Report III

Tabular Report

RFR #: ENV 06 CZM 09

Massachusetts Office of Coastal Zone Management

(CZM)



Presented by

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TABULAR REPORT

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OVERVIEW OF TABLES IN THIS REPORT

The tables in this report are the final tables used for economic impact analysis and sector discussions presented in *Report I An Assessment of the Coastal and Marine Economies in Massachusetts*; *RFR* #: *ENV 06 CZM 09*.

ORIGINAL ES-202 DATA

The tables in this section contain the final set of ES-202 data used in the analysis. These numbers were adjusted for the model using allocation formulas as described in Appendix 2 Methodology: Industry Code Conversion and Allocation Formulas.

Marine Industry, Massachusetts, 2004 – before allocation

NAICS Code	NAICS Title	Firms	Estab- lishments	Employ- ment	Wage
11251	Animal Aquaculture	10	10	52	\$2,586,559
114111	Finfish Fishing	208	248	897	\$41,381,249
114112	Shellfish Fishing	147	170	803	\$64,212,641
114119	Other Marine Fishing	3	3	0	\$22,000
237990	Other Heavy Construction	104	143	919	\$49,636,280
311711	Seafood Canning	6	7	118	\$4,376,717
311712	Fresh and Frozen Seafood Processing	47	51	2,311	\$91,240,549
325510	Paint and Coating Manufacturing	25	25	692	\$39,606,107
326199	All Other Plastics Product Manufacturing	174	191	8,333	\$357,268,940
333120	Construction Machinery Manufacturing	7	7	127	\$4,809,189
33361	Engine, Power, and Turbine Manufacturing	25	29	1,339	\$68,075,807
334511	Search, Detection & Navigation Instrument	33	36	4,974	\$440,123,892
334519	Other Measuring and Controlling Devices	59	62	2,395	\$161,547,191
336399	All Other Motor Vehicle Parts Mfg	9	9	94	\$3,669,419
336611	Ship Building and Repairing	8	13	195	\$8,155,194
336612	Boat Building	31	38	250	\$8,788,168
423860	Transportation Equipment Supplies (except motor vehicle) merchant wholesalers	31	34	303	\$22,766,075
424460	Fish and Seafood Merchant Wholesalers	159	179	2,100	\$100,204,635
441222	Boat Dealers	104	122	1,128	\$43,373,713
445220	Fish and Seafood Markets	127	154	916	\$24,141,879
454390	Other Direct Selling Establishments	61	72	580	\$21,067,920
48311	Deep Sea, Coastal, and Water Lakes Transportation	28	28	870	\$55,398,557
483211	Inland Water Freight Transportation	7	8	18	\$504,717
483212	Inland Water Passenger Transportation	6	7	13	\$255,836
487110	Scenic/Sightseeing Transportation, Land	21	33	704	\$20,689,866
487210	Scenic/Sightseeing Transportation, Water	48	60	736	\$14,383,648
4883	Support Activities for Water Transport	44	54	411	\$16,708,053
531210	Offices of Real Estate Agents & Brokers	1,895	2,419	10,161	\$658,385,436
531311	Residential Property Managers	559	880	6,557	\$269,763,396
531312	Nonresidential Property Managers	322	420	3,715	\$259,540,882
531320	Offices of Real Estate Appraisers	202	220	687	\$38,516,529
531390	Other Activities Related to Real Estate	124	150	303	\$26,702,111
532292	Recreational Goods Rental	30	45	165	\$3,352,584
532411	Transportation Equipment Rental/Leasing	14	18	67	\$7,347,938
541330	Engineering Services	1,364	1,662	22,252	\$1,747,872,179
541370	Other Surveying and Mapping Services	198	224	1,379	\$65,037,469
541710	Physical/Engineering/Biological	847	1,057	36,284	\$3,292,036,302

	Research				
561599	All Other Travel Arrangement Services	62	110	1,837	\$71,644,499
611620	Sports and Recreation Instruction	266	314	1,754	\$31,379,295
611699	Miscellaneous Schools and Instruction	131	173	1,181	\$41,294,693
711110	Theater Companies and Dinner Theaters	91	116	1,832	\$49,283,057
711190	Other Performing Arts Companies	16	20	50	\$1,523,508
71121	Spectator Sports	70	88	2,366	\$429,896,133
711320	Promoters without Facilities	58	83	316	\$15,954,421
713920	Skiing Facilities	14	16	1,110	\$17,077,236
713930	Marinas	145	168	1,561	\$56,212,235
713940	Fitness and Recreational Sports Centers	882	1,061	16,238	\$249,535,594
713990	All Other Amusement and Recreation Industries	473	564	7,184	\$143,741,556
7211	Traveler Accommodation	840	1,035	31,506	\$858,756,472
721211	RV Parks and Campgrounds	52	65	456	\$8,423,383
721214	Recreational and Vacation Camps	48	76	580	\$14,563,781
721310	Rooming and Boarding Houses	60	73	612	\$12,230,360
722110	Full-Service Restaurants	4,483	5,446	106,862	\$1,770,584,501
722211	Limited-Service Restaurants	3,158	4,588	48,500	\$660,722,451
722212	Cafeterias	43	64	1,268	\$25,768,090
722213	Snack and Nonalcoholic Beverage Bars	1,223	1,762	26,390	\$376,123,427
722310	Food Service Contractors	105	714	14,405	\$290,331,314
722320	Caterers	277	512	5,576	\$104,006,135
722410	Drinking Places (Alcoholic Beverages)	960	1,080	8,683	\$116,510,453
812220	Cemeteries and Crematories	103	110	782	\$27,168,699
813990	Other Similar Organizations	193	241	784	\$22,070,351
924110	Air, Water and Waste Program Admin	19	28	3,268	\$213,541,624
	OTHER CATEGORY TOTAL	29	46	1,482	\$32,639,252
		20,888	27,441	399,431	\$13,674,532,14
					7

OTHER CATEGORY INCLUDES:

712190	Nature Parks & Other Similar Institution
713110	Amusement and Theme Parks
7132	Gambling Industries
487990	Scenic/Sightseeing Transportation, Other

Marine Industry, Massachusetts Coastal Zone, 2004 – before allocation

NAICS	NAICS Title	Firms	Establish-	Employment	Wage
Code 11251	Animal Aquaculture		ments		
	·	9	9	47	2,390,192
114111	Finfish Fishing	204	242	886	40,983,122
114112	Shellfish Fishing	142	163	787	63,245,865
237990	Other Heavy Construction	142			
311712	Fresh and Frozen Seafood Processing	41	59	404	23,955,620
	_	44	46	2,259	88,196,573
325510	Paint and Coating Manufacturing	8	8	181	9,781,704
326199	All Other Plastics Product Manufacturing	26	31	1,340	53,201,045
334511	Search, Detection & Navigation				
334519	Instruments Other Measuring and Controlling	10	11	542	37,535,944
336399	Devices All Other Motor Vehicle Parts Mfg	12	12	164	11,616,688
	_	4	4	75	2,757,199
336612	Boat Building	27	33	194	7,208,858
424460	Fish and Seafood Merchant Wholesalers	129	145	1,754	83,124,396
441222	Boat Dealers				
445220	Fish and Seafood Markets	82	87	772	31,042,232
454390	Other Direct Selling Establishments	89	109	586	16,641,229
	, and the second	21	17	129	2,493,784
483211	Inland Water Freight Transportation	5	6	13	309,824
483212	Inland Water Passenger Transportation	6	7	14	255,836
487110	Scenic/Sightseeing Transportation, Land	_	22		
487210	Scenic/Sightseeing Transportation,	18	23	472	13,786,626
4883	Water Support Activities for Water Transport	47	58	723	13,968,529
531210		41	49	400	16,353,497
	Offices of Real Estate Agents & Brokers	800	985	5,025	400,384,476
531311	Residential Property Managers	277	371	3,578	151,562,415
531312	Nonresidential Property Managers				
531320	Offices of Real Estate Appraisers	140	161	1,517	122,809,332
531390	Other Activities Related to Real Estate	74	79	236	15,425,300
		47	60	142	15,286,369
532292	Recreational Goods Rental	21	35	87	2,059,431
532411	Transportation Equipment Rental/Leasing	7	10	58	6,771,009
541330	Engineering Services				
541370	Other Surveying and Mapping Services	375	436	5,333	389,268,453

		74	81	628	31,587,845
541710	Physical/Engineering/Biological	74	01	020	31,367,645
	Research	173	216	8,027	495,334,704
561599	All Other Travel Arrangement Services	38	45	710	26,063,628
611620	Sports and Recreation Instruction	72	86	491	8,659,321
611699	Miscellaneous Schools and Instruction	44	53	527	20,634,907
711110	Theater Companies and Dinner Theaters	43	52	1,242	36,049,829
711190	Other Performing Arts Companies	4	7	11	270,022
711320	Promoters without Facilities	22	29	212	12,429,491
713930	Marinas	135	154	1,514	55,097,974
713940	Fitness and Recreational Sports Centers	312	363	6,045	99,075,908
713990	All Other Amusement and Recreation	158	198	2,724	57,635,621
721110	Hotels (except Casino Hotels) and Motels	373	435	16,030	476,169,093
721211	RV Parks and Campgrounds	24	29	188	4,461,234
721214	Recreational and Vacation Camps	17	30	241	5,517,002
721310	Rooming and Boarding Houses	34	43	232	4,820,131
722110	Full-Service Restaurants	2,097	2,359	46,240	832,422,368
722211	Limited-Service Restaurants	1,435	1,814	18,242	259,547,588
722212	Cafeterias	24	24	414	6,695,904
722213	Snack and Nonalcoholic Beverage Bars	549	769	10,240	152,609,739
722310	Food Service Contractors	104	232	5,738	120,686,377
722320	Caterers	138	177	2,072	38,357,842
722410	Drinking Places (Alcoholic Beverages)	389	444	4,553	65,904,290
812220	Cemeteries and Crematories	35	39	310	12,276,997
813990	Other Similar Organizations	81	105	373	9,709,379
423860	Other Transport Goods Merchant Whsle	12	13	187	11,072,879
48311	Sea, Coastal & Great Lakes Transport	20	20	851	54,268,763
	other total	49	63	3,396	200,833,993
		9,153	11,127	159,109	4,718,218,185
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OTHER COASTAL DATA INCLUDES:

OTTILITY	DASTAL DATA INCLUDES.
487990	Scenic/Sightseeing Transportation,
	Other
712190	Nature Parks & Other Similar Institution
713110	Amusement and Theme Parks
7132	Gambling Industries
713920	Skiing Facilities



924110	Air, Water and Waste Program Admin
114119	Other Marine Fishing
333120	Construction Machinery Manufacturing
336611	Ship Building and Repairing
311711	Seafood Canning
711219	Other Spectator Sports

ADJUSTED DATA TABLES USED IN ANALYSIS

Marine Industry, Massachusetts and Coastal Zone

State, MA, 2004, Marine Industry

2002 NAICC				Wages per
2002 NAICS	Establishments	Employment	Wages	Employee
Commercial Seafood Industries:	1,110	11,270	\$509,727,058	\$45,227
Commercial Seafood Industries (ES-202 2004)	1,110	7,661	\$338,330,058	\$44,160
Commercial Seafood Industries (Nonemployer 2003)	n/a	3,609	\$171,397,000	\$47,492
Marine Transportation	171	2,099	\$92,835,244	\$44,230
Coastal Tourism and Recreation	7,640	119,420	\$2,338,200,556	\$19,580
Marine Science and Technology	184	5,055	\$418,699,680	\$82,821
Marine-Related Infrastructure	1,851	14,596	\$948,937,697	\$65,013
Total Marine Industry	10,955	152,441	\$4,308,400,235	\$28,263

Source: Mass. Division of Unemployment Assistance (Mass. DUA), ES-202, 2004; Mass. Division of Fisheries, Shellfish Sanitation Management Project

Coast, MA, 2004, Marine Industry

· ·	2004, Marine maas			Wages per
2002 NAICS	Establishments	Employment	Wages	Employee
Commercial Seafood Industries	979	6,594	\$296,954,695	\$45,031
Commercial Seafood Industries (ES-202 2004 and MA DMF)	979	6,594	\$296,954,695	\$45,031
Commercial Seafood Industries (Nonemployer 2003) Numbers are for the state, not for the Coast. Hence they are not included in totals	n/a	3,609	\$171,397,000	\$47,492
Marine Transportation	148	2,045	\$90,302,416	\$44,156
Coastal Tourism and Recreation	7,640	119,420	\$2,338,200,556	\$19,580
Marine Science, Technology and Education	66	1,120	\$65,062,330	\$58,067
Marine-Related Infrastructure	1,809	11,246	\$731,287,167	\$65,029
Total Marine Industry, Coast	10,642	140,426	3,521,807,164	\$25,080

Other* Coast:	63	3,396	\$200,833,993	\$59,138.40
Source: Mass. DUA, ES-202, 2004				
* See Appendix-Industry Code Conversion and Allocation Formulas				



Marine Industry by Major Sector, Massachusetts

Massachusetts Marine Industry by NAICS, 2004

2002 NAICS	Description	Establ	Empl	Wages
	Total Marine in Massachusetts	10,955		\$4,308,400,235
Commercia	al Seafood Industries	1,110	11,270	\$509,727,058
Sub-sector 1	- Fishing Supplies and Services	267	267	\$3,691,183
	Animal Aquaculture (MA Division of Fisheries)	267	267	\$3,691,183
	- Commercial Fishing	421	5,286	\$276,336,890
	Commercial Fishing (Nonemployer 2003)	n/a	3,586	\$170,721,000
	Finfish Fishing	248	897	\$41,381,249
	Shellfish Fishing	170	803	\$64,212,641
	Other Marine Fishing	3	n/a	\$22,000
	- Seafood Processing and Wholesaling (3117)	237	4,552	\$196,497,901
	Seafood Processing and Wholesaling (Nonemployer 2003)	n/a	23	\$676,000
	Seafood Canning	7	118	\$4,376,717
	Fresh and Frozen Seafood Processing	51	2,311	\$91,240,549
424460	Fish and Seafood Merchant Wholesalers	179	2,100	\$100,204,635
Sub-sector 4	- Retail and Food Service Seafood Sales	185	1,165	\$33,201,085
445220	Fish and Seafood Markets	154	916	\$24,141,879
454390	Other Direct Selling Establishments (part)	31	249	\$9,059,206
Marine Tra	nsportation	171	2,099	\$92,835,244
48311	Deep Sea, Coastal, and Water Lakes Transportion	28	870	\$55,398,557
	Inland Water Freight Transportation	8	18	\$504,717
483212	Inland Water Passenger Transportation	7	13	\$255,836
487210	Scenic and Sightseeing Transportation, Water	60	736	\$14,383,648
	Support Activities for Water Transportation	54	411	\$16,708,053
532411	Commercial Air, Rail, and Water Transportation Equipment	14	51	\$5,584,433
	Rental and Leasing			
				4
	urism and Recreation	7,640	119,420	\$2,338,200,556
	- Entertainment and Recreation	1,064	13,625	\$322,954,736
	Marinas	154	1,514	\$55,097,974
	Fitness and Recreational Sports Centers (part)	363	6,045	\$99,075,908
	All Other Amusement and Recreation Industries (part)	198	2,724	\$57,635,621
	Theater Companies and Dinner Theaters (part)	52	1,242	\$36,049,829
711190	Other Performing Arts Companies (part)	/	11	\$270,022
/11320	Promoters of Performing Arts, Sports, and Similar Events	29	212	\$12,429,491
522202	without Facilities (part) Recreational Goods Rental	25	07	¢2.050.424
	Sports and Recreation Instruction	35	87	\$2,059,431
	All Other Miscellaneous Schools and Instruction (part)	86 53	491 527	\$8,659,321 \$20,634,907
	Boat Dealers	87	772	\$31,042,232
Sub-Sector 2		5,819		\$1,476,224,108
	Full-Service Restaurants	2,359		\$832,422,368
	Limited-Service Restaurants	1,814	18,242	\$259,547,588
	Cafeterias	1,614	414	\$6,695,904
	Snack and Nonalcoholic Beverage Bars (part)	769	10,240	\$152,609,739
	Food Service Contractors	232	5,738	
	Caterers	177	2,072	\$38,357,842
	Drinking Places (Alcoholic Beverages)	444		
122410	Drinking Flaces (Alcoholic Develages)	- 	I +,555	ψυυ,θυ + ,∠θυ

Sub-Sector 3 - Accommodations	757	18,296	\$539,021,712
7211 Traveler Accommodation	587	16,453	\$484,373,091
721310 Rooming and Boarding Houses (part)	43	232	\$4,820,131
721214 Recreational and Vacation Camps (except Campgrounds)	30	241	\$5,517,002
721211 RV (Recreational Vehicle) Parks and Campgrounds	29	188	\$4,461,234
487110 Scenic and Sightseeing Transportation, Land (part)	23	472	\$13,786,626
561599 All Other Travel Arrangement and Reservation Services	45	710	\$26,063,628
(part)			
Marine Science and Technology	184	5,055	\$418,699,680
Sub-sector 1 - Instrumentation and Equipment	11	1,441	\$126,465,634
334511 Search, Detection, Navigation, Guidance, Aeronautical, and	10	1,393	\$123,234,690
Nautical System and Instrument Manufacturing			
334519 Other Measuring and Controlling Device Manufacturing (part)) 1	48	\$3,230,944
Sub-sector 2 - Marine Services	107	2,985	\$265,399,985
541330 Engineering Services (part)	33	445	\$34,957,444
541710 Research and Development in the Physical, Engineering,	74	2,540	
and Life Sciences		_,0.0	Ψ=00,=,0
Sub-sector 3 - Marine Materials and Supplies	10	140	\$6,596,269
325510 Paint and Coating Manufacturing (part)	2	62	\$3,564,550
336399 All Other Motor Vehicle Parts Manufacturing (part)	7	75	\$2,935,535
333120 Construction Machinery Manufacturing (part)	0	3	\$96,184
Sub-sector 4 - Ship and Boat Building and Repair	56	490	\$20,237,793
326199 All Other Plastics Product Manufacturing (part)	0	2	\$107,181
336611 Ship Building and Repairing	13	195	·
336612 Boat Building	38	250	\$8,788,168
423860 Transportation Equipment and Supplies (except Motor	5	42	\$3,187,251
Vehicle) Merchant Wholesalers			
			40.00.00
Marine-Related Infrastructure	1,851	14,596	\$948,937,697
237990 All Other Heavy Construction	23	147	\$7,941,805
924110 Administration of Air and Water Resource and Solid Waste	28	3,268	\$213,541,624
Management Programs			
Coastal Real Estate Development	1,800	11,181	\$727,454,268
531210 Offices of Real Estate Agents and Brokers	985	5,025	\$400,384,476
531311 Residential Property Managers	371	3,578	\$151,562,415
531312 Nonresidential Property Managers	161	1,517	\$122,809,332
531320 Offices of Real Estate Appraisers	79	236	\$15,425,300
531390 Other Activities Related to Real Estate	60	142	\$15,286,369
812220 Cemeteries and Crematories (part)	39	310	\$12,276,997
813990 Other Similar Organizations (except Business, Professional,	105	373	\$9,709,379
Labor, and Political Organizations) (part)			

NOTE - In rows marked "part" allocation formulas have been used to adjust original data. See Appendix 2 for details. Source: Mass. DUA, ES-202, 2004; Nonemployer Series, 2003; Mass. Division of Marine Fisheries; author's allocation formulas in rows marked "part"

2 Digit NAICS Codes, Massachusetts Coastal Zone

Coastal Zone Economy, 2-Digit NAICS Codes

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	71,160	1,161,274	\$ 60,198,792,586.00
	Agriculture, Forestry,			
11	Fishing & Hunting	556	2,632	\$ 131,279,270.00
21	Mining	25	612	\$ 28,557,346.00
22	Utilities	110	6,094	\$ 493,715,624.00
23	Construction	6,821	48,048	\$ 2,612,083,519.00
31-33	Manufacturing	2,512	71,371	\$ 3,784,431,323.00
42	Wholesale Trade	3,417	32,539	\$ 1,950,949,042.00
44-45	Retail Trade	9,683	127,918	\$ 3,340,989,133.00
	Transportation and			
48-49	Warehousing	1,699	43,465	\$ 2,082,300,965.00
51	Information	1,352	28,248	\$ 1,775,050,746.00
52	Finance and Insurance	3,784	100,209	12,888,639,620.00
	Real Estate and Rental			
53	and Leasing	2,746	20,741	\$ 1,124,220,020.00
	Professional and			
54	Technical Services	8,732	78,361	\$ 6,138,474,530.00
	Management of			
	Companies and			
55	Enterprises	342	17,873	\$ 1,322,075,305.00
	Administrative and Waste			
56	Services	3,859	62,497	\$ 2,160,852,469.00
61	Educational Services	929	89,864	\$ 4,171,774,542.00
	Health Care and Social			
62	Assistance	5,570	198,153	\$ 8,967,958,115.00
	Arts, Entertainment, and			
71	Recreation	1,257	21,476	\$ 729,715,609.00
	Accommodation and			
72	Food Services	6,518	104,622	\$ 1,975,661,345.00
	Other Services, Ex.	_		_
81	Public Admin	10,196		\$ 1,202,209,766.00
92	Public Administration	1,052	61,382	\$ 3,317,854,314.00

2 Digit NAICS Codes, Massachusetts Coastal Regions

Coast Economy by Region--Boston Harbor--2004, All Ownerships

Boston Harbor

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	28,383	659,611	41,722,286,361
11	Agriculture, Forestry, Fishing & Hunting	13	67	3,046,690
21	Mining	5	52	2,614,774
22	Utilities	27	2,969	238,384,917
23	Construction	1,749	19,717	1,317,517,320
31-33	Manufacturing	718	18,936	1,134,114,971
42	Wholesale Trade	1,274	14,536	1,034,420,385
44-45	Retail Trade	3,196	44,663	1,263,148,225
48-49	Transportation and Warehousing	718	32,522	1,661,894,804
51	Information	678	19,109	1,331,685,738
52	Finance and Insurance	2,074	84,882	12,009,846,127
53	Real Estate and Rental and Leasing	1,319	13,952	888,662,621
54	Professional and Technical Services	4,621	58,985	5,080,824,071
55	Management of Companies and Enterprises	186	10,761	896,067,538
56	Administrative and Waste Services	1,480	43,171	1,544,971,701
61	Educational Services	447	49,670	2,537,950,971
62	Health Care and Social Assistance	2,192	121,191	6,129,152,205
71	Arts, Entertainment, and Recreation	335	9,203	452,805,169
72	Accommodation and Food Services	2,603	49,831	1,086,058,104
81	Other Services, Ex. Public Admin	4,353	24,329	738,473,733
92	Public Administration	395	41,071	2,370,646,299

Coast Economy by Region--Cape & Islands--2004, All Ownerships

Cape & Islands

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	11,441	106,770	3,730,218,817
11	Agriculture, Forestry, Fishing & Hunting	95	295	8,321,777
21	Mining	6	98	5,185,882
22	Utilities	20	512	38,226,695
23	Construction	1,542	7,541	337,197,521
31-33	Manufacturing	266	2,445	104,341,082
42	Wholesale Trade	350	1,588	75,477,288
44-45	Retail Trade	2,009	19,669	529,058,339
48-49	Transportation and Warehousing	260	2,908	103,980,544
51	Information	206	2,362	109,096,417
52	Finance and Insurance	380	2,936	171,539,406
53	Real Estate and Rental and Leasing	485	2,184	66,631,265
54	Professional and Technical Services	955	4,916	259,861,016
55	Management of Companies and Enterprises	30	1,060	49,764,641
56	Administrative and Waste Services	767	4,242	146,133,044
61	Educational Services	114	7,785	307,910,229
62	Health Care and Social Assistance	795	15,132	586,635,932
71	Arts, Entertainment, and Recreation	309	3,499	94,316,495
72	Accommodation and Food Services	1,437	17,174	337,820,321
81	Other Services, Ex. Public Admin	1,222	4,380	114,500,672
92	Public Administration	193	6,055	284,220,253

Source: Mass. DUA, ES-202, 2004

Coast Economy by Region--North Shore--2004, All Ownerships

North Shore

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	13,877	181,068	7,249,900,683
11	Agriculture, Forestry, Fishing & Hunting	148	489	16,910,096
21	Mining	7	111	5,602,306
22	Utilities	23	820	57,583,809
23	Construction	1,398	8,067	393,437,968
31-33	Manufacturing	742	24,050	1,489,478,929
42	Wholesale Trade	810	6,826	403,567,256
44-45	Retail Trade	1,973	29,781	740,803,106
48-49	Transportation and Warehousing	330	3,738	151,301,865
51	Information	260	3,483	188,736,474
52	Finance and Insurance	580	5,872	350,574,736
53	Real Estate and Rental and Leasing	432	2,428	95,634,458
54	Professional and Technical Services	1,547	7,689	446,130,861
55	Management of Companies and Enterprises	46	2,018	154,327,829
56	Administrative and Waste Services	742	6,793	246,298,379
61	Educational Services	181	14,587	582,566,652
62	Health Care and Social Assistance	1,197	29,162	1,096,010,044
71	Arts, Entertainment, and Recreation	287	4,027	86,524,401
72	Accommodation and Food Services	1,196	17,510	282,036,897
81	Other Services, Ex. Public Admin	1,804	7,648	165,014,569
92	Public Administration	174	5,984	297,360,051

Coast Economy by Region--South Coast--2004, All Ownerships

South Coast

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	10,723	139,617	4,641,570,648
11	Agriculture, Forestry, Fishing & Hunting	267	1,683	100,674,959
21	Mining	5	29	1,014,051
22	Utilities	23	920	66,393,070
23	Construction	1,262	7,320	281,797,933
31-33	Manufacturing	565	22,146	881,781,846
42	Wholesale Trade	472	6,178	232,970,627
44-45	Retail Trade	1,566	20,305	472,311,775
48-49	Transportation and Warehousing	262	3,009	111,337,269
51	Information	90	2,134	82,009,580
52	Finance and Insurance	392	3,532	175,105,981
53	Real Estate and Rental and Leasing	312	1,323	41,976,783
54	Professional and Technical Services	729	2,942	124,919,294
55	Management of Companies and Enterprises	52	1,866	82,223,316
56	Administrative and Waste Services	481	5,051	125,720,791
61	Educational Services	108	11,551	486,708,592
62	Health Care and Social Assistance	913	23,877	835,606,196
71	Arts, Entertainment, and Recreation	171	1,950	37,929,755
72	Accommodation and Food Services	820	12,474	157,411,277
81	Other Services, Ex. Public Admin	2,050	5,981	113,626,441
92	Public Administration	183	5,352	230,051,115

Source: Mass. DUA, ES-202, 2004

Coast Economy by Region--South Shore--2004, All Ownerships

South Shore

NAICS	Description	Establishments	Employment	Wage
10	Total, All Industries	6,736	74,208	2,854,816,077
11 & 21	Agriculture, Forestry, Fishing & Hunting &	35	420	16,466,081
	Mining			
22	Utilities	17	873	93,127,133
23	Construction	870	5,403	282,132,777
31-33	Manufacturing	221	3,794	174,714,495
42	Wholesale Trade	511	3,411	204,513,486
44-45	Retail Trade	939	13,500	335,667,688
48-49	Transportation and Warehousing	129	1,288	53,786,483
51	Information	118	1,160	63,522,537
52	Finance and Insurance	358	2,987	181,573,370
53	Real Estate and Rental and Leasing	198	854	31,314,893
54	Professional and Technical Services	880	3,829	226,739,288
55	Management of Companies and Enterprises	28	2,168	139,691,981
56	Administrative and Waste Services	389	3,240	97,728,554
61	Educational Services	79	6,271	256,638,098
62	Health Care and Social Assistance	473	8,791	320,553,738
71	Arts, Entertainment, and Recreation	155	2,797	58,139,789
72	Accommodation and Food Services	462	7,633	112,334,746
81	Other Services, Ex. Public Admin	767	2,883	70,594,351
92	Public Administration	107	2,920	135,576,596

2 Digit NAICS Codes, Massachusetts

Massachusetts Total Economy, 2004, All ownerships

NAICS	Description	Establishments	Employment	Wage	Wag	ge per Person
10	Total, All Industries	212,746	3,139,629	\$ 153,635,357,894	\$	48,934.24
	Agriculture, Forestry, Fishing &					
11	Hunting	993	6,860	\$ 267,504,837	\$	38,994.87
21	Mining	121	1,829	\$ 91,007,303	\$	49,757.96
22	Utilities	376	13,741	\$ 1,030,846,798	\$	75,019.78
23	Construction	21,684	150,159	\$ 7,730,463,577	\$	51,481.85
31-33	Manufacturing	8,897	313,291	19,071,748,094	\$	60,875.51
42	Wholesale Trade	15,834	135,265	\$ 9,060,091,684	\$	66,980.31
44-45	Retail Trade	25,225	356,206	\$ 9,623,659,637	\$	27,017.12
48-49	Transportation and Warehousing	4,578	102,221	\$ 4,419,654,418	\$	43,236.27
51	Information	4,569	92,623	\$ 6,459,720,126	\$	69,742.07
52	Finance and Insurance	9,950	172,877	\$ 17,776,694,383	\$	102,828.57
53	Real Estate and Rental and Leasing	7,116	44,809	\$ 2,150,390,157	\$	47,990.14
	Professional and Technical					
54	Services	28,234	227,554	\$ 18,159,675,738	\$	79,803.81
55	Management of Companies and Enterprises	1,058	64,681	\$ 4,842,216,615	\$	74,863.05
56	Administrative and Waste Services	11,741	162,818	\$ 5,372,084,206	\$	32,994.41
61	Educational Services	3,192	299,340	\$ 13,365,316,485	\$	44,649.28
62	Health Care and Social Assistance	16,353	451,464	\$ 18,797,835,691	\$	41,637.51
71	Arts, Entertainment, and Recreation	3,324	51,261	\$ 1,496,710,296	\$	29,197.84
72	Accommodation and Food Services	15,438	244,935	4,239,079,315	\$	17,306.96
81	Other Services, Ex. Public Admin	31,033	117,856	\$ 3,059,500,218	\$	25,959.65
92	Public Administration	3,030	129,840	\$ 6,621,158,316	\$	50,994.75

Marine Industry by Major Sector, Massachusetts Coastal Zone

Coastal Marine Industry by NAICS, 2004

2002 NAICS	Description	Establishments	Employment	Wages
	Total Marine in Massachusetts		140,426	3,521,807,164
Commerc	ial Seafood Industries	979	6,594	296,954,695
	1 - Fishing Supplies and Services	267	267	3691182.5
11251	Animal Aquaculture	267	267	3691182.5
Sub-sector 2	2 - Commercial Fishing (1141)	405	1,673	\$104,228,987
1141	Commercial Fishing (Nonemployer 2003) Numbers are	n/a	3,586	\$170,721,000
	for the state, not for the Coast. Hence they are not			
	included in totals			
	Finfish Fishing	242	886	\$40,983,122
	Shellfish Fishing	163	787	\$63,245,865
	3 - Seafood Processing and Wholesaling	191	4,013	\$171,320,969
3117		n/a	23	\$676,000
	2003) Numbers are for the state, not for the Coast. Hence			
	they are not included in totals			
	Fresh and Frozen Seafood Processing	46	2,259	\$88,196,573
	Fish and Seafood Merchant Wholesalers	145	1,754	\$83,124,396
	4 - Retail and Food Service Seafood Sales	116	641	\$17,713,556
	Fish and Seafood Markets	109	586	\$16,641,229
454390	Other Direct Selling Establishments (part)	7	55	\$1,072,327
	ansportation	148	2,045	90,302,416
48311	Sea, Coastal & Great Lakes Transport	20	851	\$54,268,763
	Inland Water Freight Transportation	6	13	\$309,824
	Inland Water Passenger Transportation	7	14	\$255,836
	Scenic and Sightseeing Transportation, Water	58	723	\$13,968,529
	Support Activities for Water Transportation	49	400	\$16,353,497
532411	Commercial Air, Rail, and Water Transportation Equipment	8	44	\$5,145,967
	Rental and Leasing			
Coastal To	ourism and Pocreation	7 640	119./20	2 338 200 556
	ourism and Recreation	7,640	119,420	2,338,200,556
Sub-sector	1 - Entertainment and Recreation	1,064	13,625	\$322,954,736
Sub-sector 713930	1 - Entertainment and Recreation Marinas	1,064 154	13,625 1,514	\$322,954,736 \$55,097,974
Sub-sector 713930 713940	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part)	1,064 154 363	13,625 1,514 6,045	\$322,954,736 \$55,097,974 \$99,075,908
713930 713940 713990	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part)	1,064 154 363 198	13,625 1,514 6,045 2,724	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621
713930 713940 713990 711110	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part)	1,064 154 363 198 52	13,625 1,514 6,045 2,724 1,242	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829
Sub-sector 713930 713940 713990 711110 711190	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part)	1,064 154 363 198 52 7	13,625 1,514 6,045 2,724 1,242	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022
Sub-sector 713930 713940 713990 711110 711190	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events	1,064 154 363 198 52	13,625 1,514 6,045 2,724 1,242	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829
\$\text{Sub-sector}\$ 713930 713940 713990 711110 711190 711320	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part)	1,064 154 363 198 52 7	13,625 1,514 6,045 2,724 1,242 11 212	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491
Sub-sector 713930 713940 713990 711110 711190 711320 532292	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental	1,064 154 363 198 52 7	13,625 1,514 6,045 2,724 1,242	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431
\$\text{Sub-sector}\$ 713930 713940 713990 711110 711190 711320 532292 611620	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction	1,064 154 363 198 52 7 29	13,625 1,514 6,045 2,724 1,242 11 212	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321
\$\text{Sub-sector}\$ 713930 713940 713990 711110 711190 711320 532292 611620 611699	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental	1,064 154 363 198 52 7 29 35	13,625 1,514 6,045 2,724 1,242 11 212 87 491	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907
\$\frac{\text{Sub-sector}}{713930} \\ 713940 \\ 713990 \\ 711110 \\ 711190 \\ 711320 \\ 532292 \\ 611620 \\ 611699 \\ 441222	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers	1,064 154 363 198 52 7 29 35 86	13,625 1,514 6,045 2,724 1,242 11 212 87 491	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232
\$\begin{align*} \text{Sub-sector} & \text{713930} & \text{713940} & \text{713990} & \text{711110} & \text{711190} & \text{711320} & \text{532292} & \text{611620} & \text{611699} & \text{441222} & \text{Sub-Sector} & \text{Sub-Sector} & \text{3000} & \tex	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food	1,064 154 363 198 52 7 29 35 86 53 87	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108
\$\text{Sub-sector}\$ \tag{713930} \tag{713940} \tag{713990} \tag{711110} \tag{711120} \tag{711320} \tag{532292} \tag{611620} \tag{611699} \tag{441222} \tag{Sub-Sector} \tag{722110}	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers	1,064 154 363 198 52 7 29 35 86 53	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368
\$\frac{\text{Sub-sector}}{713930}\$ \tag{713940}\$ \tag{713990}\$ \tag{711110}\$ \tag{711120}\$ \tag{711320}\$ \tag{532292}\$ \tag{611620}\$ \tag{611699}\$ \tag{441222}\$ \text{Sub-Sector}\$ \tag{722110}\$	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants	1,064 154 363 198 52 7 29 35 86 53 87 5,819	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588
\$\begin{array}{c} \textbf{Sub-sector} \\ 713930 \\ 713940 \\ 713990 \\ 711110 \\ 711190 \\ 711320 \\ \text{532292} \\ 611620 \\ 611699 \\ 441222 \end{array} \text{Sub-Sector} \\ 722110 \\ 722211 \\ 722212 \end{array}	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904
\$\frac{\text{Sub-sector}}{713930} \\ 713940 \\ 713990 \\ 711110 \\ 711190 \\ 711320 \\ 532292 \\ 611620 \\ 611699 \\ 441222 \\ \$\frac{\text{Sub-Sector}}{722110} \\ 722212 \\ 722213	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904
\$\begin{array}{c} \textbf{Sub-sector} \\ 713930 \\ 713940 \\ 713990 \\ 711110 \\ 711190 \\ 711320 \\ \\ 532292 \\ 611620 \\ 611699 \\ 441222 \\ \textbf{Sub-Sector} \\ 722110 \\ 722212 \\ 722213 \\ 722310 \end{array}	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part)	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739
\$\frac{\text{Sub-sector}}{713930}\$ \tag{713940} \tag{713990} \tag{711110} \tag{7111190} \tag{711320} \tag{532292} \tag{611620} \tag{611699} \tag{441222} \tag{\text{Sub-Sector}} \tag{722110} \tag{722212} \tag{722213} \tag{722330}	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842
\$\frac{\text{Sub-sector}}{713930}\$ \tag{713940} \tag{713990} \tag{711110} \tag{7111190} \tag{711320} \tag{532292} \tag{611620} \tag{611699} \tag{441222} \tag{\text{Sub-Sector}} \tag{722110} \tag{722212} \tag{722213} \tag{722310} \tag{722320} \tag{722410}	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290
\$\frac{\text{Sub-sector}}{713930}\$ 713940 713990 711110 7111190 711320 532292 611620 611699 441222 \$\frac{\text{Sub-Sector}}{722110}\$ 722211 722213 722310 722310 \$\frac{\text{722320}}{\text{Sub-Sector}}\$	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages)	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 444	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 539,021,712
\$\frac{\text{Sub-sector}}{713930} \\ 713940 \\ 713990 \\ 711110 \\ 7111190 \\ 711320 \\ 532292 \\ 611620 \\ 611699 \\ 441222 \\ Sub-Sector \\ 722110 \\ 722213 \\ 722310 \\ 722310 \\ 7223410 \\ Sub-Sector \\ 72211 \\ 722320 \\ 722410 \\ Sub-Sector \\ 72111	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages) 3 - Accommodations	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 444 757	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553 18,296	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 \$39,021,712 \$484,373,091
\$\frac{\text{Sub-sector}}{713930}\$ \tag{713940}{713990}\$ \tag{711110}{7111190}\$ \tag{711320}\$ \tag{532292}{611620}\$ \tag{611620}\$ \tag{611699}\$ \tag{441222}\$ \text{Sub-Sector}\$ \tag{722110}\$ \tag{722212}\$ \tag{722212}\$ \tag{722212}\$ \tag{72230}\$ \tag{722410}\$ \text{Sub-Sector}\$ \tag{7211}\$	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages) 3 - Accommodations Traveler Accommodation	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 444 7557	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553 18,296	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$8324,2368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 \$39,021,712 \$484,373,091 \$4,820,131
Sub-sector 713930 713940 713990 711110 7111190 711320 532292 611620 611699 441222 Sub-Sector 722110 722211 722212 722213 72230 722410 Sub-Sector 7211 721310 721310 721310	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages) 3 - Accommodations Traveler Accommodation Rooming and Boarding Houses (part)	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 4444 757 587 433	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553 18,296 16,453 232	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 539,021,712 \$484,373,091 \$4,820,131 \$5,517,002
Sub-sector 713930 713940 713990 711110 7111190 711320 532292 611620 611699 441222 Sub-Sector 722110 722211 722212 722213 72230 722410 Sub-Sector 7211 721310 721310 721310 721214	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages) 3 - Accommodations Traveler Accommodation Rooming and Boarding Houses (part) Recreational and Vacation Camps (except Campgrounds)	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 444 755 587	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553 18,296 16,453 232 241	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 539,021,712
Sub-sector 713930 713940 713990 711110 7111190 711320 532292 611620 611699 441222 Sub-Sector 722110 722211 722212 722213 722310 722300 722410 Sub-Sector 7211 721310 721214 721214 487110	1 - Entertainment and Recreation Marinas Fitness and Recreational Sports Centers (part) All Other Amusement and Recreation Industries (part) Theater Companies and Dinner Theaters (part) Other Performing Arts Companies (part) Promoters of Performing Arts, Sports, and Similar Events without Facilities (part) Recreational Goods Rental Sports and Recreation Instruction All Other Miscellaneous Schools and Instruction (part) Boat Dealers 2 - Food Full-Service Restaurants Limited-Service Restaurants Cafeterias Snack and Nonalcoholic Beverage Bars (part) Food Service Contractors Caterers Drinking Places (Alcoholic Beverages) 3 - Accommodations Traveler Accommodation Rooming and Boarding Houses (part) Recreational and Vacation Camps (except Campgrounds) RV (Recreational Vehicle) Parks and Campgrounds	1,064 154 363 198 52 7 29 35 86 53 87 5,819 2,359 1,814 24 769 232 177 4444 757 587 433	13,625 1,514 6,045 2,724 1,242 11 212 87 491 527 772 87,499 46,240 18,242 414 10,240 5,738 2,072 4,553 18,296 16,453 232 241 188	\$322,954,736 \$55,097,974 \$99,075,908 \$57,635,621 \$36,049,829 \$270,022 \$12,429,491 \$2,059,431 \$8,659,321 \$20,634,907 \$31,042,232 \$1,476,224,108 \$832,422,368 \$259,547,588 \$6,695,904 \$152,609,739 \$120,686,377 \$38,357,842 \$65,904,290 \$39,021,712 \$4484,373,091 \$4,820,131 \$5,517,002 \$4,461,234

Marine So	cience and Technology	66	1,120	\$65,062,330
Sub-sector	1 - Instrumentation and Equipment	3	155	\$10,742,398
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	3	152	\$10,510,064
334519	Other Measuring and Controlling Device Manufacturing	0	3	\$232,334
	2 - Marine Services	24	669	\$42,458,798
541330	Engineering Services (part)	9	107	\$7,785,369
	Research and Development in the Physical, Engineering, and Life Sciences	15	562	\$34,673,429
Sub-sector	3 - Marine Materials and Supplies	4	76	\$3,086,113
325510	Paint and Coating Manufacturing (part)	1	16	\$880,353
336399	All Other Motor Vehicle Parts Manufacturing (part)	3	60	\$2,205,759
Sub-sector	4 - Ship and Boat Building and Repair	35	221	\$8,775,021
326199	All Other Plastics Product Manufacturing	0	0	\$15,960
336612	Boat Building	33	194	\$7,208,858
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers (part)	2	26	\$1,550,203
	elated Infrastructure	1,809	11,246	\$731,287,167
	All Other Heavy Construction	9	65	\$3,832,899
	I Estate Development	1,800	11,181	\$727,454,268
	Offices of Real Estate Agents and Brokers	985	5,025	\$400,384,476
	Residential Property Managers	371	3,578	\$151,562,415
	Nonresidential Property Managers	161	1,517	\$122,809,332
	Offices of Real Estate Appraisers	79	236	\$15,425,300
	Other Activities Related to Real Estate	60	142	\$15,286,369
	Cemeteries and Crematories (part)	39	310	\$12,276,997
813990	Other Similar Organizations (except Business, Professional, Labor, and Political Organizations) (part)	105	373	\$9,709,379

NOTE - This table represents marine industry located in **coastal zone communities** - for entire MA marine industry totals see Marine Industry by NAICS, MA

NOTE 2 - In rows marked "part" allocation formulas have been used to adjust original data. See Appendix 2 for details.

| Source: Mass. DUA, ES-202, 2004; author's allocation formulas in rows marked "part"

INPUT-OUTPUT TABLES

Massachusetts Coastal Zone Economy Impacts, Summary Tables

Summary Table: Economic Impact of Coastal Economy Employment and Disposable Income, 2004

Modeled Employment

Impact	Actual Employment	Direct*	Indirect*	Induced*	Total*	Multiplier
Employment	1,161,274	253,280	57,453	89,501	400,234	1.58
Output		27,039,477,561	7,864,416,054	9,846,824,963	44,750,718,976	1.66

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

Summary of Inputs: Economic Impacts of the Coastal Economy

		Input
	Coast Wages	Disposable Income
Coast Economy	60,198,792,586	38,527,227,255

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

Summary Table: Employment and Output Impact of Coastal Economy Employment and Disposable Income, 2004

Impact	Direct*	Indirect*	Induced*	Total*	Multiplier
Employment	1,161,274	57,453.10	89,501.20	1,308,228.30	1.13
Output (for disposable income only)	27,039,477,561	7,864,416,054	9,846,824,963	44,750,718,976	1.66

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

* Output Impact: Direct Output Impact represents measures the economic dollar amount of the value effects of the disposable of Marine industry's total income of employment in the production. The data Coastal Zone. Indirect measures the economic were derived from a number of sources effects of additional activity including Bureau of generated in the region.
Induced measures the Census economic censuses, BEA output economic effects on related estimates, and the BLS Massachusetts industries employment projections. due to the multiplier effect.

^{*} Employment Impact: <u>Direct</u> measures employment in the Coastal Zone. <u>Indirect</u> measures the amount of additional employment generated thanks to this employment in the region. <u>Induced</u> measures the employment created in related Massachusetts industries due to the multiplier effect.

Massachusetts Marine Economy Impacts, Summary Tables

Massachusetts Marine Economy, Employment Impacts

Summary Tables: Employment Impact of Marine Industry, Massachusetts, 2004

Sectors	Direct*	Indirect*	Induced*	Total*	Multiplier
Commercial Fishing	11,270	5,025	6,159	22,454	1.99
Marine Transportation	2,099	2,125	1,708	5,932	2.83
Marine Tourism	119,420	15,536	22,475	157,431	1.32
Marine Science and Technology	5,055	2,348	4,078	11,481	2.27
Marine-related Infrastructure	14,596	5,038	6,903	26,537	1.82
Marine Total	152,441	30,072	41,324	223,836	1.47

^{*} Direct measures the employment in the marine industry in Massachusetts. Indirect measures the amount of additional employment generated thanks to existing marine industry employment in the region. Induced measures the employment created in Massachusetts industries due to additional employees indirectly generated in the state by marine workforce.

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

Summary Tables: Output Impact of Marine Industry, Massachusetts, 2004

Sectors	Direct*	Indirect*	Induced*	Total*	Multiplier
Commercial Fishing	916,823,281	329,842,336	307,891,314	1,554,556,901	1.70
Marine Transportation	289,755,957	134,830,261	104,036,340	528,622,555	1.82
Marine Tourism	5,069,549,937	1,705,687,021	1,943,492,974	8,718,730,008	1.72
Marine Science and Technology	589,664,057	257,942,625	309,937,261	1,157,543,944	1.96
Marine-related Infrastructure	1,823,174,648	457,212,492	563,115,087	2,843,502,266	1.56
Marine Total	8,688,967,880	2,885,514,735	3,228,472,976	14,802,955,674	1.70

* Direct measures the economic effects of Output Impact the employment of marine industry in represents dollar Massachusetts. Indirect measures the amount of the value of economic effects of additional employment Marine industry's total generated thanks to existing marine production. The data industry employment in the region. Induced measures the economic effects number of sources on Massachusetts industries that are supported by the indirectly created employees.

were derived from a including Bureau of Census economic censuses, BEA output estimates, and the BLS employment projections.

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project



Massachusetts Marine Economy, Inputs and Output Impacts

Massachusetts Marine Industry Input and Output Impacts, 2004

	Input*		Output**			
Employment Impact	Employment	Direct	Indirect	Induced	Total	Multiplier
Commercial Seafood Industries	11,270	11,270	5,025	6,159	22,454	1.99
Marine Transportation	2,099	2,099	2,125	1,708	5,932	2.83
Coastal Tourism and Recreation	119,420	119,420	15,536	22,475	157,431	1.32
Marine Science and Technology	5,055	5,055	2,348	4,078	11,481	2.27
Marine-Related Infrastructure	14,596	14,596	5,038	6,903	26,537	1.82
Total Marine Industry	152,441	152,441	30,072	41,324	223,836	1.47

^{*} Input. See Methodology

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

Massachusetts Marine Industry Input and Output Impacts, 2004

Output Impact	Input*	Output**				
	Employment	Direct	Indirect	Induced	Total	Multiplier
Commercial Seafood Industries	11,270	916,823,281	329,842,336	307,891,314	1,554,556,931	1.70
Marine Transportation	2,099	289,755,957	134,830,261	104,036,340	528,622,558	1.82
Coastal Tourism and Recreation	119,420	5,069,549,937	1,705,687,021	1,943,492,974	8,718,729,932	1.72
Marine Science and Technology	5,055	589,664,057	257,942,625	309,937,261	1,157,543,943	1.96
Marine-Related Infrastructure	14,596	1,823,174,648	457,212,492	563,115,087	2,843,502,227	1.56
Total Marine Industry	152,441	8,688,967,880	2,885,514,735	3,228,472,976	14,802,955,591	1.70

^{*} Input. See Methodolgy

Output is the dollar value (sales) of goods and services produced by establishments in the industry or sector. The data were derived from a number of sources including Bureau of Census economic censuses, BEA output estimates, and the BLS employment projections.

Source: Mass. DUA, ES-202, 2004; MA Division of Fisheries, Shellfish Sanitation Management Project

^{*** &}lt;u>Direct</u> measures employment in the marine industry in Massachusetts.

<u>Indirect</u> measures the amount of additional employment generated by existing marine industry employment in the region.

<u>Induced</u> measures employment created in Massachusetts industries due to additional employees indirectly generated in the state by the marine workforce.

^{** &}lt;u>Direct</u> measures the economic effect of the marine industry in Massachusetts. Indirect measures the economic effect of related industries due to spending in the marine industry in Massachusetts. Induced measures the economic effect on The data were derived the rest of the economy in Massachusetts.

NAICS DEFINITION OF THE MARINE ECONOMY

Massachusetts Marine Industry - NAICS Code Defintion

2002 NAICS Code	Description					
	Commercial Seafood Industries					
Sub-sector 1 - Fishing						
	Animal Aquaculture					
Sub-sector 2 - Comme						
	Commercial Fishing					
	Finfish Fishing					
	Shellfish Fishing					
	Other Marine Fishing					
	Processing and Wholesaling (3117)					
	Seafood Processing and Wholesaling					
	Seafood Canning					
	Fresh and Frozen Seafood Processing					
	Fish and Seafood Merchant Wholesalers					
	nd Food Service Seafood Sales					
	Fish and Seafood Markets					
454390	Other Direct Selling Establishments (part)					
Marine Transporta						
	Deep Sea, Coastal, and Water Lakes Transportion					
	Inland Water Freight Transportation					
	Inland Water Passenger Transportation					
	Scenic and Sightseeing Transportation, Water					
	Support Activities for Water Transportation					
532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing					
Coastal Tourism a	nd Recreation (codes measured within coastal zone geography)					
Sub-sector 1 - Entertai						
	Marinas					
713940	Fitness and Recreational Sports Centers					
	All Other Amusement and Recreation Industries					
	Theater Companies and Dinner Theaters					
	Other Performing Arts Companies					
	Promoters of Performing Arts, Sports, and Similar Events without Facilities					
	Recreational Goods Rental					
	Sports and Recreation Instruction					
	All Other Miscellaneous Schools and Instruction					
	Boat Dealers					
Sub-Sector 2 - Food						
	Full-Service Restaurants					
	Limited-Service Restaurants					
	Cafeterias					
	Snack and Nonalcoholic Beverage Bars					
	Food Service Contractors					
	Caterers					
722410	Drinking Places (Alcoholic Beverages)					

Sub-Sector 3 - Accomn	
	Traveler Accommodation
721310	Rooming and Boarding Houses
	Recreational and Vacation Camps (except Campgrounds)
	RV (Recreational Vehicle) Parks and Campgrounds
	Scenic and Sightseeing Transportation, Land
561599	All Other Travel Arrangement and Reservation Services
Marine Science and	d Technology
	entation and Equipment
	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and
	Instrument Manufacturing (part)
	Other Measuring and Controlling Device Manufacturing (part)
Sub-sector 2 - Marine S	
	Engineering Services (part)
	Research and Development in the Physical, Engineering, and Life Sciences (part)
Sub-sector 3 - Marine N	
	Paint and Coating Manufacturing (part)
	All Other Motor Vehicle Parts Manufacturing (part)
	Construction Machinery Manufacturing (part)
	d Boat Building and Repair
	All Other Plastics Product Manufacturing (part)
	Ship Building and Repairing
	Boat Building
	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers
	(part)
	(loss s)
Marine-Related Infr	astructure
	All Other Heavy Construction (part)
924110	Administration of Air and Water Resource and Solid Waste Management Programs (part)
Coastal Real Estate De	velopment (codes measured within coastal zone geography)
	Offices of Real Estate Agents and Brokers
	Residential Property Managers
	Nonresidential Property Managers
	Offices of Real Estate Appraisers
531390	Other Activities Related to Real Estate
812220	Cemeteries and Crematories (part)
813990	Other Similar Organizations (except Business, Professional, Labor, and Political
	Organizations) (part)

^{*} Note: NAICS codes marked *part* are measured using an allocation formula (See Appendix 3. Methodology: Industry Code Conversion)

COASTAL TOURISM

Coastal Tourism_Supplemental Spending Analysis Tables

Beach Visitor Day Trips

Summary of Economic Impacts MA Tourism Activity Spending: Beach Visitors Day Trips

Direct Spending by Category Per Person Trip:		
Gas and auto		\$3.42
Parking and entrance Fees	8	\$0.98
Food and Drink from stores	8	\$4.66
Restaurants	8	\$4.89
Equipment renta	I	\$0.78
Beach sporting goods	3	\$0.73
Incidentals	3	\$1.54
TOTAL per Trip		\$17.00
Person Trips	Number of Trips	1,324,899
Total All Categories	Total x Trips	\$22,523,283
	Total Amount Spent in Region (Massachusetts)	\$18,470,757
	Total Amount Spent outside of Massachusetts	\$4,052,526
Direct Employment	Total	325
Direct Payroll	Total Payroll	\$7,176,893
	Average Annual Payroll per Employee	\$22,090
Employment Generated (Indirect and Induced)	Total	110
Annual Payroll Generated (Indirect and Induced)	Total	\$4,253,885
	Average Annual Payroll per New Employee	\$38,813
Overall Impact (Total Output)	Employment (Direct, Indirect, and Induced)	435
	Total (Direct, Indirect, and Induced)	\$31,483,881
Multiplier Effects	In-State Spending Muliplier	1.70
	All Spending Multiplier (in and out of state)	1.40

Source: Authors', calculations based on data from Massachusetts Office of Travel and Tourism, and expenditure estimates from *The Fiscal Impact of Beaches in California*, by Philip King, Ph.D, September 1999.

For methodological details see Appendix-Supplemental Spending Analysis

Beach Visitor Overnight Trips

Summary of Economic Impacts MA Tourism Activity Spending: Beach Visitors Overnight Trips

Direct Spending by Category Per Person Trip:		
Gas and auto		\$10.08
Beach related lodging		\$25.84
Parking and entrance Fees		\$1.32
Food and Drink from stores		\$11.27
Restaurants		\$15.25
Equipment rental		\$2.60
Beach sporting goods		\$0.67
Incidentals		\$3.17
Total per trip		\$70.20
Person Trips	Number of Trips	2,702,151
Total All Categories	Total x Trips	\$189,691,000
	Total Amount Spent in Region (Massachusetts)	\$130,985,551
	Total Amount Spent out of Massachusetts	\$58,705,449
Direct Employment	Total	2,108
Direct Payroll	Total Payroll	\$49,871,002
	Average Annual Payroll per Employee	\$23,661
Employment Generated (Indirect and Induced)	Total	768
Annual Payroll Generated (Indirect and Induced)	Total	\$29,807,577
	Average Annual Payroll per New Employee	\$38,822
Overall Impact (Total Output)	Employment (Direct, Indirect, and Induced)	2,876
	Total (Direct, Indirect, and Induced)	\$222,231,373
Multiplier Effects	In-State Spending Muliplier	1.70
	All Spending Multiplier	1.17

Source: Authors' calculations based on data from Massachusetts Office of Travel and Tourism, and expenditure estimates from The Fiscal Impact of Beaches in California, by Philip King, Ph.D, September 1999. For methodological details see *Appendix 4. Methodology: Supplemental Spending Analysis*



Recreational Boating

Summary of Economic Impacts MA Tourism Activity Spending: Recreational Boat Ownership

Mean annual trip-related expenditures per boa	at:	
Marine and yatch clubs		\$359.00
Gas stations		\$214.00
Restaurants and bars		\$184.00
Grocery and convenience type stores		\$148.00
Bait and tackle shops		\$62.00
Boat launching and mooring fees		\$58.00
Lodging		\$58.00
Entertainment and other expenses		\$56.00
All other retail purchases		\$55.00
Tournament fees		\$12.00
Total		\$1,206.00
Registered Boats	Number of Boats	150,683
Total All Categories	Total x Number of Boats	\$181,723,698
	Total Amount Spent in Region (Massachusetts)	\$140,377,869
	Total Amount Spent Outside of Massachusetts	\$41,345,829
Direct Employment	Total	2,283
Direct Payroll	Total Payroll	\$50,325,390
	Average Annual Payroll per Employee	\$22,047
Employment Generated (Indirect and Induced)	Total	851
Annual Payroll Generated (Indirect and Induced)	Total	\$33,002,105
	Average Annual Payroll per New Employee	\$38,767
Overall Impact (Total Output)	Employment (Direct, Indirect, and Induced)	3,134
	Total (Direct, Indirect, and Induced)	\$241,177,491
Multiplier Effects	In-State Spending Muliplier	1.72
	All Spending Multiplier	1.33

Source: Authors' calculations based on data from U.S. Coast Guard and expenditure estimates in *Recreational Boating Expenditures in 2003 in New York State and Their Economic Impacts* by Nancy A. Connelly, Tommy L. Brown, David L. Kay, September 2004. For methodological details see *Appendix-Supplemental Spending Analysis*



Saltwater Angling

Summary of Economic Impacts MA Tourism Activity Spending: Saltwater Angling Trips

Direct Spending by Category Per Person Trip:		,
Food and lodging		\$8.90
Transportation		\$4.13
Fees		\$6.22
Boating costs		\$16.95
Bait		\$3.37
Ice		\$0.77
Equipment		\$10.61
Total per trip		\$50.95
Person Trips	Number of Trips	4,244,280
Total All Categories	Total x Trips	\$216,246,066
	Total Amount Spent in Region (Massachusetts)	\$155,730,212
	Total Amount Spent Outside of Massachusetts	\$60,515,854
Direct Employment	Total	2,819
Direct Payroll	Total Payroll	\$62,502,818
	Average Annual Payroll per Employee	\$22,175
Employment Generated (Indirect and Induced)	Total	94
Annual Payroll Generated (Indirect and Induced)	Total	\$35,806,551
	Average Annual Payroll per New Employee	\$38,068
Overall Impact (Total Output)	Employment (Direct, Indirect, and Induced)	3,759
	Total (Direct, Indirect, and Induced)	\$262,666,800
Multiplier Effects	In-State Spending Muliplier	1.69
	All Spending Multiplier	1.21

Source: Authors' calculations based on data from National Marine Fisheries Service, U.S. Department of the Interior, and U.S. Department of Commerce. For methodological details see *Appendix-Supplemental Spending Analysis*

Wildlife Watching

Summary of Economic Impacts MA Tourism Activity Spending: Oceanside Wildlife Watching Trips

Direct Spending by Category Per Person Trip:		
Food		\$8.37
Lodging		\$4.16
Transportation		\$8.10
Other trip costs		\$7.81
Total per trip		\$28.44
Person Trips	Number of Trips	6,091,200
Total All Categories	total * trips	\$173,233,728.00
	Total Amount Spent in Region (Massachusetts)	\$139,879,671.00
	Total Amount Spent Outside of Massachusetts	\$33,354,057.00
Direct Employment	Total	2,550
Direct Payroll	Total Payroll	\$55,342,971
	Average Annual Payroll per Employee	\$21,703
Employment Generated (Indirect and Induced)	Total	857
Annual Payroll Generated (Indirect and Induced)	Total	\$33,652,264
	Average Annual Payroll per New Employee	\$39,277
Overall Impact (Total Output)	Employment (Direct, Indirect, and Induced)	3,407
	Total (Direct, Indirect, and Induced)	\$240,582,691
Multiplier Effects	In-State Spending Muliplier	1.72
	All Spending Multiplier	1.39

Source: Authors' calculations based on data from U.S. Department of the Interior, and U.S. Department of Commerce. For methodological details see *Appendix-Supplemental Spending Analysis*



COMMERCIAL SEAFOOD

Commercial Seafood_DMF Aquaculture Permits

2005 AQUACULTURE FIGURES

TOWN	LICENSE HOLDERS	LICENSES	ACRES	% OF TOTAL ACRES *	\$ TOTAL
AQUINNAH	3	4	11	1.12%	\$64,345.00
BARNSTABLE	50	66	174	17.74%	\$814,877.50
BREWSTER	6	6	7	0.71%	\$18,875.00
CHATHAM	1	1	4	0.41%	\$82,396.00
CHILMARK	2	2	0.5	0.05%	\$7,000.00
DENNIS	27	27	29	2.96%	\$14,500.00
DUXBURY	23	32	52	5.30%	\$388,250.00
EASTHAM	22	24	18	1.83%	\$62,161.25
EDGARTOWN	5	10	55	5.61%	\$52,000.00
ESSEX	1	1	1	0.10%	\$0.00
FAIRHAVEN	1	1	35	3.57%	\$161,600.00
FALMOUTH	1	2	22	2.24%	\$0.00
GOSNOLD	1	2	28	2.85%	\$50,000.00
IPSWICH	2	1	1	0.102%	\$675.00
MARION	1	1	0.5	0.051%	\$0.00
MASHPEE	6	8	26	2.65%	\$2,500.00
MATTAPOISETT	2	2	104	10.60%	\$323,552.00
NANTUCKET	4	4	17	1.73%	\$0.00
OAK BLUFFS	1	1	2	0.20%	\$0.00
ORLEANS	18	19	25	2.55%	\$97,280.00
PROVINCETOWN	5	5	8	0.82%	\$1,350.00
WAREHAM	6	15	97	9.89%	\$140,718.00
WELLFLEET	74	106	229	23.34%	\$1,390,039.25
WESTPORT	1	1	8	0.82%	\$0.00
YARMOUTH	4	5	27	2.75%	\$19,063.50
TOTALS	267	346	981.0	100.00%	\$3,691,182.50

^{*} this is a percentage of the total aquaculture area for the State of Massachusetts.

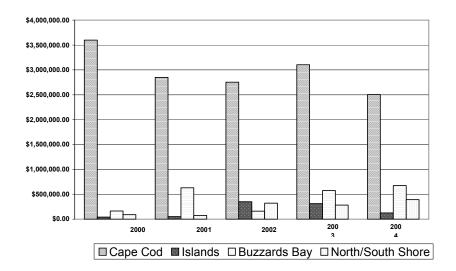
Source: MA Division of Fisheries, Shellfish Sanitation and Management Program

Commercial Seafood_DMF Aquaculture Values by Town

Town Aquaculture Values for Years 2000 to 2004

TOWN	\$ 2000 TOTAL	\$ 2001 TOTAL	\$ 2002 TOTAL	\$ 2003 TOTAL	\$ 2004 TOTAL
CAPE	\$3,599,950.10	\$2,851,514.00	\$2,754,471.00	\$3,105,669.70	\$2,503,042.50
ISLANDS	\$40,415.00	\$51,500.00	\$349,680.00	\$310,181.00	\$123,345.00
BUZZARDS BAY	\$164,587.50	\$627,104.00	\$159,887.00	\$574,712.00	\$675,870.00
N/S SHORE	\$90,786.00	\$73,021.50	\$321,600.00	\$283,635.00	\$388,925.00
					\$3,691,182.50

Source: MA Division of Fisheries, Shellfish Sanitation and Management Program



Commercial Seafood_DMF Commercial Permit and Dealer Data

2004 MA COMMERCIAL PERMIT HOLDERS

Port Town	Count
AMESBURY	13
BARNSTABLE	102
BEVERLY	78
BOSTON	190
BOURNE	12
CAMBRIDGE	3
CHATHAM	346
CHELSEA	2
CHILMARK	53
COHASSET	56 32
DANVERS DARTMOUTH	32 74
DENNIS	81
DUXBURY	41
EASTHAM	36
EDGARTOWN	74
ESSEX	47
FAIRHAVEN	155
FALL RIVER	31
FALMOUTH	109
GLOUCESTER	525
GOSNOLD	16
HARWICH	42
HAVERHILL HINGHAM	2 39
HULL	39
IPSWICH	56
KINGSTON	6
LYNN	47
MANCHESTER	49
MARBLEHEAD	79
MARION	20
MARSHFIELD	139
MATTAPOISETT	32
NAHANT	36
NANTUCKET NEW BEDFORD	125 368
NEWBURY	15
NEWBURYPORT	142
OAK BLUFFS	29
ORLEANS	57
OUT OF STATE	473
PLYMOUTH	188
PROVINCETOWN	143
QUINCY	46
ROCKPORT	111
ROWLEY	7
SALEM SALISBURY	45 50
SANDWICH	115
SAUGUS	50
SCITUATE	121
SWAMPSCOTT	36
SWANSEA	7
TISBURY	48
TRURO	25
UNKNOWN	1222
WAREHAM	87
WELLFLEET	72 149
WESTPORT WEYMOUTH	149 22
WINTHROP	38
YARMOUTH	9
(blank)	2227
Grand Total	8689

Count
1
2
2
66
22
8,012
3
116
1
20
1
62
61
69
1
6
196
1
1
4
28
10
4
8,689

Permit Type	Count
BOAT 0 FT-59 FT	2830
BOAT 60 FT-99 FT	146
BOAT 99 FT+	43
COASTAL LOBSTER	1464
INDIVIDUAL	581
OFFSHORE LOBSTER	346
OFFSHORE LOBSTER-N	202
ROD & REEL	1529
SEASONAL LOBSTER	100
SHELLFISH & ROD & R	590
SHELLFISH & SEAWOR	858
Grand Total	8689

Source: Massachusetts Division of Marine Fisharies

2004 MA DEALERS WHO WERE PRIMARY BUYERS

Dealer Permit Information for 2004 (Number of MA dealer permits issued by permit type): note: This data sets includes primary buyers

PERMIT_TYPE	COUNT(*)
BAIT DEALER	137
RETAIL BOAT	64
RETAIL STORE	728
RETAIL TRUCK	30
WHOLESALE BROKER	21
WHOLESALE DEALER	402
WHOLESALE TRUCK	165
TOTAL	1,547

Source: Massachusetts Division of Marine Fisheries

For a description of the different permit types, visit the following link:

http://www.mass.gov/dfwele/dmf/dealers/dealerapp.pdf

2005 MA COMMERCIAL PERMIT HOLDERS

Port_Town	Count
AMESBURY	10
BARNSTABLE	97
BEVERLY	74
BOSTON	181
BOURNE	11
CAMBRIDGE	3
CHATHAM	336
CHELSEA	1
CHILMARK	50
COHASSET	54
DANVERS	25
DARTMOUTH	74
DENNIS	82
DUXBURY	41 36
EASTHAM EDGARTOWN	66
ESSEX	39
FAIRHAVEN	142
FALL RIVER	38
FALMOUTH	113
GLOUCESTER	504
GOSNOLD	16
HARWICH	37
HAVERHILL	2
HINGHAM	35
HULL	39
IPSWICH	55
KINGSTON	6
LYNN	41
MANCHESTER	48
MARBLEHEAD	70
MARION	19
MARSHFIELD	134
MATTAPOISETT	32
NAHANT	35
NANTUCKET	116
NEW BEDFORD	358
NEWBURY	10
NEWBURYPORT	150
OAK BLUFFS	28
ORLEANS	58
OUT OF STATE PLYMOUTH	507 183
PROVINCETOWN	141
OUINCY	49
ROCKPORT	108
ROWLEY	5
SALEM	48
SALISBURY	44
SANDWICH	107
SAUGUS	42
SCITUATE	119
SWAMPSCOTT	37
SWANSEA	6
TISBURY	45
TRURO	24
UNKNOWN	1134
WAREHAM	81
WELLFLEET	73
WESTPORT	138
WEYMOUTH	20
WINTHROP	38
YARMOUTH	10
(blank)	2157
Grand Total	8382

State	Count
CA	1
CO	1
CT	60
FL	20
MA	7,668
MD	1
ME	108
MI	1
NC	41
NE	1
NH	65
NJ	72
NY	62
OH	1
PA	4
RI	203
SD	1
TN	1
TX	3
VA	54
VT	12
WA	2
Grand Total	8,382

PERMIT TYPE	Count
BOAT 0 FT-59 FT	2713
BOAT 60 FT-99 FT	212
BOAT 99 FT+	42
COASTAL LOBSTER	1429
INDIVIDUAL	541
OFFSHORE LOBSTER	315
OFFSHORE LOBSTER-NON TR	227
ROD & REEL	1373
SEASONAL LOBSTER	93
SHELLFISH & ROD & REEL	585
SHELLFISH & SEAWORMS	852
Grand Total	8382

Description of the permits:

Coastal Lobster Permit allows the taking, landing and sale

Offshore Lobster Permit allows the landing and sale of

Seasonal Lobster Permit is issued to full-time students

Boat Permits allows the taking, landing and sale of fish (to

Individual Permit allows the holder only to take, land and

Shellfish Permit allows an individual to take, land and sell

Rod & Reel Permit allows the holder only, to catch and sell

Source:

Massachusetts Division of Marine Fisharies

http://mass.gov/dfwele/dmf/commercialfishing/permit_index.htm

Commercial Seafood DMF Memo: Lobster and Shellfish Permits

Memo by Thomas Hoopes: 2004 Employment Figures for Select Massachusetts Fisheries Derived from Two Annual Catch Report Surveys, Massachusetts Division of Marine Fisheries. April 3, 2006:

Background

The Massachusetts Division of Marine Fisheries (DMF) collects information from fishermen permitted in select fisheries which are conducted primarily (but not exclusively) within the territorial waters of the Commonwealth. This information is collected on annual catch report forms which are completed by the permit holder at the end of the year as part of the permit renewal process for the following year. Some of the forms ask for more detailed information than others. For example, permit holders who harvest and land lobster or shellfish are asked for information about their vessel (its value and the amount of fuel used), the amount and value of gear used, and the total number of individuals employed at any one time during the year. For a blank copy of these forms, as well as all other catch report forms used, see the Division's website at: http://www.mass.gov/dfwele/dmf/commercialfishing/catch_reports.htm#catch

Methods

Blank catch report forms are mailed with permit renewal applications in late November. Permit holders must complete the catch report forms and submit in order to renew their permits for the following year. Catch data from the forms are entered into an Oracle database linked to the permitting information.

Results

The following table shows the number of permits issued by type in 2004 and reporting information with respect to employment. For a description of permit types, see the Division's website at:

http://www.mass.gov/dfwele/dmf/commercialfishing/permit index.htm

Permit Type	Number Issued	Number Reporting	Number Reporting Fished	Number Reporting Employment Information	Total Employees Reported @	Average Employment per Permit
Coastal						
Lobster	1,464	1,437	987	927	1,542	1.66
Offshore						
Lobster Trap	346	321	205	156	566	3.63
Offshore Lobster Non-						
Trap	202	183	130	96	426	4.44
Seasonal		_		_		
Lobster	100	67	52	46	61	1.33
Shellfish *	2,611	2,190	1,232	743	785	1.06

[@] Includes the permit holder.

^{*} To be able to harvest shellfish commercially, the permit holder must obtain one of several commercial permit types, and then applies a shellfish endorsement to it. The figures in the table for shellfish include all commercial permits except for the four lobster permits listed earlier in the table (e.g. there is no overlap between any of the permit holders in the table).

MARINE-RELATED CONSTRUCTION

Marine Construction Port Capital Development Data

United States Port Authorities for 2004 – 2008 By Total Projected Capital Expenditures

In millions of dollars

Port	Total Projected Capital
Port of Long Beach	\$1,832
Port of Los Angeles	\$1,287
Port Authority of New York/New Jersey	\$960
Port of Houston Authority	\$841
Port Everglades	\$507
Virginia Port Authority	\$451
Jacksonville Port Authority	\$417
Maryland Port Administration	\$406
Port of Oakland	\$396
Port of Seattle	\$361
Port of Massachusetts*	\$42

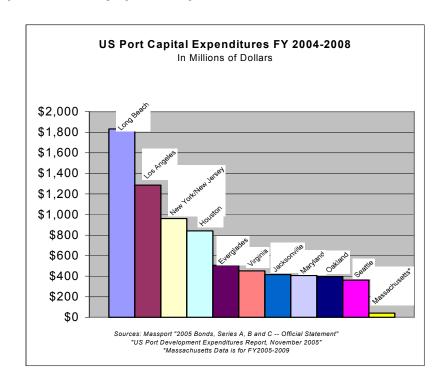
^{*}MA capital expenditures are for FY2005-2009

Sources: Massport "2005 Bonds, Series A, B and C -- Official Statement"

 $\underline{http://www.massport.com/about/pdf/c_2005os.pdf}$

"US Port Development Expenditures Report, November 2005"

 $\underline{http://www.marad.dot.gov/publications/ports.htm}$



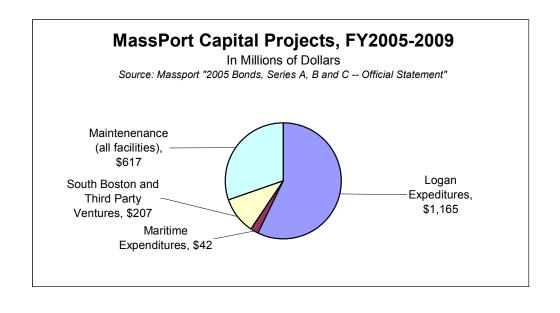
Port of Massachusetts Capital Expenditures FY 2005-2009

In millions of dollars

Project	Estimated Expenditure
Airport Roadway Acquisition from CA/T Project	\$100
Central Parking Garage Repairs and Expansion	\$183
International Gateway (Logan Modernization)	\$117
Runway 14/32 and Associated Taxiways	\$98
Other major airfield improvements associated with Runway 14/32	\$23
Terminal B Parking Garage Structural Repairs and Lighting	\$27
Roadway System Improvements (Logan Modernization)	\$21
Terminal A Replacement Development (Authority commitment)	\$26
Terminal A Redevelopment (Delta)	\$239
Enhanced Logan Airport Security Program	\$73
Residential Sound Insulation Program	\$50
Additional capital improvements for Logan airfield and other Airport projects	\$208
Capital improvements for Maritime, Hanscom Field and the Tobin Bridge	\$42
Major maintenance (all facilities)	\$207
Core Block Development in South Boston (third party ventures)	\$550
Additional third party development ventures	\$67
Logan Expeditures	\$1,165
Maritime Expenditures	\$42
South Boston and Third Party Ventures	\$207
Maintenenance (all facilities)	\$617
Total Capital Program Expenditures	\$2,031

Sources: Massport "2005 Bonds, Series A, B and C -- Official Statement"

http://www.massport.com/about/pdf/c 2005os.pdf



Port of Massachusetts Capital Project Funding Sources FY 2005-2009

In millions of dollars

Maintenance Reserve Fund	\$162
Improvement and Extension Fund	\$306
PFCs pay-as-you-go	\$101
Additional PFC Bonds	\$47
FAA Entitlement Grants	\$26
FAA Discretionary Grants	\$43
FAA Logan Soundproofing Grants	\$40
TSA Discretionary Grants	\$29
Commercial Paper	\$100
2003 Bond proceeds	\$58
2005 Bond proceeds	\$200
Additional Bonds	\$62
Third party or non-recourse financing	\$856
Total Funding Sources	\$2,031

Source: Massport "2005 Bonds, Series A, B and C -- Official Statement" http://www.massport.com/about/pdf/c 2005os.pdf

MARINE SCIENCE AND TECHNOLOGY

Marine Science and Technology_Marine Research Awards and Employment

Massachusetts Marine Science Research Awards 2004-2005 by Institution					
Organization	Sponsored research awards 2004	Sponsored research awards 2005	# of Employees Current Full- Time	# of Employees Current Part- Time	Definition of Funding
Massachusetts Institute of Technology	\$32,593,624	\$15,538,433	34	0	Total grant amount for awards in 2004 and 2005
Woods Hole Oceanographic Institute	\$108,600,000	\$104,500,000	677	80	Sponsored research
Northeastern University	\$54,759	\$274,889	23		Total grant amount for awards in 2004 and 2005
University of Massachusetts, Lowell	\$96,000	\$0	*	*	Total grant amount for awards in 2004 and 2005
University of Massachusetts, Dartmouth; School for Marine Science and Technology (SMAST)	\$4,000,000	\$4,000,000	*	*	UMD - Bill Brah says \$4+ million "last fiscal year research expenditures" (see worksheet for notes)
University of Massachusetts, Boston	\$1,750,000	\$1,750,000	*	*	UMB - Bill Brah says \$1.75 million "last fiscal year research expenditures" (see worksheet for notes)
University of Massachusetts, Amherst	\$0	\$0	*	*	N/A
New England Aquarium	\$2,240,617	\$2,116,052	196	66	"Grant and Contract Research Dollars"
Harvard University	\$447,553	\$724,628	9	0	"National Science Foundation Grant Awards"
Boston University	\$1,926,304	\$694,391	13	43	"Total Grant awards for Marine Science Research"
Southeastern Massachusetts Aquaculture Center	\$17,500	\$35,000	4	0	"Research and Monitoring"
Northeastern Massachusetts Aquaculture Center	N/A	N/A	4	0	
University of Massachusetts Intercampus Graduate School of Marine Science and Technology	N/A	N/A	91	0	
Marine Biological Labs **	\$18,650,555	\$18,650,555	261	29	"Total Grant awards for Marine Science Research"

TOTAL \$170,376,912 \$148,283,948 1,312 218

Source: Original Research by the Donahue Institute February/March 2006; Technical Notes - Employment numbers are from contacts in the department, or from departmental information published on the Internet; Revenue numbers are from contacts in the department, funding information published on the Internet, or previously published studies.

* All faculty in marine science at the four campuses of the University of Massachusetts are counted under the inter-campus Marine Science program

^{**} The funding amount for Marine Biological Laboratories - \$37,301,110 - represents two years of funding. Separate data for 2004 and 2005 was unavailable. The amount reported is the average for each year.

Marine Science and Technology_Massachusetts NSF Awards

National Science Foundation Awards to Massachusetts Marine Programs 9/01/2000 to 01/01/2005

Organization	Number of Awards	Total Value
Woods Hole Oceanographic Institution	113	\$124,716,175
UMass, Lowell	1	\$317,883
UMass, Dartmouth	5	\$1,012,202
UMass, Boston	2	\$711,796
UMass, Amherst	1	\$797,825
Smith College	1	\$230,060
Northeastern University	2	\$901,257
New England Aquarium Corporation	1	\$1,961,253
Massachusetts Institute of Technology	10	\$5,464,801
Harvard University	3	\$1,017,073
Boston University	5	\$1,081,111
State Total	144	\$138,211,436

Source: National Science Foundation website http://www.nsf.gov/awardsearch/.

Note on Source: Data current as of 02/15/06. NSF awards include oceanographic science as well as marine life and biology. Awardee abstracts are updated as awards are given.

Marine Science and Technology_Supplemental Spending Analysis

Summary of Economic Impacts MA Marine Science and Technology Research Spending

Direct Occupies	All Occupies	#470.070.040
Direct Spending	All Spending	\$170,376,912
	Total Amount Spent in Region (Massachusetts)	\$133,598,886
	Total Amount Spent outside of	ψ 100,000,000
	Masschusetts	\$36,778,026
Direct Employment	Total	1,348
Direct Payroll	Total Payroll	\$72,409,642
•	Average Annual Payroll per	
	Employee	\$53,708.38
Employment Generated (Indirect and Induced)	Total	1,013
Annual Payroll Generated (Indirect and Induced)	Total	\$37,860,321
·	Average Annual Payroll per New	
	Employee	\$37,371
	Employment (Direct, Indirect, and	
Overall Impact (Total Output)	Induced)	2,361
	Total (Direct, Indirect, and Induced)	\$249,507,137
Multiplier Effects	In-State Spending Muliplier	1.87
	All Spending Multiplier	1.46

Source: UMass Donahue Institute.

For methodological details see Appendix-Supplemental Spending Analysis

MARINE TRANSPORTATION

Marine Transportation U.S. Waterborne Foreign Trade

52%

U.S. Waterborne Foreign Trade by U.S. Customs Port Percent Change from 1997 to 2004

Trade, Thousands Meta	ic Tons				
Total		Exports		Imports	
Massachusetts	48%	Massachusetts	78%	Massachusetts	47%
Maine	-2%	Maine	68%	Maine	-6%
United States	26%	United States	-4%	United States	42%
Trade, Millions of Dolla	ırs				
Total		Exports		Imports	
Massachusetts	38%	Massachusetts	35%	Massachusetts	38%
Maine	77%	Maine	159%	Maine	62%

United States

U.S. Waterborne Foreign Container Trade by U.S. Custom Ports Percent Change from 1997 to 2005

4%

United States

79%

Twenty-foot Equivalent Units (TEUs)

United States

Total	`	Export TEUs		Import TEUs	
Massachusetts	109%	Massachusetts	292%	Massachusetts	54%
United States	74%	United States	21%	United States	122%
Thousands of Metric T	ons (Mtons)				
Total		Export Mtons		Import Mtons	
Massachusetts	97%	Massachusetts	322%	Massachusetts	36%
United States	62%	United States	21%	United States	106%

U.S. Port Calls by Port and Vessel Type, 2002-2004 Percent Change from 2002 to 2004

Capacity, All Typ	es
Massachusetts	-48%
Maine	4%
United States	9%
Calls, All Types	
Massachusetts	-54%
Maine	-10%
United States	6%

Original data notes and sources can be found at the bottom of each worksheet

Please Note: In all tables, changes by percent are estimates. In the "Calls by Port and Vessel Type" table, fewer Maine ports were listed in the original data for 2004 than for 2002. For purposes of comparison in each port, the additional 2002 ports were excluded in the percent change numbers. Additionally, the 2002 data for Gloucester, MA was not included in percent change estimates because that is the only year that port is listed.