

# SNAPSHOTS

. . . . . of The Human Condition on Cape Cod

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## Young People of Cape Cod: Ages Birth – 9 Years

Barnstable County (MA)  
Department of Human Services  
Information Services

July 2008

**SNAPSHOTS** is a series of reports published by the Barnstable County (MA)  
Department of Human Services, Information Services Section.

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**Young People of Cape Cod: Ages Birth – 9 Years**

**SNAPSHOTS of the Human Condition on Cape Cod Series**

Publication: 02-001

Revision: D

July 31, 2008

Barnstable County (MA) Department of Human Services

POB 427, Barnstable, MA 02630

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# INTRODUCTION

This report provides a “snapshot” of the status of young people ages birth to nine years living in Barnstable County. It is organized into the following categories: **Caring Environment** (child day care and foster care); **Education** (public school enrollment, student demographics for each of the Cape’s twenty-one school districts, early childhood education, and MCAS results); **Health** (prenatal care, low birthweight, Early Intervention and WIC program participation, lead poisoning indicators, and health insurance coverage); **Income Security** (poverty/low income and TAFDC); **Public Safety** (child abuse/neglect); and **Vital Statistics** (births/birth rates, fertility rates, death/mortality indicators, SIDS deaths, age distributions, and population counts).

The goal of this report is to provide a snapshot of the status of the youngest residents of Barnstable County. This glimpse of the condition of persons ages birth to 9 years provides valuable information that can be helpful in identifying need and may therefore serves to improve the “human condition” for Cape Cod’s youngest population. Whenever possible, the latest (typically, 2005 or 2006) data are shown, with Census 2000 and American Community Survey – 2006 data used as the baseline. Comparisons with previous years are shown when data are available. While the emphasis of this report is on Barnstable County (Cape Cod), state and national data are provided for comparison where appropriate.

## CARING ENVIRONMENT

### Child Day Care

According to the Massachusetts Dept. of Early Education and Care (EEC, the State licensing agency), licensed day care slots include; group day care, school-age child care, family child care, large family child care, and family child care plus. Note: Public school run preschools and after school programs, and programs run by private elementary schools are not required to carry a license from EEC. (Child care licensing details are available from the following web site: [http://www.eec.state.ma.us/oo\\_licensing.aspx](http://www.eec.state.ma.us/oo_licensing.aspx))

Table 1 shows the number of licensed childcare slots for each town on Cape Cod for the years 2001-2007.

**Table 1. Number of Licensed Child Care Slots in Barnstable County: Years 2001-2007**

Town	Lic. Slots in 2001 Count	Lic. Slots in 2002 Count	Lic. Slots in 2003 Count	Lic. Slots in 2004 Count	Lic. Slots in 2005 Count	Lic. Slots in 2006 Count	Lic. Slots in 2007 Count
Barnstable	1,332	1,402	1,362	1,379	1,400	1,401	1,452
Bourne	403	403	424	348	391	382	440
Brewster	343	409	412	387	346	330	331
Chatham	133	101	88	76	74	74	84
Dennis	281	272	398	281	297	274	253
Eastham	122	110	84	74	97	110	110
Falmouth	759	795	901	914	871	915	771
Harwich	211	197	239	242	260	250	247
Mashpee	261	292	279	295	324	312	440
Orleans	98	104	118	118	129	134	145

Provincetown	6	6	6	6	6	6	0
Sandwich	385	441	465	493	483	497	507
Truro	6	10	10	10	10	10	10
Wellfleet	26	21	15	21	41	61	67
Yarmouth	440	440	408	398	392	398	365
<b>Barnstable County</b>	<b>4,806</b>	<b>5,003</b>	<b>5,209</b>	<b>5,042</b>	<b>5,121</b>	<b>5,154</b>	<b>5,222</b>
Massachusetts	220,316	225,582	226,200	227,115	225,120	223,680	220,168

Table 1 Notes:

- Data Source: 2001-2007 data from Mass. Dept. of Public Health, MassCHIP Custom Report, entitled, *Licensed Child Care Slots, 1998-2007, Barnstable County Towns*, copyright 1995-2008, available from Barnstable County Dept. Human Services, Information Services Section, Data Bank Library.

### Analysis:

In addition to public school operated and private elementary school programs, in 2007 there were 5,222 licensed childcare slots within Barnstable County. Data in Table 1 show that over the past five years, the number of licensed childcare slots in the County has increased only 0.3% (+13 slots). Five Barnstable County towns (Dennis, Falmouth, Harwich, Provincetown, and Yarmouth) have seen declines in their numbers of licensed childcare slots.

### Foster Care

Table 2 provides estimates of the size of foster placement caseloads in Barnstable County for the years 2005 thru 2007.

**Table 2. Number of Young People in Foster Placement in Barnstable County: Years 2005 - 2007** (point-in-time estimates of foster placement cases)

Age Range of Young Person in Foster Placement	<u>Estimated</u> County Young People In Foster Care 2005 Count	Percent of <u>Est.</u> County Foster Placements in Age Range 2005 Percent	<u>Estimated</u> County Young People In Foster Care 2006 Count	Percent of <u>Est.</u> County Foster Placements in Age Range 2006 Percent	<u>Estimated</u> County Young People In Foster Care 2007 Count	Percent of <u>Est.</u> County Foster Placements in Age Range 2007 Percent
Younger Than 1 Yr.	16	9%	13	11%	3*	4%*
Ages 1-5 Years	28*	16%*	21*	18%*	23*	26%*
Ages 6-9 Years	38*	21%*	10*	8%*	10*	11%*
Ages 10-12 Years	24*	13%	16*	13%*	8*	9%*
Ages 13-15 Years	43	24%	24*	20%	18*	20%
Ages 16-17 Years	32	18%	35	29%	27	30%
<b>Barnstable County Totals</b>	<b>181</b>	<b>100%</b>	<b>119</b>	<b>100%</b>	<b>89</b>	<b>100%</b>

Table 2 Notes:

- Mass. Dept. of Public Health, MassCHIP custom report, *Children in Foster Care, 1998 and 2002-2007, Barnstable County*, copyright 1995-2008, available online at: <http://www.MassCHIPstate.ma.us>
- \* These are estimated ("Est.") caseloads based upon the most complete data available from

the Mass. Dept. of Public Health MassCHIP database.

**Analysis:**

Data in Table 2 show a point-in-time caseload of 89 children in foster care in Barnstable County at year-end 2007. An estimated four-in-ten (41%) were nine years old or younger and about six-in-ten (59%) were between ten and seventeen years of age. Three-in-ten of Cape Cod children in foster placement were five years old or younger. These counts represent the estimated population of children in foster placement in Barnstable County at that particular point in time (i.e. these are data for *a particular point in time—year-end*, and do not reflect the total number of cases processed over an entire year).

**EDUCATION**

This section covers education-related information for fifteen of Barnstable County’s twenty-one school districts for students of pre-kindergarten through fourth grade plus an overview of enrollment for all grades (PK-12). Data on school enrollment for academic year 2007/2008 are compared with data from 2006/2007. MCAS testing information is also shown, with the Grade Four Spring 2007 results for each of the sixteen school districts. Statistics on the gender and race/Hispanic identity of students enrolled in the Cape’s public school districts are provided. This section also includes pre-kindergarten enrollment and early childhood education (Head Start, etc.) enrollment within the public school districts.

**Public School Enrollment**

Information on public school enrollment covers pre-kindergarten through Grade Four with the assumption that this includes young people up to the age of nine years. Table 3 shows the public school enrollment totals for Pre-Kindergarten (separate) and Pre-Kindergarten through Grade Four for academic year 2007/2008 and compares these data to the previous year (2006/2007) enrollment for each school district.

**Table 3. Public School Enrollment in Pre-Kindergarten (PK) and PK – Grade Four For Barnstable County School Districts: Academic Years 2006/2007 and 2007/2008**

School District	2006/2007 PK Enrollment	2006/2007 PK-4 Enrollment	2007/2008 PK Enrollment	2007/2008 PK-4 Enrollment	PK-4 One-Year Change Count	PK-4 One-Year Change Percent
Barnstable	112	1,836	118	1,771	-65	-3.5%
Bourne	66	1,042	60	1,024	-18	-1.7%
Brewster	(see Nauset)	405	25	424	+19	+4.7%
Chatham	16	271	22	284	+13	+4.8%
Dennis-Yarmouth Reg.	75	1,466	70	1,430	-36	-2.5%
Eastham	(see Nauset)	200	(see Nauset)	191	-9	-4.5%
Falmouth	166	1,584	171	1,567	-17	-1.1%
Harwich	35	553	28	561	+8	+1.5%
Mashpee	40	792	69	775	-17	-2.2%
Nauset Reg. (PK)	69	69	0	0	-69	-100%

Orleans	(see Nauset)	160	16	164	+4	+2.5%
Provincetown	24	73	34	83	+10	+13.7%
Sandwich	68	1,472	61	1,358	-114	-7.8%
Truro	26	94	21	108	+14	+14.9%
Wellfleet	(see Nauset)	108	23	123	+15	+13.9%
Marstons Mills –East HMCS	0	473	0	474	+1	+0.2%
<b>Barnstable County Totals</b>	<b>697</b>	<b>10,598</b>	<b>718</b>	<b>10,347</b>	<b>-251</b>	<b>-2.4%</b>

Table 3 Notes:

- Data Source: Mass. Dept. of Education web site at 7/11/08. Enrollment counts are as of October 1st of each academic year.

### Analysis:

Overall, Barnstable County PK-Grade Four enrollment decreased more than two percent from October 1, 2006 to October 1, 2007. Pre-Kindergarten (PK) enrollment did, however, increase by 21 children (+3%) over that same period. Public school PK-4 enrollments decreased in two of the Cape Cod geographic region as follows: Upper-Cape by -3.4% and the Mid-Cape by -2.7%. The Lower/Outer-Cape PK-4 enrollments increased very slightly (by 0.3%).

Table 4 provides an overview of total enrollment in all grades (PK-12) in Cape Cod public schools.

**Table 4. Barnstable County Public School Enrollment** (including Charter Schools) **in PK– Grade 12:**  
**Academic Years 2006/2007 and 2007/2008** (Table 4 Notes: Same as for Table 3)

Grades	2006/2007 Public School PK-12 Enrollment	Percentage of Total P.S. 2006/2007 PK-12 Enrollment	2007/2008 Public School PK-12 Enrollment	Percentage of Total P.S. 2007/2008 PK-12 Enrollment	One-Year Change Count	One-Year Change Percent
<b>PK (separate)</b>	697	2%	718	3%	+21	+3.0%
<b>PK - 4</b>	10,598	36%	10,347	36%	-251	-2.4%
<b>5 - 12 Total:</b>						
<b>Gr. 5 - 8</b>	8,523	29%	8,379	30%	-144	-1.7%
<b>Gr. 9 - 12</b>	10,040	34%	9,772	34%	-268	-2.7%
<b>Barnstable County Totals</b>	<b>29,179</b>	<b>100%</b>	<b>28,444</b>	<b>100%</b>	<b>-735</b>	<b>-2.5%</b>

**Analysis:** Table 4 data show that total enrollment counts decreased in Barnstable County public school districts for Pre-Kindergarten through Grade Twelve (PK-12) over that past academic year, however, there was an increase for PK.

### Student Gender, Race, and Hispanic Identity

The school enrollment data for academic year 2007/2008 show that for all public school districts on Cape Cod, 52% of the students were male and 48% were female. By comparison, for all Massachusetts school districts (public and private) combined, student gender proportions are 51% male and 49% female (Data Source: Mass. Dept. of Education, 2007/2008 *Massachusetts State Report Card*, available online at: <http://profiles.doe.mass.edu/staterc/part1.asp>).

Table 5 provides Mass. Dept. of Education statistics on race of Barnstable County public school students of ALL ages for academic year 2007/2008. For comparison purposes, relevant Massachusetts public school enrollment race percentages are also shown.

**Table 5. Student Enrollment by Parent/Guardian-Identified Race/Ethnicity\* For Barnstable County Public School Districts (including Charter Schools): Academic Year 2007/2008**

School District	District 2007/2008 WHITE Count	District 2007/2008 AFRICAN AMER. Count	District 2007/2008 NATIVE AMER. Count	District 2007/2008 ASIAN Count	District 2007/2008 HISPANIC* Identity Count	District 2007/2008 <u>TOTAL</u> <u>Enrollment</u> Count
Barnstable	3,655	223	40	76	285	4,457**
Bourne	2,215	41	5	28	84	2,537**
Brewster	489	14	0	9	10	523
Chatham	640	11	2	11	30	710**
Dennis-Yarmouth Reg.	2,926	158	57	61	251	3,586**
Eastham	210	0	0	4	11	232
Falmouth	3,419	140	70	70	117	3,894**
Harwich	1,196	48	10	18	39	1,358
Mashpee	1,779	76	142	14	39	2054
Nauset Regional	1,452	18	2	20	34	1,528**
Orleans	179	3	3	6	3	198
Provincetown	149	14	1	10	23	195
Sandwich	3,524	22	4	54	18	3,622
Truro	122	2	0	3	7	137
Wellfleet	133	0	0	1	2	140
Barns. Horace Mann C.S.	701	36	16	10	53	854
CC Lighthouse Charter	199	2	0	4	8	216
CC Reg. Voc Tech. H.S.	631	22	7	0	42	724**
Marstons Mills East HMCS	448	4	3	4	4	474
Sturgis Charter School	315	11	0	1	9	352
Upper CC Voc. Tech H.S.	601	23	6	4	10	653
<b>Barnstable County Totals</b> (Count rounded from %)	<b>24,982**</b>	<b>866**</b>	<b>367**</b>	<b>407**</b>	<b>1,078**</b>	<b>28,444**</b>
<b>Barnstable County Totals</b> (Percent)	<b>87.8%</b>	<b>3.0%</b>	<b>1.3%</b>	<b>1.4%</b>	<b>3.8%</b>	<b>100%</b>
<b>Massachusetts Public School</b> <b>Totals (Percent)</b>	<b>70.8%</b>	<b>8.1%</b>	<b>0.3%</b>	<b>4.9%</b>	<b>13.9%</b>	<b>100%</b>

Table 5 Notes:

Counts (rounded from percentages) are as of October 1, 2007. Data Source: Mass. Dept. of Education web site, *School/District Profiles* as of 7/29/08.

\* Race category descriptions are per Mass. DOE documentation. "Hispanic identity" is considered by Mass. DOE to be a separate "race/ethnicity" category. Thus, for enrollment purposes, public school students identified by their parent/guardian as Hispanic are counted in a separate "Race/Ethnicity" category. Note: These data are in direct contradiction to the U.S. Census Bureau definition of Hispanic, in which, "persons of Hispanic origin may be of any race." Due to this difference in definition, CAUTION is advised in comparing data in Table 5 with any U.S. Census Bureau Race, Hispanic or Latino statistics.

\*\* Table 5 totals include "SPED Beyond 12" students. Totals are for PK-12 (28,419) plus a total of 25 ("SPED Beyond 12") students (at Barnstable, Bourne, Cape Cod Reg. Voc. Tech., Chatham, D-Y, Falmouth, and Nauset high schools).

## Early Childhood Education and Care Participation

Early Childhood Education and Care encompasses learning programs for infants, toddlers, and children through five years of age. In Massachusetts in 2002, these programs included the following;

- Early Intervention (ages 0-3),
- Early Head Start (ages 0-3),
- Head Start (ages 3-5),
- Community Partnership for Children [C.P.C.] (ages 3-4),
- Office of Child Care Services [OCCS] contracts, vouchers, teen (ages 0-12),
- Title 1 PreK (ages 3-5),
- Even Start (ages 0-7), and
- Public School PreK Special Education (ages 3-4).

Table 6.a shows estimated counts of Cape Cod young people participating in five key early childhood education and care programs in FY2002 (latest data available!). Massachusetts education officials estimate that demand for these programs and services is about 50% for infants/toddlers and 70% for preschoolers (age 3-5 years).

**Table 6.a Estimated Number of Infants, Toddlers, and Children (Ages 0-5 Years) in Barnstable County Participating in Key Early Childhood Education Programs: FY2002 (latest data available!).**

Town	Total Infants/- Children Ages 0-5 Yr. Count	Total ECE Program Capacity*	Town's Total ECE Capacity Percent	In Early Intervention Prog. Count	In Head Start Prog. Count	In C.P.C. Prog. Count	On OCCS contracts, vouchers, teen, etc. Count	In Public School PreK Sp. Ed. Count
Agers Served:	-	0-5 yrs	0-5 yrs	0-3 yrs	3-5 yrs	3-4 yrs	0-12 yrs	3-4 yrs
Barnstable	2,509	1,008	40%	141	79	177	561	30
Bourne	1,171	415	35%	63	40	94	76	15
Brewster	353	218	62%	17	10	34	33	16
Chatham	193	72	37%	9	5	25	4	5
Dennis	607	275	45%	51	26	133	64	15
Eastham	208	51	25%	11	6	39	14	9
Falmouth**	1,466	562	38%	58	49	65	5	34
Harwich	504	201	40%	27	18	45	20	15
Mashpee	766	187	24%	27	27	52	37	26
Orleans	159	118	74%	7	5	11	9	7
Provincetown	60	16	27%	4	5	9	18	4
Sandwich	1,329	407	31%	72	25	123	27	9
Truro	72	6	8%	5	1	10	2	1
Wellfleet	118	15	13%	4	4	39	3	5
Yarmouth	1,084	588	54%	57	46	162	131	28
<b>Barnstable County Totals</b>	<b>10,599</b>	<b>4,139</b>	<b>39%</b>	<b>553</b>	<b>346</b>	<b>1,018</b>	<b>1,074</b>	<b>219</b>

Table 6.a Notes:

- Data source: Mass. Dept. of Early Education and Care web site at 7/29/08.
- \* Full day (FTE) slots--if half-day programs, two children may fill one FTE slot.

\*\* In addition to those participants shown, Falmouth also had 48 Title 1 PreK (ages 3-5) participants. Recently, the Mass. Dept. of Early Childhood Education and Care has begun listing town-by-town counts of children (by age range) who are wait-listed for “subsidized child care.” Table 6.b shows these waitlist counts for the fifteen Cape Cod towns as of June 2005.\* (LATEST data available)

**Table 6.b Number of Infants, Toddlers, and Children (Ages 0-11 Years) in Barnstable County “Waitlisted” For Subsidized Child Care: As of June 2005\*\***

Town	Total “Waitlisted” Children	Infants	Toddlers	PreSchool (2.9-5 yrs)	School-Age (6-8 yrs)	School-Age (8-11 yrs)	School-Age (over 11 yrs)
	Count	Count	Count	Count	Count	Count	Count
Barnstable	146	25	43	41	15	12	3
Bourne	30	4	7	12	3	2	0
Brewster	18	1	6	6	1	2	1
Chatham	4	1	1	0	1	1	0
Dennis	48	8	12	10	10	2	3
Eastham	1	1	0	0	0	0	0
Falmouth	48	13	9	14	4	2	4
Harwich	26	2	5	7	7	4	1
Mashpee	37	9	10	6	4	5	0
Orleans	2	0	0	1	0	0	0
Provincetown	0	0	0	0	0	0	0
Sandwich	12	3	2	4	0	2	0
Truro	2	0	1	0	0	0	2
Wellfleet	7	1	2	2	0	0	0
Yarmouth	92	17	17	23	14	11	0
Upper-Cape	127	29	28	36	11	11	4
Mid-Cape	286	50	72	74	39	25	6
Lower/Outer-Cape	60	6	15	16	9	7	4
<b>Barnstable County Totals</b>	<b>473</b>	<b>85</b>	<b>115</b>	<b>126</b>	<b>59</b>	<b>43</b>	<b>14</b>

Table 6.b Notes:

- Data source: Mass. Dept. of Early Education and Care web site at 7/19/06.
- \* As of July 1, 2005, responsibility for reporting “waitlisted” children was transferred to the newly-formed Mass. Department of Early Education & Care (EEC).
- \*\* According to the EEC website, this is an “unduplicated” count of children eligible for subsidized child care who are waiting until funds/slots become available.” Data source web site address is: [http://www.eec.state.ma.us/kr\\_research.aspx](http://www.eec.state.ma.us/kr_research.aspx)

### Analysis:

Overall, on Cape Cod in FY 2002 (the latest year for which official participation data are available), there were just over 4,100 Early Childhood Education slots for about 10,600 young people ages 0-5 years. Based upon State demand estimates, Cape Cod then had a capacity deficit of about one-third—that is, over 2,100 Cape Cod young people were not receiving services for which there was a demand estimated by the State. Service limitations were most acute among our youngest residents. An estimated four-in-five infants and toddlers (under age 3) were not being served due to system capacity limitations. And only 2,650 of the Cape’s more than 4,850 3-5 years olds were being

served by key programs such as Head Start and Community Partnership for Children (CPC). Counts of “eligible” children “waitlisted” for subsidized child care shown in Table 6.b, indicate that the largest numbers of Cape Cod children “waiting until funds/slots become available,” are in the toddler-to-5 years of age range. As of June 2005, 473 Cape Cod children were on an official State waiting list for services—two-thirds of whom were under 5 years of age. Six-in-ten of the Cape’s “waitlisted” children lived in the Mid-Cape region and one-quarter lived on the Upper-Cape. Statewide, as of June 2005, there were 14,407 Massachusetts children (ages 0-11) “Waitlisted” for subsidized child care.

## Massachusetts Comprehensive Assessment System (MCAS) Results

Table 7 shows Grade Four MCAS test results for each school district on Cape Cod, for English-Language Arts (ELA) and Mathematics for Spring 2007 tests.

**Table 7. English-Language Arts and Mathematics MCAS Test Results by Cape Cod School District for Grade Four Showing Percentage of Students Scoring at Each Performance Level (i.e., Advanced, Proficient, Needs Improvement, Warning/Failing): Spring 2007 Testing Cycle.**

School District	ELA Adv. Percent	ELA Prof. Percent	ELA N.I. Percent	ELA Warn/F Percent	MATH Adv. Percent	MATH Prof. Percent	MATH N.I. Percent	MATH Warn/F Percent
Barnstable	15%	52%	28%	4%	25%	36%	31%	9%
Marstons Mills								
East HMCS	16%	53%	30%	0%	38%	25%	34%	3%
Bourne	4%	57%	30%	8%	13%	29%	48%	10%
Brewster	26%	58%	15%	1%	34%	42%	23%	1%
Chatham	20%	55%	22%	4%	33%	25%	35%	6%
Dennis-Yarmouth	4%	42%	36%	17%	8%	28%	42%	22%
Eastham	17%	61%	17%	5%	27%	34%	34%	5%
Falmouth	14%	55%	26%	6%	27%	36%	34%	4%
Harwich	14%	49%	33%	4%	31%	21%	42%	6%
Mashpee	11%	45%	39%	4%	20%	35%	35%	10%
Nauset Reg. (PK)	-	-	-	-	-	-	-	-
Orleans	26%	59%	6%	9%	43%	43%	14%	0%
Provincetown	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Sandwich	13%	48%	34%	5%	21%	26%	41%	11%
Truro	21%	50%	29%	0%	7%	57%	29%	7%
Wellfleet	15%	50%	20%	15%	30%	15%	45%	10%

Table 7 Notes:

- Data source: Mass. Dept. of Education web site at 7/29/08. Percentages are for Spring 2007 Grade Four testing cycle.
- N/A\* “Performance level percentages are not calculated if student group is less than 10.”

### Analysis:

These data show that Grade Four students from three of the smaller town school districts (Orleans, Brewster, and Chatham) tested at the highest proficiency levels in both English-Language Arts and

in Mathematics. These data also show that 10% or more of Grade Four students in five school districts scored in the “Warning/Failing” level in Mathematics. “Warning/Failing” percentages are especially high for three Upper-Cape school district (Mashpee, Bourne, and Sandwich) fourth graders. Students from virtually all school districts showed higher proficiency levels in Mathematics than they did in English-Language Arts—the one notable exception being Truro. Over one-half of Dennis-Yarmouth grade four students scored at the “Needs Improvement” or “Warning/Failure” performance levels in Mathematics and English-Language Arts.

## HEALTH

### Adequacy of Prenatal Care and Low Birthweight

Table 8 shows the percentages of Barnstable County mothers receiving adequate (or better) prenatal care for the years 1996-2006. Percentages shown in Table 8 indicate adequacy of utilization of prenatal care services, not quality of those services. Note: The 2006 adequacy of prenatal care percentage for Barnstable County is stated slightly differently in Table 10.

**Table 8. Adequacy of Prenatal Care of Barnstable County Mothers: Years 1996-2006**  
(Massachusetts percentages shown for comparison purposes)

Year	Number of Barnstable County Mothers Receiving Adequate(or Better) Prenatal Care	APNCU Index Barnstable County Mothers* Receiving Adequate(or Better) Prenatal Care**	APNCU Index Massachusetts Mothers* Receiving Adequate(or Better) Prenatal Care**
	Count	%	%
1996	1,681	82.5%	79.2%
1997	1,753	84.6%	81.9%
1998	1,765	86.1%	82.5%
1999	1,679	84.3%	82.4%
2000	1,671	83.9%	81.5%
2001	1,746	85.2%	84.5%
2002	1,702	86.6%	84.1%
2003	1,682	84.3%	83.8%
2004	1,664	86.1%	83.3%
2005	1,707	86.1%	83.0%
2006	1,611	84.6%	82.1%

Table 8 Notes:

- Data Source: Mass. Dept. of Public Health, Custom Report, entitled *Resident Births With Adequate Prenatal Care, 1996-2006, Barnstable County, MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library. Caution: Percentages are restated from prior editions of this SNAPSHOT report.
- \* Number of mothers receiving adequate prenatal care as a percentage of all resident births.
- \*\* Prior to 1996, Mass. DPH had used only the Kessner Index for measuring adequacy of prenatal care. In 1996, they added the more comprehensive Kotelchuck Adequacy of Prenatal Care Utilization (APNCU) Index. (See Appendix – Technical Notes of *Births 2006* report for additional details on prenatal care indexes. *Births 2006* report web site address: [http://www.mass.gov/Eeohhs2/docs/dph/research\\_epi/birth\\_report\\_2006.pdf](http://www.mass.gov/Eeohhs2/docs/dph/research_epi/birth_report_2006.pdf))

### Analysis:

Since at least 1996, a consistently higher percentage of Barnstable County mothers have received adequate (or better) prenatal care than have mothers statewide.

## Low Birthweight

Table 9 shows the percentage of low birthweight deliveries in Barnstable County and Massachusetts for the years 1990-2006.

**Table 9. Low Birthweight\* Deliveries in Barnstable County and Massachusetts: Years 1990-2006**

Year	Barnstable County Low Birthweight Deliveries Percent**	Massachusetts Low Birthweight Deliveries Percent
1990	5.3%	5.8%
1991	5.2%	5.9%
1992	5.8%	5.9%
1993	4.5%	6.2%
1994	5.5%	6.4%
1995	5.5%	6.4%
1996	5.8%	6.4%
1997	5.9%	7.0%
1998	6.4%	7.0%
1999	6.5%	7.1%
2000	6.0%	7.1%
2001	6.3%	7.2%
2002	6.2%	7.5%
2003	5.5%	7.6%
2004	7.7%	7.8%
2005	6.6%	7.9%
2006	7.5%	7.9%

Table 9 Notes:

- Data Sources: Mass. Dept. of Public Health, *Massachusetts Births 2006, Table 34: Birth Characteristics, Occurrence and Resident Births and Infant Deaths by County, Massachusetts 2006*, available online at:  
[http://www.mass.gov/Eeohhs2/docs/dph/research\\_epi/birth\\_report\\_2005.pdf](http://www.mass.gov/Eeohhs2/docs/dph/research_epi/birth_report_2005.pdf) [for 2005]  
[http://www.mass.gov/Eeohhs2/docs/dph/research\\_epi/birth\\_report\\_2006.pdf](http://www.mass.gov/Eeohhs2/docs/dph/research_epi/birth_report_2006.pdf) [for 2006]
- \* Low Birthweight is defined as less than 2,500 grams (5.5 lbs).
- \*\* Percentage of live births to mothers who report their usual place of residence as one of the fifteen towns of Barnstable County.

### Analysis:

Since at least 1990, a consistently lower (better!) percentage of Barnstable County babies have had a low birthweight than have babies statewide. However, the percentage of babies born to Barnstable County mothers of low-birthweight has been rising rather steadily since at least 1990.

## Prenatal Care, Low Birthweight, and Adolescent/Teen Births in Barnstable County

Table 10 shows statistics on prenatal health indicators, comparing Barnstable County and Massachusetts for the year 2006. For more details on adolescent/teen births, see SNAPSHOTS Report 02-002.

**Table 10. Prenatal Care and Birth Indicators For Barnstable County Births: Year 2006**

Births	Barnstable County Births Count	Percentage of County Births	Percentage of Massachusetts Births
Mother Had Adequate Prenatal Care*	1,611	85.1%	83.1%
Low Birthweight (under 2,500 grams)	143	7.5%	7.9%
Births to women age 17 or younger	17	0.9%	1.9%

Table 10 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP, *Kids Count Profile for Barnstable County*, copyright 1998-2008, available online at: <http://www.masschip.state.ma.us/InstantTopics/>  
\* Stated slightly differently here than in Table 8 (see also, Table 8 Notes).

## Early Intervention (EI) Program Participation

"Early Intervention in Massachusetts is a statewide, integrated, developmental service available to families of children between birth and three years of age. Children may be eligible for EI if they have developmental difficulties due to identified disabilities, or if typical development is at risk due to certain birth or environmental circumstances.

EI provides family-centered services that facilitate the developmental progress of eligible children. EI helps children acquire the skills they will need to continue to grow into happy and healthy members of the community.

### Who is Eligible for EI?

Any Massachusetts child up to three years of age and his/her family may be eligible for EI services if the child:

- Is not reaching age-appropriate milestones in one or more areas of development.
- Is diagnosed with a physical, emotional, or cognitive condition that may result in a developmental delay.
- Is at risk for developmental delay due to various biological and/or environmental factors." (Program Description Source: Mass DPH web site: <http://www.mass.gov/dph/fch/ei.htm>)

Table 11 shows the percentage of Early Intervention Program participants in Barnstable County for the years 1991-2005.

**Table 11. Early Intervention (EI) Program Participation in Barnstable County: Years 1991-2005**

Year	County Active EI Clients Under Age 1 Count	County Active EI Clients Under Age 1 Percent	County Active EI Clients Ages 1-2 Yrs Count	County Active EI Clients Ages 1-2 Yrs Percent	County Active EI Clients TOTAL Count
1991	70	45.6%	83	54.4%	153
1992	81	44.4%	102	55.6%	183
1993	74	38.7%	118	61.3%	192
1994	77	36.0%	137	64.0%	214
1995	107	42.5%	145	57.5%	252
1996	123	39.8%	186	60.2%	309
1997	146	42.4%	197	57.6%	343
1998	165	39.5%	253	60.5%	418
1999	163	36.7%	281	63.3%	444
2000	176	33.5%	345	66.5%	521
2001	207	37.6%	344	62.4%	551
2002	193	34.2%	372	65.8%	565
2003	164	29.9%	385	70.1%	549
2004	180	31.3%	395	68.7%	575
2005	184	31.5%	401	68.6%	585

Table 11 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report, *Early Intervention Participation, Active Clients, Calendar Years 1991-2005, Barnstable County, MA* copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.

## Women, Infants, and Children Program (WIC)

WIC (Women, Infants and Children) is a federal program that funds nutrition programs through the US Dept. of Agriculture under Section 17 of the Child Nutrition Act of 1966.

The WIC target population is, “low-income, nutritionally at risk:

- Pregnant women (through pregnancy and up to 6 weeks after birth or after pregnancy ends).
- Breastfeeding women (up to infant's 1st birthday)
- Nonbreastfeeding postpartum women (up to 6 months after the birth of an infant or after pregnancy ends)
- Infants (up to 1st birthday). WIC serves 45 percent of all infants born in the United States.
- Children up to their 5th birthday.”

(Program Description Source: <http://www.fns.usda.gov/wic/aboutwic/wicatag glance.htm>)

To be eligible on the basis of income, applicants' gross income (i.e. before taxes are withheld) must fall at or below 185 percent of the U.S. Poverty Income Guidelines. (Program Description Source: U.S. Dept. of Agriculture, available online at: <http://www.fns.usda.gov/wic/howtoapply/incomeguidelines06-07.htm>; and *Frequently Asked Questions*, available online at: <http://www.fns.usda.gov/wic/FAQs/faq.htm>). In FY 2007 there were 118,072 recipients of WIC benefits in Massachusetts (Data Source: U.S. Dept. of Agriculture, available online at: <http://www.fns.usda.gov/pd>).

Table 12 shows the total count of infant and children WIC participants for the years 2000 through 2005 and 2007 for Barnstable County at mid-year (June count).

**Table 12. Women, Infants, and Children Program (WIC) Participation in Barnstable County: June 2000 - June 2005 and June 2007**

Date (active caseload)	Barnstable County Infants (birth to 1st birthday) Count	Barnstable County Young Children (1 to 5 <sup>th</sup> birthday) Count	Barnstable County TOTAL WIC Participants Count
June 2000	642	1,817	3,086
June 2001	653	1,665	2,972
June 2002	633	1,552	2,863
June 2003	651	1,397	2,729
June 2004	N/A	N/A	N/A
June 2005	609	1,271	2,487
June 2007	715	1,357	2,801

Table 12 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report, *WIC Participation, June 2002-2005, except 2004, 2006, Barnstable County, MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.

Table 13 provides information on WIC participation in Barnstable County on a town-by-town basis for the years 2005 and 2007.

**Table 13. WIC Program Participation in Barnstable County Towns: Years 2005 and 2007.**

Note: Data for years 2004 and 2006 are not available.

Town	Town 2005 Infant Participants	Town 2005 Yng. Children Participants	Town 2005 TOTAL WIC Part's	Town 2007 Infant Participants	Town 2007 Yng. Children Participants	Town 2007 TOTAL WIC Part's
	Age Range: Birth Year	1-4 yrs.	All	Birth Year	1-4 yrs.	All
Barnstable	166	305	648	211	373	797
Bourne	62	146	261	69	145	286
Brewster	12	30	55	13	30	58
Chatham	7	20	39	N/A	24	33
Dennis	45	108	205	68	104	242
Eastham	7	33	55	11	27	47
Falmouth	76	171	318	103	190	377
Harwich	30	74	140	31	67	128
Mashpee	43	88	170	38	72	148
Orleans	9	27	48	17	34	70
Provincetown	8	20	36	7	14	33
Sandwich	46	56	134	27	56	114
Truro	N/A	N/A	6	N/A	5	14
Wellfleet	6	20	31	8	22	37

Yarmouth	91	169	341	105	194	417
<b>Barnstable County Totals</b>	<b>609</b>	<b>1,271</b>	<b>2,487</b>	<b>715</b>	<b>1,357</b>	<b>2,801</b>

Table 13 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report, *WIC Participation, June 2002-2005 x 2004 and 2006, Barnstable County, MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.
- N/A means Not Available.

## Health Insurance Coverage (DUP)

In Barnstable County, almost one-in-ten (9.0%) persons age 17 years or younger were without health insurance in the Fall of 2007. This percentage represents an estimated 3,690 Cape Cod children who were without health insurance coverage at the time of survey (Nov.-Dec. 2007). Among our most needy families, we estimate that almost ten percent (9.8%) of children did not have health insurance coverage. (Data Source: Monitoring The Human Condition Study, Annual Report of Findings - 2008, available online at:

[http://www.bchumanservices.net/page.php?99,,150337p,bar2573,0,0,Index,ck\\_.html](http://www.bchumanservices.net/page.php?99,,150337p,bar2573,0,0,Index,ck_.html)  
See Section 5.5.2, Health & Healthcare).

## Lead Poisoning

Table 14 shows lead poisoning morbidity indicators for Barnstable County for FY 1998-2006.

**Table 14. Lead Poisoning Cases in Barnstable County Among Young Children: Fiscal Years 1998-2006**

Fiscal Year (7/1 thru 6/30)	Barnstable County Ages 6 Mo.-5 Yrs at MODERATE RISK* of Lead Poisoning Count	Barnstable County Ages 6 Mo.-5 Yrs at IMMEDIATE RISK* of Lead Poisoning Count	Barnstable County Ages 6 Mo.-5 Yrs Lead POISONED* Count	Barnstable County <b>TOTAL</b> Cases of Elevated Blood Levels* Count
1997/98	2	1	2	5
1998/99	5	2	1	8
1999/00	2	2	0	4
2000/01	2	0	0	2
2001/02	3	0	0	3
2002/03	5	3	0	9
2003/04	5	0	0	6
2004/05	2	0	0	2
2005/06	N/A	0	0	N/A

Table 14 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report, *Lead Poisoning Cases, FY2000-2005, Barnstable County MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.
  - N/A means Not Available.
- \* Risk levels are defined as follows: “Elevated Blood Lead Level”  $\geq 15\mu\text{g/dL}$ , “Moderate” 15-19  $\mu\text{g/dL}$ , “Immediate” 20-24  $\mu\text{g/dL}$ , “Poisoned”  $\geq 25\mu\text{g/dL}$ .

**Analysis:**

Data in Table 14 show that over the years 1998-2005, an average of about five (4.9) young children on Cape Cod have been diagnosed with elevated levels of lead in their blood. During that period, a total of three of these young people were considered to have been lead poisoned—and all of those lead poisonings occurred prior to FY 2001.

## INCOME SECURITY

### Child Poverty, “Poor Children,” and Children Living in “Low Income” Families

Poverty is very difficult to measure with any degree of accuracy. In fact, no one “real” measure of poverty exists today—this is especially true for young people who, by definition, don’t have income themselves, thus provide few indicators of financial hardship. In this section, we show four different recent measures of economic disadvantage among the younger residents of Cape Cod. Each of these measures is based upon a different type of source information, each uses a different method of calculation, and the time period of data collection differs over a few years. Each does, however, give us a glimpse of the economic disadvantage of the Cape’s young people. Taken together, these four measures represent our best understanding of the economic hardship faced by young people and their families across the County.

#### Measure #1: U.S. Census Bureau Census 2000 Child Poverty Statistics

Table 15 shows Census 2000 poverty estimates for persons ages 17 years or younger for all fifteen Barnstable County towns. For comparison purposes, data for Massachusetts and the United States are also shown.

**Table 15. U.S. Census Bureau Poverty\* Estimates for Persons Ages 17 Years or Younger in Barnstable County Towns: Income Year 1999** (related children only\*\*).

Data Source: Census 2000, Table DP-3.

Town	Town Persons Ages 5-17 Years in Poverty* in 1999 Count	Town Percentage of Persons Ages 5- 17 Years in Poverty* in 1999 Percent	Town Persons Age 17 Years or Younger in Poverty* in 1999 Count	Town Percentage of Persons Age 17 Years or Younger in Poverty* in 1999 Percent
Barnstable (town)	917	11.8%	1,199	11.7%
Bourne	287	10.2%	412	10.4%
Brewster	25	1.5%	28	1.4%
Chatham	42	6.4%	42	5.1%
Dennis	168	8.4%	272	10.4%
Eastham	47	6.1%	61	6.5%
Falmouth	486	9.4%	584	8.8%
Harwich	160	9.1%	185	8.4%
Mashpee	155	6.8%	203	6.6%
Orleans	45	6.5%	45	5.6%
Provincetown	60	27.3%	63	22.7%
Sandwich	95	2.2%	186	3.3%
Truro	19	6.6%	30	8.5%

Wellfleet	31	8.6%	47	9.7%
Yarmouth	330	10.6%	460	11.1%
<b>Barnstable County Totals</b>	<b>2,867</b>	<b>8.5%</b>	<b>3,817</b>	<b>8.6%</b>
Massachusetts Totals	122,354	11.4%	170,795	11.6%
United States Totals	7,974,006	15.4%	11,386,031	16.1%

Table 15 Notes:

- Data Source: U.S. Census Bureau, Census 2000, Tables DP-3, *Profile of Selected Economic Characteristics: 2000*, available through Barnstable County Dept. Human Services, Information Services, Data Bank Library.
- \* “Poverty”: Living in a household where the 1999 income fell below 100% of the appropriate Federal poverty threshold.
- \*\* “Related children,” include all persons age 17 years or younger related to the householder, regardless of their marital status. Excluded are spouses of householders.

## Measure #2: U.S. Census Bureau Statistics on “Poverty Among 5-17 Year-Old Children”

Table 16 shows U.S. Census Bureau’s estimates for each public school district in Barnstable County in the year 2005 for school age persons (ages 5-17) living in families in poverty. These data are estimates based upon a mathematical model developed by the Census Bureau using information from family tax returns, Food Stamp recipient data, and Census 2000 samples. For comparison purposes, data for Massachusetts and the United States are also shown.

**Table 16. Poverty Among School-Age Young People, Estimates Barnstable County Public School Districts: Year 2005.** Data Source: U.S. Census Bureau, Small Area Income and Poverty Estimates (SAIPE)

School District	School District Grade Range	District Young People (Ages 5-17 Yrs) in Families in Poverty* in 2005 Est. Count	District Young People (Ages 5-17 Yrs) in Families in Poverty* in 2005 Est. Percent**
Barnstable (town)	PK-12	868	11.9%
Bourne	K-12	277	10.3%
Brewster	K-5	35	4.9%
Chatham	K-12	45	7.2%
Dennis-Yarmouth Reg.	K-12	479	9.9%
Eastham	K-5	18	5.6%
Falmouth	K-12	465	9.8%
Harwich	PK-12	148	9.2%
Mashpee	K-12	174	7.8%
Nauset Regional	6-12	97	5.4%
Orleans	K-5	26	8.5%
Provincetown	K-12	33	16.9%

Sandwich	K-12	174	4.3%
Truro	K-12	19	7.1%
Wellfleet	K-5	16	12.2%
Barns. Horace Mann Charter	5-6	N/A	N/A
CC Lighthouse Charter	6-8	N/A	N/A
Cape Cod Reg. Voc. Tech	9-12	N/A	N/A
Marstons Mills East HMCS	N/A	N/A	N/A
Sturgis Charter School	9-12	N/A	N/A
Upper Cape Voc. Tech	9-12	N/A	N/A
<b>Barnstable County Totals</b>	<b>PK-12</b>	<b>2,874</b>	<b>9.0%</b>
Massachusetts Totals	Pk-12	129,183	12.5%
United States Totals	PK-12	8,765,541	17.0%

Table 16 Notes:

- Data Source: U.S. Census Bureau: *Small Area Income and Poverty Estimates (SAIPE) for Year 2005*, as of January 2008. Available online at: <http://www.census.gov/hhes/www/saipe/index.html>
- N/A means Not Available
- \* “Related” (see Table 15 Notes) children ages 5-17 years residing in families whose prior year income falls below 100% of the poverty threshold appropriate to that family.
- \*\* Denominator is the number of “school age children” in the school district related by blood, marriage, or adoption to the householder in the home in which they reside.

### Measure #3: Mass. Dept. of Education “Low Income” Student Statistics

The Mass. Dept. of Education defines a “Low-income” student as one who:

- is eligible for free or reduced price lunch; or
- receives Transitional Aid to Families benefits; or
- is eligible for food stamps.

The proportion of students classified as “low-income” by school administrators can be considered a rough measure of low-income status of young people families in the community. For all public schools on Cape Cod in 2007/2008 5,172 students were officially classified as “low income.” This number represents nearly one-in-every five public school students in Barnstable County. Table 17 shows young people “low income” statistics for each public school district in Barnstable County at the beginning of the academic year 2007/2008 (i.e., as of Oct 1, 2007). For comparison purposes, Massachusetts data are also shown.

**Table 17. “Low Income” Students in Barnstable County Public School Districts: Academic Year 2007/2008.** Data Source: Mass. Dept. of Education, *School/District Profiles*.

School District	School District Grade Range	District “Low Income” Students* in Academic Year 2007/08 Est. Count	District “Low Income” Students* in Academic Year 2007/08 Percent**
Barnstable (town)	PK-12	912	20.5%
Bourne	K-12	536	21.1%

Brewster	K-5	59	11.3%
Chatham	K-12	97	13.7%
Dennis-Yarmouth Reg.	K-12	1,098	30.6%
Eastham	K-5	43	18.5%
Falmouth	K-12	705	18.1%
Harwich	PK-12	225	16.6%
Mashpee	K-12	362	17.6%
Nauset Regional	6-12	180	11.8%
Orleans	K-5	14	7.1%
Provincetown	K-12	61	31.3%
Sandwich	K-12	219	6.0%
Truro	K-12	38	27.7%
Wellfleet	K-5	9	6.4%
Barns. Horace Mann Charter	5-6	197	23.1%
CC Lighthouse Charter	6-8	16	7.4%
Cape Cod Reg. Voc. Tech	9-12	206	28.5%
Marstons Mills HMCS	N/A	33	7.0%
Sturgis Charter School	9-12	36	10.2%
Upper Cape Voc. Tech	9-12	126	19.3%
<b>Barnstable County Totals</b>	<b>PK-12</b>	<b>5,172</b>	<b>18.2%</b>
Massachusetts Totals	PK-12	283,827	29.5%

Table 17 Notes:

- Data Source: Massachusetts Dept. of Education, *School/District Profiles*, as of 7/29/08.  
Available online at: <http://www.doe.mass.edu/infoservices>
- \* Students who meet, “ANY ONE of the following definitions of low income:
  1. The student is eligible for free or reduced price lunch; or
  2. The student receives Transitional Aid to Families benefits; or
  3. The student is eligible for food stamps”
- \*\* Denominator is the total number of students enrolled in the school district.

#### Measure #4: TAFDC Recipient Statistics

Transitional Aid to Families with Dependent Children (TAFDC), “provides time-limited cash benefits to certain families with dependent children and pregnant women in the last 120 days of pregnancy.” (Program Description from Mass. Dept. of Transitional Assistance web site. See Table 18 Notes for web site address). Table 18 shows the latest available TAFDC recipient statistics for families with young people (ages 17 years or younger) for all fifteen Barnstable County towns. For comparison purposes, data for Massachusetts are also shown.

**Table 18. Number of Transitional Aid To Families With Dependent Children (TAFDC) Recipients in Barnstable County: Years 2003-2007**

Town	Town TAFDC Cases* in 2003 Count	Town TAFDC Cases* in 2004 Count	Town TAFDC Cases* in 2005 Count	Town TAFDC Cases* in 2006 Count	Town TAFDC Cases* in 2007 Count	Town 5-Year AVERAGE 2003-2007 Count
Barnstable (town)	298	272	234	248	254	261
Bourne	97	84	81	71	98	86
Brewster	10	16	15	17	12	14
Chatham	12	6	3	7	10	8
Dennis	83	83	85	83	78	82
Eastham	15	13	7	8	12	11
Falmouth	144	124	128	105	92	119
Harwich	23	26	33	37	23	28
Mashpee	61	64	68	52	56	60
Orleans	5	6	7	12	13	9
Provincetown	5	6	7	6	1	5
Sandwich	28	29	28	40	30	31
Truro	2	3	5	1	3	3
Wellfleet	4	8	10	8	6	7
Yarmouth	130	149	166	139	124	142
<b>Barnstable County Totals</b>	<b>917</b>	<b>889</b>	<b>877</b>	<b>834</b>	<b>812</b>	<b>866</b>
Massachusetts Totals	46,916	46,492	46,399	44,761	43,004	45,514

Table 18 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report, *TAFDC Recipients – 1998-2007, Barnstable County, MA Towns*, available through Barnstable County Dept. Human Services, Information Services, Data Bank Library.

\* TAFDC “recipient” cases: Each household receiving TAFDC is referred to as a “case” on the Mass. Dept. of Transitional Assistance web site. The May 2008 Massachusetts state-wide caseload statistics show each case representing an average of 2.3 persons. State-wide caseload counts are available online at: [http://www.mass.gov/?pageID=eohhs2modulechunk&&L=4&L0=Home&L1=Government&L2=Departments+and+Divisions&L3=Department+of+Transitional+Assistance&sid=Eeohhs2&b=terminalcontent&f=dta\\_r\\_finassist\\_tafdc&csid=Eeohhs2](http://www.mass.gov/?pageID=eohhs2modulechunk&&L=4&L0=Home&L1=Government&L2=Departments+and+Divisions&L3=Department+of+Transitional+Assistance&sid=Eeohhs2&b=terminalcontent&f=dta_r_finassist_tafdc&csid=Eeohhs2) and at: <http://www.mass.gov/Eeohhs2/docs/dta/may08.pdf>

**Analysis:**

In recent years, economic disadvantage among Cape Cod’s youngest residents has been indicated at about 9%-12% of the 0-17 year-old population. Among school age young people (ages 5-17) economic hardship estimates range from 9% to 18% depending upon the measure employed. That is, somewhere between 2,600 and 5,100 public school students on Cape Cod can be

considered economically disadvantaged. In the 2007/2008 academic year, three school public school districts (Barnstable, Dennis/Yarmouth, and Falmouth) record the largest NUMBERS of students facing economic hardship, while several other school districts (Bourne, Dennis/Yarmouth Reg., Provincetown, Barnstable Horace Mann Charter School, and Cape Cod Voc. Tech. High School) have above-average PERCENTAGES of students who are economically disadvantaged. TAFDC recipient data show that Massachusetts state-wide caseloads have been declining steadily since 2003 (averaging about 46,000 cases over the past 5 years), so too are caseloads in Barnstable County, with the number of TAFDC recipients on Cape Cod in 2007 12% lower than the 2003 level.

## PUBLIC SAFETY

### Abuse/Neglect

Table 19 shows the number of cases in 1997 (the **LATEST** year for which statistics have been made public!) of alleged abuse/neglect of young people in Barnstable County. This information, provided by the Mass. Dept. of Public Health, notes that the term “abuse” refers to “physical, emotional, or sexual abuse or neglect, including congenital drug addiction and failure to thrive.” Note: The *duplicated* count re-counts the young person if there is more than one abuse/neglect report (complaint) during the year, while the *unduplicated* count counts a young person only one time, even though there may be more than one report during the year. Verified investigations means that the report of abuse/neglect has been substantiated by a formal investigation.

**Table 19. Reported Cases of Child Abuse/Neglect in Barnstable County: Year 1997**  
(**LATEST** year for which data is available!)

Reports of Abuse/Neglect of Young People	Barnstable County Abuse/Neglect Cases in <u>1997</u> Count
Children allegedly abused/neglected (unduplicated count)	2,180
Children allegedly abused/neglected (duplicated count)	3,217
Children with investigations of abuse/neglect (duplicated count)	1,861
Children with verified investigations of abuse/neglect (duplicated count)	1,038

Table 19 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP, *Kids Count Profile for Barnstable County*, copyright 1998-2008, available online at: <http://www.masschip.state.ma.us/InstantTopics/>

#### Analysis:

**CAUTION:** These data are extremely outdated! While recent County-level child abuse and neglect statistics are not available, we do have recent state-level, Massachusetts statistics. These indicate that in 2006, over 22,000 Massachusetts young people were substantiated (verified) as victims of child maltreatment. Data Source: *Child Maltreatment, 2006*, USDHHS, Administration For Children, and Families, Administration on Child, Youth and Family, Children’s Bureau, Web site address: <http://www.acf.hhs.gov/programs/cb/pubs/cm06/cm06.pdf>



## “LATCH-KEY” CHILDREN

“Latch-Key” children are persons age 17 or younger who, “arrive home from school to a house where no adult is present.” Recent (2008) Monitoring The Human Condition on Cape Cod survey data indicate that nearly one-quarter (23%) of Cape Cod households with children have at least one child who can be considered “latch-key.”

## VITAL STATISTICS

This section provides information on births, fertility rates, infant mortality, deaths due to injury and Sudden Infant Death Syndrome [SIDS], age distributions, and population counts.

### Births and Birth Rates

Table 20 shows the number of births and birth rate in Massachusetts for 1980, 1985, and 1990-2006.

**Table 20. Births and Birth Rate in Massachusetts: Years 1980, 1985, and 1990-2006**

Year	Massachusetts Births Count	Massachusetts Birth Rate*
1980	72,591	53.4
1985	81,781	57.5
1990	92,461	62.1
1991	88,176	59.6
1992	87,202	59.2
1993	84,627	57.8
1994	83,758	57.5
1995	81,562	56.3
1996	80,164	55.6
1997	80,321	56.0
1998	81,406	55.6
1999	80,866	55.9
2000	81,582	57.2
2001	81,014	56.8
2002	80,624	56.5
2003	80,167	56.2
2004	78,460	55.0
2005	76,824	55.6
2006	77,670	56.9

Table 20 Notes:

- Data Source: Mass. Dept. of Public Health, *Births 2006, Table 1: Trends in Birth Characteristics, Massachusetts: 1990-2006*, available online at: [http://www.mass.gov/Eeohhs2/docs/dph/research\\_epi/birth\\_report\\_2006.pdf](http://www.mass.gov/Eeohhs2/docs/dph/research_epi/birth_report_2006.pdf)
- \* Birth rate represents the total number of live births to women ages 15-44 per 1,000 women ages 15-44 years.

Table 21 shows births and fertility rates in 2006 for Barnstable County and Massachusetts by race and Hispanic origin for women ages 15 to 44 years.

**Table 21. Resident Births\* and Fertility Rates by Race/Hispanic Ethnicity For Barnstable County and Massachusetts: Year 2006\***

Mother's Race/Hispanic Origin	Barnstable County Births* Count 2006	Barnstable County Fertility Rate** 2006	Massachusetts Fertility Rate** 2006
Births to all women ages 15-44:	1,905	47.5	56.2
White non-Hispanic	1,650	44.6	49.9
Black non-Hispanic	69	53.6	67.9
Hispanic Ethnicity***	70	75.2	80.8
Asian/Pacific Islander	34	61.5	61.4
Missing or Unknown	78	N/A	N/A

Table 21 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Instant Topic, *Health Status Indicators Report for Barnstable County*, copyright 1995-2008 (percent Missing or Unknown added by researcher), available online at: <http://masschip.state.ma.us/InstantTopics/affiliate.htm>
- \* "Resident births" are those to mothers whose legal residence is in a Barnstable County town.
- \*\* Per 1,000 women ages 15-44 years in that race/Hispanic ethnicity group.
- \*\*\* "Hispanic Ethnicity" is defined in these DPH data as a separate "Race" category. Note: This is in direct contradiction to the U.S. Census Bureau definition of Hispanic, in which, "persons of Hispanic origin may be of any race." Due to this difference in definition, CAUTION is advised in comparing data in Tables 21, 23, and 25 with any U.S. Census Bureau Race, Hispanic or Latino statistics.

Table 22 shows the number of resident births in Barnstable County at the start of the past three decades and for the latest year for which birth data is publicly available (2006).

**Table 22. Resident Births\* in Barnstable County Towns: Years 1980, 1990, and 2006**

Town	Town Resident Births* in 1980 Count	Town Resident Births* in 1990 Count	Town Resident Births* in 2000 Count	Town Resident Births* in 2006 Count
Barnstable	391	575	481	492
Bourne	247	269	247	189
Brewster	59	113	52	60
Chatham	34	51	38	35
Dennis	124	163	115	109
Eastham	37	35	39	36
Falmouth	286	384	286	271
Harwich	96	109	102	100
Mashpee	48	177	152	138
Orleans	41	50	23	17
Provincetown	41	32	4	15

Sandwich	124	231	218	192
Truro	19	13	14	14
Wellfleet	23	21	17	12
Yarmouth	191	247	204	225
<b>Barnstable County Totals</b>	<b>1,761</b>	<b>2,470</b>	<b>1,992</b>	<b>1,905</b>

Table 22 Notes:

- The 1980 and 1990 data are from Cape Cod Commission, Cape Trends: Demographic and Economic Characteristics and Trends: Barnstable County - Cape Cod, 6<sup>th</sup> ed., 1998, table on p. 33 titled *Barnstable County Resident Births 1980-96*.
  - The 2000 data are from Mass. Dept. of Public Health, *Table 1: Trends in Birth Characteristics, Massachusetts: 1980, 1985, 1990-2002*, available online at: [http://www.state.ma.us/dph/bhsre/birth/02/births\\_a\\_02.pdf](http://www.state.ma.us/dph/bhsre/birth/02/births_a_02.pdf).
  - The 2006 data are from Mass. Dept. of Public Health, MassCHIP Custom Report, *Resident Births – 2002-2006, Barnstable County, MA Towns*, available through Barnstable County Dept. Human Services, Information Services, Data Bank Library.
- \* “Resident births” are those to mothers whose legal residence is in the town.

Table 23 shows births in Barnstable County for the year 2006 by race/Hispanic ethnicity\*.

**Table 23. Births by Race/Hispanic Ethnicity\* in Barnstable County and Massachusetts: Year 2006.** Data Source: Mass. Dept. of Public Health.

<b>Mother’s Race/Hispanic Origin</b>	<b>County Births in 2006 Count</b>	<b>Percentage of County Births in 2006 Percent</b>	<b>Percentage of Massachusetts Births in 2006 Percent</b>
White, non-Hispanic	1,654	86.8%	68.2%
Black, non-Hispanic	69	3.6%	8.3%
Hispanic Ethnicity*	70	3.7%	13.8%
Asian/Pacific Islander	34	1.8%	7.0%
American Indian non-Hispanic	17	0.9%	0.2%
Missing or Unknown	54	3.2%	2.5%
<b>Total Births</b>	<b>1,905</b>	<b>100%</b>	<b>100%</b>

Table 23 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP, Custom Report entitled, *Resident Births by Race-Ethnicity – 2002-2006 - Barnstable County MA*, copyright 1998-2008, (percent Missing or Unknown added by researcher) available through Barnstable County Dept. Human Services, Information Services, Data Bank Library.
- \* “Hispanic Ethnicity” is defined in these DPH data as a separate “Race” category. Note: This is in direct contradiction to the U.S. Census Bureau definition of Hispanic, in which, “persons of Hispanic origin may be of any race.” Due to this difference in definition, CAUTION is advised in comparing data in Tables 21, 23, and 25 with any U.S. Census Bureau Race, Hispanic or Latino statistics.

## Deaths/Mortality Indicators

Table 24 shows mortality indicators for Barnstable County for the years 2000-2005 with comparisons to Massachusetts mortality rates.

**Table 24. Mortality Indicators For Barnstable County and Massachusetts For Decedents Under Age 20 Years: Years 2000-2005.** Data Source: Mass. Dept. of Public Health

Year	Barns. County TOTAL Deaths Under Age 20 Count	Barns. County TOTAL Deaths Under Age 20 Rate*	Mass. TOTAL Deaths Under Age 20 Rate*	Barns. County INJURY Deaths Under Age 20 Count	Barns. County INJURY Deaths Under Age 20 Rate*	Mass. INJURY Deaths Under Age 20 Rate*
2000	24	48.6	43.1	6**	12.2**	10.9**
2001	28	56.8	45.0	13	26.4	12.2
2002	22	44.6	43.9	8	16.2	10.7
2003	26	52.7	44.2	7	14.2	11.8
2004	22	47.0	43.0	9	19.2	12.2
2005	16	34.8	41.4	8	17.4	10.9

Table 24 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP, Custom Report entitled, *Deaths, Total and Due to Injury, 2000-2005, Ages 0-19 Years, Barnstable County, MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.
- \* Age-specific rates, per 100,000 persons in age group.
- \*\* Year 2000 Injury-related death data have been revised by Mass. Dept. of Public Health in recent MassCHIP Custom Reports. Current data differ from those shown in Revision A of this SNAPSHOT Report [#02-001].

## Infant Mortality and Sudden Infant Death Syndrome (SIDS) Deaths

Table 25 shows infant death counts and infant mortality rates in Barnstable County for the year 2005 by race/Hispanic ethnicity, with comparisons to Massachusetts infant mortality rates.

**Table 25. Infant Deaths and Infant Mortality Rate by Race/Hispanic Ethnicity\* in Barnstable County and Massachusetts: Year 2005**

Infant Mortality	County Infant Deaths in 2005 Count	County Year 2005 Infant Mortality Rate*	Massachusetts Year 2005 Infant Mortality Rate*
All Infant Deaths:	8	4.2	5.1
White non-Hispanic	5	3.0	4.3
Black non-Hispanic	1	14.5	10.4
Hispanic Ethnicity**	1	14.3	7.8
Asian non-Hispanic	0	0	3.4
Amer. Indian non-Hisp.	1	N/A	N/A

Table 25 Notes:

- Data Source: Mass. Dept. of Public Health, MassCHIP Custom Report entitled, *Infant Deaths, Due To All Causes, 2001-2005, Barnstable County MA*, copyright 1995-2008, available from Barnstable County Dept. of Human Services, Information Services Section, Data Bank Library.

- N/A means Not Available.
- \* Infant Mortality Rate is the number of deaths per 1,000 live births in a given year.
- \*\* “Hispanic Ethnicity” is defined in these DPH data as a separate “Race” category.  
 Note: This is in direct contradiction to the U.S. Census Bureau definition of Hispanic, in which, “persons of Hispanic origin may be of any race.” Due to this difference in definition, CAUTION is advised in comparing data in Tables 21, 23, and 25 with any U.S. Census Bureau Race, Hispanic or Latino statistics.

Table 26 provides infant death counts and Sudden Infant Death Syndrome (SIDS) death counts for Barnstable County for the years 1990-2005.

**Table 26. Infant Deaths\* and SIDS Deaths in Barnstable County: Years 1990-2005**

Year	Infant Deaths Count	SIDS Deaths Count
1990	N/A	3
1991	13	3
1992	13	1
1993	8	0
1994	17	2
1995	10	2
1996	4	1
1997	11	1
1998	11	2
1999	9	2
2000	13	0
2001	11	0
2002	10	1
2003	13	2
2004	9	1
2005	8	1

Table 26 Notes:

- Data Source: Data for 1995-98 from MassCHIP Custom Report, *Infant Death and SIDS Deaths 1995-98: Barnstable County Towns*, copyright 2002, available from Barnstable County Dept. Human Services, Information Services Section, Data Bank Library.
  - 2000-2005 data from MassCHIP Custom Report, *Infant and SIDS Deaths 2000-2005: Barnstable County Towns*, copyright 1995-2008, available from Barnstable County Dept. Human Services, Information Services Section, Data Bank Library.
  - N/A means Not Available.
- \* “Infant Death”: Death of a child younger than one year of age.

### Population of Young People Ages Birth to Nine Years in Barnstable County

This section covers the population of young people in Barnstable County ages birth to nine years, includes a breakdown of this age group by town, and compares this age category to the 10-to 19 year-olds.

**Table 27. Population of Young People Ages Birth - 9 Years in Barnstable County Towns: Years 2000 and 2007 (Projected)\***

Town	Town Number Under Age 5 in 2000 Count	Town Number Ages 5-9 in 2000 Count	Town Number Ages 0-9 <u>TOTAL</u> in 2000 Count	Town Number Under Age 5 in 2007* Count	Town Number Ages 5-9 in 2007* Count	Town Number Ages 0-9 <u>TOTAL</u> in 2007* Count	Projected Town Seven-Year Change 2000-2007* Count	Projected Town Seven-Year Change 2000-2007* Percent
Barnstable	2,509	2,994	5,503	2,712	2,852	5,564	+61	+1.1%
Bourne	1,171	1,136	2,307	1,253	1,242	2,495	+188	+8.1%
Brewster	353	600	953	405	479	884	-69	-7.2%
Chatham	193	220	413	179	189	368	-45	-10.9%
Dennis	607	718	1,325	648	680	1,328	+3	+0.2%
Eastham	208	249	457	192	204	396	-61	-13.3%
Falmouth	1,466	1,896	3,362	1,424	1,540	2,964	-398	-11.8%
Harwich	504	652	1,156	528	573	1,101	-55	-4.8%
Mashpee	766	996	1,762	938	1,007	1,945	+183	+10.4%
Orleans	159	227	386	142	162	304	-82	-21.2%
Provincetown	60	67	127	63	64	127	0	0.0%
Sandwich	1,329	1,659	2,988	1,483	1,581	3,064	+76	+2.5%
Truro	72	99	171	71	79	150	-21	-12.3%
Wellfleet	118	103	221	112	108	220	-1	-0.5%
Yarmouth	1,084	1,195	2,279	1,088	1,117	2,205	-74	-3.2%
<b>Barnstable County Totals</b>	<b>10,599</b>	<b>12,811</b>	<b>23,410</b>	<b>11,238</b>	<b>11,877</b>	<b>23,115</b>	<b>-295</b>	<b>-1.3%</b>
Massachusetts Totals	397,268	430,861	828,129	389,401	399,201	788,602	-39,527	-4.8%

Table 27 Notes:

- Data Source: Census 2000 information from *Profiles of General Demographic Characteristics: 2000 Census of Population and Housing*, demographic profiles selected by Barnstable County Dept. Human Services, Information Services Section, July 25, 2001.
- \* Counts for the year 2007 have been calculated by Barnstable County Dept. of Human Services based upon population PROJECTION data provided by the Massachusetts Institute For Economic and Social Research (MISER) at UMASS, Amherst—the State Data Center. Calculations use a linear interpolation between official Census 2000 counts and MISER Year 2010 Middle-Series population projections.

**Analysis:**

Table 27 data from the U.S. Census Bureau and projections by the Massachusetts State Data Center (MISER) indicate that the number of persons ages birth to nine years in Barnstable County was to decrease slightly, by about 300 persons (-1%), between the years 2000 and 2007.

Table 28 shows the distribution of persons ages birth to 19 years for 2000 and 2006 (estimated)\*, and shows a comparison of changes in the various age ranges over that 6-year interval.

**Table 28. Distribution of Young People of Ages Birth-19 Years in Barnstable County: Years 2000 and 2006 (Estimated)\***

Age Range	County <u>TOTAL</u> Census 2000 Age Group Population Count	Percentage of County <u>TOTAL</u> 2000 Census Population Percent	County <u>TOTAL</u> Est'ed 2006* Age Group Population Count	Percentage of County <u>TOTAL</u> 2006 (estimated) Population*	County Six-Year Change: 2000-2006 Percent
<b>Birth-9 Years:</b>	<b>23,410</b>	<b>10.5%</b>	<b>19,674</b>	<b>8.8%</b>	<b>-16.0%</b>
Under 5 Years	10,599	4.8%	9,289	4.1%	-12.4%
Ages 5-9 Years	12,811	5.8%	10,385	4.6%	-18.9%
<b>10-19 Years:</b>	<b>25,933</b>	<b>11.7%</b>	<b>25,187</b>	<b>11.0%</b>	<b>-2.9%</b>
Ages 10-14 Years	14,208	6.4%	11,961	5.3%	-15.8%
Ages 15-19 Years	11,725	5.3%	13,226	5.8%	+12.8%
<b>Birth-19 Years:</b>	<b>49,343</b>	<b>22.2%</b>	<b>44,861</b>	<b>19.7%</b>	<b>-9.1%</b>

Table 28 Notes:

- Data Source: Census 2000 information from *Profiles of General Demographic Characteristics: 2000 Census of Population and Housing*, demographic profiles selected by Barnstable County Dept. Human Services, Information Services Section, July 25, 2001.
- \* Counts for the year 2006 have been estimated by the US Census Bureau using results of the American Community Survey (ACS) – 2006. Using these results, the estimated TOTAL POPULATION (persons of all ages) of Barnstable County in the year 2006 was 224,816 persons, an increase of 2,586 (or +1.2%) persons since Census 2000.

**Analysis:**

In the face of an estimated 1.2% increase in the overall population of Barnstable County during the first six years of this decade (see Note above), the Cape Cod younger population (ages 0-19 years) is estimated (by the Census Bureau) to have declined, showing a loss of 4,482 younger residents (or -9.1%) during that period. This loss can be compared with the 15% growth in this same population, during the prior decade (1990-1999). Our population of young people, as a percentage of the Cape's TOTAL resident population, has now dropped to a level of just under 20%.

## Glossary:

### Acronyms and terms used in this **SNAPSHOTS Report**:

Academic Year	A full “school year” beginning in September.
APNCU Index	Kotelchuck Adequacy of Prenatal Care Utilization Index.
Barnstable County	The fifteen Cape Cod towns of; Barnstable, Bourne, Brewster, Chatham, Dennis, Eastham, Falmouth, Harwich, Mashpee, Orleans, Provincetown, Sandwich, Truro, Wellfleet, and Yarmouth.
Cape Cod	Barnstable County, Massachusetts.
Census 2000 data	Official statistics derived from the Year 2000 U.S. decennial census.
Charter School	An independent public school separate from the local town/regional school district.
Child in Poverty	A person age 17 or younger living in a household where annual household income fell below 100% of the appropriate federal poverty threshold.
C.P.C.	Community Partnership for Children.
DOE	Massachusetts Department of Education.
DPH	Massachusetts Department of Public Health.
EEC	Massachusetts Department of Early Education and Care
Early Head Start	An EEC program for infants and young children ages 0-3 years.
Early Intervention	An EEC program for infants and young children ages 0-3 years.
EI	Early Intervention Programs.
ELA	Abbreviation for English Language Arts (an MCAS measure).
Estimate	A figure representing an imprecisely known quantity from the past.
Even Start	An EEC program for infants and young children ages 0-7 years.
Fertility Rate	The number of births per 1,000 women ages 15-44 years.
FTE	Full-time equivalent.
Head Start	An EEC program for young children ages 3-5 years.
Hispanic Ethnicity	A Mass. DOE and Mass. DPH “Race” category for which a person has identified him/herself or a minor student as “Hispanic.” Contrast with “Hispanic Origin.”
Hispanic Origin	A U.S. Census Bureau category separate from race, in which a Hispanic person, “can be of any race.” Contrast with “Hispanic Ethnicity.”

Horace Mann School	A specialized public school which is a part of a town school district.
Infant Mortality	Death of a child under the age of one year.
Kessner Index	Kessner Adequacy of Prenatal Care Utilization Index.
Kotelchuck Index	Kotelchuck Adequacy of Prenatal Care Utilization Index.
Linear Interpolation	The choice of the exact middle point on a straight line graph between two points.
Low Birthweight	A baby with a delivery weight of under 2,500 grams (5.5 pounds).
Low Income Student	A student classified by the Mass DOE, as one who: <ul style="list-style-type: none"> <li>- is eligible for free or reduced price [school] lunch; or</li> <li>- receives “Transitional Aid to Families” benefits; or</li> <li>- is eligible for food stamps.</li> </ul>
MATH	Abbreviation for Mathematics (an MCAS measure).
MCAS	Massachusetts Comprehensive Assessment System.
MISER	Massachusetts Institute For Economic and Social Research, formerly the official Massachusetts state data center.
OCCS	Massachusetts Office of Child Care Services.
Projection	A figure representing a predicted quantity in the future.
Resident Birth	Birth to a mother whose legal residence at the time of delivery was within the given town (excludes in-town/in-hospital births to non-residents). Example: A birth in Falmouth Hospital to a mother legally residing in Lexington would be classified as an Occurrence Birth in Falmouth, but not a Resident Birth. The Resident Birth would be recorded in the town of Lexington.
SAIPE	Small Area Income and Poverty Estimates from the U.S. Census Bureau.
School District	Massachusetts Dept. of Education designation for a grouping of schools or single school.
SIDS	Sudden Infant Death Syndrome.
Title 1 PreK	An ECE program for young children ages 3-5 years.
UMASS	University of Massachusetts.
WIC	Women, Children and Infants Program.
Young People	Persons age 17 years or younger.
Young People Family	A family which includes one or more young person (age 17 years or younger).





