Cancer Incidence in Connecticut Counties, 1995-98

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TABLE OF CONTENTS

Executive Summary 1

Introduction 3

Methodology 4

Discussion of Results 6

Tables

All Races

(1) All Sites 7

(2) Oral Cavity, Pharynx 8

(3) Stomach
Esophagus 9

(4) Pancreas 10

(5) Colon, Rectum 11

(6) Colon 12

(7) Rectum 13

(8) Liver
Gallbladder 14

(9) Lung, Bronchus, Trachea
Larynx 15

(10) Melanoma of Skin 16

(11) Female Breast
Prostate
Testis 17

(12) Cervix
Corpus, Uterus Nos 18

(13) Ovary
Other Female Genital 19

TABLE OF CONTENTS – Page 2

Tables (Cont.)

All Races

(14) Kidney, Renal Pelvis, Ureter 20

(15) Bladder 21

(16) Brain, Cranial Nerves, Cerebral Meninges 22
Brain

(17) Lymphoma 23

(18) Leukemia 24
Multiple Myeloma

Appendix Tables

A-1 Connecticut Population by County 25

A-2 Connecticut Counties by Town 26-27

Executive Summary

This report presents data on the incidence of malignant tumors diagnosed for Connecticut residents in the years 1995-98 and reported to the Connecticut Tumor Registry. Crude and age-adjusted rates per 100,000, with 95% confidence intervals for the latter, are shown by primary site, county and sex. There are sections for an introduction, methodology, and a discussion of results together with tables of incidence rates, populations and of towns within counties.

New London County had the highest age-adjusted incidence rates for all sites combined in 1995-98: 511 per 100,000 among males and 415 for females. By site, females in this county also led in the rates for tumors of the colon and rectum (combined and separately), melanomas of the skin and bladder tumors, and were second highest in rates of lung and breast cancer. Males in New London were second highest among the counties for the rates of lung, bladder and melanoma tumors.

The second highest rate for all sites combined among females was 402 in New Haven County. This sex was diagnosed at the highest rates for lung, stomach, kidney and cervical cancer, being second highest for non-Hodgkin's lymphomas. Males in the county led in the rates for stomach, colon, non-Hodgkin's lymphomas, and were second highest in the rate of kidney tumors.

Female residents of Hartford County had the lowest rates of corpus and bladder tumors, the second lowest rate in the state for melanomas, and were below average in the rate for breast. Males in the county had the second highest rates for all sites, stomach and leukemias and a rate of lung cancer slightly higher than that for the state.

Males in Fairfield County had the highest rate of prostate tumors and the second lowest for lung cancer, colon and rectal tumors combined and of non-Hodgkin's lymphomas. They also had the lowest rate for bladder cancers. Female residents had rates of lung and breast tumors that were next to lowest by county.

Tolland County females had the lowest rate of all sites combined and rates of colon cancer, alone and combined with rectal sites, 32% and 27% below the state averages. Males in the county had both the lowest colon rate and the highest for melanoma, with the latter 38% above the state average.

Middlesex County was lowest in the rate of rectal tumors for each sex. Females were diagnosed for melanomas and tumors of the uterine corpus at rates 36% and 30%, respectively, above the averages for Connecticut. Males in Middlesex had rates for colon and rectal cancers combined, and of non-Hodgkin's lymphomas, which were lows for counties.

Males of Windham County ranked highest in rates of lung tumors and leukemias. The county also had the lowest rates for female breast and prostate, the latter, 27% less than the state average.

Litchfield County males had the lowest rate for all sites and were highest for bladder tumors. This county showed the lowest rate of lung cancer for each sex, and of melanomas among females in 1995-98.

Introduction

Incidence data for this report, shown in 18 tables, are for malignant tumors diagnosed in the years 1995-98 and reported to the Connecticut Tumor Registry. Included are all reportable invasive tumors plus in situ stage malignancies of the bladder. Non-epithelial type skin tumors and all types of epidermal tumors diagnosed in genital organs are included. All other skin tumors are excluded. The tables give the ICD-O-2 site codes for invasive cancers with the leading "C" deleted. Malignant tumors on file in August 2000 comprise the database.

Incidence rates are subject to all known and unknown cancer risks and also to influences of a random nature due to chance occurrences, often of an unknown source. One measure of this component, the standard error of the age-adjusted rates, while available for this report, is not shown in the tables. The 95% confidence limits for the age-adjusted rates, which are calculated separately from the standard errors, are included. Both of these measures are useful in evaluating and comparing rates (further discussed in the Methodology section). Age-adjusted rates with standard errors of 20% or higher (usually based on 25 or fewer cancers) are not shown. This standard was met in several tables by combining data for more than one county.

Among all causes of mortality in 1995-98 for state residents, 25% of male deaths and 23% of females deaths were assigned to malignant neoplasms. Males aged 60-69 and females, 50-54 in this period had the highest proportions of deaths from tumors, 36% and 51%, respectively. Malignant tumors of the lung, bronchus and trachea caused 29% of malignant tumor deaths among males in 1995-98 and 23% for females. Death from malignant tumors, diagnosed in 1995-98 and earlier years, as a proportion of malignant tumors of the same site diagnosed in 1995-98, were highest among major sites for pancreas, 0.95 and lung tumors, 0.75; all sites were 0.40.

Methodology

The crude incidence rate per person is defined as the number of tumors diagnosed for a cancer site and sex in one or more calendar years divided by the total estimated population at risk. A rate per 100,000 can be computed by moving the decimal point of the population left 5 places before division.

While useful as a measure of an area's average incidence rate, the crude rate is usually not an appropriate measure of the cancer rate in one area relative to other areas. This results from (1) the usually observed pattern of rising tumor rates with increasing age and (2) variation between areas in the distribution of population by age. In 1995-98 the average incidence rates, all sites combined, to age 64 were 226 per 100,000 for males and 251 among females; at ages 65 and over the average rates increased to 2981 and 1850 per 100,000, respectively.

An area's crude incidence rates are averages of the corresponding age-specific rates, weighted by the proportion of the population in each age group. Age distributions by county in Connecticut are not uniform: Tolland County had an estimated 10.6% at ages 65 and over in the years 1995-98 compared to 15.2% in New Haven County and 14.3% statewide.

The age-adjusted rate is formulated to control for unequal population distributions by age between areas. Incidence rates are computed for several age groups – in the present study 18 from 0-4 to 80-84 and 85+. The age-specific rates are cumulatively multiplied by the corresponding age segments in a standard population – the standard million for the United States in 1970 here – and the product divided by the total standard. The result is an age-adjusted rate, independent of the area's population distribution by age. Other demographic factors, including socioeconomic levels, vary considerably by county in the state and can affect incidence rates.

The U.S. 1970 standard population, with about 10% at ages 65 and older, usually gave an age-adjusted rate lower than the crude. The Connecticut population in 1995-98 averaged 12%, male and 17%, female at these ages where over half of all malignant tumors were diagnosed.

The age-adjusted rates for males in Tolland County were an exception to the above. Their population aged 65 and above was less than that in the 1970 standard and age-adjustment gave higher observed rates compared to the crude.

The tables show the age-adjusted rates observed in 1995-98 and 2 other rates labeled "lower" and "upper" which are calculated to give a 95% confidence range for the observed rates. This range is derived from a non-symmetric standard distribution fitted to each observed age-adjusted rate.[1] When 2 observed rates have confidence limits without an area of overlap, there is less than a 5% chance that the difference in the observed rates is due to chance alone. Instances in the tables where confidence ranges for county observed rates are entirely outside the Connecticut interval are marked by a footnote. Differences in incidence rates between counties, and between counties and the state can be due to variation in tumor risk factors, other causes unrelated to cancer risk, including screening, and chance factors.

The population estimates for this report were issued by the U.S. Census Bureau before the 2000 data counts were available. When the latest census data for the state is compared to the annual estimates for 1995-98, made as projections from the 1990 census, an underestimate of approximately 3% is likely for the earlier state estimates. Lacking revised estimates of population for the state and counties, a slight overestimate in general may be assumed for the 1995-98 incidence rates in this report.

The data sets and programs used to produce the incidence rates for this report were provided by the SEER program of the National Cancer Institute by means of a compact disk (CD-ROM) issued April, 2001.

[1] Fay MP, Feuer EJ. 1997. Confidence intervals for directly standardized rates: A method based on the gamma distribution. Statistics in Medicine 16:791-801.

Discussion of Results

County incidence rates with 95% confidence ranges that fall outside those for Connecticut raise questions concerning possible sources of tumor risks and the likelihood of lessening or of the elimination of their effects. Some risk factors are not subject to remediation, for example, one's genetic profile. Others, including smoking, unprotected exposure to sunlight and abuse of alcohol, although alterable, may leave permanent effects after cessation of the practice.

Incidence rates of lung cancer among males have been shown to vary by residential area according to socioeconomic status with above average rates associated with lower status and vice versa. Rates in Fairfield, New London and Windham Counties for 1995-98 are consistent with this relationship. Further, with the proportion of adult males in communities who are smokers also shown to be negatively associated with income, promotion of smoking avoidance in higher risk areas offers the possibility of lower incidence and mortality from lung cancer.

The prostate tumor rates in Fairfield and Windham Counties in 1995-98, 156 and 102, respectively, per 100,000 differed by more than 50%. Following the beginning of widespread screening for this tumor in the 1980's by means of the PSA blood test, the incidence rate rose substantially in Connecticut. How much of the current differences in the county incidence rates is a reflection of the extent of all screening -possibly influenced by economic factors-and how much is due to variation in exposure to presumed risk factors, is unknown. For this site, and many others, a better understanding of causation, as well as the impact of screening on incidence and mortality, is needed.

The relation between age and the rate of tumor incidence for many cancers strongly implies that the process of tumor development can occur over extended time periods, reflecting cumulative exposures to risks including those of environmental origin. It follows that the levels of incidence rates in an area for a given time period may reflect earlier exposures to hazards no longer present as well as current conditions of risk.

Table 1
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
All Sites (00.0-80.9)[1]

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[2]	95% Confidence[3] Lower	Upper
			All Races			
Fairfield	M	8903	554.4	482.6	472.5	492.9
	F	8845	512.8	370.6	362.6	378.9
Hartford	M	9312	583.6	496.0	485.8	506.4
	F	8898	516.6	366.6[5]	358.5	374.9
New Haven	M	8720	571.7	494.4	483.8	505.1
	F	9214	559.9	402.3[6]	393.5	411.2
New London	M	2648	526.5	510.6	491.1	530.8
	F	2646	531.7	415.0[6]	398.5	432.1
Litchfield	M	1929	544.1	474.2	452.8	496.7
	F	1884	515.0	377.8	359.7	396.9
Middlesex	M	1484	510.4	477.2	452.7	502.8
	F	1605	530.2	391.8	371.5	413.2
Tolland	M	1184	454.1	495.0	466.7	524.8
	F	1043	401.5	362.5	339.8	386.5
Windham	M	1008	491.5	490.3	460.0	522.3
	F	970	454.1	365.9	341.7	391.6
Conn.[4]	M	35200	555.1	490.6	485.4	495.8
	F	35106	521.4	381.0	376.8	385.3

[1] ICD-O-2 site code shown in parentheses. Includes in situ bladder tumors; excludes epithelial skin tumors for sites other than genital (see text).
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[4] Includes 13 tumors-12 male and 1 female-for state residents, county unknown.
[5] The 95% confidence limits are outside those for the Conn. age-adjusted rate.
[6] The 99% confidence limits (not shown) are outside those for the Conn. age-adjusted rate.

Table 2
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Oral Cavity, Pharynx (00.0-14.8)

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[1]	95% Confidence[2] Lower	Upper
			All Races			
Fairfield	M	247	15.4	13.2	11.6	15.0
Hartford	M	260	16.3	14.2	12.5	16.1
New Haven	M	236	15.5	14.3	12.5	16.4
New London	M	87	17.3	17.0	13.6	21.1
Litchfield	M	49	13.8	13.1	9.6	17.8
Middlesex	M	43	14.8	14.2	10.2	19.5
Tolland	M	31	11.9	12.5	8.4	18.0
Windham	M	32	15.6	16.2	11.0	23.2
Conn.	M	985	15.5	14.0	13.2	15.0
Fairfield	F	136	7.9	5.7	4.7	6.9
Hartford	F	127	7.4	5.4	4.4	6.5
New Haven	F	134	8.1	6.0	4.9	7.2
New London	F	37	7.4	6.1	4.2	8.7
Litchfield	F	31	8.5	6.9	4.6	10.4
Other Three Counties	F	42	5.4	4.4	3.1	6.1
Conn.	F	507	7.5	5.6	5.1	6.2
Fairfield	T	383	11.5	9.1	8.2	10.1
Hartford	T	387	11.7	9.4	8.5	10.5
New Haven	T	370	11.7	9.8	8.8	10.9
New London	T	124	12.4	11.1	9.2	13.4
Litchfield	T	80	11.1	9.8	7.7	12.5
Middlesex	T	60	10.1	9.0	6.8	11.9
Tolland	T	43	8.3	8.1	5.8	11.1
Windham	T	45	10.7	10.1	7.3	13.8
Conn.	T	1492	11.4	9.5	9.0	10.0

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Table 3
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Stomach, Esophagus, All Races

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[1]	95% Confidence[2] Lower	Upper
			Stomach (16.0-16.9)			
Fairfield	M	201	12.5	10.6	9.1	12.2
Hartford	M	235	14.7	12.2	10.6	13.9
New Haven	M	231	15.1	12.8	11.2	14.6
New London	M	39	7.8	7.1[4]	5.1	9.9
Litchfield	M	39	11.0	9.2	6.5	13.0
Other Three Counties	M	55	7.3	7.2[4]	5.4	9.5
Conn.	M	801[3]	12.6	10.9	10.1	11.7
Fairfield	F	130	7.5	4.6	3.8	5.6
Hartford	F	137	8.0	4.6	3.8	5.5
New Haven	F	147	8.9	5.0	4.2	6.1
New London	F	31	6.2	4.6	3.0	6.9
Litchfield	F	27	7.4	4.0	2.6	6.7
Other Three Counties	F	32	4.1	3.2	2.1	4.7
Conn.	F	504	7.5	4.5	4.1	5.0
			Esophagus (15.0-15.9)			
Fairfield	M	144	9.0	7.8	6.6	9.3
Hartford	M	144	9.0	7.8	6.6	9.2
New Haven	M	141	9.2	8.0	6.7	9.5
New London	M	50	9.9	9.9	7.3	13.2
Litchfield	M	33	9.3	8.5	5.8	12.3
Middlesex	M	26	8.9	8.9	5.7	13.3
Other Two Counties	M	34	7.3	7.9	5.4	11.2
Conn.	M	572	9.0	8.1	7.4	8.8
Fairfield	F	49	2.8	2.1	1.5	2.9
Hartford	F	47	2.7	1.6	1.2	2.3
New Haven	F	50	3.0	2.0	1.5	2.8
Other Five Counties	F	42	2.6	1.9	1.3	2.7
Conn.	F	188	2.8	1.9	1.6	2.3

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] Includes 1 tumor for a state resident, county unknown.
[4] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 4
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Pancreas (25.0-25.9)

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[1]	95% Confidence[2] Lower	Upper
			All Races			
Fairfield	M	213	13.3	11.3	9.9	13.0
Hartford	M	220	13.8	11.6	10.1	13.3
New Haven	M	196	12.9	11.1	9.5	12.8
New London	M	44	8.8	8.4	6.1	11.4
Litchfield	M	49	13.8	11.5	8.5	15.6
Middlesex	M	26	8.9	8.0	5.2	12.2
Tolland	M	26	10.0	10.5	6.8	15.7
Windham	M	27	13.2	13.1	8.5	19.4
Conn.	M	801	12.6	11.0	10.2	11.8
Fairfield	F	234	13.6	9.0	7.8	10.3
Hartford	F	226	13.1	8.0	6.9	9.3
New Haven	F	220	13.4	8.5	7.3	9.9
New London	F	63	12.7	8.9	6.7	11.9
Litchfield	F	49	13.4	8.5	6.1	12.0
Middlesex	F	37	12.2	7.8	5.2	11.6
Tolland	F	32	12.3	10.1	6.7	14.8
Windham	F	24	*	*	*	*
Conn.	F	885	13.2	8.5	7.9	9.1
Fairfield	T	447	13.4	10.0	9.1	11.0
Hartford	T	446	13.4	9.7	8.8	10.7
New Haven	T	416	13.1	9.6	8.6	10.6
New London	T	107	10.7	8.8	7.1	10.7
Litchfield	T	98	13.6	9.9	7.9	12.3
Middlesex	T	63	10.6	7.9	6.0	10.5
Tolland	T	58	11.1	10.3	7.8	13.6
Windham	T	51	12.2	10.2	7.5	13.7
Conn.	T	1686	12.9	9.6	9.2	10.1

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
* The standard error of the age-adjusted rate is 20% or higher.

Table 5
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Colon and Rectum (18.0-21.8, 26.0)

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[1]	95% Confidence[2] Lower	Upper
			All Races			
Fairfield	M	986	61.4	52.1	48.9	55.6
	F	1115	64.6	41.5	39.0	44.3
Hartford	M	1065	66.7	55.0	51.7	58.5
	F	1112	64.6	39.8	37,3	42.5
New Haven	M	1157	75.9	63.3[3]	59.6	67.2
	F	1193	72.5	44.2	41.5	47.1
New London	M	309	61.4	58.7	52.3	65.8
	F	358	71.9	49.7[3]	44.4	55.8
Litchfield	M	239	67.4	56.3	49.2	64.3
	F	258	70.5	45.8	39.9	52.8
Middlesex	M	165	56.7	51.2	43.5	60.0
	F	175	57.8	36.4	30.7	43.2
Tolland	M	132	50.6	54.7	45.6	65.3
	F	94	36.2	30.6[3]	24.4	38.1
Windham	M	127	61.9	60.3	50.1	72.1
	F	133	63.3	43.9	36.2	53.2
Conn.	M	4180	65.9	56.6	54.9	58.4
	F	4438	65.9	42.1	40.7	43.4

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 6
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Colon (18.0-18.9, 26.0)

County	Sex	Tumors	Crude Rate	Age-adjusted Rate	95% Confidence[2] Lower	95% Confidence[2] Upper
				Observed[1]		
			All Races			
Fairfield	M	696	43.3	36.7	34.0	39.6
	F	844	48.9	30.7	28.5	33.0
Hartford	M	720	45.1	36.7	34.0	39.6
	F	799	46.4	27.8	25.7	30.0
New Haven	M	800	52.4	43.3[3]	40.3	46.5
	F	891	54.1	32.3	30.0	34.8
New London	M	210	41.8	39.1	33.9	44.9
	F	250	50.2	34.5	30.1	39.6
Litchfield	M	163	46.0	37.8	32.1	44.6
	F	189	51.7	32.0	27.2	37.8
Middlesex	M	118	40.6	37.2	30.7	44.9
	F	144	47.6	29.8	24.7	36.1
Tolland	M	82	31.5	34.5	27.3	43.1
	F	67	25.8	20.5[4]	15.6	26.7
Windham	M	88	42.9	41.6	33.3	51.7
	F	102	47.8	31.9	25.6	39.8
Conn.	M	2877	45.4	38.7	37.2	40.1
	F	3286	48.8	30.3	29.2	31.5

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] The 95% confidence limits are outside those for the Conn. age-adjusted rate.
[4] The 99% confidence limits (not shown) are outside those for the Conn. age-adjusted rate.

Table 7
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Rectum (19.9-21.8)[1]

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[2]	95% Confidence[3] Lower	Upper
			All Races			
Fairfield	M	290	18.1	15.5	13.7	17.4
	F	271	15.7	10.8	9.5	12.4
Hartford	M	345	21.6	18.3	16.4	20.4
	F	313	18.2	12.0	10.6	13.6
New Haven	M	357	23.4	20.0	17.9	22.3
	F	302	18.4	11.9	10.5	13.5
New London	M	99	19.7	19.6	15.9	24.0
	F	108	21.7	15.2	12.3	18.8
Litchfield	M	76	21.4	18.4	14.4	23.5
	F	69	18.9	13.8	10.6	18.2
Middlesex	M	47	16.2	14.0	10.2	19.0
	F	31	10.2	6.6[4]	4.2	10.2
Tolland	M	50	19.2	20.2	14.9	27.1
	F	27	10.4	10.1	6.5	15.2
Windham	M	39	19.0	18.6	13.2	25.8
	F	31	14.5	12.0	7.9	17.8
Conn.	M	1303	20.5	18.0	17.0	19.0
	F	1152	17.1	11.7	11.0	12.5

[1] Includes rectosigmoid, anal canal, anus nos.
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[4] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 8
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Liver, Gallbladder, All Races

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
Liver, Intrahepatic Bile Duct (22.0-22.1)						
Fairfield	M	95	5.9	5.2	4.2	6.4
Hartford	M	109	6.8	5.9	4.9	7.2
New Haven	M	116	7.6	6.8	5.6	8.2
New London	M	35	7.0	6.8	4.7	9.6
Other Four Counties	M	57	5.1	5.1	3.8	6.6
Conn.	M	412	6.5	5.9	5.3	6.5
Fairfield	F	55	3.2	2.1	1.6	2.9
Hartford	F	40	2.3	1.4	1.0	2.1
New Haven	F	66	4.0	2.5	1.9	3.3
Other Five Counties	F	40	2.4	1.9	1.3	2.7
Conn.	F	201	3.0	2.0	1.7	2.3
Gallbladder, Other And Unspec. Biliary Tract (23.9-24.9)						
Fairfield	M	47	2.9	2.4	1.8	3.3
Hartford	M	45	2.8	2.3	1.7	3.2
New Haven	M	39	2.6	2.1	1.5	2.9
Other Five Counties	M	45	2.8	2.5	1.8	3.4
Conn.	M	176	2.8	2.3	2.0	2.7
Fairfield	F	44	2.6	1.6	1.1	2.2
Hartford	F	58	3.4	2.1	1.6	2.9
New Haven	F	55	3.3	1.9	1.4	2.7
Other Five Counties	F	42	2.6	1.8	1.2	2.5
Conn.	F	199	3.0	1.8	1.6	2.2

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Table 9
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Lung, Bronchus and Trachea, Larynx, All Races

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
		Lung, Bronchus, Trachea (33.9-34.9)				
Fairfield	M	1268	79.0	68.7[3]	64.9	72.7
Hartford	M	1431	89.7	76.1	72.1	80.2
New Haven	M	1400	91.8	79.2	75.0	83.6
New London	M	437	86.9	85.8	77.8	94.4
Litchfield	M	276	77.9	68.1	60.2	77.1
Middlesex	M	243	83.6	78.2	68.6	89.1
Tolland	M	181	69.4	77.0	66.0	89.4
Windham	M	188	91.7	94.5[3]	81.2	109.4
Conn.	M	5424	85.5	75.7	73.7	77.8
Fairfield	F	1105	64.1	45.7	42.9	48.7
Hartford	F	1139	66.1	46.9	44.1	49.9
New Haven	F	1262	76.7	55.1[3]	51.9	58.5
New London	F	338	67.9	52.9	47.2	59.4
Litchfield	F	217	59.3	42.7	36.9	49.6
Middlesex	F	200	66.1	49.0	42.1	57.1
Tolland	F	139	53.5	50.6	42.2	60.4
Windham	F	126	59.0	51.2	42.2	61.9
Conn.	F	4526	67.2	49.0	47.5	50.6
		Larynx (32.0-32.9)				
Fairfield	M	122	7.6	6.7	5.6	8.1
Hartford	M	145	9.1	7.9	6.6	9.4
New Haven	M	149	9.8	8.7	7.3	10.3
Other Five Counties	M	120	7.4	7.3	6.0	8.8
Conn.	M	536	8.5	7.6	7.0	8.3
Fairfield	F	41	2.4	1.8	1.3	2.6
Hartford	F	39	2.3	1.9	1.3	2.6
New Haven	F	53	3.2	2.4	1.7	3.2
Other Five Counties	F	38	2.3	2.0	1.4	2.9
Conn.	F	171	2.5	2.0	1.7	2.4

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 10
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Melanoma of Skin (44.0-44.9)[1]

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[2]	95% Confidence[3] Lower	Upper
			All Races			
Fairfield	M	388	24.2	20.7	18.7	23.0
	F	321	18.6	13.9	12.4	15.7
Hartford	M	410	25.7	22.0	19.9	24.3
	F	299	17.4	13.2	11.7	15.0
New Haven	M	347	22.7	19.8	17.7	22.1
	F	285	17.3	13.6	12.0	15.4
New London	M	140	27.8	26.7	22.3	31.7
	F	121	24.3	19.7[4]	16.2	23.9
Litchfield	M	95	26.8	23.1	18.6	28.7
	F	61	16.7	12.6	9.5	17.0
Middlesex	M	64	22.0	19.4	14.8	25.2
	F	71	23.5	19.6	15.1	25.3
Tolland	M	74	28.4	29.9[4]	23.3	38.1
	F	47	18.1	15.3	11.1	20.9
Windham	M	42	20.5	19.1	13.7	26.2
	F	44	20.6	17.6	12.6	24.3
Conn.	M	1560	24.6	21.6	20.5	22.7
	F	1249	18.6	14.4	13.5	15.2

[1] Morphology 8720-8780.
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[4] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 11
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Female Breast, Prostate, Testis, All Races

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
Breast (50.0-50.9)						
Fairfield	F	2756	159.8	119.5	115.0	124.3
Hartford	F	2766	160.6	120.1	115.4	124.9
New Haven	F	2723	165.5	124.8	119.9	129.9
New London	F	782	157.1	127.5	118.3	137.3
Litchfield	F	616	168.4	128.1	117.7	139.6
Middlesex	F	490	161.9	125.3	113.8	138.0
Tolland	F	343	132.1	121.5	108.5	135.9
Windham	F	279	130.6	105.4	92.7	119.8
Conn.	F	10755	159.7	121.8	119.4	124.2
Prostate (61.9)						
Fairfield	M	2824	175.9	155.7[5]	150.0	161.6
Hartford	M	2664	166.9	143.9	138.4	149.6
New Haven	M	2157	141.4	123.4[5]	118.1	128.8
New London	M	725	144.2	143.0	132.6	154.0
Litchfield	M	492	138.8	123.9[4]	113.0	135.9
Middlesex	M	394	135.5	131.5	118.6	145.5
Tolland	M	356	136.5	154.4	138.6	171.6
Windham	M	210	102.4	102.1[5]	88.6	117.4
Conn.	M	9832[3]	155.1	139.4	136.7	142.3
Testis (62.0-62.9)						
Fairfield	M	78	4.9	3.9	3.1	5.0
Hartford	M	98	6.1	5.2	4.2	6.5
New Haven	M	96	6.3	5.3	4.3	6.6
New London	M	35	7.0	5.8	4.0	8.4
Other Four Counties	M	72	6.5	5.4	4.2	7.0
Conn.	M	379	6.0	5.0	4.5	5.6

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] Includes 10 tumors for state residents, county unknown.
[4] The 95% confidence limits are outside those for the Conn. age-adjusted rate.
[5] The 99% confidence limits (not shown) are outside those for the Conn. age-adjusted rate.

Table 12
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Uterine Cervix, Corpus, Uterus Nos, All Races

County	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
Uterine Cervix (53.0-53.9)					
Fairfield	154	8.9	7.1	6.0	8.4
Hartford	162	9.4	7.3	6.2	8.6
New Haven	179	10.9	8.7	7.4	10.2
New London	51	10.2	8.4	6.2	11.4
Litchfield	28	7.7	6.0	3.9	9.4
Middlesex	29	9.6	7.6	5.0	11.6
Other Two Counties	29	6.1	5.0	3.3	7.5
Conn.	632	9.4	7.4	6.8	8.1
Corpus, Uterus Nos (54.0-55.9)					
Fairfield	557	32.3	24.3	22.2	26.5
Hartford	484	28.1	21.2	19.3	23.4
New Haven	605	36.8	29.3[3]	26.9	31.9
New London	184	37.0	30.3	25.9	35.4
Litchfield	111	30.3	23.5	19.1	29.0
Middlesex	118	39.0	33.1[3]	27.1	40.3
Tolland	61	23.5	23.5	17.8	30.6
Windham	53	24.8	24.0	17.7	32.0
Conn.	2173	32.3	25.4	24.3	26.5

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Table 13
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Ovary, Other Female Genital, All Races

County	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
Ovary (56.9)					
Fairfield	318	18.4	14.3	12.7	16.1
Hartford	314	18.2	13.9	12.3	15.7
New Haven	294	17.9	14.0	12.4	15.9
New London	78	15.7	13.1	10.2	16.7
Litchfield	62	16.9	13.6	10.2	18.1
Middlesex	63	20.8	15.6	11.8	20.7
Tolland	37	14.2	13.2	9.1	18.7
Windham	34	15.9	13.3	9.1	19.2
Conn.	1200	17.8	14.0	13.2	14.9
Other Female Genital, Excluding Uterus, Ovary[3] (51.0-52.9, 57.0-58.9)					
Fairfield	72	4.2	3.0	2.3	3.9
Hartford	94	5.5	3.7	2.9	4.6
New Haven	83	5.0	3.6	2.8	4.6
New London	35	7.0	4.8	3.3	7.1
Other Four Counties	43	3.8	2.6	1.8	3.6
Conn.	327	4.9	3.3	3.0	3.8

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[3] Includes vulva, vagina, fallopian tube, ligaments, other specified, genital nos.

Table 14
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Kidney, Renal Pelvis, Ureter (64.9-66.9)

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[1]	95% Confidence[2] Lower	Upper
			All Races			
Fairfield	M	292	18.2	15.8	14.0	17.8
Hartford	M	253	15.9	13.7	12.0	15.6
New Haven	M	301	19.7	17.7	15.7	19.9
New London	M	73	14.5	14.1	11.0	17.9
Litchfield	M	64	18.1	16.2	12.4	21.2
Middlesex	M	53	18.2	17.5	13.0	23.2
Tolland	M	33	12.7	14.3	9.8	20.4
Windham	M	38	18.5	18.4	12.9	25.6
Conn.	M	1107	17.5	15.7	14.7	16.6
Fairfield	F	177	10.3	7.4	6.3	8.7
Hartford	F	168	9.8	7.1	6.0	8.4
New Haven	F	192	11.7	8.5	7.2	9.9
New London	F	52	10.4	7.9	5.8	10.7
Litchfield	F	32	8.7	6.6	4.3	10.1
Middlesex	F	31	10.2	6.6	4.3	10.1
Other Two Counties	F	50	10.6	9.1	6.6	12.3
Conn.	F	702	10.4	7.6	7.0	8.3
Fairfield	T	469	14.1	11.2	10.2	12.3
Hartford	T	421	12.7	10.0	9.0	11.1
New Haven	T	493	15.5	12.6	11.5	13.8
New London	T	125	12.5	10.7	8.9	12.9
Litchfield	T	96	13.3	11.1	8.9	13.8
Middlesex	T	84	14.2	11.8	9.3	14.9
Tolland	T	57	11.0	11.1	8.3	14.5
Windham	T	64	15.3	13.7	10.5	17.9
Conn.	T	1809	13.8	11.2	10.7	11.8

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Table 15
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex 1995-98
Bladder (67.0-67.9)[1]

County	Sex	Tumors	Crude Rate	-----Age-adjusted Rate----- Observed[2]	95% Confidence[3] Lower	Upper
			All Races			
Fairfield	M	624	38.9	33.4	30.8	36.2
Hartford	M	670	42.0	34.7	32.1	37.6
New Haven	M	682	44.7	37.9	35.0	40.9
New London	M	198	39.4	38.1	32.9	44.0
Litchfield	M	165	46.5	38.7	32.9	45.5
Middlesex	M	122	42.0	37.5	31.0	45.2
Tolland	M	80	30.7	33.7	26.7	42.3
Windham	M	77	37.5	37.6	29.5	47.3
Conn.	M	2618	41.3	35.7	34.4	37.2
Fairfield	F	253	14.7	10.0	8.7	11.5
Hartford	F	246	14.3	8.7	7.6	10.1
New Haven	F	291	17.7	11.4	10.1	13.0
New London	F	87	17.5	13.0	10.3	16.5
Litchfield	F	50	13.7	9.7	7.0	13.5
Middlesex	F	49	16.2	12.2	8.9	16.9
Tolland	F	33	12.7	10.5	7.0	15.4
Windham	F	19	*	*	*	*
Conn.	F	1028	15.3	10.2	9.5	10.9
Fairfield	T	877	26.3	19.9	18.6	21.4
Hartford	T	916	27.6	20.0	18.6	21.4
New Haven	T	973	30.7	22.6	21.1	24.2
New London	T	285	28.5	23.7	20.9	26.8
Litchfield	T	215	29.8	22.3	19.3	25.9
Middlesex	T	171	28.8	22.9	19.4	26.9
Tolland	T	113	21.7	21.3	17.4	25.8
Windham	T	96	22.9	19.8	15.9	24.5
Conn.	T	3646	27.9	21.1	20.4	21.9

[1] Includes in situ tumors.
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
* The standard error of the age-adjusted rate is 20% or higher.

Table 16
Incidence Rates /100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Brain, Cranial Nerves, Cerebral Meninges, All Races
(70.0,70.9, 71.0-71.9, 72.2-72.5)

County	Sex	Tumors	Crude Rate	----Age-adjusted Rate----- Observed[1]	95% Confidence[2] Lower	Upper
		Brain, Cranial Nerves, Cerebral Meninges				
Fairfield	M	132	8.2	7.6	6.3	9.1
Hartford	M	103	6.5	5.8	4.7	7.1
New Haven	M	122	8.0	7.2	5.9	8.7
New London	M	33	6.6	6.4	4.4	9.2
Litchfield	M	33	9.3	8.6	5.8	12.6
Middlesex	M	28	9.6	9.4	6.2	14.0
Other Two Counties	M	36	7.7	7.8	5.4	11.0
Conn.	M	487	7.7	7.1	6.4	7.7
Fairfield	F	88	5.1	4.2	3.3	5.4
Hartford	F	111	6.4	5.2	4.2	6.4
New Haven	F	97	5.9	4.9	3.9	6.2
New London	F	26	5.2	4.1	2.6	6.3
Other Four Counties	F	70	6.1	5.2	4.0	6.7
Conn.	F	392	5.8	4.8	4.3	5.4
		Brain (71.0-71.9)				
Fairfield	M	129	8.0	7.4	6.1	8.9
Hartford	M	102	6.4	5.7	4.7	7.0
New Haven	M	118	7.7	6.9	5.7	8.4
New London	M	32	6.4	6.2	4.2	8.9
Litchfield	M	33	9.3	8.6	5.8	12.6
Middlesex	M	28	9.6	9.4	6.2	14.0
Other Two Counties	M	35	7.5	7.5	5.2	10.7
Conn.	M	477	7.5	6.9	6.3	7.6
Fairfield	F	87	5.0	4.2	3.3	5.3
Hartford	F	104	6.0	4.9	3.9	6.1
New Haven	F	95	5.8	4.8	3.8	6.1
New London	F	26	5.2	4.1	2.6	6.3
Other Four Counties	F	67	5.9	4.9	3.7	6.5
Conn.	F	379	5.6	4.7	4.2	5.2

[1] Age-adjusted directly to the U.S. 1970 standard million.
[2] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Table 17
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Lymphomas, All Races (morphology 9590-9715)[1]

County	Sex	Tumors	Crude Rate	----Age-adjusted Rate----- Observed[2]	95% Confidence[3] Lower	Upper
			Non-Hodgkin's (morphology 9590-9595, 9670-9715)			
Fairfield	M	336	20.9	17.9	16.0	20.0
Hartford	M	399	25.0	21.1	19.1	23.4
New Haven	M	414	27.1	23.5	21.2	25.9
New London	M	107	21.3	20.1	16.5	24.5
Litchfield	M	90	25.4	21.6	17.3	27.1
Middlesex	M	57	19.6	17.3	13.0	22.8
Tolland	M	56	21.5	22.0	16.5	28.9
Windham	M	44	21.5	21.2	15.3	28.8
Conn.	M	1504[4]	23.7	20.6	19.5	21.7
Fairfield	F	371	21.5	15.4	13.8	17.2
Hartford	F	362	21.0	14.4	12.8	16.1
New Haven	F	364	22.1	15.0	13.4	16.9
New London	F	90	18.1	13.7	10.8	17.2
Litchfield	F	63	17.2	12.3	9.3	16.5
Middlesex	F	66	21.8	14.6	11.0	19.5
Tolland	F	34	13.1	11.7	8.0	16.8
Windham	F	31	14.5	10.8	7.1	16.1
Conn.	F	1381	20.5	14.5	13.7	15.3
			Hodgkin's (morphology 9650-9667)			
Fairfield	M	58	3.6	3.2	2.4	4.3
Hartford	M	66	4.1	3.8	2.9	5.0
New Haven	M	64	4.2	4.3	3.3	5.6
Other Five Counties	M	51	3.2	2.9	2.1	3.8
Conn.	M	239	3.8	3.6	3.1	4.1
Fairfield	F	60	3.5	3.6	2.7	4.8
Hartford	F	63	3.7	3.6	2.7	4.7
New Haven	F	42	2.6	2.5	1.7	3.5
Other Five Counties	F	45	2.7	2.5	1.8	3.5
Conn.	F	210	3.1	3.0	2.6	3.5

[1] Includes any site within this morphological range.
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[4] Include 1 tumor for a state resident, county unknown.

Table 18
Incidence Rates/100,000 of Invasive Tumors, by County, Site, Sex, 1995-98
Leukemia, Multiple Myeloma, All Races[1]

County	Sex	Tumors	Crude Rate	Age-adjusted Rate Observed[2]	95% Confidence[3] Lower	Upper
			Leukemia (morphology 9800-9941)			
Fairfield	M	238	14.8	13.3	11.6	15.2
Hartford	M	280	17.5	15.1	13.4	17.1
New Haven	M	206	13.5	11.7	10.1	13.5
New London	M	64	12.7	11.9	9.1	15.4
Litchfield	M	48	13.5	12.1	8.8	16.5
Middlesex	M	40	13.8	14.0	9.9	19.4
Tolland	M	30	11.5	12.2	8.1	17.8
Windham	M	41	20.0	20.3[4]	14.5	28.0
Conn.	M	947	14.9	13.4	12.5	14.3
Fairfield	F	172	10.0	7.5	6.4	8.9
Hartford	F	208	12.1	8.9	7.6	10.4
New Haven	F	164	10.0	7.5	6.3	9.0
New London	F	54	10.9	8.2	6.1	11.1
Litchfield	F	43	11.8	9.2	6.4	13.2
Middlesex	F	39	12.9	8.8	6.0	12.9
Other Two Counties	F	48	10.1	8.6	6.2	11.7
Conn.	F	728	10.8	8.1	7.5	8.8
			Multiple Myeloma (morphology 9731-9732)			
Fairfield	M	99	6.2	5.3	4.3	6.5
Hartford	M	108	6.8	5.7	4.7	7.0
New Haven	M	90	5.9	4.7	3.8	5.9
New London	M	28	5.6	5.3	3.5	7.8
Litchfield	M	34	9.6	7.9	5.4	11.5
Other Three Counties	M	34	4.5	4.6	3.2	6.6
Conn.	M	393	6.2	5.4	4.8	5.9
Fairfield	F	90	5.2	3.7	2.9	4.7
Hartford	F	98	5.7	3.6	2.9	4.6
New Haven	F	93	5.7	3.6	2.9	4.6
Other Five Counties	F	90	5.5	3.9	3.1	4.9
Conn.	F	371	5.5	3.7	3.3	4.2

[1] Tumors primarily of bone marrow (42.1).
[2] Age-adjusted directly to the U.S. 1970 standard million.
[3] Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.
[4] The 95% confidence limits are outside those for the Conn. age-adjusted rate.

Appendix Table A-1
Average Annual Estimated Connecticut Population,
By County and Sex, 1995-98[1]

County	Male	Female	Total
Fairfield	401456	431188	832644
Hartford	398930	430617	829547
New Haven	381330	411434	792764
New London	125725	124417	250142
Litchfield	88628	91455	180083
Middlesex	72693	75683	148376
Tolland	65180	64937	130117
Windham	51274	53402	104676
Conn.	1585216	1683133	3268349

[1] Based on estimated annual populations from the U.S. Census Bureau.

APPENDIX

Table A-2. Connecticut Counties by Town

	Fairfield	Hartford	New Haven
1.	Bethel	Avon	Ansonia
2.	Bridgeport	Berlin	Beacon Falls
3.	Brookfield	Bloomfield	Bethany
4.	Danbury	Bristol	Branford
5.	Darien	Burlington	Cheshire
6.	Easton	Canton	Derby
7.	Fairfield	East Granby	East Haven
8.	Greenwich	East Hartford	Guilford
9.	Monroe	East Windsor	Hamden
10.	New Canaan	Enfield	Madison
11.	New Fairfield	Farmington	Meriden
12.	Newtown	Glastonbury	Middlebury
13.	Norwalk	Granby	Milford
14.	Redding	Hartford	Naugatuck
15.	Ridgefield	Hartland	New Haven
16.	Shelton	Manchester	North Branford
17.	Sherman	Marlborough	North Haven
18.	Stamford	New Britain	Orange
19.	Stratford	Newington	Oxford
20.	Trumbull	Plainville	Prospect
21.	Westport	Rocky Hill	Seymour
22.	Weston	Simsbury	Southbury
23.	Wilton	Southington	Wallingford
24.		South Windsor	Waterbury
25.		Suffield	West Haven
26.		West Hartford	Wolcott
27.		Wethersfield	Woodbridge
28.		Windsor	
29.		Windsor Locks	

APPENDIX

Table A-2. Connecticut Counties by Town (Cont.d)

	New London	Litchfield	Middlesex
1.	Bozrah	Barkhamsted	Chester
2.	Colchester	Bethlehem	Clinton
3.	East Lyme	Bridgewater	Cromwell
4.	Franklin	Canaan	Deep River
5.	Griswold	Colebrook	Durham
6.	Groton	Cornwall	East Haddam
7.	Lebanon	Goshen	East Hampton
8.	Ledyard	Harwinton	Essex
9.	Lisbon	Kent	Haddam
10.	Lyme	Litchfield	Killingworth
11.	Montville	Morris	Middlefield
12.	New London	New Hartford	Middletown
13.	North Stonington	New Milford	Old Saybrook
14.	Norwich	Norfolk	Portland
15.	Old Lyme	North Canaan	Westbrook
16.	Preston	Plymouth	
17.	Salem	Roxbury	
18.	Sprague	Salisbury	
19.	Stonington	Sharon	
20.	Voluntown	Thomaston	
21.	Waterford	Torrington	
22.		Warren	
23.		Washington	
24.		Watertown	
25.		Winchester	
26.		Woodbury	

	Tolland	Windham
1.	Andover	Ashford
2.	Bolton	Brooklyn
3.	Columbia	Canterbury
4.	Coventry	Chaplin
5.	Ellington	Eastford
6.	Hebron	Hampton
7.	Mansfield	Killingly
8.	Somers	Plainfield
9.	Stafford	Pomfret
10.	Tolland	Putnam
11.	Union	Scotland
12.	Vernon	Sterling
13.	Willington	Thompson
14.		Windham
15.		Woodstock