$ 318	\$ 318	\$ 206	\$ 524
Habitat Protection Fence	8	\$ -	\$ 254	\$ 382	\$ 540	\$ 140	\$ 1,062	\$ 1,062	\$ 254	\$ 1,316
T-Habs	20	\$ 300	\$ 306	\$ 408	\$ 480	\$ 520	\$ 1,408	\$ 1,708	\$ 306	\$ 2,014
T-Habs - Double Stack Kit	5	\$ -	\$ 161	\$ 48	\$ 60	\$ -	\$ 108	\$ 108	\$ 161	\$ 269
Site Totals		\$ 324	\$ 962	\$ 1,073	\$ 1,272	\$ 808	\$ 3,153	\$ 3,477	\$ 962	\$ 4,439

Total Project Cost - (6) Sites

Component	Material		Labor (\$s)				All Mat. & Labor (\$s)		Total
	In-Kind	Cash	LFSA (\$18)	TPWD (\$24)	Yantis HS (\$10)	Total	In-Kind	Cash	
Spawning Beds	\$ 144	\$ 208	\$ 634	\$ 576	\$ 336	\$ 1,546	\$ 1,690	\$ 208	\$ 1,898
Minnow Factory	\$ -	\$ 1,237	\$ 778	\$ 576	\$ 552	\$ 1,906	\$ 1,906	\$ 1,237	\$ 3,142
Habitat Protection Fence	\$ -	\$ 1,526	\$ 2,290	\$ 3,240	\$ 840	\$ 6,370	\$ 6,370	\$ 1,526	\$ 7,895
T-Habs	\$ 1,800	\$ 1,837	\$ 2,448	\$ 2,880	\$ 3,120	\$ 8,448	\$ 10,248	\$ 1,837	\$ 12,085
T-Habs - Double Stack Kit	\$ -	\$ 964	\$ 288	\$ 360	\$ -	\$ 648	\$ 648	\$ 964	\$ 1,612
Project Totals	\$ 1,944	\$ 5,772	\$ 6,437	\$ 7,632	\$ 4,848	\$ 18,917	\$ 20,861	\$ 5,772	\$ 26,633

Small Grant Cost - 6 Sites

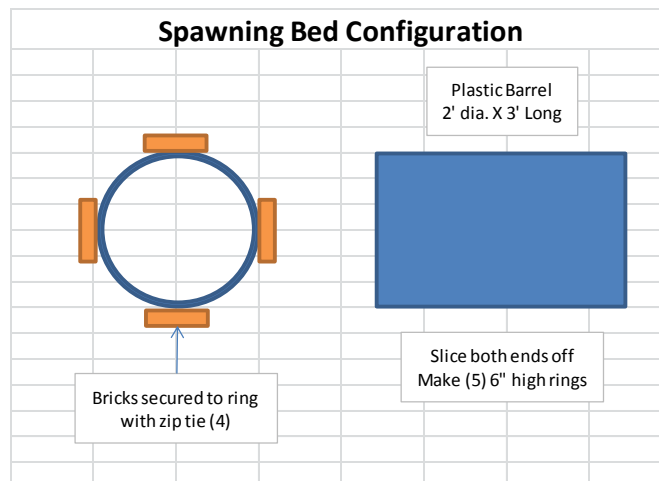
Component	Material		Labor (\$s) - (All In-Kind)				All Mat. & Labor (\$s)		Total
	In-Kind	Cash	LFSA (\$18)	TPWD (\$24)	Yantis HS (\$10)	Total	In-Kind	Cash	
Spawning Beds	\$ 144	\$ 208	\$ 634	\$ 576	\$ 336	\$ 1,546	\$ 1,690	\$ 208	\$ 1,898
Minnow Factory	\$ -	\$ 1,237	\$ 778	\$ 576	\$ 552	\$ 1,906	\$ 1,906	\$ 1,237	\$ 3,142
Habitat Protection Fence	\$ -	\$ 1,526	\$ 2,290	\$ 3,240	\$ 840	\$ 6,370	\$ 6,370	\$ 1,526	\$ 7,895
Small Grant Totals	\$ 144	\$ 2,971	\$ 3,701	\$ 4,392	\$ 1,728	\$ 9,821	\$ 9,965	\$ 2,971	\$ 12,935

Small Grant Labor Contributions

Component	Labor (hrs.) - (All In-Kind)			
	LFSA	TPWD	Yantis HS	Total
Spawning Beds	35	24	34	93
Minnow Factory	43	24	55	122
Habitat Protection Fence	127	135	84	346
Small Grant Totals	206	183	173	561

Values used for Small Grant Application

See Excel Spreadsheet for detailed component cost identification



ABI Fathead Minnow Fortress

Supplies and Instruction Manual



Supplies needed for one ABI Fathead Minnow Fortress

- One roll of hexagon shaped 2' x 25' (Tenax) poultry fence
- 4" cable/zip ties, about 50 needed
- 3/16" polypropylene rope
- One hack saw or sawsall
- One pair of scissors
- Two rolls of black electrical tape
- Five 4" x 10' tubes of corrugated drain tile
- Three masonry bricks
- Tape measure

***Most items shown can be found at your local home improvement retailer**



Habatat Protection Fence (HPF) Cost Estimate

11/29/18 ELS

Red Brand Welded Wire, 36 in. x 100 ft.



\$54.99

★★★★★ 4.9 (9) [Write a review](#) [View C](#)

Special Offer
 Online orders of this item receive free standard delivery, where applicable, to home or your local TSC store. Some exclusions apply. (Does not apply to oversized & some day deliveries.)
 -More Great Deals

Quantity
 - 1 +

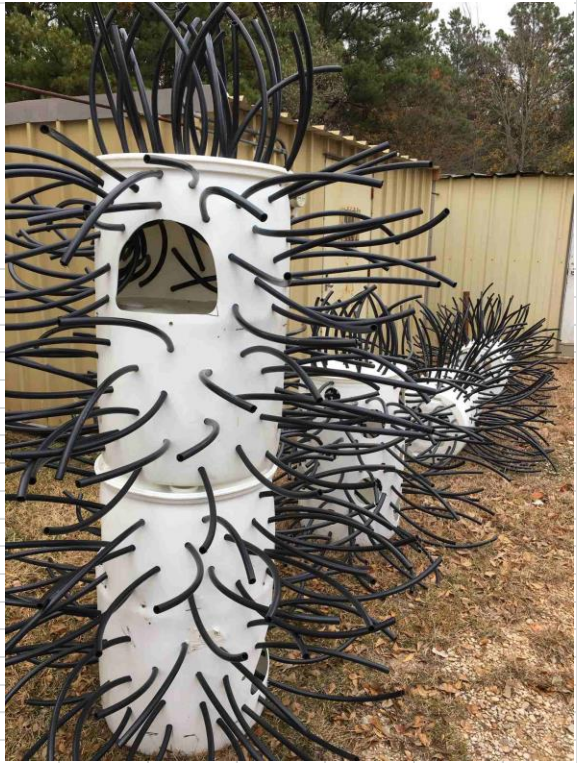
Pickup in Store
 ● Pickup in Store (Free)
 ● Stock at GREENVILLE, TX

Delivery Options for 75402
 ✕ Standard Delivery not Available

<ul style="list-style-type: none"> •One of the most versatile wire products made •Sturdy welds keep mesh spacing uniform and distortion free •Vertical wires are cut flush top and bottom to prevent snagging •Galvanized before welding for longer life •2 in. x 4 in. square 					
Description		3' Dia x 3' High	Description		3' Dia x 4' High
Height: 36 in.			Height: 48 in.		
Length: 100 ft.			Length: 100 ft.		
Mesh: 2 in. x 4 in.			Mesh: 2 in. x 4 in.		
Brand: Red Brand			Brand: Red Brand		
Product Type: Welded Wire			Product Type: Welded Wire		
Manufacturer Part Number 84066			Manufacturer Part Number 84066		
Wire Roll	54.99		Wire Roll	57.99	
Wire 10'/Hoop	5.50		Wire 10'/Hoop	5.80	
5' T Post (3)	3.19		6' T Post (3)	3.59	
Fence Clips (2)	4.59		Fence Clips (2)	4.59	
Top-3' Hoop	1.65		Top-4' Hoop	2.32	
Hoop Cost	25.90			28.07	
Hoops/Site	2			2	
Cost/Site	51.80			56.14	
Cost - 6 Sites	310.78			336.82	
Total Material Cost	1226.95				
Unidentified (15%)	<u>184.04</u>				
Total Cost Estimate	1410.99				
Hoops/Site	3			3	
Cost/Site	77.70			84.21	
Cost - 6 Sites	466.18			505.23	
Total Material Cost	1840.42				
Unidentified (15%)	<u>276.06</u>				
Total Cost Estimate	2116.49				
Hoops/Site	4			4	
Cost/Site	103.59			112.27	
Cost - 6 Sites	621.57			673.65	
Total Material Cost	2453.90				
Unidentified (15%)	<u>368.08</u>				
Total Cost Estimate	2821.98				
Description		3' Dia x 6' High	Description		3' Dia x 6' High
Height: 72 in.			Height: 72 in.		
Length: 100 ft.			Length: 100 ft.		
Mesh: 2 in. x 4 in.			Mesh: 2 in. x 4 in.		
Brand: Red Brand			Brand: Red Brand		
Product Type: Welded Wire			Product Type: Welded Wire		
Manufacturer Part Number 84066			Manufacturer Part Number 84066		
Wire Roll	129.99		Wire Roll	129.99	
Wire 10'/Hoop	13.00		Wire 10'/Hoop	13.00	
8' T Post (3)	6.10		8' T Post (3)	6.10	
Fence Clips (2)	4.59		Fence Clips (2)	4.59	
Top-6' Hoop	7.80		Top-6' Hoop	7.80	
Hoop Cost	48.28			48.28	
Hoops/Site	2			2	
Cost/Site	96.56			96.56	
Cost - 6 Sites	579.34			579.34	
Total Material Cost	1226.95				
Unidentified (15%)	<u>184.04</u>				
Total Cost Estimate	1410.99				

TPWD Attractor Project Cost Estimate

11/29/18 ELS



Barrels are containers for Pepsi Syrup and available for free with prior notice for pickup.



Rain Bird T63-500S Drip Irrigation 1/2" (.630" OD) Blank Distribution Tubing, 500' Roll, Black

by Rain Bird

★★★★☆ 372 customer reviews | 79 answered questions

Was: \$59.35

Price: **\$44.97** ✓prime

You Save: \$14.38 (24%)

Get \$70 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card.

Size: **500' Roll**

50' Roll

from 14 sellers

100' Roll

\$13.89

✓prime

500' Roll

\$44.97

✓prime

- Rugged, flexible tubing that's easy to unroll and stake in garden, flower bed, ground cover or other landscaped areas
- Professional-grade; won't clog and requires no maintenance. Tubing Diameter- 1/2 inch. Application-Hills/Slopes, On Surface, Sub-Surface
- Connects easily to your faucet, garden hose, or existing underground sprinkler head (with Rain Bird conversion kits)
- Extra flexibility for kink-free installation, unmatched resistance to chemicals, algae growth and UV damage
- Self-dispensing coil reduces layout time and speeds installation
- Unique Micro-Porous design creates an ultra-tight connection to fittings
- Connect in any arrangement using Rain Bird 1/2" universal barbed or Easy Fit compression fittings and stakes (sold separately)

500' Roll	\$	45.00
3 Attractors/Roll	\$	15.00
Cost/Barrel	\$	15.00
# of Barrels		220
Total Material Costs	\$	3,300.00
Tools & Unidentified	\$	200.00
	\$	<u>3,500.00</u>