

Coastal Zone Management Act Performance Measurement System

2010 Report on Contextual Indicators

Executive Summary

INTRODUCTION

The Coastal Zone Management Act (CZMA) Performance Measurement System includes a suite of “contextual” indicators on the status of coastal societies, economies, environments, and natural hazards. Contextual indicator data supplement performance measurement data collected by state coastal zone management programs and give context to state activities by illustrating the many pressures on coastal areas. New contextual indicator data are collected annually, from existing data sets, by NOAA’s Office of Ocean and Coastal Resource Management (OCRM) and the NOAA Coastal Services Center. Data are provided at the national, regional, and state levels where possible.

CONTEXTUAL INDICATOR DATA SUMMARIZED

Category	Indicator	National 2009 (except where noted) Results
Coastal Society	1. Population in the coastal zone	125,933,957 people
	2. Percentage of the population residing in the coastal zone	40.5%
	3. Five-year change in the population of the coastal zone	3.0% increase
	4. Population density in the coastal zone	401 people/sq. mi. (excluding AK)
	5. Land cover change in coastal watersheds	See full report
	6. Freshwater use in the coastal zone	71,043.9 million gal/day (2005)
Coastal Economy	7. Percentage of the economy attributable to the coastal zone	48.6% (2007)
	8. Value of coastal zone tourism and recreation	\$69,651,089,000 (2004)
	9. Percentage of employment in the coastal zone	42.1% (2008)
	10. Percentage of coastal zone employment dependent on coastal and ocean resources	4.2% (2004)
	11. Number of coastal zone establishments dependent on coastal and ocean resources	125,010 establishments (2004)
Coastal Environment	12. Overall condition of coastal waters a) Water quality index b) Sediment quality index c) Coastal habitat index d) Benthic index e) Fish tissue contaminants index	Overall rating of 2.8 out of 5
	13. Number of non-native species detected in tidal waters	506
Coastal Hazards	14. Proportion of Federal Disaster Declarations occurring in coastal states and territories	32/59
	15. Proportion of coastal Federal Disaster Declarations directly related to coastal hazards	5/32
	16. Total estimated cost of all billion-dollar weather disasters related to coastal hazards	N/A

REGIONAL DELINEATIONS

Indicators reported at the regional level are reported according to the below regional delineation as identified by the NOAA OCRM Coastal Programs Division. This applies to indicators 1-11, and 13. For more information on these delineations, see the Contextual Indicator Manual at <http://coastalmanagement.noaa.gov/success/indicators.html>.

West Coast – CA, OR, WA
Gulf Coast – AL, LA, MS, TX
Southeast – FL, GA, NC, SC
Mid-Atlantic – DE, MD, NJ, VA
Northeast – CT, MA, ME, NH, NY, RI
Great Lakes – IL, IN, MI, MN, OH, PA, WI
Alaska – AK
Islands and Territories – AS, CNMI, GU, HI, PR, USVI

Indicator 12 and its components, as reported in the National Coastal Condition Report (NCCR), are reported according to the below regional delineation:

Northeast – ME, NH, MA, RI, CT, NJ, DE, MD, VA
Southeast – NC, SC, GA, FL (east coast)
Gulf Coast – FL (west coast), AL, MS, LA, TX
West Coast – CA, OR, WA
Great Lakes – PA, NY, OH, MI, IN, IL, WI, MN
Puerto Rico – Puerto Rico

THE COASTAL ZONE

For the purposes of this report, the coastal zone includes those counties that are wholly or partially within the boundaries of a state's approved coastal zone management program. For Illinois, which does not have an approved Coastal Zone Management Program at the time of this publication, those counties directly contacting the coast are deemed within the coastal zone. For a complete list of counties included in states' coastal zones, see the Contextual Indicator Manual at <http://coastalmanagement.noaa.gov/success/indicators.html>.

Coastal Zone Management Act Performance Measurement System

2010 Report on Contextual Indicators

December 2010

1. Population in the coastal zone

National: 125,933,957 people

Geographic Area	Estimated CZ Population
West Coast	31,499,234
CA	25,433,447
OR	1,493,356
WA	4,572,431
Gulf Coast	9,183,973
AL	591,599
LA	2,107,308
MS	355,075
TX	6,129,991
Southeast	21,312,426
FL	18,537,969
GA	609,762
NC	963,251
SC	1,201,444
Mid-Atlantic	16,250,969
DE	885,122
MD	3,799,928
NJ	7,828,431
VA	3,737,488
Northeast	26,256,140
CT	2,181,746
MA	4,961,695
ME	986,553
NH	422,865
NY	16,650,072
RI	1,053,209
Great Lakes	19,559,494
IL	5,999,604
IN	768,872
MI	4,782,555
MN	248,176
OH	2,685,810
PA	3,011,631
WI	2,062,846
Alaska	576,543
Hawaii	1,295,178

Source: U.S. Census Bureau

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2009 data)

2. Percentage of the population residing in the coastal zone

National: 40.5% (125,933,957 out of 310,973,838 people)

Geographic Area	Estimated CZ Population	Estimated Total Population	% of Population Residing in CZ
West Coast	31,499,234	47,451,516	66.4%
CA	25,433,447	36,961,664	68.8%
OR	1,493,356	3,825,657	39.0%
WA	4,572,431	6,664,195	68.6%
Gulf Coast	9,183,973	36,935,082	24.9%
AL	591,599	4,708,708	12.6%
LA	2,107,308	4,492,076	46.9%
MS	355,075	2,951,996	12.0%
TX	6,129,991	24,782,302	24.7%
Southeast	21,312,426	42,309,306	50.4%
FL	18,537,969	18,537,969	100.0%
GA	609,762	9,829,211	6.2%
NC	963,251	9,380,884	10.3%
SC	1,201,444	4,561,242	26.3%
Mid-Atlantic	16,250,969	23,174,929	70.1%
DE	885,122	885,122	100.0%
MD	3,799,928	5,699,478	66.7%
NJ	7,828,431	8,707,739	89.9%
VA	3,737,488	7,882,590	47.4%
Northeast	26,256,140	33,349,413	78.7%
CT	2,181,746	3,518,288	62.0%
MA	4,961,695	6,593,587	75.3%
ME	986,553	1,318,301	74.8%
NH	422,865	1,324,575	31.9%
NY	16,650,072	19,541,453	85.2%
RI	1,053,209	1,053,209	100.0%
Great Lakes	19,559,494	64,371,649	30.4%
IL	5,999,604	12,910,409	46.5%
IN	768,872	6,423,113	12.0%
MI	4,782,555	9,969,727	48.0%
MN	248,176	5,266,214	4.7%
OH	2,685,810	11,542,645	23.3%
PA	3,011,631	12,604,767	23.9%
WI	2,062,846	5,654,774	36.5%
Alaska	576,543	698,473	82.5%
Hawaii	1,295,178	1,295,178	100.0%

Source: U.S. Census Bureau

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2009 data)

3. Five-year change in the population of the coastal zone

National: 3.0% Increase (122,246,657 estimated 2004 coastal zone population to 125,933,957 estimated 2009 coastal zone population)

Geographic Area	Estimated 2004 CZ Population	Estimated 2009 CZ Population	Five-year Change
West Coast	30,510,036	31,499,234	3.2%
CA	24,862,464	25,433,447	2.3%
OR	1,392,213	1,493,356	7.3%
WA	4,255,359	4,572,431	7.5%
Gulf Coast	8,744,050	9,183,973	5.0%
AL	554,094	591,599	6.8%
LA	2,187,834	2,107,308	-3.7%
MS	374,259	355,075	-5.1%
TX	5,627,863	6,129,991	8.9%
Southeast	19,882,448	21,312,426	7.2%
FL	17,375,259	18,537,969	6.7%
GA	563,687	609,762	8.2%
NC	881,155	963,251	9.3%
SC	1,062,347	1,201,444	13.1%
Mid-Atlantic	15,845,310	16,250,969	2.6%
DE	826,639	885,122	7.1%
MD	3,732,852	3,799,928	1.8%
NJ	7,742,097	7,828,431	1.1%
VA	3,543,722	3,737,488	5.5%
Northeast	25,864,671	26,256,140	1.5%
CT	2,158,987	2,181,746	1.1%
MA	4,845,926	4,961,695	2.4%
ME	975,779	986,553	1.1%
NH	408,797	422,865	3.4%
NY	16,403,768	16,650,072	1.5%
RI	1,071,414	1,053,209	-1.7%
Great Lakes	19,601,055	19,559,494	-0.2%
IL	5,986,815	5,999,604	0.2%
IN	748,031	768,872	2.8%
MI	4,886,792	4,782,555	-2.1%
MN	247,383	248,176	0.3%
OH	2,740,574	2,685,810	-2.0%
PA	2,959,820	3,011,631	1.8%
WI	2,031,640	2,062,846	1.5%
Alaska	546,305	576,543	5.5%
Hawaii	1,252,782	1,295,178	3.4%

Source: U.S. Census Bureau

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2004 and 2009 data)

4. Population density in the coastal zone

National: 401 people/sq. mi., excluding Alaska (125,357,414 estimated 2009 CZ population in 312,421 sq. mi. 2000 CZ land area)

Geographic Area	Estimated 2009 CZ Population	2000 CZ Area (sq. mi.)	Estimated CZ Population Density (people/sq.mi.)
West Coast	31,499,234	73,917	426
CA	25,433,447	35,814	710
OR	1,493,356	19,238	78
WA	4,572,431	18,865	242
Gulf Coast	9,183,973	33,861	271
AL	591,599	2,829	209
LA	2,107,308	13,005	162
MS	355,075	1,783	199
TX	6,129,991	16,244	377
Southeast	21,312,426	75,766	281
FL	18,537,969	53,929	344
GA	609,762	5,636	108
NC	963,251	9,364	103
SC	1,201,444	6,837	176
Mid-Atlantic	16,250,969	22,615	719
DE	885,122	1,954	453
MD	3,799,928	6,403	593
NJ	7,828,431	5,695	1,375
VA	3,737,488	8,563	436
Northeast	26,256,140	39,481	665
CT	2,181,746	2,271	961
MA	4,961,695	3,587	1,383
ME	986,553	12,051	82
NH	422,865	1,064	397
NY	16,650,072	19,460	856
RI	1,053,209	1,048	1,005
Great Lakes	19,559,494	60,358	324
IL	5,999,604	1,458	4,115
IN	768,872	1,511	509
MI	4,782,555	30,623	156
MN	248,176	10,634	23
OH	2,685,810	3,767	713
PA	3,011,631	1,825	1,650
WI	2,062,846	10,540	196
Alaska	576,543	519,125	1
Hawaii	1,295,178	6,423	202

Source: U.S. Census Bureau

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2009 population estimates and 2000 land area data)

5. Land cover change in coastal watersheds

National (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	4,123.1	4,346.1	4,574.4
Medium Intensity Developed	10,651.0	11,160.8	11,501.8
Low Intensity Developed	22,111.1	23,047.2	23,218.7
Developed Open Space	10,551.5	10,977.0	11,191.8
Cultivated	142,752.5	143,065.2	143,169.6
Grassland	37,818.3	38,124.0	39,187.9
Deciduous Forest	94,194.4	93,737.9	93,337.2
Evergreen Forest	127,788.8	123,388.2	118,347.3
Mixed Forest	46,893.6	45,875.8	44,874.2
Scrub/Shrub	72,365.2	75,916.0	80,696.9
Woody Wetland	97,112.3	96,013.0	95,037.2
Emergent Wetland	23,114.4	23,571.6	23,734.9
Unconsolidated Shore	1,681.9	1,730.2	1,723.9
Barren Land	4,941.8	5,255.4	5,614.3
Open Water	124,527.2	124,423.6	101,209.8

West Coast Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	788.8	810.0	834.1
Medium Intensity Developed	2,612.2	2,698.0	2,823.4
Low Intensity Developed	3,358.5	3,451.5	3,516.1
Developed Open Space	1,554.6	1,591.3	1,646.8
Cultivated	9,458.5	9,576.7	9,559.8
Grassland	17,548.3	17,121.9	17,053.3
Deciduous Forest	2,077.9	2,071.8	2,021.1
Evergreen Forest	51,766.7	51,045.5	49,696.6
Mixed Forest	8,945.4	8,792.9	8,582.7
Scrub/Shrub	25,342.2	26,255.8	27,658.8
Woody Wetland	1,527.5	1,526.7	1,513.1
Emergent Wetland	909.8	910.0	916.3
Unconsolidated Shore	432.1	433.5	427.8
Barren Land	3,156.4	3,211.5	3,227.2
Open Water	24,115.8	24,096.4	24,116.2

Gulf Coast Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	435.3	464.4	523.3
Medium Intensity Developed	1,231.8	1,298.3	1,341.2
Low Intensity Developed	3,131.4	3,368.7	3,345.0
Developed Open Space	1,115.1	1,179.5	1,185.9
Cultivated	31,399.6	31,513.1	31,387.6
Grassland	9,432.4	10,109.4	10,918.3
Deciduous Forest	3,867.9	3,813.5	3,712.3
Evergreen Forest	18,422.0	16,802.7	15,311.1
Mixed Forest	6,035.0	5,181.6	4,785.5
Scrub/Shrub	24,769.0	26,232.0	27,922.8
Woody Wetland	21,772.6	21,608.4	20,945.2
Emergent Wetland	7,146.8	7,077.3	7,009.6
Unconsolidated Shore	741.5	787.2	797.4
Barren Land	367.3	424.5	431.6
Open Water	16,031.5	16,038.8	16,182.3

Southeast Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	653.1	735.0	771.1
Medium Intensity Developed	1,816.1	1,972.0	2,033.0
Low Intensity Developed	4,176.7	4,504.1	4,534.2
Developed Open Space	2,276.5	2,431.1	2,465.6
Cultivated	28,258.5	28,512.3	28,345.8
Grassland	5,180.2	5,346.6	5,965.9
Deciduous Forest	1,875.4	2,082.1	1,994.1
Evergreen Forest	30,426.2	28,836.2	26,882.8
Mixed Forest	2,702.0	2,909.3	2,766.2
Scrub/Shrub	11,994.0	12,454.4	13,836.6
Woody Wetland	37,292.5	36,334.4	36,019.6
Emergent Wetland	9,033.1	9,510.7	9,677.7
Unconsolidated Shore	237.0	227.6	220.8
Barren Land	472.7	540.5	758.5
Open Water	22,584.6	22,582.1	22,704.5

Mid-Atlantic Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	522.5	545.4	588.9
Medium Intensity Developed	963.4	1,005.4	1,035.8
Low Intensity Developed	1,957.9	2,009.0	2,040.0
Developed Open Space	1,404.4	1,435.7	1,431.8
Cultivated	8,652.6	8,674.6	8,686.8
Grassland	271.0	238.6	411.8
Deciduous Forest	8,191.6	8,062.3	7,944.5
Evergreen Forest	3,069.8	2,960.1	2,891.7
Mixed Forest	1,410.5	1,409.3	1,381.1
Scrub/Shrub	1,588.5	1,704.3	1,638.3
Woody Wetland	4,302.9	4,294.9	4,247.4
Emergent Wetland	1,284.0	1,280.2	1,270.6
Unconsolidated Shore	34.9	39.4	32.0
Barren Land	119.2	119.3	159.1
Open Water	8,787.6	8,782.0	8,798.7

Northeast Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	686.6	693.5	712.6
Medium Intensity Developed	1,581.6	1,604.0	1,615.0
Low Intensity Developed	3,123.1	3,168.7	3,168.3
Developed Open Space	1,655.9	1,693.7	1,708.3
Cultivated	15,052.4	15,064.7	15,085.6
Grassland	923.4	993.8	1,194.5
Deciduous Forest	34,071.6	33,714.5	33,523.2
Evergreen Forest	15,772.4	15,539.4	15,438.7
Mixed Forest	18,087.3	17,880.7	17,710.7
Scrub/Shrub	4,461.0	4,980.7	5,180.3
Woody Wetland	8,354.7	8,368.1	8,356.7
Emergent Wetland	1,257.3	1,259.7	1,269.8
Unconsolidated Shore	181.3	182.8	183.7
Barren Land	350.5	413.7	425.5
Open Water	14,685.5	14,692.6	14,671.4

Great Lakes Region (square miles):

Land Cover Category	1996	2001	2005
High Intensity Developed	1,036.8	1,097.7	1,144.4
Medium Intensity Developed	2,445.9	2,583.2	2,653.4
Low Intensity Developed	6,363.4	6,545.2	6,615.1
Developed Open Space	2,545.0	2,645.6	2,753.4
Cultivated	49,930.9	49,723.7	50,104.0
Grassland	4,463.0	4,313.7	3,644.1
Deciduous Forest	44,110.0	43,993.6	44,142.1
Evergreen Forest	8,331.8	8,204.3	8,126.4
Mixed Forest	9,713.4	9,702.0	9,648.0
Scrub/Shrub	4,210.5	4,288.9	4,460.0
Woody Wetland	23,862.1	23,880.5	23,955.2
Emergent Wetland	3,483.5	3,533.7	3,590.8
Unconsolidated Shore	55.2	59.5	62.2
Barren Land	475.7	545.9	612.3
Open Water	38,322.1	38,231.8	14,736.6

*Source: NOAA Coastal Services Center, Coastal Change Analysis Program (C-CAP)
Coverage: 1996, 2001, and 2005 data available for contiguous United States excluding Alaska.
Last updated by OCRM: 2010 (for available C-CAP data)*

6. Freshwater use in the coastal zone

National: 71,043.9 million gallons/day

Geographic Area	Estimated 2005 Freshwater Withdrawals (Mgal/day)
West Coast	7,765.6
CA	6,134.1
OR	760.7
WA	870.9
Gulf Coast	10,933.6
AL	1,200.0
LA	6,938.4
MS	177.9
TX	2,617.3
Southeast	8,678.7
FL	6,822.4
GA	541.8
NC	296.3
SC	1,018.3
Mid-Atlantic	5,437.3
DE	634.6
MD	512.2
NJ	1,787.0
VA	2,503.5
Northeast	10,223.7
CT	573.5
MA	534.2
ME	299.6
NH	52.1
NY	8,623.5
RI	140.8
Great Lakes	26,747.1
IL	2,613.6
IN	2,478.9
MI	10,633.3
MN	599.9
OH	3,293.0
PA	1,493.4
WI	5,635.0
Alaska	811.4
Hawaii	446.7

Source: U.S. Geological Survey

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2005 data).

7. Percentage of the economy attributable to the coastal zone

National: 48.6% (\$6,684,804,291,953 coastal zone GDP out of \$13,743,021,000,000 national GDP)

Geographic Area	CZ 2007 GDP	Total 2007 GDP	% of Total 2007 GDP
West Coast	\$1,868,335,440,185	\$2,282,472,000,000	81.9%
CA	\$1,562,118,168,981	\$1,812,969,000,000	86.2%
OR	\$57,455,836,220	\$158,234,000,000	36.3%
WA	\$248,761,434,984	\$311,269,000,000	79.9%
Gulf Coast	\$495,022,724,550	\$1,612,448,000,000	30.7%
AL	\$18,995,929,282	\$165,793,000,000	11.5%
LA	\$96,352,296,841	\$216,145,000,000	44.6%
MS	\$14,565,466,951	\$88,546,000,000	16.4%
TX	\$365,109,031,476	\$1,141,964,000,000	32.0%
Southeast	\$825,542,931,593	\$1,683,303,000,000	49.0%
FL	\$734,521,000,002	\$734,521,000,000	100.0%
GA	\$20,024,891,153	\$396,504,000,000	5.1%
NC	\$28,861,878,924	\$399,446,000,000	7.2%
SC	\$42,135,161,514	\$152,832,000,000	27.6%
Mid-Atlantic	\$926,363,637,194	\$1,177,253,000,000	78.7%
DE	\$60,117,000,000	\$60,117,000,000	100.0%
MD	\$165,598,906,283	\$268,688,000,000	61.6%
NJ	\$408,576,995,817	\$465,483,000,000	87.8%
VA	\$292,070,735,094	\$382,965,000,000	76.3%
Northeast	\$1,555,891,114,028	\$1,823,151,000,000	85.3%
CT	\$136,415,124,082	\$216,264,000,000	63.1%
MA	\$299,848,651,591	\$351,514,000,000	85.3%
ME	\$39,349,216,470	\$48,106,000,000	81.8%
NH	\$17,054,524,132	\$57,340,000,000	29.7%
NY	\$1,016,320,597,753	\$1,103,024,000,000	92.1%
RI	\$46,903,000,000	\$46,903,000,000	100.0%
Great Lakes	\$912,979,202,194	\$2,722,652,000,000	33.5%
IL	\$360,920,894,968	\$609,569,000,000	59.2%
IN	\$24,297,090,818	\$246,439,000,000	9.9%
MI	\$170,650,500,912	\$381,963,000,000	44.7%
MN	\$9,704,215,426	\$254,969,000,000	3.8%
OH	\$126,720,461,765	\$466,310,000,000	27.2%
PA	\$131,187,026,043	\$531,109,000,000	24.7%
WI	\$89,499,012,262	\$232,293,000,000	38.5%
Alaska	\$39,136,242,209	\$44,517,000,000	87.9%
Hawaii	\$61,533,000,000	\$61,533,000,000	100.0%

Source: National Ocean Economics Program

Coverage: All coastal states

Last updated by OCRM: 2009 Report (using 2007 data)

8. Value of coastal zone tourism and recreation

National: \$69,651,089,000

Geographic Area	2004 GDP for CZ Tourism and Recreation Sector
West Coast	\$16,419,781,400
CA	\$11,992,128,300
OR	\$297,446,400
WA	\$4,130,206,700
Gulf Coast	\$4,642,122,600
AL	\$354,485,500
LA	\$2,164,629,100
MS	\$209,650,800
TX	\$1,913,357,200
Southeast	\$13,780,170,400
FL	\$10,721,166,200
GA	\$690,828,500
NC	\$868,232,500
SC	\$1,499,943,200
Mid-Atlantic	\$5,124,819,400
DE	\$373,863,400
MD	\$1,119,400,700
NJ	\$2,198,637,500
VA	\$1,432,917,800
Northeast	\$17,691,228,200
CT	\$1,323,004,100
MA	\$2,080,336,200
ME	\$966,728,600
NH	\$253,422,100
NY	\$12,197,767,500
RI	\$869,969,700
Great Lakes	\$6,389,482,200
IL	\$2,862,983,900
IN	\$107,193,000
MI	\$1,263,938,600
MN	\$97,112,900
OH	\$786,439,000
PA	\$625,916,500
WI	\$645,898,300
Alaska	\$783,604,200
Hawaii	\$4,819,880,600

Source: National Ocean Economics Program

Coverage: All coastal states

Last updated by OCRM: 2009 Report (using 2004 data)

9. Percentage of employment in the coastal zone

National: 42.1% (56,697,145 occupational employees in the coastal zone out of 134,809,552 occupational employees in the U.S.)

Geographic Area	CZ 2008 Employment	Total 2008 Employment	Percentage of 2008 Total Employment
West Coast	14,964,594	20,164,363	74.2%
CA	12,227,511	15,498,175	78.9%
OR	603,842	1,715,324	35.2%
WA	2,133,241	2,950,864	72.3%
Gulf Coast	3,936,492	15,407,008	25.6%
AL	237,984	1,936,600	12.3%
LA	757,975	1,888,631	40.1%
MS	151,643	1,130,829	13.4%
TX	2,788,890	10,450,948	26.7%
Southeast	8,550,666	17,620,329	48.5%
FL	7,456,124	7,667,616	97.2%
GA	239,521	4,031,679	5.9%
NC	350,936	4,045,226	8.7%
SC	504,085	1,875,808	26.9%
Mid-Atlantic	7,887,159	10,561,234	74.7%
DE	412,760	420,892	98.1%
MD	1,618,551	2,537,326	63.8%
NJ	3,433,524	3,936,129	87.2%
VA	2,422,324	3,666,887	66.1%
Northeast	11,885,861	15,242,287	78.0%
CT	985,105	1,688,122	58.4%
MA	2,536,942	3,245,705	78.2%
ME	461,704	602,021	76.7%
NH	183,712	628,748	29.2%
NY	7,255,962	8,607,951	84.3%
RI	462,436	469,740	98.4%
Great Lakes	8,585,024	29,131,412	29.5%
IL	2,833,569	5,841,296	48.5%
IN	295,542	2,872,258	10.3%
MI	1,801,915	4,071,476	44.3%
MN	117,459	2,678,991	4.4%
OH	1,311,571	5,236,718	25.0%
PA	1,233,809	5,658,366	21.8%
WI	991,159	2,772,307	35.8%
Alaska	268,687	315,278	85.2%
Hawaii	618,662	619,593	99.8%

Source: National Ocean Economics Program

Coverage: All coastal states

Last updated by OCRM: 2010 Report (using 2008 data)

10. Percentage of coastal zone employment dependent on coastal and ocean resources

National: 4.2% (2,323,903 occupational employees out of 54,821,344 occupational employees in the coastal zone)

Geographic Area	CZ 2004 Employment Dependent	CZ 2004 Employment	Percentage of 2004 CZ Employment
West Coast	536,094	14,322,088	3.7%
CA	369,444	11,818,729	3.1%
OR	16,909	562,415	3.0%
WA	149,741	1,940,944	7.7%
Gulf Coast	277,891	3,680,893	7.5%
AL	22,091	215,209	10.3%
LA	112,680	811,531	13.9%
MS	30,235	150,066	20.1%
TX	112,885	2,504,087	4.5%
Southeast	423,130	8,140,828	5.2%
FL	312,190	7,135,584	4.4%
GA	26,496	223,380	11.9%
NC	40,353	322,655	12.5%
SC	44,091	459,209	9.6%
Mid-Atlantic	248,351	7,690,892	3.2%
DE	15,714	406,166	3.9%
MD	52,647	1,584,962	3.3%
NJ	88,457	3,386,253	2.6%
VA	91,533	2,313,511	4.0%
Northeast	460,107	11,456,501	4.0%
CT	48,703	966,240	5.0%
MA	70,669	2,440,423	2.9%
ME	45,686	456,203	10.0%
NH	14,006	177,154	7.9%
NY	251,378	6,948,225	3.6%
RI	29,665	468,256	6.3%
Great Lakes	242,165	8,692,532	2.8%
IL	65,696	2,819,615	2.3%
IN	11,773	288,685	4.1%
MI	57,589	1,923,398	3.0%
MN	10,326	113,008	9.1%
OH	32,764	1,353,050	2.4%
PA	32,670	1,218,205	2.7%
WI	31,347	976,571	3.2%
Alaska	37,672	252,946	14.9%
Hawaii	98,493	584,664	16.8%

Source: National Ocean Economics Program

Coverage: All coastal states

Last updated by OCRM: 2009 Report (using 2004 data)

11. Number of coastal zone establishments dependent on coastal and ocean resources

National: 125,010 establishments

Geographic Area	2004 Establishments
West Coast	27,401
CA	17,315
OR	1,379
WA	8,707
Gulf Coast	11,598
AL	1,159
LA	4,465
MS	827
TX	5,147
Southeast	23,316
FL	17,714
GA	1,224
NC	2,369
SC	2,009
Mid-Atlantic	13,090
DE	924
MD	2,716
NJ	6,392
VA	3,058
Northeast	31,354
CT	2,917
MA	5,484
ME	2,946
NH	646
NY	17,558
RI	1,803
Great Lakes	12,201
IL	2,351
IN	374
MI	3,733
MN	364
OH	1,924
PA	1,897
WI	1,558
Alaska	2,210
Hawaii	3,840

Source: National Ocean Economics Program

Coverage: All coastal states

Last updated by OCRM: 2009 Report (using 2004 data)

12. Overall Condition of Coastal Waters

- a) Water Quality Index
- b) Sediment Quality Index
- c) Coastal Habitat Index
- d) Benthic Index
- e) Fish Tissue Contaminants Index

National: Fair condition (2.8/5.0 score)

	Overall	a) Water Quality	b) Sediment Quality	c) Coastal Habitat	d) Benthic	e) Fish Tissue Contaminants
National						
2008	2.8	3.9	2.8	1.7	2.1	3.4
2008	2.3	3.3	1.6	1.7	2.1	2.9
2004	2.3	3.2	2.1	1.7	2.0	2.7
2001	2.0	1.5	2.3	1.6	1.5	3.1
Gulf						
2008	2.2	3	1	1	1	5
2004	2.4	3	3	1	2	3
2001	1.8	1	3	1	1	3
Southeast						
2008	3.6	3	3	3	5	4
2004	3.8	4	4	3	3	5
2001	3.6	4	4	2	3	5
Northeast						
2008	2.4	4	2	4	1	1
2004	1.8	2	1	4	1	1
2001	1.8	1	2	3	1	2
Alaska						
2008	5.0	5	5	N/A	N/A	5
2004	N/A	N/A	N/A	N/A	N/A	N/A
2001	N/A	N/A	N/A	N/A	N/A	N/A
Hawaii						
2008	4.5	5	4	N/A	N/A	N/A
2004	N/A	N/A	N/A	N/A	N/A	N/A
2001	N/A	N/A	N/A	N/A	N/A	N/A
West Coast						
2008	2.4	3	2	1	5	1
2004	2.0	3	2	1	3	1
2001	2.0	1	2	1	3	3
Great Lakes						
2008	2.2	3	1	2	2	3
2004	2.2	3	1	2	2	3
2001	1.4	1	1	1	1	3
Puerto Rico						
2008	1.7	3	1	N/A	1	N/A
2004	1.7	3	1	N/A	1	N/A
2001	N/A	N/A	N/A	N/A	N/A	N/A

* Includes data on Hawaii and Alaska, unlike previous reports

Key:

Poor = <2

Fair to Poor = 2 to <2.3

Fair = 2.3 to 3.7

Fair to Good = >3.7 to 4.0

Good = >4.0

Source: National Coastal Condition Report III

Coverage: All coastal states; Puerto Rico

Last updated by OCRM: 2009 Report (using 2008 NCCRIII)

13. Number of non-native species detected in tidal waters

National: 506*

**This total includes non-native species of invertebrates, protozoans, algae, and fungi detected in tidal waters. Most are marine and estuarine species, although a small number are freshwater species occurring in freshwater reaches of estuaries. Of the 506 species, 433 are considered to have established populations, while the rest have not become established or have unknown status. The total does not include vertebrates and vascular plants.*

Source: National Exotic Marine and Estuarine Species Information System (NEMESIS), Smithsonian Environmental Research Center

Coverage: Tidal waters of the continental U.S. Atlantic, Gulf, and Pacific coasts

Last updated by OCRM: 2010 Report (using data generated from the NEMESIS database in a November 2010 query)

Proportion of Federal Disaster Declarations occurring in coastal states and territories

Year	Proportion
2009	32/59
2008	34/75
2007	33/63
2006	34/52
2005	30/48

Source: Federal Emergency Management Agency (FEMA)
Coverage: All coastal states and territories
Last updated by OCRM: 2010 Report (using 2009 data)

14. Proportion of coastal Federal Disaster Declarations directly related to coastal hazards

Year	Proportion
2009	5/32
2008	13/34
2007	1/33
2006	2/34
2005	15/30

Source: Federal Emergency Management Agency (FEMA)
Coverage: All coastal states and territories
Last updated by OCRM: 2010 Report (using 2009 data)

15. Total estimated cost of all billion-dollar weather disasters related to coastal hazards

Year	Estimated Cost
2009	N/A: no billion-dollar coastal hazard disasters
2008	At least \$33.2 billion
2007	N/A: no billion-dollar coastal hazard disasters
2006	N/A: no billion-dollar coastal hazard disasters
2005	At least \$170.1 billion

Source: NOAA National Climatic Data Center (NCDC)
Coverage: All coastal states and territories
Last updated by OCRM: 2010 Report (using 2009 data)