

## **Appendix 2. 2009 Market Values of Hatchery Production**

Table 19. 2009 SHELLFISH LARVAE

Table 20. 2009 SHELLFISH SEED

Table 21. 2009 TWO-YEAR-OLD SHELLFISH SEED

Table 22. 1990-2009 NEW YORK STATE SEED

**Table 19. 2009 SHELLFISH LARVAE MARKET VALUE**

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**Commercial Value of all Marketable Shellfish Larvae Produced and Discarded by the East Hampton Town Shellfish Hatchery**  
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<u>Species</u>	<u>Number</u>	<u>~Size (µm)</u>	<u>Value</u>	<u>Reference</u>	<u>Total Value</u>
<b>Oyster Larvae</b>	240,000	>180	2.00/1000	SC (2009) 2.00/1000@ Eyed larvae	\$480
<b>Oyster Subtotal = \$480</b>					
<b>Clam Larvae</b>	80,000	>180	0.50/1000	ARC (1993) 0.50/1000@ 0.2-0.3mm	\$40
	20,000	>212	0.50/1000	ARC (1993) 0.50/1000@ 0.2-0.3mm	\$10
	100,000	>250	0.80/1000	ARC (1993) 0.80/1000@ 0.25-0.4mm	\$80
	900,000	>300	0.80/1000	ARC (1993) 0.80/1000@ 0.25-0.4mm	\$720
	1,280,000	>425	4.00/1000	NAC (2008) 4.00/1000@ 0.5-1.4mm	\$5,120
	210,000	>600	4.00/1000	NAC (2008) 4.00/1000@ 0.5-1.4mm	\$840
<b>Clam Subtotal =\$6,810</b>					

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**Total Market Value of 2009 Shellfish Larval Production Discards = \$7,290**

**References**

Aquacultural Research Corporation (ARC), Dennis, MA. 1993 Shellfish Seed Price List

The Noank Aquaculture Cooperative (NAC), Noank, CT, Southold, NY. 2008 Shellfish Seed Price List

Sargent's Cove Oyster Hatchery (SC), Darien, CT. 2009 Shellfish Seed Price List

**Table 20. 2009 SHELLFISH SEED MARKET VALUE**

<b>Commercial Value of all Shellfish Seed (not including larvae) Produced and Disseminated by the East Hampton Town Shellfish Hatchery, Including Seed Planting Costs</b>					
<b>Species</b>	<b>Number</b>	<b>Size (mm)</b>	<b>Value</b>	<b>Reference</b>	<b>Total Value</b>
<b>Oyster Seed</b>	575,000	±2	5.25/1000	NAC (2008) 5.25/1000@ 1.5-2.0mm	\$3,019
	263,424	±21	42.00/1000	Flower (2009) 42.00/1000@ 20.1-25.0mm	\$11,063
	410,112	5-20	22.25/1000	TOI (2008) 14-32.00/1000@ 5.1-25.0mm	\$9,125
	240,273	17-42	56.00/1000	Flower (2009) 37.5-81.00/1000@ 16.1-45.0mm	\$13,455
	2,162,584	20-53	73.50/1000	Flower (2009) 42.00-81.00/1000@ 20.1-45.0mm	\$158,950
Seeding & Handling	3,651,393	all	2.00/1000	Peterson et al. (1996)	\$7,303
<b>Oyster Subtotal:</b>					<b>\$202,915</b>
<b>Clam Seed</b>	1,095,000	1.0	4.50/1000	MPSF (2009) 4.50/1000@ 1.0mm	\$4,928
	863,520	4-9	16.00/1000	NAC (2008) 12.00-20.00/1000@ 4.1-10mm	\$13,816
	1,712,912	7-14	39.25/1000	Flower (2009) 30-49.50/1000@ 6.1-16.0mm	\$67,232
	1,027,324	10-17	50.75/1000	Flower (2009) 38.25-49.50/1000@ 8.1-16.0mm	\$52,137
	1,623,975	8-21	55.57/1000	Flower (2009) 38.25-49.50/1000@ 8.1-16.0mm	\$90,244
Seeding & Handling	6,322,731	all	2.00/1000	Peterson et al.(1996)	\$12,645
<b>Clam Subtotal:</b>					<b>\$241,002</b>
<b>Scallop Seed</b>	1,800,000	0.1-0.6	5.50/1000	NAC (2008) 7.00/1000@ 0.5-1.4mm	\$9,900
	500,000	1.5-2.0	11.25/1000	NAC (2008) 11.25/1000@ 1.5-2.0 mm	\$5,625
	73,225	5-12	21.83/1000	Flower (2006) 21-30.00/1000@ 6-16mm	\$1,599
	372,824	±30	45.00/1000	Flower (2006) 45.00/1000@ 30.1-35.0mm	\$16,777
Seeding & Handling	2,746,049	all	2.00/1000	Peterson et al. (1996)	\$5,492
<b>Scallop Subtotal:</b>					<b>\$39,393</b>
<b>Total Market Value of 2009 Shellfish Seed Production and Distribution:</b>					<b>\$483,310</b>

## **References**

Frank M. Flower & Sons (Flower), Oyster Bay, NY. 2006, 2009 Shellfish Seed Price Lists

Marshall Point Sea Farm (MPSF), LLC, Port Clyde, ME. 2009 Shellfish Seed Price List

The Noank Aquaculture Cooperative (NAC), Noank, CT, Southold, NY. 2008 Shellfish Seed Price List

Peterson, C.H., H.C. Summerson & J. Huber. 1996. Replenishment of Hard Clam Stocks Using Hatchery Seed: Combined Importance of Bottom Type, Seed Size, Planting Season and Density. *Journal of Shellfish Research*. 14(2): pp 293-300.

Town of Islip Shellfish Culture Facility (TOI), Islip, NY. 2008 Shellfish Seed Price List

**Table 21. 2009 TWO-YEAR-OLD SHELLFISH SEED MARKET VALUE**

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**Commercial Value of all Shellfish Seed Overwintered (2008/2009) and Seeded (2009) by the  
 East Hampton Town Shellfish Hatchery, Including Seed Planting Costs**  
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<b>Species</b>	<b>Number</b>	<b>Size (mm)</b>	<b>Value</b>	<b>Reference</b>	<b>Total Value</b>
<b>Scallop Seed</b>	239,830	35-47	55.00/1000	NAC (2007) 45.00/1000@ 30.1-35 mm	\$13,191
Seeding & Handling	239,830	all	2.00/1000	Peterson et al. (1996)	\$480
<b>Scallop Subtotal:</b>					<b>\$13,671</b>

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**Total Market Value of 2009 Two-Year-Old Shellfish  
 Seed Production and Distribution: \$13,671\***

\*All two-year-old seed has been previously valued in its original year of production

**References**

The Noank Aquaculture Cooperative (NAC), Noank, CT/ Southold, NY. 2007 Shellfish Seed Price List

Peterson, C.H., H.C. Summerson & J. Huber. 1996. Replenishment of Hard Clam Stocks Using Hatchery Seed: Combined Importance of Bottom Type, Seed Size, Planting Season and Density. Journal of Shellfish Research. 14(2): pp 293-300.

**Table 22. 1990-2009 Market Value of Shellfish Seed  
Distributed into New York State Waters**

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**Commercial Value of all Shellfish Seed Disbursed Outside East Hampton Town Waters as per  
 \$164,000 Capital Grant Agreement between East Hampton Town and the NYSDEC**  
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<b>Species</b>	<b>Year</b>	<b>Number</b>	<b>Size</b>	<b>Value</b>	<b>Reference</b>	<b>Total Value</b>	
<b>Oyster Seed</b>	1990	No Oysters Produced					
	1991	50,000	40-50mm	50.00/1000	Shinnecock (1989) 50.00/1000@30-40mm	\$2,500	
	1992	100,000	40-50mm	50.00/1000	Shinnecock (1989) 50.00/1000@30-40mm	\$5,000	
	1993	200,000	25-50mm	40.00/1000	ARC (1993) 35.00/1000@16-25mm	\$8,000	
	1994	150,000	25-50mm	40.00/1000	ARC (1993) 35.00/1000@16-25mm	\$6,000	
	1995	190,000	25-50mm	40.00/1000	ARC (1993) 35.00/1000@16-25mm	\$7,600	
	1996	115,000	90,000 (25-40mm)	@40.00/1000	ARC (1996) 35.00/1000@16-25		
			25,000 (15-25mm)	@35.00/1000	ARC (1996) 35.00/1000@16-25	\$4,475	
	1997	245,000	30,000 (20-34mm)	@40.00/1000	ARC (1997) 35.00/1000@16-25mm	\$8,725	
			215,000 (15-25mm)	@35.00/1000	ARC (1997) 35.00/1000@16-25mm		
	1998	120,000	20-34mm	40.00/1000	ARC (1997) 35.00/1000@16-25mm	\$4,800	
	1999	150,000	30-50mm	45.00/1000	ARC (1997) 35.00/1000@16-25mm	\$6,750	
	2000	144,000	30-45mm	45.00/1000	ARC (1997) 35.00/1000@16-25mm	\$6,480	
	2001	278,000	25-40mm	45.00/1000	ARC (1997) 35.00/1000@16-25mm	\$12,510	
	2002	284,000	22-43mm	45.00/1000	ARC (1997) 35.00/1000@16-25mm	\$12,780	
	2003	278,000	22-45mm	45.00/1000	Aeros (2002) 45.00/1000@ 35-40mm	\$12,510	
	2004	No Oysters to NYS					
	2005	No Oysters to NYS					
	2006	No Oysters to NYS					
	2007	49,300	34,600 (22-36mm)	@35.28/1000	Flower (2007) 28-46.00/1000@ 20.1-40.0mm	\$1,763	
		14,700 (22-40mm)	@36.88/1000				
2008	125,380	27,480 (28-37mm)	@58.50/1000	Flower (2008) 49.50-81.00/1000@ 25.1-45.0mm	\$9,097		
		97,900 (32-49mm)	@76.50/1000				
2009	135,612	20-53mm	73.50/1000	Flower (2009) 42.00-81.00/1000@ 20.1-45.0mm	\$9,967		
						<b>Oyster Subtotal: \$118,957</b>	

<b>Species</b>	<b>Year</b>	<b>Number</b>	<b>Size</b>	<b>Value</b>	<b>Reference</b>	<b>Total Value</b>	
<b>Clam Seed</b>	1990	25,000	12-15mm	17.00/1000	Shinnecock (1990) 17.00/1000@12-15	\$425	
	1991	400,000	8-10mm	16.00/1000	Shinnecock (1991) 15.00/1000@6.0-10mm	\$6,400	
	1992	1,600,000	8-10mm	16.00/1000	Shinnecock (1991) 15.00/1000@6.0-10mm	\$25,600	
	1993	800,000	8-18mm	30.00/1000	ARC (1993) 26.00/1000@8-11mm	\$24,000	
	1994	301,000	8-18mm	30.00/1000	ARC (1993) 26.00/1000@8-11mm	\$9,030	
	1995	400,000	10-15mm	30.00/1000	ARC (1996) 30.00/1000@8-16mm	\$12,000	
	1996	1,000,000	10-14mm(200,000)@30.00/1000 6-10mm(800,000)@23.00/1000		30.00/1000	ARC (1996) 30.00/1000@8-16mm	\$24,400
						ARC (1997) 22.00/1000@5.8mm	
	1997	1,025,000	9-22mm(450,000)@30.00/1000 2-9mm(575,000)@15.00/1000		30.00/1000	ARC (1996) 30.00/1000@8-16.4mm	\$22,125
						F.M.Flower (1996) 11.00/1000@3mm ARC (1997) 22.00/1000@5.3-8mm	
	1998	740,000	7-12mm(84,000)@26.00/1000 6-9mm(656,000)@23.00/1000		26.00/1000	ARC (1997) 26.00/1000@8-11mm	\$17,272
						ARC (1997) 22.00/1000@5-8mm	
	1999	270,000	10-20mm		37.00/1000	ARC (1997) 34.00/1000@ 8-16.4mm	\$9,990
	2000	No clams produced					
	2001	660,000	10-13mm		27.00/1000	ARC (1997) 30.00/1000@8-11mm	\$19,800
	2002	70,000	3-4mm		13.00/1000	Flower (1998) 13.00/1000@ 4mm	\$910
		506,000	8-12mm		22.00/1000	Aeros (2002) 24.00/1000@ 10-12mm	\$11,132
		88,000	9-11mm		24.00/1000	Aeros (2002) 24.00/1000@ 10-12mm	\$2,112
		128,000	9-15mm		24.00/1000	Aeros (2002) 24.00/1000@ 10-12mm	\$3,072
		104,000	10-13mm		25.00/1000	Aeros (2002) 24.00/1000@ 10-12mm	\$2,600
	2003	681,300	10-19mm 10-22mm		28.00/1000 29.00/1000	Aeros (2002) 28.00/1000@ 12-16mm	\$19,758
						Aeros (2002) 28.00/1000@ 12-16mm	
	2004	No Clams to NYS					
	2005	No Clams to NYS					
	2006	No Clams to NYS					

2007	1,757,900	5-7mm (1,380,000) @ 20.00/1000	MBAq (2004)	\$38,654
		9-14mm (377,900) @ 29.25/1000	Flower (2007)	
			20.00/1000@ 4-5mm	
			25.50-33.00/1000@ 8.1-16.0mm	
2008	276,156	10-16mm 35.00/1000	MBAq (2004)	\$9,665
			35.00/1000@ 9-13mm	
2009	624,428	7-14mm (551,008)@ 39.25/1000	Flower (2009)	\$26,485
		13-23mm (73,420)@ 66.17/1000	Flower (2009)	
			30-49.50/1000@ 6.1-16.0mm	
			49.50/1000@ 12.1-16.0mm	
<b>Clam Subtotal:</b>				<b>\$287, 467</b>

<u>Species</u>	<u>Year</u>	<u>Number</u>	<u>Size</u>	<u>Value</u>	<u>Reference</u>	<u>Total Value</u>
<b>Scallop</b>	1990	No Scallops	Produced			
<b>Seed</b>	1991	No Scallops	Produced			
	1992	20,000	22-28mm	43.00/1000	Clam Farm (1991)	\$860
					42.00/1000@25mm	
	1993	67,000	15-40mm	50.00/1000	Clam Farm (1991)	\$3,350
					50.00/1000@30mm	
	1994	242,000	20-40mm	50.00/1000	“	\$12,100
	1995	80,000	20-40mm	50.00/1000	“	\$4,000
	1996	106,500	25-35mm (95,500)@46.75/1000		Clam Farm (1991)	
					46.00/1000@25-50mm	
					Shinnecock (1992)	
					47.50/1000@20-40mm	
			15-25mm (11,000)@38.25/1000		Clam Farm (1991)	\$4,886
					34.50/1000@16-25mm	
					Shinnecock (1992)	
					42.00/1000@15-30mm	
	1997	87,000	27-42mm (26,000)@50.00/1000		Clam Farm (1991)	\$4,320
					50.00/1000@30mm	
			17-40mm (49,000)@50.00/1000		“	
			20-38mm (12,000)@47.50/1000		Shinnecock (1992)	
					47.50/1000@20-40mm	
	1998	21,000	27-42mm(14,000) 50.00/1000		Clam Farm (1991)	\$1,015
					50.00/1000@30mm	
			15-30mm (7,000)45.00/1000		Shinnecock(1992)	
					45.00/1000@20-30mm	
	1999	36,800	36-60mm	55.00/1000	Shinnecock(1992)	\$2,024
					50.00/1000@30-40mm	
	2000	12,600	35-52mm	55.00/1000	Shinnecock(1992)	\$693
					50.00/1000@30-40mm	
	2001	No Scallops	to NYS			
	2002	7,200	32-60mm	55.00/1000	Shinnecock(1992)	\$396

2003	12,000	30-52mm	55.00/1000	50.00/1000@30-40mm Shinnecock(1992)	\$660
2004	160,000	19-44mm (29,000)@50.00/1000 35-55mm (131,000)@55.00/1000		F.M. Flower (2004)	\$8,655
2005	160,000	30-49mm	52.50/1000	45.00/1000@ 30.1-35 mm Flower (2005)	\$8,400
2006	160,000	32-39mm	47.50/1000	45.00/1000@ 30.1-35 mm Flower (2006)	\$7,600
2007	120,000	3-5mm (100,000) @17.50/1000 25-40mm (20,000) @45.00/1000		45.00/1000@ 30.1-35 mm NAC (2007) 17-19.00/1000@ 3.1-6.0mm Flower (2006) 40-45.00/1000@ 25.1-35.0mm	\$2,650
2008	70,000	6-13mm	25.00/1000	NAC (2007) 21-30.00/1000@ 6-16mm	\$1,750
2009	542,000	1.5-2mm (500,000) @ 11.25/1000 6-12mm (42,000) @ 24.00/1000		NAC (2008) 11.25/1000@ 1.5-2.0mm NAC (2007) 21-27.00/1000@ 6.1-12mm	\$6,633
				<b>Scallop Subtotal:</b>	<b>\$69,992</b>

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**Total Market Value of Shellfish Seed to New York State, 1990-2009: \$476,416**

### References

Aeros Cultured Oyster Company, Southold, NY. 2002 & 2003 Shellfish Seed Price

Aquaculture Research Corporation (ARC), Dennis, MA. 1993, 1996 & 1997 Shellfish Seed Price List.

The Clam Farm, Fishers Island, NY. 1991 Shellfish Seed Price List

Frank M. Flower & Sons (Flower), Oyster Bay, NY. 1996, 1998, 2004, 2005, 2006, 2007, 2008 & 2009 Shellfish Seed Price Lists

Muscongus Bay Aquaculture (MBAq), Inc., Bremen, ME. 2004 Shellfish Seed Price List

The Noank Aquaculture Cooperative (NAC), Noank, CT, Southold, NY. 2007, 2008 Shellfish Seed Price List

The Shinnecock Tribal Oyster Project, Southampton, NY. 1989, 1990, 1991 & 1992 Shellfish Seed Price Lists.