

## 25 Year Plan

- Areas of Focus: Chipman’s Cove (the Cove), Duck Creek, Loagy Bay, Blackfish Creek
- Pilot project years 1 - 5

### Budget

Year	Plan Outline
1	<p>Plan: heavily cultch 4 acres of Loagy Bay, close for 2-3 years</p> <p>Materials and estimated costs for year 1:</p> <ul style="list-style-type: none"> <li>• Cultch: 8 loads (\$1,000 per load) <ul style="list-style-type: none"> <li>○ <b>\$8,000</b></li> </ul> </li> <li>• Oyster Seed: 100k pieces, size R12 (\$54 per 1,000) <ul style="list-style-type: none"> <li>○ <b>\$5,400</b></li> </ul> </li> <li>• Oyster Spawning Stock: 40k legal oysters from farmers (\$0.45/piece) <ul style="list-style-type: none"> <li>○ <b>\$18,000</b></li> </ul> </li> <li>• Upweller: 1 (~12,000 each) <ul style="list-style-type: none"> <li>○ <b>\$12,000</b></li> </ul> </li> <li>• Quahog Seed: <ul style="list-style-type: none"> <li>○ 100k pieces, size R 3/4 or largest available (\$67 per 1,000) <ul style="list-style-type: none"> <li>○ <b>\$6,700</b></li> </ul> </li> <li>○ 1 million pieces, size 1.5-2 mm (\$14 per 1,000)</li> <li>○ This will go into the upweller with 60% survivability</li> <li>○ It will be ~3 years before we will get full N value per piece (before they can be harvested)</li> <li>○ These will be planted on town grant in fall at high density pre-commercial harvest relaying to grow out-site <ul style="list-style-type: none"> <li>○ <b>\$14,000</b></li> </ul> </li> </ul> </li> <li>• Quahog Spawning Stock: 200 bushels of contaminated quahog (\$26 per bushel) <ul style="list-style-type: none"> <li>○ <b>\$5,200</b></li> </ul> </li> <li>• Physical gear, rebar, netting, U-hooks, etc (\$600) <ul style="list-style-type: none"> <li>○ <b>\$600</b></li> </ul> </li> <li>• Employee (Get reporting expectations/time requirements from Scott) <ul style="list-style-type: none"> <li>○ Will need an employee to assist with upweller - likely part-time to start, will depend on monitoring/reporting requirements, etc</li> </ul> </li> </ul> <p>Total Expected Cost: <b>\$69,900</b>  Expected Landings:  Expected N Attenuation:</p>

2

Plan: heavily cultch Duck Creek, close for 2-3 years, increase quahog input for the Loagy Bay

Materials and estimated costs for year 2:

- Cultch: 5 loads (\$1,000 per load)
  - \$5,000
- Oyster Seed: 100k pieces, size R8, purchasing to allow to grow, will use in year 3 as spawning stock (\$41 per 1,000)
  - \$4,100
- Oyster Spawning Stock: Will use oyster seed from year one
  - \$0
- Quahog Seed:
  - 1 million pieces, size 1.5-2 mm (\$14 per 1,000)
  - This will go into the upweller with 60% survivability
  - It will be ~3 years before we will get full N value per piece (before they can be harvested)
  - These will be planted on town grant in fall at high density pre-commercial harvest relaying to grow out-site
  - Will distribute 500,000 in the Cove 100,000 in Duck Creek from year 2 upweller seed
  - \$14,000
- Physical gear, rebar, netting, U-hooks, etc (\$600)
  - \$600
- Spawning Stock: will come from contaminated relay (100 bushels, \$27 per bushel)
  - \$2,700
- Employee

Total Expected Cost: \$26,400

Expected Landings:

Expected N Attenuation:

3

Cultch ~1 acre of the Cove; close for 2-3 years  
Deploy normal amounts of cultch in the Cove per normal operating procedures (8-10 strips)

Materials and estimated costs for year 3:

- Cultch: 2 loads (\$1,000 per load)
  - \$2,000
- Oyster Seed: 100k pieces, size R8, purchasing to allow to grow, will use in year 4 as spawning stock (\$41 per 1,000)
  - \$4,100
- Oyster Spawning Stock: Will use oyster seed from year 2
  - \$0
- Quahog Seed:
  - 1 million pieces, size 1.5-2 mm (\$14 per 1,000)
  - This will go into the upweller with 60% survivability
  - It will be ~3 years before we will get full N value per piece (before they can be harvested)
  - These will be planted on town grant in fall at high density pre-commercial harvest relaying to grow out-site
  - Will distribute 500,000 in the Cove 100,000 in Duck Creek from year 2 upweller seed
  - \$14,000
- Physical gear, rebar, netting, U-hooks, etc (\$300)
  - \$300
- Spawning Stock: will come from contaminated relay (100 bushels, \$28 per bushel)
  - \$2,800
- Employee

Total Expected Cost: \$23,200

Expected Landings:

Expected N Attenuation:

4

Blackfish Creek, close 2-3 years (4 acres); Harvest Duck Creek

Materials and estimated costs for year 4:

- Cultch: 10 loads of cultch
  - \$10,000
- Oyster Seed: 100k pieces, size R12 (\$54 per 1,000)
  - \$5,400
- Spawning Stock: Will use oyster seed from year 3
  - \$0
  - And 40,000 from farmers at 50c/piece
  - \$20,000
- Quahog Seed:
  - 1 million pieces, size 1.5-2 mm (\$14 per 1,000)
  - This will go into the upweller with 60% survivability
  - It will be ~3 years before we will get full N value per piece (before they can be harvested)
  - These will be planted on town grant in fall at high density pre-commercial harvest relaying to grow out-site
  - Distribute 600,000 from year 3 to Blackfish Creek
  - \$14,000
- Spawning Stock: 200 bushels of contaminated quahog, (\$29 per bushel)
  - \$5,800
- Gear (\$600)
  - \$600
- Employee

Total Expected Cost: \$55,800

Expected Landings:

Expected N Attenuation:

5	<p>Harvest Blackfish Creek; Close Loagy Bay</p> <p>Materials Needed for Year 5:</p> <ul style="list-style-type: none"> <li>● Cultch: 8 loads <ul style="list-style-type: none"> <li>○ \$8,000</li> </ul> </li> <li>● Oyster Seed: 100k pieces, size R12 (\$54 per 1,000) <ul style="list-style-type: none"> <li>○ \$5,400</li> </ul> </li> <li>● Spawning Stock: Use oyster seed from year 2 <ul style="list-style-type: none"> <li>○ \$0</li> </ul> </li> <li>● Quahog Seed: <ul style="list-style-type: none"> <li>○ 1 million pieces, size 1.5-2 mm (\$14 per 1,000)</li> <li>○ This will go into the upweller with 60% survivability</li> <li>○ It will be ~3 years before we will get full N value per piece (before they can be harvested)</li> <li>○ These will be planted on town grant in fall at high density pre-commercial harvest relaying to grow out-site</li> <li>○ Distribute 600,000 from year 4 to Loagy Bay</li> <li>○ \$14,000</li> </ul> </li> <li>● Spawning Stock (quahog): 200 bushels of contaminated quahog (\$30 per bushel) <ul style="list-style-type: none"> <li>○ \$6,000</li> </ul> </li> <li>● Employee</li> </ul> <p>Total Expected Cost: \$33,400</p> <p><b>Total Expected Cost years 1-5: \$208,700</b></p> <p>Expected Landings:</p> <p>Expected N Attenuation:</p>
10	
15	
20	
25	

SIZE (mm)		PRICE (Per 1,000 SEED)			
Sieve Size (mm)	Size Range of Seed Actual Size in Millimeters (mm)	Quahog <i>M.Mercenaria</i>	Diploid Oyster <i>C.Virginica</i>	Triploid Oyster* Price includes 15% Triploid Royalty Fee	Surf clam <i>S.Solidissima</i>
R-1.5	2.0 – 3.2	\$13.40	\$11.60	\$13.35	\$12.40
R-2	3.2 – 4.2	\$16.00	\$13.40	\$15.41	\$15.50
R-3	4.2 – 5.3	\$18.55	\$18.55	\$21.33	\$17.50
R-4	5.3 – 8.0	\$23.20	\$24.20	\$27.83	\$22.70
R-6	8.0 – 11.0	\$28.85	\$32.00	\$36.80	\$26.80
R-8	11.0 – 16.4	\$38.00	\$40.20	\$46.23	—
R-12	15.0 – 20.0	\$53.50	\$53.50	\$61.53	—
R-3/4	20.0 – 25.0	\$67.00	\$67.00	\$77.05	—