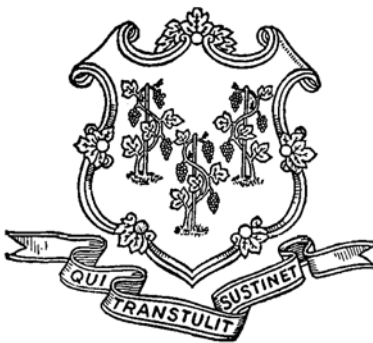


# **Cancer Incidence in Connecticut Counties, 1990-2002**



State of Connecticut  
Department of Public Health  
Connecticut Tumor Registry  
410 Capitol Avenue, MS# 13TMR  
P.O. Box 340308  
Hartford, CT 06134-0308

Release Date: March, 2006

**CANCER INCIDENCE IN CONNECTICUT COUNTIES, 1990-2002**

CONNECTICUT TUMOR REGISTRY

CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

P. O. BOX 340308

410 CAPITOL AVENUE, MS# 13TMR

HARTFORD, CT 06134-0308

MARCH 2006

This work was supported in part by Contract N01-PC-35133 between the National Cancer Institute and the Connecticut Department of Public Health.

Requests for further information, and questions about this report, should be directed to P. D. Sullivan at the Connecticut Tumor Registry (telephone 860-509-7167)

## Table of Contents

Introduction	1
Data Sources, Methods	1-2
Summary, All Sites	2
Summary by Site	2-3
Rate Comparison: Black/White Ratios	3
Comments: Some Interpretations of the Data	3
References	3
Tables	
(1) All Sites	4-5
(2) Lung, Bronchus, Trachea	6
(3) Prostate	7
(4) Female Breast	8
(5) Colon, Rectum, Anus	9
(6) Colon	10
(7) Rectum, Anus	11
(8) Bladder	12
(9) Kidney	13
(10) Uterine Cervix, Corpus	14
(11) Stomach	15
(12) Leukemia	16
(13) Lymphoma	17
(14) Pancreas	18
(15) Oral Cavity, Pharynx	19
(16) Ovary, Thyroid	20
(17) Myeloma	21
(18) Incidence Rate Ratios, Black-to-White	22-23
<u>Appendix A</u> - Computation of Incidence Rates, Standard Errors and a Test for Differences in Rates.	24
<u>Appendix B</u> - Obtaining 95% Confidence Limits for Incidence Rates.	25-26
<u>Appendix C</u> - Tumors by Race, Sex, Period of Diagnosis.	27
<u>Appendix D</u> - Population Estimates by County, Race, Sex, Period Of Diagnosis.	28

## Introduction

This is the fourth monograph presenting cancer incidence data for Connecticut residents by county. It covers the reporting periods 1990-1997 and 1998-2002. The tables have incidence rates by county, site, period and sex for all races combined and separately for white and black residents. Tables 1-6 also have rates for other specified races combined. Appendices C and D have listings of tumors and county population estimates, respectively, by race, sex and period. Towns in each county can be found in a previous incidence monograph for Conn. counties during the years 1995-98, located on the State of Conn. website at <http://www.dph.state.ct.us/>.

The Conn. Tumor Registry, as a participating member, submits each year a tumor incidence file for state residents to the SEER (Surveillance, Epidemiology and End Results) program of the National Cancer Institute. The current file includes tumors reported up to Nov. of 2004. The registry obtained internet access to this file from SEER, supplemented with population estimates and software (SEER\*Stat) to compute incidence rates, standard errors and 95% confidence intervals (not included in the tables). Populations for the intercensal years were revised by the U.S. Census Bureau, which also made the projected estimates to 2002.

## Data Sources, Methods

Invasive tumors newly-reported by Conn. hospitals and diagnostic laboratories for the 13-year period, 1990-2002 comprised the major sources (about 98%) of new primaries. Available reports of cancers diagnosed for state residents at out-of-state facilities are also included. Less than 2% of the cases came only from death certificates that included cancer as a contributing cause, or from reports of tumors that were diagnosed after death by autopsy. Skin tumors, if of a non-epithelial histology, or of any type and occurring in a genital site, are included. With the exception of the bladder, "in situ" tumors are excluded. Bladder "in situ" tumors have been found difficult to distinguish from those that are found to be malignant by pathological analysis. In previous reports cystadenomas of the ovary were counted as malignant. Under current rules these tumors are classified as of uncertain malignancy. This change removed over 360 ovarian tumors from malignant status, which were diagnosed in the 13-year period.

It is not uncommon for a person to be diagnosed with more than one tumor of the same or different site at one or more times. Among the 232,205 tumors reported for the 13-year period, about 20% were ones representing second or subsequent primary tumors diagnosed for an individual. Detailed guidelines are followed in these cases to insure the existence of a new tumor.

The 17 tables of incidence rates have data for all the major sites and several others also. As in earlier reports, tumors of any site having a lymphoma histology are combined and not shown by site. The tables include numbers of tumors, crude and adjusted rates per 100,000 population, with standard errors for the latter. Rates with standard errors (SE's) greater than 20% and less than 25% are marked; those with SE'S of 25% or more are not shown.

The standard error of an incidence rate measures the variation in the rate expected to occur, due primarily to chance factors, if the population at risk were to be sampled at different times with no change in the underlying risk. The standard error varies inversely with the size of the population.

Age-adjusted rates that show changes at or below the 5% probability level are also marked in the tables. For age adjustment, the U.S. standard million population for 2000 was selected. The age-specific incidence rates for many tumor sites rise with increasing age. The higher the concentration of a population at older ages, the higher the crude rate (total tumors divided by the population at risk) will usually be. To allow for differences in age composition, the age-adjusted rate is obtained by taking a weighted average of the age-specific rates. The result is comparable to rates, age-adjusted with the same standard, for populations structured differently by age, including those for residents of the same geographic area at another period. Computing formulas for incidence rates, standard errors, 95% confidence intervals and a test of the "significance" of the county and state rate changes are in Appendices A and B.

The rates for colon cancer by sex for the state provide an example of why age-adjustment is needed. The crude rates in the study period were about 3% higher for women but, because of the high concentration of cases at the oldest age groups in the population, where women outnumber men and are at generally lower risk of this tumor, their age-adjusted rate was about 25% below that of males. For purposes of analysis, only the age-adjusted incidence rates are referenced in this report.

The incidence rate ratios, blacks compared to whites, are shown in Table 18 for each site and principally, but not exclusively, for the 3 largest counties, Fairfield, Hartford and New Haven. Appendix B can be used to obtain 95% confidence limits for the incidence rates by use of adjusting factors for the number of tumors diagnosed. Appendix C shows diagnosed tumors by race, including those for specified races other than white and black (SEER coding).

#### Summary, All Sites (Table 1)

During the years 1990-97 the age-adjusted incidence rate/100,000 per year for males, all sites and all races combined, was 607. Subsequently, during 1998-02, the rate declined to 598. The comparable rates among females were 440 and 450. By county and sex the rate for male residents ranged from 621 in Hartford to 582 in Litchfield during 1990-97. The high and low rates in the subsequent 5 years for males occurred in Tolland and Windham Counties, 620 and 575, respectively. New London County had the highest rates for females in each reporting period, 460 and 477. During 1990-97 Windham had the lowest female rate of 414 with Hartford and Tolland Counties each at the low rate of 433 for the 1998-02 diagnosis period.

The incidence rates among those of the white race were within 1-2% of the rates for all races combined due to the racial make-up of the state, which was 88%, white, and 12% black and all other races combined, at the time of the 2000 U.S. census. With one exception, the highest age-adjusted rates in each reporting period, by the 5 single counties for whites and blacks of Table 1, were for black males. Among black residents, the highest rate in the 5 counties listed separately was for New Haven County in each diagnosis period. For the counties of Litchfield, Tolland and Windham, the combined rate for black males increased by 8.5% from 1990-97 to 1998-02 while the total Conn. rate for this racial group decreased by 13.1%.

In each period of diagnosis, the age-adjusted rates, ranked in decreasing order, for all counties combined, were those for black males, white males, white females and black females with the lowest rates computed for all other races combined, among males, and lastly, females. For males in the state, the rate for blacks exceeded that for whites by 22% in the 1990-97 period and by 7% in 1998-02. By comparison, the rates for black females were 11% and 16% less than those for white females, respectively, in the 2 reporting periods at all sites combined.

Among the 2 major races black males had the largest decline in the invasive tumor rate from 1990-97 to 1998-02, one of 13%. This decline was in contrast to decreases of just over 1% for white males and of about 4% for black females. By comparison, the rate for white females rose by less than 1% while the rate for the combined other races was higher by 18% among males and by 22% for females.

#### Summary by Site (Tables 2-17)

The changes in the rates, plus and minus, from 1990-97 to 1998-02, by site, are labeled stable (0- 4.9%), moderate (5.0- 9.9%) and high (10.0% and above). For white females, thyroid and kidney had high rates of increase, the former site by over 60%. Stomach, cervix and the oral cavity and pharynx sites showed high rates of decline while ovarian tumors declined at a moderate rate. Breast cancer was relatively stable, increasing by less than 3% among whites. Thyroid, rectal and lymphatic tumors increased at high rates for black females, who also had high rates of decline for the stomach, cervix, pancreas and ovary.

Among males of both major races in the state, kidney tumors rose at high rates from 1990-97 to 1998-02, by over 28% for blacks who also had declines in their age-adjusted rates at high levels for lung, colon, bladder, lymphomas and tumors of the oral cavity and pharynx. White males showed a moderate rate of decline for oral and pharynx and for lung, colon and rectum. This degree of decrease in the study period was also seen for the prostate, stomach, rectum and pancreas among black males.

#### Rate Comparison: Black/White Ratios (Table 18)

The black-to-white ratios of the age-adjusted rates are listed in Table 18 by county, period, site and sex. For males those sites with the highest ratios for the 13-year period were myeloma and stomach, 1.95 and 1.86, respectively. Thyroid at 0.44 and bladder, 0.43, were lowest for males. Females had high levels of this ratio for stomach, cervix and myeloma, 1.66, 1.78 and 2.21. Ratios of 0.62, bladder, 0.64, corpus, 0.56, thyroid and 0.49 for the ovary were lowest for females reflecting black incidence rates at these sites well below the corresponding rates for white females in the study period.

Table 18 also gives black/white ratios for 1990-97 and 1998-02. By site, the ratio increased for kidney and stomach for males with no change in leukemia. Decreased ratios occurred at the other sites for males. Among females, the black-to-white ratio of the age-adjusted rates rose in the study period for lung, colon, rectum and lymphoma and decreased for the remaining sites. The ratio for myeloma among females was essentially stable. Standard errors were omitted for these ratios.

#### Comments: Some Interpretations of the Data

In noting changes in the rates that show a probability of a chance occurrence below the 5% level, it is also useful to consider the amount and rate of change. The rates for kidney tumors among males (Table 9) provide an example. In the state, the age-adjusted rate for white males rose "significantly" ( $p < .05$ ) from 17.3 to 19.2 as the black rate increased from 14.8 to 19.0 from 1990-97 to 1998-02. While not significant at 5%, the percentage increase for black males of 28% was well above that for white males, 11%. The explanation for this is the difference in the size of the standard errors, which were 4 times greater for blacks because of the difference in the populations at risk. This demonstrates that whether an observed change in a rate has less than a 5% probability of occurring by chance may depend on the size of the population at risk. Taken further, an observed rate difference at this level of "statistical significance" may not always be sufficient for assessing the importance of the change.

Results from epidemiological studies indicate that the rates for some cancer sites correlate with levels of socioeconomic status variables. The studies have found a gradient in the cancer rate among the levels of variables of this type. The black-to-white incidence rate ratios of Table 18 show that either race, depending on the site, can have the higher cancer rate in comparison to the other race. While the Conn. ratios were not tested for "statistical significance", the diversity and the range in these ratios argue for multiple contributing factors including, presumably, some that are related to socioeconomic status.

#### References

- 1 Haenszel, Loveland and Sirken; Lung Cancer Mortality – White Males  
*Journal of The National Cancer Institute*, vol.28, no. 4, April, 1962.
- 2 Fay MP AND Feuer EJ Confidence Intervals for Directly Standardized Rates  
A Method Based on the Gamma Distribution *Statistics in Medicine* vol.16  
1957.

Table 1  
 Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
 All Sites (00.0-80.9)<sup>1</sup>

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate Observed <sup>2</sup>	Rate SE <sup>3</sup>	Crude Rate	Age-adjusted Rate Observed <sup>2</sup>	Rate SE <sup>3</sup>	
<u>All Races<sup>4</sup> - Male</u>								
Fairfield	17783	547.6	604.1	4.6	12222	573.0	613.4	5.6
Hartford	19141	585.5	620.8	4.6	12341	598.3	604.4*	5.5
New Haven	17743	571.0	609.7	4.6	11135	561.1	581.0*	5.5
New London	5144	502.2	603.6	8.7	3492	544.1	592.5	10.1
Litchfield	3791	546.6	581.6	9.6	2639	589.9	585.0	11.5
Middlesex	2968	519.5	584.3	10.9	2181	575.2	596.5	12.9
Tolland	2182	419.5	582.9	13.1	1707	495.8	619.6	15.5
Windham	2005	487.2	593.4	13.5	1338	496.3	574.8	15.9
Conn. <sup>5</sup>	70770	551.0	606.6	2.3	47071	569.7	597.9*	2.8
<u>All Races<sup>4</sup> - Female</u>								
Fairfield	17690	506.3	447.5	3.4	11753	515.1	450.2	4.2
Hartford	17327	491.1	422.2	3.3	11594	520.9	432.5	4.1
New Haven	17758	527.6	454.1	3.5	11846	552.6	467.4*	4.4
New London	5016	489.9	459.8	6.6	3484	532.3	476.5	8.1
Litchfield	3566	492.1	425.2	7.2	2578	551.0	451.6*	9.0
Middlesex	2984	496.8	441.6	8.2	2090	524.5	443.2	9.8
Tolland	1990	382.8	428.7	9.6	1450	422.7	432.9	11.4
Windham	1892	440.6	413.7	9.7	1318	476.0	436.3	12.1
Conn. <sup>5</sup>	68232	498.5	440.1	1.7	46132	524.7	450.4*	2.1
<u>White - Male</u>								
Fairfield	16351	579.1	598.0	4.8	11081	607.3	609.1	5.8
Hartford	17530	622.7	613.2	4.7	11110	643.4	599.2	5.7
New Haven	16357	605.5	602.2	4.8	10091	599.9	574.0*	5.7
New London	4937	524.4	605.0	8.9	3308	574.4	595.0	10.4
Middlesex	2880	536.2	582.5	11.0	2101	595.3	594.8	13.1
Other Three Counties	7825	499.1	583.7	6.7	5527	545.6	586.6	8.0
Conn. <sup>5</sup>	65891	578.7	600.6	2.4	43234	602.5	593.3	2.9
<u>White - Female</u>								
Fairfield	16418	543.9	453.4	3.6	10713	555.0	456.8	4.5
Hartford	16141	531.5	428.2	3.5	10614	569.6	440.5*	4.4
New Haven	16509	566.3	457.8	3.7	10848	599.9	473.3*	4.7
New London	4846	512.4	464.7	6.8	3324	561.0	481.2	8.4
Middlesex	2902	513.6	442.9	8.4	2027	546.1	446.8	10.1
Other Three Counties	7350	451.9	422.9	5.0	5248	500.3	441.7*	6.2
Conn. <sup>5</sup>	64172	530.0	444.4	1.8	42790	561.9	456.0	2.2

(footnotes shown on second page of table)

Table 1 (cont.)  
 Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
 All Sites (00.0-80.9)<sup>1</sup>

County	Crude Age-adjusted Rate				Crude Age-adjusted Rate			
	Tumors	Rate	Observed <sup>2</sup>	SE <sup>3</sup>	Tumors	Rate	Observed <sup>2</sup>	SE <sup>3</sup>
	<u>1990-1997</u>				<u>1998-2002</u>			
<u>Black - Male</u>								
Fairfield	1249	381.3	733.8	23.5	847	379.0	637.2*	23.9
Hartford	1434	379.8	732.5	21.4	979	362.5	628.6*	21.7
New Haven	1275	373.8	749.0	23.7	866	357.2	651.0*	24.3
New London	164	278.3	684.2	68.3	125	281.0	611.3	60.3
Middlesex	76	298.0	746.9	103.8	58	310.8	603.7	90.3
Other Three Counties	76	242.9	638.4	89.9	70	256.8	692.7	96.6
Conn.	4274	367.8	732.1	12.6	2945	356.4	636.1*	12.8
<u>Black - Female</u>								
Fairfield	1091	287.7	393.5	12.3	775	293.8	367.8	13.5
Hartford	1040	251.5	373.6	11.9	803	272.6	360.4	13.0
New Haven	1136	294.8	428.3	13.0	855	312.4	428.8	15.0
New London	116	218.1	379.4	37.7	106	265.9	397.0	40.0
Middlesex	60	224.7	405.0	55.9	38	197.8	292.0	50.4
Other Three Counties	52	236.9	428.4	62.3	30	159.2	353.4	68.3
Conn.	3495	273.1	396.8	6.9	2608 <sup>5</sup>	286.6	382.4	7.7
<u>Other Specified Races - Male</u>								
Fairfield	124	129.0	307.7	34.5	148	174.5	352.5	37.0
Hartford	113	147.6	369.5	41.4	158	240.3	468.2	44.3
New Haven	79	122.0	321.5	45.7	97	162.4	349.8	41.0
New London	26	108.2	186.4 <sup>6</sup>	46.3	42	196.3	360.3*	69.2
Other Four Counties	37	106.4	405.1 <sup>6</sup>	84.0	40	140.2	360.7	70.0
Conn.	379	127.9	322.3	20.3	485	186.4	380.4*	20.8
<u>Other Specified Races - Female</u>								
Fairfield	138	143.1	252.8	26.3	158	181.0	262.0	24.3
Hartford	121	156.2	269.8	27.3	149	219.9	355.1*	31.6
New Haven	78	119.8	222.0	28.9	111	179.8	302.6	32.3
New London	37	147.7	228.8	41.8	38	172.0	261.0	44.3
Other Four Counties	40	116.6	264.8 <sup>6</sup>	58.9	55	193.5	327.1	53.1
Conn.	414	138.8	248.6	14.2	511	191.2	302.5*	15.0

<sup>1</sup> Numbers in parentheses are the site codes for "ICD-0" (International Classification of Diseases For Oncology). As in earlier monographs, in situ bladder tumors are included. Excluded are 374 tumors of "uncertain malignancy", previously classified as malignant and included in earlier monographs, primarily as cystadenomas of the ovary. Excluded also are epithelial type tumors of the skin which are non-reportable except for those occurring at genital sites. Other types of skin tumors are included.

<sup>2</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>3</sup> Standard error of the age-adjusted rate.

<sup>4</sup> Includes tumors for persons not specified as to race.

<sup>5</sup> Includes state residents for whom the county is not stated.

<sup>6</sup> The standard error is between 20% and 25% of the observed rate.

\* P < .05 (compared to the observed rate in 1990-97).



Table 2  
 Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
 Lung, Bronchus, Trachea (33.9-34.9)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Observed <sup>1</sup>	Rate SE <sup>2</sup>	Tumors	Crude Rate	Age-adjusted Observed <sup>1</sup>	Rate SE <sup>2</sup>
<u>All Races<sup>3</sup> - Male</u>								
Fairfield	2623	80.8	88.6	1.8	1535	72.0	78.0*	2.0
Hartford	2870	87.8	92.7	1.8	1776	86.1	87.2*	2.1
New Haven	2938	94.5	100.7	1.9	1754	88.4	91.8*	2.2
New London	835	81.5	98.2	3.5	550	85.7	93.6	4.0
Litchfield	563	81.2	85.5	3.7	370	82.7	82.5	4.3
Middlesex	485	84.9	95.8	4.4	301	79.4	84.7	4.9
Tolland	326	62.7	88.7	5.1	209	60.7	79.0	5.6
Windham	365	88.7	107.0	5.7	235	67.2	101.2	6.7
Conn.	11005	85.7	94.0	0.9	6735 <sup>4</sup>	81.5	86.3*	1.1
<u>All Races<sup>3</sup> - Female</u>								
Fairfield	2104	60.2	52.4	1.1	1322	57.9	50.1	1.4
Hartford	2133	60.5	50.9	1.1	1493	67.1	54.4	1.4
New Haven	2371	70.4	59.9	1.3	1573	73.4	61.0	1.6
New London	645	63.0	58.7	2.3	512	78.2	69.5*	3.1
Litchfield	411	56.7	48.7	2.4	338	72.2	58.9*	3.2
Middlesex	388	64.6	56.6	2.9	268	67.3	57.1	3.5
Tolland	260	50.0	56.9	3.5	197	57.4	60.4	4.3
Windham	228	53.1	51.2	3.4	186	67.1	62.2	4.6
Conn.	8540	62.4	54.3	0.6	5895 <sup>4</sup>	67.0	56.9*	0.7
<u>White - Male</u>								
Fairfield	2419	85.7	87.7	1.8	1400	76.7	77.4*	2.1
Hartford	2636	93.6	91.2	1.8	1613	93.4	86.5*	2.2
New Haven	2716	100.5	99.3	1.9	1603	95.3	90.9*	2.3
Other five	2496	81.9	93.9	1.9	1617	83.3	88.3	2.2
Conn.	10267	90.2	92.9	0.9	6238 <sup>4</sup>	86.9	85.8*	1.1
<u>White - Female</u>								
Fairfield	1977	65.5	53.3	1.2	1217	63.0	50.8	1.5
Hartford	2004	66.0	51.7	1.2	1382	74.2	55.2	1.5
New Haven	2232	76.6	60.7	1.3	1460	80.7	62.0	1.7
Other five	1898	60.5	55.0	1.3	1470	73.0	63.0*	1.7
Conn.	8111	67.0	55.1	0.6	5535 <sup>4</sup>	72.7	57.8*	0.8
<u>Black - Male</u>								
Fairfield	194	59.2	109.4	8.6	118	52.8	93.9	9.5
Hartford	226	59.9	118.1	8.7	149	55.2	100.4	8.9
New Haven	210	61.6	119.9	9.1	144	59.4	113.1	10.1
Other five	61	52.7	143.2	23.5	35	38.7	82.2*	14.5
Conn.	691	59.5	117.3	4.9	446	54.0	100.8*	5.2
<u>Black - Female</u>								
Fairfield	120	31.6	45.7	4.3	93	35.3	46.3	4.9
Hartford	120	29.0	44.7	4.2	100	33.9	47.0	4.8
New Haven	133	34.5	50.2	4.4	108	39.5	56.9	5.6
Other five	24	23.6	43.1 <sup>5</sup>	9.2	27	34.7	58.1 <sup>5</sup>	11.6
Conn.	397	31.0	46.5	2.4	328	36.0	50.6	2.8
<u>Other Specified Races</u>								
Conn. - Male	44	14.9	39.3	6.9	41	15.8	45.7	8.4
Conn. - Female	29	9.7	27.0 <sup>5</sup>	5.6	28	10.5	20.6 <sup>5</sup>	4.4

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.  
<sup>2</sup> Standard error of the age-adjusted rate.  
<sup>3</sup> Includes tumors for persons not specified as to race.  
<sup>4</sup> Includes state residents for whom the county is not stated.  
<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97)

Table 3  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, 1990-2002  
Prostate (61.9)

County	1990-1997				1998-2002			
	Crude Tumors	Age-adjusted Rate	Observed <sup>1</sup>	SE <sup>2</sup>	Crude Tumors	Age-adjusted Rate	Observed <sup>1</sup>	SE <sup>2</sup>
<u>All Races<sup>3</sup></u>								
Fairfield	5354	164.9	182.7	2.6	4153	194.7	206.1*	3.2
Hartford	5884	180.0	189.5	2.5	3745	181.6	182.2	3.0
New Haven	4502	144.9	153.4	2.3	2899	146.1	151.9	2.8
New London	1424	129.2	166.0	4.5	972	151.4	164.1	5.3
Litchfield	1066	153.7	165.4	5.1	728	162.7	161.4	6.0
Middlesex	815	142.7	162.5	5.8	667	175.9	182.4*	7.1
Tolland	642	123.4	180.3	7.4	553	160.6	204.1*	8.9
Windham	494	120.0	152.6	7.0	329	122.0	144.2	8.0
Conn. <sup>4</sup>	20189	157.2	173.3	1.2	14048	170.0	177.8*	1.5
<u>White</u>								
Fairfield	4866	172.3	177.3	2.6	3658	200.5	198.6*	3.3
Hartford	5280	187.6	181.9	2.5	3252	188.3	173.8*	3.1
New Haven	4097	151.7	148.3	2.4	2556	152.0	145.5	2.9
New London	1355	152.4	164.6	4.6	900	156.3	160.7	5.4
Other Four Counties	2964	140.8	165.1	3.1	2180	159.6	169.0	3.7
Conn. <sup>4</sup>	18568	163.1	168.4	1.3	12548	174.9	171.2	1.5
<u>Black</u>								
Fairfield	422	128.8	279.3	15.3	382	171.0	290.1	16.1
Hartford	531	140.6	298.2	14.0	396	146.6	246.7*	12.9
New Haven	379	111.1	249.1	14.1	265	109.3	204.7*	13.7
New London	58	98.4	226.0	34.0	51	114.6	268.1	40.6
Other Four Counties	36	63.4	195.2	35.8	51	111.1	268.9	42.1
Conn.	1426	122.7	271.6	8.0	1145	138.6	248.6*	7.9
<u>Other Specified Races</u>								
Fairfield	31	32.2	105.3 <sup>5</sup>	22.6	33	38.9	90.2	18.0
Hartford	32	41.8	118.0	23.2	48	73.0	133.7	20.8
New Haven	15	-	-	-	32	53.6	148.7	29.7
Other Five Counties	7	-	-	-	31	62.1	135.2	26.9
Conn.	85	28.7	95.1	11.8	144	55.3	121.8	11.3

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Include state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the corresponding rate in 1990-97).

Table 4  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, 1990-2002  
Female Breast (50.0-50.9)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>	Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>	
<u>ALL Races<sup>3</sup></u>								
Fairfield	5573	159.5	144.6	2.0	3752	164.4	145.8	2.4
Hartford	5433	154.0	137.4	1.9	3641	163.6	140.5	2.4
New Haven	5249	155.9	139.8	2.0	3610	168.4	147.1*	2.5
New London	1502	146.7	141.0	3.7	1030	157.4	142.8	4.5
Litchfield	1128	155.7	138.6	4.2	804	171.8	143.0	5.1
Middlesex	901	150.0	137.7	4.6	645	161.9	138.2	5.5
Tolland	626	120.4	134.7	5.4	468	136.4	137.7	6.4
Windham	544	126.7	120.6	5.2	380	137.0	127.0	6.6
Conn. <sup>4</sup>	20959	153.1	139.7	1.0	14334	163.0	143.2*	1.2
<u>White</u>								
Fairfield	5186	171.8	147.9	2.1	3410	176.6	148.4	2.6
Hartford	5087	167.5	141.0	2.0	3332	178.8	144.4	2.5
New Haven	4881	167.4	141.4	2.1	3296	182.3	149.5*	2.7
New London	1448	153.1	142.5	3.8	983	165.9	144.6	4.6
Other Four Counties	3137	143.1	134.4	2.4	2246	158.2	138.3	2.9
Conn. <sup>4</sup>	19740	163.0	141.9	1.0	13270	174.3	145.5*	1.3
<u>Black</u>								
Fairfield	339	89.4	118.7	6.6	252	95.5	115.2	7.4
Hartford	310	75.0	106.6	6.2	260	88.3	113.3	7.2
New Haven	341	88.5	123.4	6.9	260	95.0	126.2	8.0
New London	37	69.6	104.0	17.8	29	72.7	104.7	20.0
Other Four Counties	37	76.1	133.2	22.9	20	52.6	98.4 <sup>5</sup>	23.4
Conn.	1064	83.1	116.0	3.7	822 <sup>4</sup>	90.3	116.7	4.2
<u>Other Specified Races</u>								
Fairfield	41	42.5	57.7	11.0	44	50.4	60.4	10.1
Hartford	31	40.0	62.8	12.2	44	64.9	113.9*	18.8
New Haven	23	35.3	69.5	16.5 <sup>5</sup>	43	69.7	111.0	19.1
Other Five Counties	32	53.9	75.0	15.7 <sup>5</sup>	36	71.3	107.9	19.1
Conn.	127	42.6	64.9	6.6	167	62.5	95.3	8.4

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 5  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Colon, Rectum, Anus (18.0-21.8, 26.0)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>	Tumors	Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>
<u>All Races<sup>3</sup> - Male</u>								
Fairfield	2108	64.9	74.2	1.7	1383	64.8	71.7	2.0
Hartford	2188	66.9	72.8	1.6	1437	69.7	71.1	1.9
New Haven	2368	76.2	83.2	1.7	1435	72.3	75.2*	2.0
New London	631	61.6	77.2	3.2	383	59.7	67.3*	3.5
Litchfield	503	72.5	78.5	3.6	319	71.3	71.2	4.0
Middlesex	335	58.6	67.6	3.8	213	56.2	58.8	4.1
Tolland	238	45.8	65.6	4.5	198	57.5	73.2	5.4
Windham	270	65.6	82.8	5.1	174	64.5	75.4	5.8
Conn.	8642 <sup>4</sup>	67.3	76.2	0.8	5542	67.1	71.5*	1.0
<u>All Races<sup>3</sup> - Female</u>								
Fairfield	2124	60.8	51.2	1.1	1460	64.0	53.1	1.4
Hartford	2245	63.6	51.1	1.1	1485	66.7	51.5	1.4
New Haven	2366	70.3	55.2	1.2	1510	70.4	54.4	1.4
New London	678	66.2	59.6	2.3	454	69.4	58.9	2.8
Litchfield	508	70.1	56.6	2.5	340	72.7	55.7	3.1
Middlesex	341	56.8	47.3	2.6	225	56.5	45.3	3.1
Tolland	229	44.1	50.2	3.3	156	45.5	46.9	3.8
Windham	248	57.8	50.6	3.3	182	65.6	57.8	4.3
Conn.	8739	63.9	52.8	0.6	5813 <sup>4</sup>	66.1	53.1	0.7
<u>White - Male</u>								
Fairfield	1978	70.1	74.5	1.7	1261	69.1	71.2	2.0
Hartford	2044	72.6	72.7	1.6	1320	76.1	71.3	2.0
New Haven	2219	82.1	82.9	1.8	1328	78.9	75.3*	2.1
Other Five	1932	63.4	75.1	1.8	1255	64.6	68.7*	2.0
Conn.	8174 <sup>4</sup>	71.8	76.2	0.9	5164	72.0	71.5*	1.0
<u>White - Female</u>								
Fairfield	1984	65.7	51.2	1.1	1325	68.6	52.6	1.5
Hartford	2086	68.7	50.5	1.1	1338	71.8	50.4	1.4
New Haven	2206	75.7	54.6	1.2	1372	75.9	53.0	1.5
Other Five	1963	62.6	54.2	1.2	1317	65.4	53.5	1.5
Conn.	8239	68.0	52.8	0.6	5353 <sup>4</sup>	70.3	52.3	0.7
<u>Black - Male</u>								
Fairfield	121	36.9	77.0	7.9	89	39.8	70.3	8.2
Hartford	134	35.5	79.9	7.8	87	32.2	57.9*	6.7
New Haven	139	40.8	87.1	8.4	90	37.1	68.2	7.9
Other Five	32	27.7	63.1	11.9	19	-	-	-
Conn.	426	36.7	80.2	4.4	285	34.5	63.3*	4.1
<u>Black - Female</u>								
Fairfield	124	32.7	48.5	4.5	119	45.1	60.2	5.7
Hartford	142	34.3	53.8	4.7	131	44.5	61.8	5.5
New Haven	153	39.7	61.2	5.1	121	44.2	63.2	5.9
Other Five	28	27.5	57.5	11.3	21	27.0	47.0 <sup>5</sup>	10.5
Conn.	447	34.9	54.4	2.6	392	43.1	60.6	3.1
<u>Other Specified Races</u>								
Conn. - Male	31	10.5	31.7	6.9	63	24.2	57.0*	8.9
Conn. - Female	42	14.1	30.2	5.1	52	19.5	31.7	4.9

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 6  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Colon (18.0-18.9, 26.0)

County	Tumors	Crude		Age-adjusted Rate		Tumors	Crude		Age-adjusted Rate	
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>	Rate		Observed <sup>1</sup>	SE <sup>2</sup>		
1990-1997					1998-2002					
<u>All Races<sup>3</sup> - Male</u>										
Fairfield	1482	45.6	52.9	1.4	972	45.6	51.0	1.7		
Hartford	1513	46.3	50.8	1.3	960	46.5	47.7	1.5		
New Haven	1641	52.8	57.9	1.5	1005	50.6	52.7*	1.7		
New London	418	40.8	51.9	2.6	267	41.6	47.2	2.9		
Litchfield	351	50.6	55.0	3.0	220	49.2	49.2	3.3		
Middlesex	226	39.6	46.0	3.1	139	36.7	38.6	3.3		
Tolland	164	31.5	45.8	3.8	133	38.6	49.4	4.4		
Windham	174	42.3	53.8	4.2	114	42.3	49.6	4.7		
Conn.	5970 <sup>4</sup>	46.5	53.2	0.7	3810	46.1	49.4*	0.8		
<u>All Races<sup>3</sup> - Female</u>										
Fairfield	1606	46.0	38.5	1.0	1089	47.7	39.2	1.2		
Hartford	1664	47.2	37.5	0.9	1078	48.4	36.7	1.2		
New Haven	1749	52.0	40.2	1.0	1127	52.6	39.8	1.2		
New London	489	47.8	42.8	2.0	321	49.0	41.4	2.3		
Litchfield	372	51.3	41.0	2.1	246	52.6	39.6	2.6		
Middlesex	265	44.1	36.5	2.3	167	41.9	33.4	2.6		
Tolland	161	31.0	35.2	2.8	120	35.0	36.4	3.3		
Windham	187	43.6	37.4	2.8	142	51.2	44.7	3.8		
Conn.	6493	47.4	38.9	0.5	4291 <sup>4</sup>	48.8	38.7	0.6		
<u>White - Male</u>										
Fairfield	1384	49.0	52.8	1.5	880	48.2	50.1	1.7		
Hartford	1404	49.9	50.4	1.4	888	51.4	48.1	1.6		
New Haven	1531	56.7	57.4	1.5	929	55.2	52.6*	1.7		
Other Five	1298	42.6	51.0	1.5	851	43.8	46.8	1.6		
Conn.	5618 <sup>4</sup>	49.3	52.9	0.7	3548	49.4	49.3*	0.8		
<u>White - Female</u>										
Fairfield	1498	49.6	38.4	1.0	985	51.0	38.6	1.3		
Hartford	1548	51.0	37.0	1.0	970	52.1	35.6	1.2		
New Haven	1627	55.8	39.6	1.0	1031	57.0	38.8	1.2		
Other Five	1442	46.0	39.5	1.0	963	47.8	38.8	1.3		
Conn.	6115	50.5	38.6	0.5	3950 <sup>4</sup>	51.9	37.9	0.6		
<u>Black - Male</u>										
Fairfield	91	27.8	59.2	7.0	65	29.1	52.8	7.2		
Hartford	104	27.5	61.1	6.7	56	20.7	37.6*	5.4		
New Haven	100	29.3	64.9	7.4	66	27.2	53.9	7.3		
Other Five	25	21.6	50.8 <sup>5</sup>	10.8	12	-	-	-		
Conn.	320	27.5	61.1	3.9	199	24.1	46.1*	3.6		
<u>Black - Female</u>										
Fairfield	99	26.1	38.9	4.0	93	35.3	48.4	5.1		
Hartford	108	26.1	41.1	4.1	102	34.6	49.1	4.9		
New Haven	117	30.4	48.0	4.5	84	30.7	43.6	4.9		
Other Five	24	23.6	49.8 <sup>5</sup>	10.6	17	21.8	36.4	9.0		
Conn.	348	27.2	42.9	2.4	296	32.5	46.4	2.7		
<u>Other Specified Races</u>										
Conn. -Male	22	-	-	-	40	15.4	41.8	8.0		
Conn. -Female	22	7.4	14.6 <sup>5</sup>	3.4	35	13.1	21.7	4.1		

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 7  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Rectum, Anus (19.9-21.8)

County	Tumors	Crude Rate	Age-adjusted Rate		Tumors	Crude Rate	Age-adjusted Rate	
			Observed <sup>1</sup>	SE <sup>2</sup>			Observed <sup>1</sup>	SE <sup>2</sup>
			1990-1997				1998-2002	
<u>All Races<sup>3</sup> - Male</u>								
Fairfield	626	19.3	21.3	0.9	411	19.3	20.8	1.0
Hartford	675	20.6	21.9	0.9	477	23.1	23.3	1.1
New Haven	727	23.4	25.2	1.0	430	21.7	22.5	1.1
New London	213	20.8	25.3	1.8	116	18.1	20.1*	1.9
Litchfield	152	21.9	23.5	1.9	99	22.1	22.0	2.2
Mid Essex	109	19.1	21.7	2.1	74	19.5	20.2	2.4
Tolland	74	14.2	19.8	2.4	65	18.9	23.9	3.1
Windham	96	23.3	29.0	3.0	60	22.3	25.8	3.4
Conn.	2672	20.8	23.0	0.5	1732	21.0	22.0	0.5
<u>All Races<sup>3</sup> - Female</u>								
Fairfield	518	14.8	12.7	0.6	371	16.3	13.9	0.7
Hartford	581	16.5	13.6	0.6	407	18.3	14.9	0.7
New Haven	617	18.3	15.0	0.6	383	17.9	14.6	0.8
New London	189	18.5	16.8	1.2	133	20.3	17.5	1.5
Litchfield	136	18.8	15.6	1.4	94	20.1	16.1	1.7
Mid Essex	76	12.7	10.8	1.3	58	14.6	11.9	1.6
Tolland	68	13.1	14.9	1.8	36	10.5	10.5	1.8
Windham	61	14.2	13.1	1.7	40	14.4	13.1	2.1
Conn.	2246	16.4	14.0	0.3	1522	17.3	14.5	0.4
<u>White - Male</u>								
Fairfield	594	21.0	21.7	0.9	381	20.9	21.1	1.1
Hartford	640	22.7	22.3	0.9	432	25.0	23.2	1.1
New Haven	688	25.5	25.5	1.0	399	23.7	22.7	1.1
Other Five	634	20.8	24.2	1.0	404	20.8	21.9	1.1
Conn.	2556	22.4	23.4	0.5	1616	22.5	22.2	0.6
<u>White - Female</u>								
Fairfield	486	16.1	12.8	0.6	340	17.6	14.0	0.8
Hartford	538	17.7	13.5	0.6	368	19.7	14.8	0.8
New Haven	579	19.9	15.0	0.6	341	18.9	14.2	0.8
Other Five	521	16.6	14.7	0.7	354	17.6	14.7	0.8
Conn.	2124	17.5	14.0	0.3	1403	18.4	14.4	0.4
<u>Black - Male</u>								
Fairfield	30	9.2	17.8 <sup>4</sup>	3.7	24	10.7	17.5 <sup>4</sup>	4.0
Hartford	30	7.9	18.9 <sup>4</sup>	3.9	31	11.5	20.3	3.9
New Haven	39	11.4	22.2	4.0	24	9.9	14.4 <sup>4</sup>	3.0
Other Five	7	-	-	-	7	-	-	-
Conn.	106	9.1	19.1	2.1	86	10.4	17.2	2.0
<u>Black - Female</u>								
Fairfield	25	6.6	9.6 <sup>4</sup>	2.0	26	9.9	11.8 <sup>4</sup>	2.4
Hartford	34	8.2	12.8	2.3	29	9.8	12.7	2.4
New Haven	36	9.3	13.2	2.2	37	13.5	19.6	3.3
Other Five	4	-	-	-	4	-	-	-
Conn.	99	7.7	11.5	1.2	96	10.5	14.2	1.5

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 8  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Bladder (67.0-67.9)<sup>1</sup>

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate Observed <sup>2</sup>	SE <sup>3</sup>	Crude Rate	Age-adjusted Rate Observed <sup>2</sup>	SE <sup>3</sup>	
<u>All Races<sup>4</sup> - Male</u>								
Fairfield	1244	38.3	43.5	1.3	890	41.7	46.1	1.6
Hartford	1314	40.2	43.6	1.2	883	42.8	43.8	1.5
New Haven	1384	44.5	48.3	1.3	878	44.2	46.3	1.6
New London	350	34.2	41.8	2.3	268	41.8	47.9	3.0
Litchfield	288	41.5	44.0	2.6	210	46.9	47.4	3.3
Middlesex	243	42.5	49.0	3.2	174	45.9	48.8	3.7
Tolland	153	29.4	42.8	3.6	114	33.1	43.4	4.2
Windham	168	40.8	49.3	3.9	102	37.8	46.7	4.7
Conn.	5144	40.0	45.0	0.6	3521 <sup>5</sup>	42.6	45.8	0.8
<u>All Races<sup>4</sup> - Female</u>								
Fairfield	539	15.4	13.2	0.6	350	15.3	12.9	0.7
Hartford	473	13.4	10.9	0.5	325	14.6	11.5	0.7
New Haven	526	15.6	12.7	0.6	337	15.7	12.5	0.7
New London	131	12.8	11.8	1.0	108	16.5	14.4	1.4
Litchfield	104	14.4	11.9	1.2	62	13.3	10.1	1.3
Middlesex	88	14.7	12.6	1.4	59	14.8	11.9	1.6
Tolland	60	11.5	13.3	1.7	55	16.0	16.7	2.3
Windham	48	11.2	9.8	1.4	30	10.8	9.9	1.8
Conn.	1969	14.4	12.2	0.3	1326	15.1	12.3	0.3
<u>White - Male</u>								
Fairfield	1192	42.2	44.6	1.3	853	46.7	47.9	1.7
Hartford	1278	45.4	45.5	1.3	852	49.3	46.0	1.6
New Haven	1341	49.6	50.0	1.4	841	50.0	47.8	1.7
Other Five	1189	39.0	45.3	1.3	844	43.5	47.1	1.6
Conn.	5000	43.9	46.3	0.7	3392 <sup>5</sup>	47.3	47.2	0.8
<u>White - Female</u>								
Fairfield	514	17.0	13.6	0.6	338	17.5	13.7	0.8
Hartford	453	14.9	11.3	0.5	306	16.4	12.0	0.7
New Haven	506	17.4	13.2	0.6	324	17.9	13.2	0.8
Other Five	425	13.5	12.0	0.6	304	15.1	12.5	0.7
Conn.	1898	15.7	12.5	0.3	1272	16.7	12.8	0.4
<u>Black - Male</u>								
Fairfield	42	12.8	25.2	4.4	20	9.0	15.4 <sup>6</sup>	3.8
Hartford	26	6.9	13.9 <sup>6</sup>	2.9	22	8.2	16.5 <sup>6</sup>	4.0
New Haven	39	11.4	24.3	4.2	23	9.5	18.9 <sup>6</sup>	4.4
Other Five	8	-	-	-	11	-	-	-
Conn.	115	9.9	21.5	2.2	76	9.2	18.6	2.4
<u>Black - Female</u>								
Fairfield	23	6.1	9.4 <sup>6</sup>	2.0	6	-	-	-
Hartford	18	4.4	7.5 <sup>6</sup>	1.8	14	-	-	-
New Haven	19	4.9	8.7 <sup>6</sup>	2.0	11	-	-	-
Other Five	4	-	-	-	8	-	-	-
Conn.	64	5.0	8.7	1.1	39	4.3	6.8	1.1

<sup>1</sup> Includes in situ tumors (see text- Data Sources, Methods)

<sup>2</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>3</sup> Standard error of the age-adjusted rate.

<sup>4</sup> Includes tumors for persons not specified as to race.

<sup>5</sup> Includes state residents for whom the county is not stated.

<sup>6</sup> The standard error is between 20% and 25% of the observed rate.

Table 9  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Kidney (64.9-66.9)

County	Tumors	Crude Age-adjusted Rate			Crude Age-adjusted Rate			
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>	Rate	Observed <sup>1</sup>	SE <sup>2</sup>	
		1990-1997			1998-2002			
				<u>All Races<sup>3</sup> - Male</u>				
Fairfield	501	15.4	16.5	0.8	420	19.7	20.6*	1.0
Hartford	510	15.6	16.1	0.7	347	16.8	16.9	0.9
New Haven	566	18.2	19.2	0.8	413	20.8	21.4	1.1
New London	132	12.9	15.1	1.4	99	15.4	16.5	1.7
Litchfield	103	14.6	14.9	1.5	95	21.2	20.1*	2.1
Middlesex	110	19.3	21.3	2.1	79	20.8	21.0	2.4
Tolland	76	14.6	19.1	2.3	52	15.1	17.7	2.5
Windham	65	15.8	19.4	2.5	39	14.5	16.9	2.7
Conn.	2063	16.1	17.3	0.4	1544	18.7	19.3*	0.5
				<u>All Races<sup>3</sup> - Female</u>				
Fairfield	334	9.6	8.3	0.5	231	10.1	8.9	0.6
Hartford	324	9.2	7.6	0.4	253	11.4	9.5*	0.6
New Haven	364	10.8	9.4	0.5	268	12.5	10.6	0.7
New London	100	9.8	8.8	0.9	70	10.7	9.7	1.2
Litchfield	60	8.3	7.2	0.9	53	11.3	9.2	1.3
Middlesex	51	8.5	7.3	1.0	51	12.8	11.2*	1.6
Tolland	41	7.9	9.1	1.4	38	11.1	11.7	1.9
Windham	45	10.5	9.9	1.5	27	9.7	8.8	1.7
Conn.	1319	9.6	8.4	0.2	991	11.3	9.7*	0.3
				<u>White - Male</u>				
Fairfield	470	16.6	16.5	0.8	386	21.2	20.8*	1.1
Hartford	470	16.7	16.1	0.7	317	18.4	17.0	1.0
New Haven	526	19.5	19.2	0.8	362	21.5	20.5	1.1
Other Five	474	15.6	17.4	0.8	356	18.3	18.8	1.0
Conn.	1940	17.0	17.3	0.4	1421	19.8	19.2*	0.5
				<u>White - Female</u>				
Fairfield	311	10.3	8.4	0.5	208	10.8	8.9	0.6
Hartford	298	9.8	7.6	0.4	229	12.3	9.4*	0.6
New Haven	333	11.4	9.4	0.5	248	13.7	10.9	0.7
Other Five	287	9.1	8.2	0.5	230	11.4	10.0*	0.7
Conn.	1229	10.2	8.4	0.2	915	12.0	9.8*	0.3
				<u>Black - Male</u>				
Fairfield	24	7.3	12.8 <sup>4</sup>	2.8	26	11.6	19.7	4.2
Hartford	34	9.0	14.1	2.5	19	7.0	12.1	3.0
New Haven	37	10.8	19.2	3.4	44	18.1	28.4	4.5
Other Five	7	-	-	-	6	-	-	-
Conn.	102	8.8	14.8	1.6	95	11.5	19.0	2.1
				<u>Black - Female</u>				
Fairfield	20	5.3	7.3 <sup>4</sup>	1.7	18	6.8	8.5 <sup>4</sup>	2.1
Hartford	23	5.6	8.4 <sup>4</sup>	1.8	19	6.4	8.2 <sup>4</sup>	1.9
New Haven	30	7.8	12.1	2.3	18	6.6	8.7 <sup>4</sup>	2.1
Other Five	8	-	-	-	5	-	-	-
Conn.	81	6.3	9.5	1.1	60	6.6	8.6	1.1

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> The standard error is between 20% and 25% of the observed rate.

\* P < .05 (compared to the observed rate in 1990-97).



Table 10  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, 1990-2002  
Uterine Cervix (53.0-53.9), Corpus (54.0-54.9)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>	Tumors	Crude Rate	Age-adjusted Rate Observed <sup>1</sup>	SE <sup>2</sup>
<u>Corpus - All Races<sup>3</sup></u>								
Fairfield	1025	29.3	26.3	0.8	731	32.0	28.5	1.1
Hartford	956	27.1	23.9	0.8	628	28.2	23.8	1.0
New Haven	1153	34.3	30.9	0.9	722	33.7	29.6	1.1
New London	298	29.1	27.9	1.6	244	37.3	34.1*	2.2
Litchfield	219	30.2	26.6	1.8	154	32.9	27.7	2.3
Middlesex	204	34.0	31.7	2.2	136	34.1	29.5	2.5
Tolland	117	22.5	25.5	2.4	77	22.4	23.0	2.6
Windham	111	25.9	26.0	2.5	82	29.6	28.4	3.2
Conn.	4083	29.8	27.1	0.4	2774	31.5	27.7	0.5
<u>White</u>								
Fairfield	957	31.7	26.8	0.9	681	35.3	29.7*	1.1
Hartford	915	30.1	25.0	0.8	587	31.5	24.8	1.0
New Haven	1078	37.0	31.6	1.0	668	36.9	30.4	1.2
Other Five	934	29.8	28.0	0.9	673	33.4	29.5	1.1
Conn.	3884	32.1	27.7	0.5	2609	34.3	28.5	0.6
<u>Black</u>								
Fairfield	54	14.2	19.8	2.8	36	13.6	16.7	2.8
Hartford	32	7.7	11.2	2.0	29	9.8	13.0	2.5
New Haven	64	16.6	24.9	3.2	45	16.4	22.4	3.4
Other Five	12	-	-	-	10	-	-	-
Conn.	162	12.7	18.5	1.5	120	13.2	17.5	1.6
<u>Other Specified Races</u>								
Conn.	24	8.0	14.2	3.1	31	11.6	18.9	3.6
<u>Cervix - All Races<sup>3</sup></u>								
Fairfield	357	10.2	9.7	0.5	197	8.6	7.9*	0.6
Hartford	297	8.4	7.9	0.5	148	6.6	6.1*	0.5
New Haven	329	9.8	9.4	0.5	190	8.9	8.3	0.6
New London	109	10.6	10.4	1.0	61	9.3	8.8	1.1
Litchfield	56	7.7	7.0	0.9	39	8.3	7.4	1.2
Middlesex	58	9.7	8.9	1.2	27	6.8	6.0	1.2
Tolland	25	4.8	4.8 <sup>4</sup>	1.0	13	-	-	-
Windham	42	9.8	9.8	1.5	19	6.9	6.7 <sup>4</sup>	1.5
Conn.	1273	9.3	8.8	0.2	694	7.9	7.3*	0.3
<u>White</u>								
Fairfield	286	9.5	8.7	0.5	163	8.4	7.5	0.6
Hartford	241	7.9	7.2	0.5	128	6.9	6.2	0.6
New Haven	278	9.5	8.9	0.5	157	8.7	7.9	0.6
Other Five	280	8.9	8.4	0.5	147	7.3	6.7*	0.6
Conn.	1085	9.0	8.3	0.3	595	7.8	7.0*	0.3
<u>Black</u>								
Fairfield	62	16.3	18.8	2.5	28	10.6	12.1*	2.3
Hartford	46	11.1	15.4	2.4	17	5.8	7.24*	1.8
New Haven	45	11.7	15.6	2.4	28	10.2	13.4	2.6
Other Five	5	-	-	-	9	-	-	-
Conn.	158	12.3	16.1	1.3	82	9.0	11.0*	1.2
<u>Other Specified Races</u>								
Conn.	21	-	-	-	11	-	-	-

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 11  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Stomach (16.0-16.9)

County	Tumors	Crude Age-adjusted Rate			Tumors	Crude Age-adjusted Rate		
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>		Rate	Observed <sup>1</sup>	SE <sup>2</sup>
1990-1997				1998-2002				
<u>All Races<sup>3</sup> - Male</u>								
Fairfield	406	12.5	14.7	0.8	256	12.0	13.1	0.8
Hartford	492	15.0	16.2	0.7	291	14.1	14.5	0.8
New Haven	442	14.2	15.7	0.8	268	13.5	14.0	0.9
New London	100	9.8	12.5	1.3	53	8.3	9.5	1.3
Litchfield	84	12.1	13.6	1.5	56	12.5	12.6	1.7
Middlesex	54	9.5	10.8	1.5	35	9.2	9.7	1.6
Tolland	35	6.7	9.9	1.8	43	12.5	16.0	2.5
Windham	31	7.5	9.2	1.7	28	10.4	12.5	2.4
Conn.	1645 <sup>4</sup>	12.8	14.6	0.4	1030	12.5	13.3*	0.4
<u>All Races<sup>3</sup> - Female</u>								
Fairfield	279	8.0	6.6	0.4	170	7.5	6.2	0.5
Hartford	316	9.0	7.2	0.4	180	8.1	6.0	0.5
New Haven	314	9.3	7.2	0.4	171	8.0	6.0	0.5
New London	64	6.3	5.7	0.7	35	5.3	4.4	0.7
Litchfield	47	6.5	5.1	0.8	40	8.5	6.4	1.0
Middlesex	33	5.5	4.7	0.8	21	5.3	4.1 <sup>5</sup>	0.9
Tolland	22	4.2	4.8 <sup>5</sup>	1.0	14	-	-	-
Windham	35	8.2	7.1	1.2	9	-	-	-
Conn.	1110	8.1	6.6	0.2	640	7.3	5.7*	0.2
<u>White - Male</u>								
Fairfield	358	12.7	13.9	0.8	224	12.3	12.5	0.8
Hartford	439	15.6	15.5	0.8	254	14.7	13.8	0.9
New Haven	403	14.9	15.2	0.8	236	14.0	13.4	0.9
Other Five	289	9.5	11.4	0.7	200	10.3	11.1	0.8
Conn.	1490	13.1	14.0	0.4	914	12.7	12.7	0.4
<u>White - Female</u>								
Fairfield	251	8.3	6.4	0.4	154	8.0	6.1	0.5
Hartford	276	9.1	6.7	0.4	159	8.5	5.7	0.5
New Haven	280	9.6	6.8	0.4	155	8.6	5.9	0.5
Other Five	194	6.2	5.3	0.4	117	5.8	4.6	0.4
Conn.	1001	8.3	6.3	0.2	585	7.7	5.6*	0.2
<u>Black - Male</u>								
Fairfield	43	13.1	29.1	5.0	23	10.3	19.4 <sup>5</sup>	4.2
Hartford	44	11.7	24.0	4.0	33	12.2	23.6	4.6
New Haven	36	10.6	23.2	4.5	27	11.1	27.7 <sup>5</sup>	5.9
Other Five	12	-	-	-	12	-	-	-
Conn.	135	11.6	25.5	2.5	95	11.5	24.2	2.7
<u>Black - Female</u>								
Fairfield	23	6.1	9.7 <sup>5</sup>	2.1	13	-	-	-
Hartford	38	9.2	14.4	2.4	18	6.1	8.6 <sup>5</sup>	2.1
New Haven	30	7.8	12.8	2.4	15	-	-	-
Other Five	2	-	-	-	2	-	-	-
Conn.	93	7.3	11.7	1.3	48	5.3	7.7*	1.1

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 12  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Leukemia (site 42.1, morphology 9800-9948)

County	Tumors	Crude Age-adjusted Rate			Tumors	Crude Age-adjusted Rate		
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>		Rate	Observed <sup>1</sup>	SE <sup>2</sup>
1990-1997				1998-2002				
<u>All Races<sup>3</sup> - Male</u>								
Fairfield	496	15.3	17.3	0.8	308	14.4	15.4	0.9
Hartford	535	16.4	17.4	0.8	364	17.6	18.0	0.9
New Haven	439	14.1	15.0	0.7	260	13.1	13.6	0.8
New London	115	11.2	13.2	1.3	98	15.3	16.6	1.7
Litchfield	102	14.7	15.4	1.5	58	13.0	13.1	1.7
Middlesex	80	14.0	15.9	1.8	51	13.5	14.0	2.0
Tolland	47	9.0	12.2	1.9	54	15.7	20.5*	2.9
Windham	61	14.8	16.7	2.2	36	13.4	15.4	2.6
Conn.	1876 <sup>4</sup>	14.6	16.1	0.4	1229	14.9	15.7	0.5
<u>All Races<sup>3</sup> - Female</u>								
Fairfield	380	10.9	9.5	0.5	223	9.8	8.6	0.6
Hartford	430	12.2	10.4	0.5	271	12.2	10.1	0.6
New Haven	350	10.4	8.9	0.5	226	10.5	8.6	0.6
New London	97	9.5	8.8	0.9	73	11.2	10.1	1.2
Litchfield	82	11.3	9.6	1.1	60	12.8	10.6	1.4
Middlesex	70	11.7	10.0	1.2	42	10.5	8.9	1.4
Tolland	47	9.0	9.9	1.4	35	10.2	10.7	1.8
Windham	47	10.9	9.9	1.5	28	10.1	9.0	1.7
Conn.	1504 <sup>4</sup>	11.0	9.6	0.3	959 <sup>4</sup>	10.9	9.3	0.3
<u>White - Male</u>								
Fairfield	466	16.5	17.3	0.8	284	15.6	15.7	0.9
Hartford	502	17.8	17.4	0.8	328	19.0	18.0	1.0
New Haven	413	15.3	15.0	0.7	240	14.3	13.8	0.9
Other Five	392	12.9	14.6	0.8	288	14.8	15.9	0.9
Conn.	1774 <sup>4</sup>	15.6	16.3	0.4	1140	15.9	15.9	0.5
<u>White - Female</u>								
Fairfield	353	11.7	9.7	0.5	202	10.5	8.7	0.6
Hartford	392	12.9	10.3	0.5	248	13.3	10.2	0.7
New Haven	330	11.3	9.2	0.5	214	11.8	9.2	0.7
Other Five	331	10.6	9.4	0.5	230	11.4	9.9	0.7
Conn.	1406	11.6	9.7	0.3	895 <sup>4</sup>	11.8	9.6	0.3
<u>Black - Male</u>								
Fairfield	22	-	-	-	9	-	-	-
Hartford	28	7.4	12.7 <sup>5</sup>	2.7	23	8.5	17.5 <sup>5</sup>	4.3
New Haven	24	7.0	11.1 <sup>5</sup>	2.6	17	-	-	-
Other Five	3	-	-	-	3	-	-	-
Conn.	77	6.6	11.7	1.6	52	6.3	11.5	1.9
<u>Black - Female</u>								
Fairfield	23	6.1	8.3 <sup>5</sup>	1.8	17	6.4	7.4 <sup>5</sup>	1.8
Hartford	35	8.5	11.6	2.1	19	6.4	8.2 <sup>5</sup>	2.0
New Haven	16	-	-	-	11	-	-	-
Other Five	10	-	-	-	4	-	-	-
Conn.	84	6.6	9.0	1.0	51	5.6	7.2	1.0

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 13  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Lymphomas (morphology 9590-9729)<sup>1</sup>

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Observed <sup>2</sup>	SE <sup>3</sup>	Crude Rate	Age-adjusted Observed <sup>2</sup>	SE <sup>3</sup>	
<u>All Races<sup>4</sup> - Male</u>								
Fairfield	845	26.0	27.7	1.0	557	26.1	27.4	1.2
Hartford	895	27.4	28.6	1.0	594	28.8	29.0	1.2
New Haven	946	30.4	32.0	1.1	567	28.6	29.2	1.2
New London	229	22.4	25.7	1.8	150	23.4	25.3	2.1
Litchfield	156	22.5	23.4	1.9	158	35.3	34.8*	2.8
Middlesex	141	24.7	26.4	2.3	93	24.6	25.0	2.6
Tolland	114	21.9	27.8	2.8	79	22.9	28.5	3.3
Windham	89	21.6	24.2	2.6	56	20.8	23.1	3.1
Conn.	3415	26.6	28.4	0.5	2254	27.3	28.2	0.6
<u>All Races<sup>4</sup> - Female</u>								
Fairfield	825	23.6	21.1	0.7	539	23.6	21.1	0.9
Hartford	800	22.7	19.4	0.7	537	24.1	20.2	0.9
New Haven	802	23.8	20.6	0.7	526	24.5	20.7	0.9
New London	207	20.2	18.8	1.3	139	21.2	19.2	1.6
Litchfield	136	18.8	16.2	1.4	102	21.8	18.2	1.8
Middlesex	130	21.6	19.0	1.7	84	21.1	18.1	2.0
Tolland	73	14.0	15.4	1.8	60	17.5	17.9	2.3
Windham	85	19.8	18.5	2.0	55	19.8	18.7	2.5
Conn.	3058	22.3	19.7	0.4	2042	23.2	20.2	0.5
<u>White - Male</u>								
Fairfield	781	27.7	28.1	1.0	517	28.3	28.2	1.2
Hartford	832	29.6	29.3	1.0	541	31.3	29.6	1.3
New Haven	864	32.0	32.0	1.1	528	31.4	30.3	1.3
Other Five	704	23.1	25.3	1.0	518	26.7	27.7	1.2
Conn.	3181	27.9	28.7	0.5	2104	29.3	28.8	0.6
<u>White - Female</u>								
Fairfield	766	25.4	21.4	0.8	483	25.0	21.2	1.0
Hartford	754	24.8	20.1	0.8	506	27.2	21.4	1.0
New Haven	762	26.1	21.4	0.8	483	26.7	21.2	1.0
Other Five	621	19.8	18.1	0.7	424	21.1	18.5	0.9
Conn.	2903	24.0	20.2	0.4	1896	24.9	20.6	0.5
<u>Black - Male</u>								
Fairfield	54	16.5	23.2	3.7	27	12.1	17.4 <sup>5</sup>	3.7
Hartford	60	15.9	21.9	3.0	46	17.0	25.9	4.4
New Haven	64	18.8	25.8	3.4	30	12.4	16.4*	3.1
Other Five	19	-	-	-	12	-	-	-
Conn.	197	17.0	23.6	1.9	115	13.9	19.9	2.1
<u>Black - Female</u>								
Fairfield	51	13.4	15.2	2.2	38	14.4	16.6	2.8
Hartford	43	10.4	15.6	2.4	28	9.5	11.2	2.2
New Haven	32	8.3	10.4	1.9	40	14.6	18.0*	3.0
Other Five	6	-	-	-	7	-	-	-
Conn.	132	10.3	13.4	1.2	113	12.4	14.8	1.4

<sup>1</sup> Numbers in parentheses are the current histologic listings in the International Classification of Diseases For Oncology. Lymphomas of any site are included.

<sup>2</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>3</sup> Standard error of the age-adjusted rate.

<sup>4</sup> Includes tumors for persons not specified as to race.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 14  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Pancreas (25.0-25.9)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Rate		Crude Rate	Age-adjusted Rate		
			Observed <sup>1</sup>	SE <sup>2</sup>		Observed <sup>1</sup>	SE <sup>2</sup>	
			<u>All Races - Male</u>					
Fairfield	380	11.7	13.0	0.7	249	11.7	12.7	0.8
Hartford	442	13.5	14.3	0.7	263	12.8	12.9	0.8
New Haven	352	11.3	12.4	0.7	279	14.1	14.6	0.9
New London	107	10.4	12.9	1.3	86	13.4	14.4	1.6
Litchfield	86	12.4	13.3	1.5	63	14.1	14.0	1.8
Middlesex	54	9.5	10.7	1.5	51	13.5	13.9	2.0
Tolland	56	10.8	15.3	2.2	36	10.5	14.3	2.5
Windham	44	10.7	12.8	2.0	38	14.1	16.0	2.6
Conn.	1521	11.8	13.2	0.3	1066 <sup>4</sup>	12.9	13.6	0.4
			<u>All Races - Female</u>					
Fairfield	442	12.7	10.6	0.5	314	13.8	11.5	0.7
Hartford	454	12.9	10.2	0.5	273	12.3	9.2	0.6
New Haven	410	12.2	9.6	0.5	286	13.3	10.4	0.6
New London	127	12.4	11.1	1.0	66	10.1	8.7	1.1
Litchfield	81	11.2	9.1	1.0	65	13.9	10.6	1.3
Middlesex	82	13.7	11.2	1.3	52	13.1	10.9	1.5
Tolland	60	11.5	13.2	1.7	29	8.5	8.9	1.7
Windham	55	12.8	11.4	1.6	34	12.3	10.3	1.8
Conn.	1711 <sup>3</sup>	12.5	10.3	0.3	1119	12.7	10.2	0.3
			<u>White - Male</u>					
Fairfield	341	12.1	12.6	0.7	226	12.4	12.5	0.8
Hartford	411	14.6	14.3	0.7	242	14.0	13.0	0.8
New Haven	311	11.5	11.7	0.7	251	14.9	14.2*	0.9
Other Five	336	11.0	12.8	0.7	263	13.5	14.3	0.9
Conn.	1399	12.3	12.9	0.4	983 <sup>4</sup>	13.7	13.5	0.4
			<u>White - Female</u>					
Fairfield	407	13.5	10.5	0.5	281	14.6	11.2	0.7
Hartford	421	13.9	10.1	0.5	251	13.5	9.2	0.6
New Haven	370	12.7	9.2	0.5	257	14.2	10.1	0.6
Other Five	395	12.6	10.9	0.6	237	11.8	9.7	0.6
Conn.	1593	13.2	10.1	0.3	1026	13.5	10.0	0.3
			<u>Black - Male</u>					
Fairfield	34	10.4	20.8	4.1	20	9.0	15.8 <sup>5</sup>	3.9
Hartford	27	7.2	14.1	2.9	18	-	-	-
New Haven	39	11.4	20.9	3.5	28	11.5	21.0	4.3
Other Five	9	-	-	-	9	-	-	-
Conn.	109	9.4	18.7	2.0	75	9.1	16.9	2.1
			<u>Black - Female</u>					
Fairfield	32	8.4	13.9	2.5	26	9.9	13.3	2.7
Hartford	31	7.5	12.4	2.3	17	5.8	8.4 <sup>5</sup>	2.1
New Haven	40	10.4	17.0	2.7	27	9.9	14.9	2.9
Other Five	9	-	-	-	7	-	-	-
Conn.	112	8.8	14.7	1.4	77	8.5	12.4	1.4

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> Includes state residents for whom the county is not stated.

<sup>5</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 15  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Oral Cavity, Pharynx (00.0-14.8)

County	Tumors	Crude Age-adjusted Rate			Tumors	Crude Age-adjusted Rate			
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>		Rate	Observed <sup>1</sup>	SE <sup>2</sup>	
		1990-1997			1998-2002				
<u>All Races<sup>3</sup> - Male</u>									
Fairfield	533	16.4	17.3	0.8	298	14.0	14.7*	0.9	
Hartford	581	17.8	18.7	0.8	332	16.1	15.9	0.9	
New Haven	494	15.9	17.0	0.8	299	15.1	15.4	0.9	
New London	172	16.8	19.3	1.5	99	15.4	16.5	1.7	
Litchfield	110	15.9	16.8	1.6	65	14.5	13.7	1.7	
Mid Essex	87	15.2	16.4	1.8	57	15.0	14.7	2.0	
Tolland	53	10.2	13.2	1.9	43	12.5	13.4	2.1	
Windham	56	13.6	15.3	2.0	35	13.0	14.8	2.5	
Conn.	2086	16.2	17.4	0.4	1228	14.9	15.2*	0.4	
<u>All Races<sup>3</sup> - Female</u>									
Fairfield	288	8.2	7.2	0.4	183	8.0	7.0	0.5	
Hartford	291	8.2	7.1	0.4	152	6.8	5.8*	0.5	
New Haven	282	8.4	7.4	0.5	167	7.8	6.7	0.5	
New London	76	7.4	7.1	0.8	37	5.7	5.0	0.8	
Litchfield	58	8.0	7.3	1.0	33	7.1	5.7	1.0	
Mid Essex	49	8.2	7.1	1.0	34	8.5	7.1	1.2	
Tolland	31	6.0	6.7	1.2	17	5.0	4.9	1.2	
Windham	23	5.4	5.3	1.1	15	-	-	-	
Conn.	1098	8.0	7.1	0.2	638	7.3	6.2*	0.2	
<u>White - Male</u>									
Fairfield	466	16.5	16.4	0.8	267	14.6	14.5	0.9	
Hartford	500	17.8	17.5	0.8	293	17.0	15.6	0.9	
New Haven	420	15.5	15.7	0.8	256	15.2	14.6	0.9	
Other Five	459	15.1	16.6	0.8	290	14.9	14.9	0.9	
Conn.	1845	16.2	16.5	0.4	1106	15.4	14.9*	0.4	
<u>White - Female</u>									
Fairfield	261	8.6	7.0	0.4	165	8.5	7.0	0.5	
Hartford	270	8.9	7.2	0.4	128	6.9	5.4*	0.5	
New Haven	255	8.7	7.2	0.5	149	8.2	6.6	0.6	
Other Five	225	7.2	6.7	0.4	134	6.7	5.7	0.5	
Conn.	1011	8.3	7.0	0.2	576	7.6	6.1*	0.3	
<u>Black - Male</u>									
Fairfield	61	18.6	28.0	3.8	27	12.1	17.0*	3.4	
Hartford	68	18.0	28.1	3.7	33	12.2	20.7	3.9	
New Haven	69	20.2	32.7	4.1	38	15.7	26.2	4.6	
Other Five	15	-	-	-	2	-	-	-	
Conn.	213	18.3	29.2	2.1	100	12.1	19.8*	2.1	
<u>Black - Female</u>									
Fairfield	23	6.1	7.8 <sup>4</sup>	1.6	11	-	-	-	
Hartford	18	4.4	6.0 <sup>4</sup>	1.4	18	6.1	7.7 <sup>4</sup>	1.9	
New Haven	25	6.5	8.5 <sup>4</sup>	1.7	14	-	-	-	
Other Five	8	-	-	-	1	-	-	-	
Conn.	74	5.8	7.8	0.9	44	4.8	6.6	1.0	

<sup>1</sup> Age-adjusted directly to the U. S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> The standard error is between 20% and 25% of the observed rate.

\* P < .05 (compared to the observed rate in 1990-97).

Table 16  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002  
Ovary (56.9)<sup>1</sup> Thyroid (73.9)

County	Tumors	1990-1997			1998-2002			
		Crude Rate	Age-adjusted Observed <sup>2</sup>	Rate SE <sup>3</sup>	Crude Rate	Age-adjusted Observed <sup>2</sup>	Rate SE <sup>3</sup>	
<u>Ovary - All Races<sup>4</sup></u>								
Fairfield	613	17.5	15.9	0.6	380	16.7	14.7	0.8
Hartford	555	15.7	13.9	0.6	322	14.5	12.0*	0.7
New Haven	566	16.8	14.8	0.6	373	17.4	15.2	0.8
New London	175	17.1	16.4	1.3	100	15.3	13.7	1.4
Litchfield	123	17.0	14.9	1.4	71	15.2	12.8	1.5
Middlesex	105	17.5	16.2	1.6	64	16.1	13.6	1.7
Tolland	66	12.7	14.2	1.7	34	9.9	9.9	1.7
Windham	68	15.8	15.1	1.9	48	17.3	15.9	2.3
Conn. <sup>5</sup>	2272	16.6	15.0	0.3	1394	15.9	13.8*	0.4
<u>White</u>								
Fairfield	585	19.4	16.8	0.7	357	18.5	15.4	0.8
Hartford	521	17.2	14.3	0.6	311	16.7	13.1	0.8
New Haven	542	18.6	15.5	0.7	342	18.9	15.4	0.9
Other Five	533	17.0	15.9	0.7	310	15.4	13.4	0.8
Conn. <sup>5</sup>	2182	18.0	15.6	0.3	1322	17.4	14.3	0.4
<u>Black</u>								
Fairfield	24	6.3	8.4 <sup>6</sup>	1.8	11	-	-	-
Hartford	27	6.5	8.6 <sup>6</sup>	1.7	8	-	-	-
New Haven	22	5.7	7.9 <sup>6</sup>	1.7	23	8.4	11.3 <sup>6</sup>	2.4
Other Five	4	-	-	-	4	-	-	-
Counties								
Conn.	77	6.0	8.2	1.0	46	5.1	6.5	1.0
<u>Thyroid</u>								
<u>Male - All Races<sup>4</sup></u>								
Fairfield	105	3.2	3.3	0.3	104	4.9	4.8*	0.5
Hartford	95	2.9	2.9	0.3	82	4.0	3.9	0.4
New Haven	123	4.0	4.1	0.4	102	5.1	5.2	0.5
New London	34	3.3	3.5	0.6	34	5.3	5.5	1.0
Litchfield	26	3.5	3.6	0.7	17	3.8	3.5	0.9
Other Three	29	1.9	2.0	0.4	44	4.4	4.4*	0.7
Conn.	412	3.2	3.3	0.2	383	4.6	4.6*	0.2
<u>Female - All Races<sup>4</sup></u>								
Fairfield	275	7.9	7.4	0.5	314	13.8	13.3*	0.8
Hartford	263	7.5	7.3	0.5	224	10.1	9.6*	0.7
New Haven	264	7.8	7.6	0.5	308	14.4	14.0*	0.8
New London	79	7.7	7.6	0.9	73	11.2	10.5	1.2
Litchfield	69	9.5	9.3	1.1	78	16.7	15.4*	1.8
Middlesex	52	8.7	8.1	1.1	40	10.0	9.5	1.5
Tolland	32	6.2	6.2	1.1	43	12.5	12.3*	1.9
Windham	24	5.6	5.4	1.1	25	9.0	9.1 <sup>6</sup>	1.8
Conn.	1058	7.7	7.4	0.2	1106 <sup>5</sup>	12.6	12.1*	0.4
<u>Female - White</u>								
Conn.	979	8.1	7.7	0.2	1003	13.2	12.5*	0.4
<u>Female - Black</u>								
Conn.	51	4.0	4.8	0.7	50	5.5	6.1	0.9

<sup>1</sup> Excludes 366 cystadenomas, earlier classified as malignant in the "ICD-0" (International Classification of Diseases For Oncology), now listed as of "uncertain malignancy".

<sup>2</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>3</sup> Standard error of the age-adjusted rate.

<sup>4</sup> Includes tumors for persons not specified as to race.

<sup>5</sup> Includes state residents for whom the county is not stated.

<sup>6</sup> The standard error is between 20% and 25% of the observed rate.

\* p < .05 (compared to the observed rate in 1990-97).

Table 17  
Incidence of Invasive Tumors, Rates/100,000, by County, Race, Sex, 1990-2002-  
Myeloma (site 42.1, morphology 9831-9832)

County	Tumors	Crude Age-adjusted Rate			Crude Age-adjusted Rate			
		Rate	Observed <sup>1</sup>	SE <sup>2</sup>	Rate	Observed <sup>1</sup>	SE <sup>2</sup>	
		1990-1997			1998-2002			
				<u>All Races<sup>3</sup> - Male</u>				
Fairfield	201	6.2	7.0	0.5	144	6.8	7.4	0.6
Hartford	215	6.6	7.0	0.5	144	7.0	7.1	0.6
New Haven	165	5.3	5.8	0.5	125	6.3	6.5	0.6
New London	56	5.5	7.0	1.0	33	5.1	6.0	1.1
Litchfield	53	7.6	8.4	1.2	24	5.4	5.4	1.1
Middlesex	28	4.9	5.6	1.1	25	6.6	6.8	1.4
Tolland	18	3.5	4.4 <sup>4</sup>	1.1	21	6.1	7.6 <sup>4</sup>	1.7
Windham	27	6.6	7.7	1.5	19	7.0	7.8 <sup>4</sup>	1.8
Conn.	763	5.9	6.7	0.2	535	6.5	6.8	0.3
				<u>All Races<sup>3</sup> - Female</u>				
Fairfield	197	5.6	4.8	0.3	116	5.1	4.4	0.4
Hartford	175	5.0	4.0	0.3	125	5.6	4.5	0.4
New Haven	180	5.3	4.3	0.3	107	5.0	4.1	0.4
New London	56	5.5	4.8	0.6	37	5.7	4.9	0.8
Litchfield	45	6.2	4.9	0.7	19	4.1	3.2 <sup>4</sup>	0.7
Middlesex	34	5.7	4.8	0.8	15	-	-	-
Tolland	18	3.5	4.1 <sup>4</sup>	1.0	19	5.5	5.7 <sup>4</sup>	1.3
Windham	19	4.4	3.7 <sup>4</sup>	0.8	11	-	-	-
Conn.	724	5.3	4.4	0.2	449	5.1	4.3	0.2
				<u>White - Male</u>				
Fairfield	172	6.1	6.4	0.5	126	6.9	7.0	0.6
Hartford	181	6.4	6.4	0.5	129	7.5	7.0	0.6
New Haven	144	5.3	5.4	0.5	113	6.7	6.3	0.6
Other Five	178	5.8	6.9	0.5	118	6.1	6.5	0.6
Conn.	675	5.9	6.3	0.2	486	6.8	6.7	0.3
				<u>White - Female</u>				
Fairfield	171	5.7	4.4	0.3	98	5.1	4.1	0.4
Hartford	152	5.0	3.7	0.3	99	5.3	3.8	0.4
New Haven	150	5.1	3.8	0.3	91	5.0	3.7	0.4
Other Five	169	5.4	4.6	0.4	98	4.9	4.0	0.4
Conn.	642	5.3	4.1	0.2	386	5.1	3.9	0.2
				<u>Black - Male</u>				
Fairfield	27	8.2	18.3 <sup>4</sup>	4.1	14	-	-	-
Hartford	30	7.9	14.2	2.8	14	-	-	-
New Haven	19	-	-	-	11	-	-	-
Other Five	3	-	-	-	4	-	-	-
Conn.	79	6.8	14.7	1.9	43	5.2	9.8	1.7
				<u>Black - Female</u>				
Fairfield	23	6.1	8.6 <sup>4</sup>	1.8	18	6.8	8.9 <sup>4</sup>	2.2
Hartford	22	5.3	8.3 <sup>4</sup>	1.8	22	7.5	9.9 <sup>4</sup>	2.1
New Haven	28	7.3	11.7	2.3	15	-	-	-
Other Five	2	-	-	-	1	-	-	-
Conn.	75	5.9	9.1	1.1	58	6.4	8.7	1.2

<sup>1</sup> Age-adjusted directly to the U.S. 2000 standard million.

<sup>2</sup> Standard error of the age-adjusted rate.

<sup>3</sup> Includes tumors for persons not specified as to race.

<sup>4</sup> The standard error is between 20% and 25% of the observed rate.



Table 18  
Ratios of Black-to-White Age-adjusted Incidence Rates by County,  
Site, Diagnosis Period, Sex, 1990-2002<sup>1</sup>

	<u>Fairfield</u>		<u>Hartford</u>		<u>New Haven</u>		<u>All Others</u> <sup>2</sup>		<u>Conn.</u>	
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
	<u>All Sites</u>									
1990-97	1.23	0.87	1.19	0.87	1.24	0.94	1.09	1.01	1.22	0.89
1998-02	1.05	0.81	1.05	0.82	1.13	0.91	1.18	0.80	1.07	0.84
1990-02	1.15	0.84	1.13	0.85	1.20	0.92	1.14	0.90	1.15	0.87
	<u>Lung, Bronchus, Trachea</u>									
1990-97	1.25	0.86	1.29	0.86	1.21	0.83	1.53	0.78	1.26	0.84
1998-02	1.21	0.91	1.16	0.85	1.24	0.92	0.93	0.92	1.17	0.88
1990-02	1.23	0.88	1.23	0.86	1.22	0.87	1.23	0.86	1.22	0.86
	<u>Prostate</u>									
1990-97	1.58	-	1.64	-	1.68	-	1.18	-	1.61	-
1998-02	1.46	-	1.42	-	1.41	-	1.59	-	1.45	-
1990-02	1.53	-	1.54	-	1.56	-	1.41	-	1.54	-
	<u>Female Breast</u>									
1990-97	-	0.80	-	0.76	-	0.87	-	0.99	-	0.82
1998-02	-	0.78	-	0.78	-	0.84	-	0.71	-	0.80
1990-02	-	0.79	-	0.77	-	0.86	-	0.85	-	0.81
	<u>Colon, Rectum, Anus</u>									
1990-97	1.03	0.95	1.10	1.07	1.05	1.12	0.84	1.06	1.05	1.03
1998-02	0.99	1.14	0.81	1.23	0.91	1.19	-	0.88	0.89	1.16
1990-02	1.01	1.03	0.96	1.14	0.99	1.15	0.78	0.97	0.98	1.09
	<u>Colon</u>									
1990-97	1.12	1.01	1.21	1.11	1.13	1.21	1.00	1.26	1.16	1.11
1998-02	1.05	1.25	0.78	1.38	1.02	1.12	-	0.94	0.94	1.22
1990-02	1.09	1.12	1.01	1.22	1.09	1.17	0.86	1.11	1.06	1.16
	<u>Rectum, Anus</u>									
1990-97	0.82	0.75	0.85	0.95	0.87	0.88	-	-	0.82	0.82
1998-02	0.83	0.84	0.88	0.86	0.63	1.38	-	-	0.77	0.99
1990-02	0.82	0.79	0.85	0.91	0.77	1.09	-	-	0.80	0.90
	<u>Bladder</u>									
1990-97	0.57	0.69	0.31	0.66	0.49	0.66	-	-	0.46	0.70
1998-02	0.32	-	0.36	-	0.40	-	-	-	0.39	0.53
1990-02	0.46	0.50	0.33	0.66	0.45	0.59	-	-	0.43	0.62
	<u>Kidney</u>									
1990-97	0.78	0.87	0.88	1.11	1.00	1.29	-	-	0.86	1.13
1998-02	0.95	0.96	0.71	0.87	1.39	0.80	-	-	0.99	0.88
1990-02	0.86	0.91	0.81	0.99	1.17	1.07	-	-	0.92	1.02
	<u>Corpus</u>									
1990-97	-	0.74	-	0.45	-	0.79	-	-	-	0.67
1998-02	-	0.56	-	0.52	-	0.74	-	-	-	0.61
1990-02	-	0.66	-	0.48	-	0.77	-	0.72	-	0.64
	<u>Cervix</u>									
1990-97	-	2.16	-	2.14	-	1.75	-	-	-	1.94
1998-02	-	1.61	-	1.16	-	1.70	-	-	-	1.57
1990-02	-	1.94	-	1.73	-	1.72	-	-	-	1.78

(footnotes shown on second page of table)

Table 18 (cont.)  
Ratios of Black-to-White Age-adjusted Incidence Rates by County,  
Site, Diagnosis Period, Sex; 1990-2002<sup>1</sup>

	<u>Fairfield</u>		<u>Hartford</u>		<u>New Haven</u>		<u>All Others</u> <sup>2</sup>		<u>Conn.</u>	
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
	<u>Stomach</u>									
1990-97	2.09	1.52	1.55	2.15	1.53	1.88	-	-	1.82	1.86
1998-02	1.55	-	1.71	1.51	2.07	-	-	-	1.91	1.38
1990-02	1.86	1.34	1.61	1.88	1.77	1.70	2.71	-	1.86	1.66
	<u>Leukemia</u>									
1990-97	-	0.86	0.73	1.13	0.74	-	-	-	0.72	0.93
1998-02	-	0.85	0.97	0.80	-	-	-	-	0.72	0.75
1990-02	0.56	0.84	0.82	0.99	0.81	0.60	-	-	0.72	0.85
	<u>Lymphoma</u>									
1990-97	0.83	0.71	0.75	0.78	0.81	0.49	-	-	0.82	0.66
1998-02	0.62	0.78	0.88	0.52	0.54	0.85	-	-	0.69	0.72
1990-02	0.74	0.74	0.81	0.66	0.69	0.65	0.81	-	0.77	0.69
	<u>Pancreas</u>									
1990-97	1.65	1.32	0.99	1.23	1.79	1.85	-	-	1.45	1.46
1998-02	1.26	1.19	-	0.91	1.48	1.48	-	-	1.25	1.24
1990-02	1.48	1.26	0.98	1.09	1.65	1.69	-	-	1.37	1.35
	<u>Oral, Pharynx</u>									
1990-97	1.71	1.11	1.61	0.83	2.08	1.18	-	-	1.77	1.11
1998-02	1.17	-	1.33	1.43	1.79	-	-	-	1.33	1.08
1990-02	1.48	0.95	1.48	1.05	1.96	1.18	-	-	1.58	1.09
	<u>Ovary</u>									
1990-97	-	0.50	-	0.60	-	0.51	-	-	-	0.53
1998-02	-	-	-	-	-	0.73	-	-	-	0.45
1990-02	-	0.43	-	0.47	-	0.60	-	-	-	0.49
	<u>Thyroid</u>									
1990-97	-	-	-	-	-	-	-	-	-	0.62
1998-02	-	-	-	-	-	-	-	-	-	0.49
1990-02	-	0.34	-	0.62	-	0.69	-	-	0.44	0.56
	<u>Myeloma</u>									
1990-97	2.86	1.95	2.22	2.24	-	3.08	-	-	2.33	2.22
1998-02	-	2.17	-	2.61	-	-	-	-	1.46	2.23
1990-02	2.21	2.02	1.86	2.39	2.12	2.65	-	-	1.95	2.21

Ratios for Counties Not Included in "All Others" by Site

	<u>New London</u>		<u>Middlesex</u>		<u>New London</u>		<u>New London</u>	
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
	<u>All Sites</u>		<u>All Sites</u>		<u>Prostate</u>		<u>F. Breast</u>	
1990-97	1.13	0.82	1.28	0.91	1.37	-	-	0.73
1998-02	1.03	0.83	1.01	0.65	1.67	-	-	0.72
1990-02	1.07	0.81	1.16	0.78	1.51	-	-	0.72

<sup>1</sup> Ratio not shown if either of the rates has a standard error of 25% or greater.

<sup>2</sup> For All Sites, combined data for Litchfield, Tolland and Windham is shown, with ratios for New London and Middlesex given at the end of the table. For the Prostate and Breast, the data is combined for 4 counties: Middlesex and the 3 above for All Sites, with the New London County ratios shown at the end. The data of 5 counties, New London, Middlesex, Litchfield, Tolland and Windham, are combined for each of the remaining sites as "All Others".

## Appendix A

### Formulas For Computing Incidence Rates and Standard Errors, Per 100,000, Including Age-adjusted Rates, Directly Standardized to the U.S. Standard Million For 2000

#### Variables

N - Number of tumors diagnosed, all ages

P - Total population at risk - sum of the annual estimates

$n_i$  - Number of tumors diagnosed under age 5, 5-9, succeeding  
5-year age groups to 80-84, and 85+

$p_i$  - Population estimate for the above age groups

U.S. 2000<sub>i</sub> - Age-specific sub-total of the standard million  
for the United States in 2000 for the above age groups

$$\begin{aligned}\text{Age-specific Rate } (r_i) &= n_i \times 100,000 / p_i \\ &= n_i / (p_i \times .00001)\end{aligned}$$

$$\text{Crude Rate} = N \times 100,000 / P$$

$$= N / (P \times .00001)$$

$$\text{Age-adjusted Rate (AAR)} = \text{Sum } [r_i \times \text{U.S. 2000}_i] / 1,000,000$$

$$= \text{Sum } [r_i \times (\text{U.S. 2000}_i \times .000001)]$$

for all age groups.

#### Standard Error of the Age-adjusted Rate (se)

$$= \text{Square root of the sum } [r_i \times (\text{U.S. 2000}_i \times .000001)^2 / (p_i \times .00001)]$$

for all age groups with the superscript  
2 indicating the quantity inside the inner  
brackets( ) is squared for each value  
of "2000<sub>i</sub>".

#### Test for difference

$$\text{of 2 rates} = (\text{AAR}_2 - \text{AAR}_1) / \text{Square root}[se_1^2 + se_2^2]$$

Values of the test above 1.96 have a probability  
of less than 5% of occurring by chance  
(p < .05).

## Appendix B

### Method of Calculating 95% Confidence Limits Incidence Rates

The following details a procedure for computing 95% confidence limits for the observed incidence rates shown in Tables 1-17. The example, taken from Table 1, is for the age-adjusted rates among Middlesex County female residents of black ancestry. The rates were 405.0 and 292.0 in 1990-97 and 1998-02, based on 60 and 38 diagnosed tumors, respectively.

The table below gives "Lower" and "Upper" adjustment factors for "No." = 60 of 0.770 and 1.30. These factors are multiplied by the age-adjusted rate.

#### Estimated 95% probability Limits

For a rate of 405.0 with 60 tumors = lower:  $405.0 \times 0.770 = 311.9$   
(diagnosed 1990-97) Upper:  $405.0 \times 1.30 = 526.5$

The limits for the rate in 1998-02 of 292.0 based on 38 diagnosed tumors requires an interpolation of the tabled values for "No" = 35 and 40.

$$\begin{aligned} \text{Lower factor for "No" } 38 &= (38-35/40-35) \times (0.714- 0.697) \\ &= (0.60 \times .017) + 0.697 = .707 \end{aligned}$$

$$\text{Lower limit for the age-adj. rate} = .707 \times 292.0 = 206.4$$

$$\begin{aligned} \text{Upper factor for "No" } 38 &= 1.39 - 0.60 \times (1.39-1.36) \\ &= 1.39 - .018 = 1.37 \end{aligned}$$

$$\text{upper limit for the age-adj. rate} = 1.37 \times 292.0 = 400.0$$

The adjustment factors used for obtaining the above confidence limits are based on tabled values and a computing formula in an article by Haenszel et al. published in 1962<sup>1</sup>. An alternate method for obtaining 95% confidence limits for an age-adjusted rate was published by Fay and Feuer in 1997<sup>2</sup>.

Appendix B (cont.)  
Adjustment Factors For 95% Confidence Intervals of Observed  
 Incidence Rates<sup>1</sup>

<u>No.</u>	<u>Lower</u>	<u>Upper</u>	<u>No.</u>	<u>Lower</u>	<u>Upper</u>
15	0.560	1.65	225	0.876	1.14
16	0.572	1.62	250	0.882	1.13
17	0.583	1.60	275	0.887	1.13
18	0.593	1.58	300	0.892	1.12
19	0.602	1.56	350	0.899	1.11
20	0.611	1.54	400	0.906	1.10
21	0.619	1.53	450	0.911	1.10
22	0.627	1.51	500	0.915	1.09
23	0.634	1.50	600	0.922	1.08
24	0.641	1.49	700	0.928	1.08
25	0.647	1.48	800	0.932	1.07
26	0.653	1.47	900	0.936	1.07
27	0.659	1.46	1000	0.939	1.06
28	0.665	1.45	1100	0.942	1.06
29	0.670	1.44	1200	0.945	1.06
30	0.675	1.43	1300	0.947	1.06
			1400	0.949	1.05
			1500+	0.950	1.05
35	0.697	1.39			
40	0.714	1.36			
45	0.729	1.34			
50	0.742	1.32			
55	0.756	1.31			
60	0.770	1.30			
65	0.778	1.28			
70	0.785	1.27			
75	0.792	1.26			
80	0.798	1.25			
85	0.804	1.24			
90	0.809	1.24			
95	0.813	1.23			
100	0.818	1.22			
110	0.826	1.21			
120	0.833	1.20			
130	0.839	1.19			
140	0.844	1.18			
150	0.849	1.18			
160	0.854	1.17			
170	0.858	1.17			
180	0.862	1.16			
190	0.865	1.16			
200	0.868	1.15			

<sup>1</sup> Adapted from "Lung cancer mortality - white males", Haenszel, Loveland and Sirken; Journal of The National Cancer Institute, Vol 28, no. 4, April, 1962.

Appendix C  
Incidence of Malignant Tumors Diagnosed 1990-2002 by Race, Sex, and  
Period of Diagnosis

<u>Race</u>	<u>1990-1997</u>		<u>1998-2002</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
<u>White</u>	65891	64172	43234	42790
<u>Black</u>	4274	3495	2945	2608
<u>American Indian, Native Alaskan</u>	30	25	20	19
<u>Asian, Pacific Islander:</u>	286	330	283	335
<u>Chinese</u>	69	51	49	52
<u>Japanese</u>	4	36	12	23
<u>Filipino</u>	55	49	42	53
<u>Asian Indian, Pakistani</u>	92	65	74	67
<u>Korean</u>	13	25	8	19
<u>Vietnamese</u>	12	41	21	23
<u>Laotian</u>	12	18	4	6
<u>Other Asian, Pacific Islander</u>	29	45	73	92
<u>Other Races</u>	63	59	182	157
<u>Unknown Race</u>	226	151	407	223
<u>Total</u>	70770	68232	47071	46132

Appendix D  
 Sum of Annual County Population Estimates by Race, Sex and Diagnosis Period;  
 Connecticut, 1990-2002<sup>1</sup>

<u>County</u>	<u>White</u>	<u>Black</u>	<u>All Other</u>	<u>Total</u>
<u>1990-97 - Male</u>				
Fairfield	2823549	327554	96141	3247244
Hartford	2815101	377536	76543	3269180
New Haven	2701584	341094	64732	3107410
New London	941442	58921	24021	1024384
Litchfield	677229	8005	8352	693586
Middlesex	537131	25501	8681	571313
Tolland	491366	16235	12485	520086
Windham	399198	7046	5267	411511
Conn.	11386600	1161892	296222	12844714
<u>1990-97 - Female</u>				
Fairfield	3018378	379219	96410	3494007
Hartford	3037124	413507	77478	3528109
New Haven	2915449	385361	65112	3365922
New London	945658	53179	25055	1023892
Litchfield	709260	6991	8354	724605
Middlesex	565003	26701	8919	600623
Tolland	499105	8823	11872	519800
Windham	418073	6132	5170	429375
Conn.	12108050	1279913	298370	13686333
<u>1998-2002 - Male</u>				
Fairfield	1824762	223456	84806	2133024
Hartford	1726740	270077	65743	2062560
New Haven	1682128	242467	59736	1984331
New London	575929	44490	21394	641813
Litchfield	434347	6069	6978	447394
Middlesex	352950	18663	7531	379144
Tolland	320872	13778	9676	344326
Windham	257835	7410	4351	269596
Conn.	7175563	826410	260215	8262188
<u>1998-2002 - Female</u>				
Fairfield	1930594	263824	87271	2281689
Hartford	1863494	294601	67756	2225851
New Haven	1808399	273651	61721	2143771
New London	592542	39870	22096	654508
Litchfield	455308	5496	7086	467890
Middlesex	371170	19209	8071	398450
Tolland	326596	7290	9122	343008
Windham	267091	6053	4143	277287
Conn.	7615194	909994	267266	8792454

<sup>1</sup> Revised intercensal estimates and projections to 2002, based on the 1990 and 2000 U. S. Censuses. Includes Hispanics and allocations of multi-racial and unspecified racial categories to the 3 listed.