Cancer Incidence in Connecticut Counties, 1995-99



State of Connecticut
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CONNECTICUT TUMOR REGISTRY

CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

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Technical Notes

This is the third monograph on cancer incidence in Connecticut by county of residence. The two earlier monographs covered year of diagnosis 1997, and years of diagnosis 1995-98, respectively. Data reported to the Connecticut Tumor Registry for diagnoses in 1995-99 are the basis of this report on invasive (malignant) cancers diagnosed among Connecticut residents. Incidence rates by sex and cancer site or type are shown by county. The percentage of invasive cancers diagnosed at a localized stage is also included. The technical notes listed below provide some explanation for the data presented.

- 1. Information on cancer registration in Connecticut, including sources of cancer reports, can be found in other monographs on this website.
- 2. The "crude" incidence rate, without adjustment for the age distribution of the populations involved, are calculated as the total number of cancers diagnosed at all ages combined, divided by the total population of the state, expressed as a rate per 100,000 population. Incidence rate = (new cancers / population) x 100,000. The "age-standardized" (also called "age-adjusted") incidence rate is a weighted average of the age-specific incidence rates, where the weights are the proportions of persons in the corresponding age groups of a standard million population. This allows comparison of rates by time period and geographic area, where the age distribution of the populations compared may differ. For this monograph, rates were calculated by using data and computer programs on a compact disk issued in April 2002, by the National Cancer Institute. The 1970 U.S. standard million population was used, which allows comparison with agestandardized rates in previous monographs on incidence rates by county. The 1970 standard was used in reports from the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) Program of registries until 2002. The Connecticut Tumor Registry is part of the SEER Program, and definitions of the technical terms used in this report may be found in documents (including the annual report titled "SEER Cancer Statistics Review") available on the SEER website (http://seer.cancer.gov or http://cancer.gov).
- 3. Cancer incidence rates fluctuate from year to year. Average annual incidence rates are shown in this monograph. Standard errors of these age-adjusted rates were calculated as a measure of the statistical or sampling variability of the rate (http://seer.cancer.gov). Data are not shown if the standard error (SE) of the rate was 20% or more of the rate. That is, if the quantity:
 - [(SE of rate/rate) times 100] is 20% or greater, data are not shown. Data for males and females were sometimes combined ("T" for total), and data for several counties were combined, to obtain more reliable rates for certain sites/types of cancer. SEs were used to construct 95% confidence limits for the average-annual age-adjusted rates. If two rates have confidence limits that do not overlap, the probability that the difference in the rates is due to chance alone is less than 5%, but chance may still be involved as well as inaccuracies in the population estimates.

- 4. Official U.S. Census Bureau projections of the Connecticut population (by age and sex) made after the 1990 census, but before the 2000 census, were available at the time the work was done for this monograph. The populations projections used in this monograph were also used in reports from the National Cancer Institute's SEER Program for many years. Population estimation is a complex and difficult task, and estimates are revised periodically by the Census Bureau. Future monographs from the registry will use revised estimates. Revised population estimates will result in greater changes in estimated incidence rates for some counties than others, so that the reader is advised to examine future monographs for revised cancer rates by county.
- 5. Denominators for data on proportion of invasive cancers diagnosed at the localized stage included stage unknown. The proportion of unknown stage is small proportion for most sites (for example, 2% for breast), as shown in other registry monographs.
- 6. This monograph includes only invasive ("malignant") cancers, as also reported in SEER monographs (http://seer.cancer.gov). Bladder cancers reported as "in situ" (that is, not penetrating deeper layers of tissue, and therefore unlikely to spread) are routinely re-coded to invasive for all reports from the SEER Program, due to difficulties in distinguishing "in situ" from invasive bladder cancers.
- 7. Lymphomas were subdivided into nodal (i.e., involving lymph nodes) and extranodal groups (i.e., outside the lymph nodes. These groups are defined by site codes in the coding system used by the registry, which was the "International Classification of Diseases for Oncology, Version 2" (or "ICD-0-2"). Details may be found in other monographs, including those from the SEER Program (http://seer.cancer.gov).

Reference

Percy C, Van Holten V, Muir C. International Classification of Diseases for Oncology. Second Edition. World Health Organization. Geneva, Switzerland, 1990.

Table 1 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; All Cancer Combined (Site Codes 00.0-80.9)¹

County	Sex	Tumors	Crude Rate	observed ²	% Loca- lized ⁴		
Fairfield	M	11332	562.6	488.8	479.7	498.0	50.8
	F	11284	521.9	376.1	368.8	383.5	45.4
Hartford	M	11842	594.1	503.2	494.0	512.6	49.4
	F	11291	525.0	372.2 ⁵	364.9	379.6	45.7
New Haven	M	10825	567.2	488.9	479.6	498.5	50.5
	F	11584	563.1	403.6 ⁶	395.8	411.6	49.4
New London	M	3305	527.2	507.1	489.7	525.0	49.4
	F	3344	538.4	417.3 ⁶	402.5	432.6	47.5
Litchfield	M	2476	556.9	484.5	465.2	504.7	50.2
	F	2376	518.3	377.8	361.7	394.7	47.9
Middlesex	M	1907	522.3	484.6	462.7	507.5	49.8
	F	1997	525.8	389.8	371.7	408.9	47.4
Tolland	M	1535	469.0	508.3	482.7	535.0	52.8
	F	1329	407.6	368.4	347.9	389.9	47.6
Windham	M	1278	497.6	496.4	469.0	525.1	44.8
	F	1243	465.1	372.8	351.0	395.8	44.7
Conn. ⁷	M	44511	560.8	493.9	489.2	498.6	50.0
	F	44449	527.7	384.6	380.8	388.5	46.9

¹ ICD-O-2 site code shown in parentheses. Includes in situ bladder tumors, excludes epithelial skin tumors for sites other than genital.

 $^{^2}$ Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

 $^{^4}$ Percent localized based on all stages of invasive tumors.

⁵ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

⁶ The 99% confidence limits (not shown) are outside those of the Conn. age-adjusted rate.

⁷ Includes 12 tumors- 11 male and 1 female- for state residents, county not stated.

Table 2 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Oral Cavity, Pharynx (00.0-14.8)

			Crude	Age-adjusted Rate ude <u>95%</u> <u>Confidence²</u> % Loca					
County	Sex	Tumors	Rate	$Observed^1$	Lower	Upper	lized ³		
Fairfield	M	318	15.8	13.4	12.0	15.1	31.1		
Hartford	М	333	16.7	14.6	13.1	16.3	27.0		
New Haven New London	M M	290 106	15.2 16.9	14.0 16.4	12.4 13.4	15.8 20.0	31.4 40.6		
Litchfield	M	60	13.5	12.8	9.7	16.8	33.3		
Middlesex	M	52	14.2	13.4	9.9	17.9	36.5		
Tolland	M	42	12.8	13.5	9.7	18.6	33.3		
Windham	М	42	16.4	16.7	12.0	22.9	26.2		
Conn.	М	1243	15.7	14.1	13.3	14.9	31.1		
Fairfield	F	183	8.5	6.0	5.1	7.0	35.5		
Hartford	F	163	7.6	5.6	4.7	6.6	37.4		
New Haven	F F	164	8.0	6.0	5.0	$\frac{7.1}{2}$	47.0		
New London Litchfield	F	44 37	7.1 8.1	5.6 6.4	4.0 4.4	7.8 9.4	52.3 37.8		
Other Three Counties	F	54	5.6	4.3	3.1	5.8	35.2		
Conn.	F	645	7.7	5.7	5.2	6.2	40.2		

Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Percent localized based on all stages of invasive tumors.

Table 3 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Stomach, Esophagus

<u>County</u>	<u>Sex</u>	<u>Tumors</u>	Crude <u>Rate</u>	Age-a <u>Observed¹</u>	djusted R <u>95%</u> <u>Conf</u> <u>Lower</u>		% Loca- <u>lized³</u>	
			Stoma	ach <u>(16.0-16</u>	<u>(.9)</u>			
Fairfield Hartford New Haven New London Litchfield Middlesex Other Two Counties	M M M M M	256 293 277 44 52 32 45	12.7 14.7 14.5 7.0 11.7 8.8 7.7	10.7 12.1 12.0 6.4 ⁴ 10.1 8.2 7.9	9.4 10.7 10.6 4.7 7.5 5.5	12.1 13.6 13.6 8.8 13.6 11.8 10.7	21.9 21.2 26.4 27.3 23.1 21.9 22.2	
Conn.	М	1000 ⁵	12.6	10.8	10.1	11.5	23.2	
Fairfield Hartford New Haven New London Litchfield Other Three Counties Conn.	F F F F F	163 180 190 37 33 39	7.5 8.4 9.2 6.0 7.2 4.0	4.6 4.8 5.2 4.4 4.0 3.0	3.9 4.1 4.4 3.0 2.6 2.0	5.5 5.7 6.2 6.3 6.3 4.3	26.4 22.2 28.4 18.9 21.2 23.1	
			Esophagus (15.0-15.9)					
Fairfield Hartford New Haven New London Litchfield Middlesex Other Two Counties	M M M M M M	180 189 178 60 40 33 42	8.9 9.5 9.3 9.6 9.0 7.2	7.8 8.2 8.0 9.5 8.1 8.8 7.7	6.7 7.0 6.9 7.2 5.8 6.0 5.5	9.1 9.5 9.4 12.4 11.4 12.7 10.5	22.8 19.0 25.8 20.0 32.5 42.4 40.5	
Conn.	М	722	9.1	8.1	7.5	8.8	24.8	
Fairfield Hartford New Haven Other Five	F F F	69 57 65 59	3.2 2.7 3.2 2.9	2.3 1.7 2.2 2.2	1.8 1.2 1.6 1.6	3.1 2.3 2.8 2.9	15.9 28.1 27.7 30.5	
Counties Conn.	F	250	3.0	2.1	1.8	2.4	25.2	

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%.

Percent localized based on all stages of invasive tumors.

The 99% confidence limits (not shown) are outside those of the Conn. age-adjusted rate.

Includes 1 tumor for a state resident, county not stated.

Table 4 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Pancreas (25.0-25.9)

County	Sex	Tumors	Crude Rate	Age-ad Observed ¹	95% Con	ate <u>fidence²</u> Upper	% Loca- lized ³
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	254 268 265 58 65 40 33 35	12.6 13.4 13.9 9.3 14.6 11.0 10.1 13.6	10.7 11.3 11.9 8.8 12.1 10.0 10.7 13.6	9.4 9.9 10.5 6.7 9.3 7.1 7.3 9.4	12.1 12.8 13.5 11.5 15.8 14.0 15.3 19.1	4.7 5.6 6.8 13.8 12.3 10.0 9.1 5.7
Conn.	М	1018	12.8	11.1	10.4	11.8	6.9
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	F F F F F	296 286 272 77 66 46 39 29	13.7 13.3 13.2 12.4 14.4 12.1 12.0 10.8	8.9 8.1 8.3 8.7 9.1 7.8 9.9 7.3	7.9 7.1 7.3 6.8 6.9 5.5 6.9 4.8	10.1 9.2 9.5 11.3 12.3 11.1 14.0	7.1 7.7 6.6 7.8 7.6 6.5 7.7
Conn.	F	1111	13.2	8.5	7.9	9.0	7.2

Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Percent localized based on all stages of invasive tumors.

Table 5
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Colon and Rectum (18.0-21.8, 26.0)¹

Age-adjusted Rate Crude <u>95%</u> <u>Confidence³ %</u> L							% Loca-
County	Sex	Tumors	Rate	Observed ²	Lower	Upper	lized ⁴
Fairfield	M	1276	63.4	53.7	50.8	56.8	38.7
	F	1413	65.4	41.8	39.5	44.2	36.3
Hartford	M	1357	68.1	55.9	52.9	59.0	38.9
	F	1432	66.6	41.2	39.0	43.7	35.5
New Haven	M	1447	75.8	63.1 ⁵	59.8	66.6	43.5
	F	1528	74.3	45.2	42.8	47.8	42.9
New London	M	380	60.6	57.3	51.6	63.5	38.2
	F	439	70.7	47.6	43.0	52.8	35.5
Litchfield	M	318	71.5	60.2	53.6	67.6	38.7
	F	319	69.6	45.0	39.8	51.0	36.7
Middlesex	M	222	60.8	54.4	47.4	62.4	36.0
	F	218	57.4	36.3	31.2	42.3	33.5
Tolland	M	164	50.1	53.5	45.5	62.5	45.1
	F	127	39.0	33.4 ⁵	27.6	40.4	33.9
Windham	M	157	61.1	60.1	50.9	70.6	39.5
	F	168	62.9	45.2	38.1	53.5	41.7
Conn.	M	5321	67.0	57.4	55.8	59.0	40.1
	F	5644	67.0	42.7	41.5	43.9	37.8

 $^{^{1}}$ Rectum includes rectosigmoid, anal canal, anus NOS (not otherwise specified).

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 Percent localized based on all stages of invasive tumors.

⁵ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

Table 6 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Colon (18.0-18.9, 26.0)

County	Sex	Tumors — ————	Crude Rate	Age-a Observed ¹ ———	djusted R <u>95%</u> <u>Conf</u> Lower		% Loca- lized ³
Fairfield	M	894	44.4	37.4	35.0	40.0	35.8
	F	1058	48.9	30.6	28.6	32.6	34.1
Hartford	M	903	45.3	36.7	34.3	39.3	35.1
	F	1033	48.0	28.7	26.9	30.8	32.5
New Haven	M	995	52.1	42.9	40.2	45.8	40.9
	F	1141	55.5	32.9	30.9	35.1	40.1
New London	M	265	42.3	39.3	34.7	44.5	34.0
	F	309	49.8	33.3	29.5	37.7	30.7
Litchfield	M	220	49.5	41.4	36.0	47.7	32.7
	F	233	50.8	31.3	27.1	36.4	33.0
Middlesex	M	156	42.7	38.9	32.9	45.8	32.1
	F	174	45.8	28.6	24.1	33.9	32.8
Tolland	M	108	33.0	35.5	29.0	43.2	43.5
	F	93	28.5	23.5 ⁴	18.7	29.3	31.2
Windham	M	105	40.9	40.3	32.8	49.1	41.0
	F	127	47.5	32.2	26.4	39.2	41.7
Conn.	M	3646	45.9	39.0	37.8	40.3	36.9
	F	4168	49.5	30.6	29.6	31.7	35.1

Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Percent localized based on all stages of invasive tumors.

⁴ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

Table 7 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Rectum (19.9-21.8)¹

			Crude	Age-	% Loca-		
County	Sex	Tumors	Rate	Observed ²	95% Conf Lower	Upper	lized ⁴
Fairfield	M	382	19.0	16.3	14.7	18.1	45.6
	F	355	16.4	11.3	10.1	12.6	42.8
Hartford	M	454	22.8	19.2	17.4	21.1	46.5
	F	399	18.6	12.5	11.2	13.9	43.4
New Haven	M	452	23.7	20.2	18.4	22.2	49.3
	F	387	18.8	12.3	11.0	13.7	51.2
New London	M	115	18.3	18.0	14.8	21.7	47.8
	F	130	20.9	14.3	11.8	17.4	46.9
Litchfield	M	98	22.0	18.8	15.2	23.2	52.0
	F	86	18.8	13.7	10.8	17.5	46.5
Middlesex	M	66	18.1	15.5	11.9	20.1	45.5
	F	44	11.6	7.8 ⁵	5.4	11.1	36.4
Tolland	M	56	17.1	18.0	13.5	23.6	48.2
	F	34	10.4	10.0	6.8	14.4	41.2
Windham	M	52	20.3	19.8	14.7	26.3	36.5
	F	41	15.3	12.9	9.1	18.2	41.5
Conn.	M	1675	21.1	18.4	17.5	19.3	47.2
	F	1476	17.5	12.0	11.4	12.7	45.5

 $^{^{1}}$ Includes rectosigmoid, anal canal, anus NOS (not otherwise specified).

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 Percent localized based on all stages of invasive tumors.

⁵ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

Table 8
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Liver, Gallbladder

			Age-adjusted Rate					
			Crude		95% Cor	nfidence ²	% Loca-	
County	Sex	Tumors	Rate	<u>Observed¹</u>	Lower	Upper	<u>lized³</u>	
	·							
		<u>Liver,</u>	<u>Intrahepa</u>	<u>atic</u> <u>Bile</u> <u>Du</u>	ct (22.0-	<u>-22.1)</u>		
Fairfield	М	117	5.8	5.1	4.2	6.2	19.7	
Hartford	M	155	7.8	6.7	5.7	7.9	26.5	
New Haven	M	142	7.4	6.6	5.5	7.8	29.6	
New London	M	45	7.2	7.0	5.1	9.5	35.6	
Other Four	М	75	5.4	5.2	4.1	6.6	33.3	
Counties Conn.	М	534	6.7	6.0	5.5	6.6	27.5	
Commi		331	017	0.0	3.3	0.0	27.5	
Fairfield	F	66	3.1	2.1	1.6	2.7	23.3	
Hartford	F	52	2.4	1.5	1.1	2.1	17.3	
New Haven	F	87	4.2	2.6	2.1	3.4	24.1	
Other Five	F	53	2.6	2.0	1.4	2.7	30.2	
Counties Conn.	F	258	3.1	2.0	1.8	2.3	23.3	
	•							
		<u>Gallbladder</u> , <u>G</u>	other and	Unspec. Bil	iary Trac	t (23.9-24)	<u>.9)</u>	
Fairfield	М	55	2.7	2.3	1.7	3.0	21.8	
Hartford	M	58	2.9	2.4	$\frac{1.8}{1.8}$	3.1	13.8	
New Haven	М	50	2.6	2.1	1.6	2.9	28.0	
Other Five	M	48	2.4	2.1	1.6	2.9	22.9	
Counties Conn.	М	211	2.7	2.2	1.9	2.6	21.3	
Comi.	141	211	2.7	۷.۷	1.9	2.0	21.5	
Fairfield	F	60	2.8	1.7	1.3	2.4	20.0	
Hartford	F	65	3.0	1.9	1.5	2.6	21.5	
New Haven	F	76	3.7	2.2	1.7	2.8	26.3	
Other Five	F	50	2.4	1.7	1.2	2.3	26.0	
Counties Conn.	F	251	3.0	1.9	1.6	2.2	23.5	

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%.

Percent localized based on all stages of invasive tumors.

Table 9
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Lung, Bronchus and Trachea, Larynx

County	Sex	Tumors	Crude Rate	Age-adg		te <u>fidence²</u> Upper	% Loca- lized ³
		 Lung,	Bronchus, <u>T</u>		 -34.9)		
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	1586 1782 1741 542 356 307 229	78.7 89.4 91.2 86.5 80.1 84.1 70.0 88.8	68.5 ⁴ 75.5 78.4 84.6 ⁴ 69.5 78.1 77.2 90.8 ⁴	65.2 72.0 74.7 77.6 62.3 69.5 67.4 79.2	72.1 79.2 82.3 92.2 77.5 87.7 88.2	13.2 15.0 18.0 11.3 15.2 15.6 11.4 18.4
Conn.	М	6771	85.3	75.2	73.4	77.1	15.1
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland windham	F F F F F	1374 1438 1555 427 281 242 183 164	63.6 66.9 75.6 68.7 61.3 63.7 56.1 61.4	45.2 47.0 54.3 ⁴ 53.1 44.5 48.2 53.5 52.4	42.8 44.5 51.4 48.0 39.1 42.0 45.7 44.3	47.9 49.7 57.3 58.9 50.6 55.4 62.4 61.9	17.8 17.7 21.9 19.4 19.9 14.5 18.0
Conn.	F	5664	67.2	48.9	47.6	50.3	18.9
			<u>Larynx</u>	(32.0-32.9)			
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	150 173 183 52 37 31 19 28	7.5 8.7 9.6 8.3 8.3 8.5	6.6 7.5 8.6 7.9 7.7 7.9 *	5.5 6.4 7.3 5.9 5.4 5.3 *	7.7 8.7 9.9 10.5 10.9 11.5 *	66.0 67.6 61.2 71.2 62.2 77.4 *
Conn.	М	673	8.5	7.6	7.0	8.2	64.6
Fairfield Hartford New Haven Other Five	F F F	54 49 71 46	2.5 2.3 3.5 2.2	1.9 1.8 2.6 2.0	1.4 1.3 2.0 1.4	2.6 2.5 3.3 2.7	46.3 53.1 60.6 39.1
Counties Conn.	F	220	2.6	2.1	1.8	2.4	50.9

Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

³ Percent localized based on all stages of invasive tumors.

 $^{^4}$ The 95% confidence limits are outside those of the Conn. age-adjusted rate. * The standard error of the age-adjusted rate is 20% or higher.

Table 10
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Melanoma, Other Tumors of The Skin (44.0-44.9)

		Age-adjusted Rate Crude <u>95%</u> <u>Confidence²</u> % Loca-					% Loca-
<u>County</u>	<u>sex</u>	<u>Tumors</u>	<u>Rate</u>	<u>Observed¹</u>	Lower	<u>Upper</u>	lized ³
			<u>Melan</u>				
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	489 529 440 172 126 83 91 50	24.3 26.5 23.1 27.4 28.3 22.7 27.8 19.5	20.9 22.6 20.2 25.9 24.0 20.1 29.0 ⁵ 18.6	19.0 20.7 18.3 22.1 19.8 15.9 23.1 13.7	22.9 24.7 22.3 30.2 29.0 25.3 35.9 24.8	85.1 90.4 89.1 86.0 86.5 89.2 87.9 78.0
Conn.	M	1980	25.0	21.9	20.9	22.9	87.7
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	F F F F F	394 380 351 148 72 91 63 51	18.2 17.7 17.1 23.8 15.7 24.0 19.3 19.1	13.7 13.6 13.4 19.3 ⁵ 11.8 19.8 ⁵ 16.9	12.4 12.2 11.9 16.2 9.0 15.8 12.8 12.3	15.3 15.1 15.0 23.0 15.4 24.8 22.0 22.5	85.5 92.9 93.2 90.5 93.1 93.4 88.9 84.3
Conn.	F	1550	18.4	14.3	13.6	15.1	90.5
			Other Sk	in <u>Tumors⁶</u>			
Fairfield Hartford New Haven Other Five Counties	M M M M	51 77 73 45	2.5 3.9 3.8 2.2	2.1 3.0 3.0 2.0	1.6 2.4 2.4 1.4	2.8 3.8 3.9 2.7	43.1 36.4 41.1 55.6
Conn.	M	246	3.1	2.5	2.2	2.9	42.7
Fairfield Hartford New Haven Other Five Counties	F F F	42 45 45 30	1.9 2.1 2.2 1.5	1.3 1.5 1.4 1.1	0.9 1.1 1.0 0.7	1.9 2.2 2.0 1.6	52.4 60.0 80.0 80.0
Conn.	F	162	1.9	1.3	1.1	1.6	67,3

 $[\]frac{1}{2}$ 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%.

Percent localized based on all stages of invasive tumors.

⁴ ICD-O-2 morphology 8720-8790.

⁵ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

 $^{^{6}}$ Excludes epithelial type histologies and skin tumors of genital organs.

Table 11
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Female Breast, Prostate, Testis

			Age-adjusted Rate					
			Crude		<u>95%</u>	<u>fidence</u>	% Loca-	
County	Sex	Tumors	Rate	Observed ¹	Lower	Upper	lized ³	
			<u>Breast</u>	(50.0-50.9)				
Fairfield	F	3542	163.8	122.1	117.9	126.4	61.8	
Hartford	F	3538	164.5	123.0	118.8	127.4	64.4	
New Haven	F	3430	166.7	125.3	120.9	129.9	66.4	
New London Litchfield	F F	993 781	159.9 170.4	129.3 129.0	121.0 119.6	138.1 139.1	64.9 65.4	
Middlesex	F	616	162.2	124.7	119.6	135.8	66.1	
Tolland	F	434	133.1	122.8	111.0	135.6	64.3	
Windham	F	366	136.9	108.34	96.8	121.0	66.9	
Conn.	F	13700	162.7	123.6	121.5	125.8	64.5	
			Pros	tate <u>(61.9)</u>				
Fairfield	М	3608	179.1	158.5 ⁵	153.3	163.8	77.9	
Hartford	M	3426	171.9	148.1	143.1	153.3	78.0	
		2653	139.0	121.0^{5}	116.4	125.8	78.5	
New Haven New London	M M	2033 916	146.1	144.3	135.0	154.1	78.3 77.0	
				126.1 ⁴				
Litchfield	М	629	141.5		116.2	136.7	74.4	
Middlesex	М	508	139.1	133.7	122.2	146.2	76.4	
Tolland	М	474	144.8	163.2	148.7	178.9	82.3	
Windham	M	287	111.8	111.7 ⁵	98.9	125.8	73.9	
Conn.	М	12511 ⁶	157.6	141.6	139.1	144.1	77.9	
			<u>Testis</u>	(62.0-62.9)				
Fairfield	М	99	4.9	4.1	3.3	5.0	67.7	
Hartford	M	122	6.1	5.2	4.3	6.3	71.3	
New Haven	M	114	6.0	5.2	4.2	6.3	75.4	
New London	М	48	7.7	6.7	4.9	9.1	62.5	
Litchfield	M	32	7.2	7.1	4.7	10.5	81.3	
Other Three Counties	М	65	6.8	5.6	4.3	7.3	64.6	
Conn.	M	480	6.1	5.2	4.7	5.7	70.4	

 $[\]frac{1}{2}$ 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 Percent localized based on all stages of invasive tumors.

 $^{^4}$ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

⁵ The 99% confidence limits (not shown) are outside those of the Conn. age-adjusted rate.

⁶ Includes 10 tumors for state residents, county not stated.

Table 12
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Uterus, Ovary, Other Female Genital

County	Tumors	Crude Rate	Age- Observed ¹		l Rate onfidence ² Upper	% Loca- lized ³
Fairfield Hartford New Haven New London Litchfield Middlesex Other Two Counties	201 194 217 68 40 34 37	Uterin 9.3 9.0 10.6 11.0 8.7 9.0 6.2	e <u>Cervix (53.</u> 7.4 7.0 8.3 9.0 6.7 7.1 5.1	6.3 6.0 7.2 6.9 4.7 4.8 3.5	8.5 8.1 9.6 11.6 9.7 10.4 7.2	48.3 50.0 55.3 57.4 60.0 50.0 56.8
Conn.	791	9.4	7.4	6.9	8.0	52.5
		C	orpus (54.0-5	54.9)		
Fairfield	678	31.4	orpus <u>(54.0-5</u> 23.9 ₋	22.0	25.8	72.9
Hartford	594	27.6	20.75	18.9	22.5	72.9
New Haven	734	35.7	28.24	26.1	30.5	74.3
New London Litchfield Middlesex Tolland Windham Conn.	233 132 138 79 67 2655	37.5 28.8 36.3 24.2 25.1 31.5	30.8 ⁴ 23.0 30.7 23.6 24.1 24.8	26.8 19.1 25.6 18.6 18.5 23.8	35.4 27.8 36.9 29.8 31.1 25.8	72.5 78.8 69.6 75.9 65.7 73.3
			<u>Uterus</u> nos (5	55.9)		
Conn.	66	0.8	0.6	0.4	0.7	15.2
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham Conn.	409 391 380 108 78 78 40 48 1532	18.9 18.2 18.5 17.4 17.0 20.5 12.3 18.0 18.2	Ovary (56. 14.4 13.7 14.5 14.0 13.0 15.2 11.3 14.8 14.1	13.0 12.3 13.0 11.4 10.1 11.8 7.9 10.8 13.3	16.0 15.2 16.1 17.2 16.8 19.5 15.8 20.2	18.8 23.3 27.1 23.1 19.2 26.9 27.5 27.1 23.2
Fairfield Hartford New Haven New London Other Four Counties Conn.	99 115 99 40 53	Other Female 4.6 5.4 4.8 6.4 3.7 4.8	Genital (51 3.2 3.6 3.3 4.2 2.5	.0-52.9. 2.5 2.9 2.7 2.9 1.8	57.0-58.9) ⁶ 4.0 4.4 4.2 6.1 3.3	43.4 56.5 54.5 50.0 62.3

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 Percent localized based on all stages of invasive tumors.

⁴ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

⁵ The 99% confidence limits (omitted) are outside those of the Conn age-adjusted rate.

⁶ Includes vulva, vagina, fallopian tube, ligaments, sites other, nos.

Table 13
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Thyroid, Connective Tissue

			Crude	Age-ad	justed Ra <u>95%</u> <u>Conf</u>	te	% Loca-
County	Sex	Tumors	Rate	Observed ¹	Lower	Upper	lized ³
			Thyr	oid (73.9)			
Fairfield Hartford New Haven Other Five	M M M M	75 73 89 76	3.7 3.7 4.7 3.8	3.2 3.1 4.1 3.4	2.5 2.4 3.3 2.6	4.1 4.0 5.2 4.3	44.0 56.2 56.2 48.7
Counties Conn.	М	313	3.9	3.5	3.1	3.9	51.4
Fairfield Hartford New Haven New London Litchfield Middlesex	F F F F	194 183 208 50 61	9.0 8.5 10.1 8.1 13.3 8.4	7.2 7.1 8.5 7.4 11.4 ⁴ 6.4	6.2 6.0 7.3 5.4 8.5 4.3	8.4 8.3 9.8 10.0 15.2 9.6	60.8 62.8 71.6 66.0 78.7 71.9
Other Two Counties Conn.	F F	51 780 ⁵	8.6 9.3	7.0 7.7	5.1 7.1	9.4 8.3	76.5 67.3
com.	'			Tissue (49.		0.5	07.5
Fairfield Hartford New Haven Other Five	M M M M	57 63 47 59	2.8 3.2 2.5 2.9	2.6 2.6 2.2 2.8	1.9 2.0 1.6 2.1	3.4 3.4 3.0 3.6	50.9 44.4 66.0 50.8
Counties Conn.	М	226	2.9	2.6	2.2	2.9	52.2
Fairfield Hartford New Haven Other Five	F F F	55 46 45 50	2.5 2.1 2.2 2.4	1.8 1.6 1.8 2.1	1.4 1.1 1.3 1.5	2.5 2.2 2.6 2.9	49.1 37.0 53.3 40.0
Counties Conn.	F	196	2.3	1.8	1.6	2.1	44.9

 $[\]frac{1}{2}$ 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%.

Percent localized based on all stages of invasive tumors.

⁴ The 95% confidence limits are outside those of the Conn. age-adjusted rate.

⁵ Includes 1 tumor for a state resident, county not stated.

Table 14 Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Kidney (64.9-66.9)¹

			Crude	Age-ac	djusted Ra [.] 95% Conf	usted Rate 95% <u>Confidence³</u>	
County	Sex	Tumors	Rate	Observed ²	Lower	Upper	% Loca- lized ⁴
							
Fairfield	М	372	18.5	16.0	14.4	17.7	55.9
Hartford New Haven	M M	322 366	16.2 19.2	13.9 17.2	12.4 15.4	15.6 19.1	55.6 56.3
New London	M	90	14.4	13.6	10.9	16.9	56.7
Litchfield	M	83	18.7	16.6	13.2	20.9	57.8
Middlesex	M	65	17.8	16.9	13.0	21.9	63.1
Tolland	М	43	13.1	14.4	10.4	19.6	55.8
Windham	М	43	16.7	16.5	11.9	22.6	41.9
Conn.	М	1384	17.4	15.5	14.7	16.4	56.0
Fairfield	F	222	10.3	7.5	6.5	8.6	50.0
Hartford	F F	214	10.0	7.2	6.2	8.3	48.6
New Haven	F	241	11.7	8.3	7.2	9.5	54.0
New London	F F	64	10.3	7.9	6.0	10.4	46.9
Litchfield Middlesex	F	42 39	9.2 10.3	7.2 7.3	5.0 5.0	10.4 10.5	52.4 59.0
Tolland	F	27	1U.3 *	/.3 *	3.U *	*	39.0
Windham	F F	35	13.1	10.9	7.4	15.7	48.6
Conn.	F	884	10.5	7.7	7.2	8.3	50.9

¹ Includes renal pelvis, ureter.
2 Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

⁴ Percent localized based on all stages of invasive tumors. * The standard error of the age-adjusted rate is 20% or higher.

Table 15
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Bladder $(67.0-67.9)^1$

			Crude	Age-a	ate fidence ³	% Localized	
County	Sex	Tumors	Rate	Observed ²	Lower	Upper	In Situ ⁴
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham Conn.	M M M M M M	807 863 863 256 208 153 102 98	40.1 43.3 45.2 40.8 46.8 41.9 31.2 38.2	34.2 35.7 37.9 39.1 39.0 37.4 34.3 37.7	31.9 33.3 35.4 34.4 33.7 31.6 27.9 30.5	36.7 38.2 40.6 44.3 45.0 44.1 41.9 46.3	84.8 85.1 87.4 85.5 86.1 86.3 88.2 85.7
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland windham	F F F F F	319 321 371 113 63 56 46 22	14.8 14.9 18.0 18.2 13.7 14.7 14.1	10.0 9.4 11.7 13.3 9.3 10.9 11.6	8.8 8.3 10.4 10.8 7.0 8.1 8.3	11.3 10.6 13.1 16.3 12.5 14.8 16.1	86.2 84.1 87.1 85.0 82.5 87.5 87.0
Conn.	F	1311	15.6	10.4	9.8	11.1	85.5

 $^{^{1}}$ Includes in situ tumors.

Age-adjusted directly to the U.S. 1970 standard million.

Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Percent based on all stages of bladder tumors.

* The standard error of the age-adjusted rate is 20% or higher.

Table 16
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Eye, Brain, Other Central Nervous System¹

County	Sex	Tumors	Crude Rate	Age-ad Observed ²	justed Ra <u>95%</u> <u>Con</u> 1 Lower		% Loca- lized ⁴
			<u>Brain</u>	(71.0-71.9)			
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham Conn.	M M M M M M M	165 138 158 41 38 34 18 29 621	8.2 6.9 8.3 6.5 8.6 9.3 * 11.3 7.8	7.4 6.0 7.5 6.2 7.8 9.0 * 11.3 7.1	6.3 5.0 6.4 4.4 5.4 6.2 * 7.5 6.5	8.7 7.2 8.9 8.5 11.1 12.9 * 16.5 7.7	57.0 67.4 72.2 65.9 63.2 76.5 * 55.2 65.5
Fairfield Hartford New Haven New London Middlesex Other Three Counties	F F F F	116 135 123 31 31 52	5.4 6.3 6.0 5.0 8.2 4.9	4.4 5.1 5.2 4.0 6.5 4.2	3.6 4.2 4.3 2.7 4.3 3.1	5.4 6.2 6.4 6.0 9.7 5.7	56.0 62.2 67.5 54.8 67.7 51.9
Conn.	F	488	5.8	4.8	4.4	5.3	60.9
	<u>E</u>	ye, Other Cen	<u>tral</u> <u>Nerv</u>	<u>rous</u> System (<u>69.0-70.9</u>	9 <u>,</u> 72.0-72.	<u>9)</u>
Fairfield Hartford New Haven Other Five	M M M M	36 31 23 25	1.8 1.6 *	1.5 1.4 *	1.0 1.0 *	2.2 2.1 *	50.0 32.3 *
Counties Conn.	М	115	1.5	1.3	1.1	1.6	51.3
Fairfield Hartford New Haven Other Five Counties	F F F	31 29 21 29	1.4 1.4 * 1.4	1.2 1.2 * 1.2	0.8 0.7 *	1.8 1.7 *	35.5 37.9 *
Countres Conn.	F	110	1.3	1.1	0.9	1.3	42.7

 $[\]frac{1}{2}$ Includes spinal cord, cerebral and other meninges, cranial and other nerves.

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 Percent localized based on all stages of invasive tumors.

^{*} The standard error of the age-adjusted rate is 20% or higher.

Table 17
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized 1995-99; Lymphomas (morphology 9590-9715)¹

County	Sex	Tumors	Crude Rate	Age-adg	justed Ra <u>95%</u> <u>Conf</u> Lower	te <u>idence³</u> Upper	% Loca- lized ⁴
		 Non-Hodgkin's	(morpholo	ogy <u>9590-9595</u>	<u>. 9670-97</u>		-
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	452 517 515 130 108 74 72 55	22.4 25.9 27.0 20.7 24.3 20.3 22.0 21.4	19.2 21.8 23.3 19.2 21.0 18.2 22.4 21.3	17.4 19.9 21.3 16.0 17.1 14.2 17.4 16.0	21.1 23.8 25.5 22.9 25.8 23.1 28.5 28.1	48.2 43.3 48.0 42.3 40.7 33.8 40.3 50.9
ConnTotal Lymph nodes Other sites		1923 1421 502	24.2 17.9 6.3	21.0 15.4 5.5	20.0 14.6 5.1	21.9 16.3 6.1	45.2 34.1 76.7
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	F F F F F	478 459 460 114 80 74 47	22.1 21.3 22.4 18.4 17.5 19.5 14.4 16.5	15.7 14.5 15.3 13.8 12.8 13.3 12.7	14.2 13.1 13.8 11.3 10.0 10.2 9.2 9.6	17.3 16.0 17.0 16.9 16.5 17.4 17.2 18.8	51.5 42.7 46.7 47.4 41.3 39.2 38.3 45.5
ConnTotal Lymph node Other site		1756 1273 483	20.9 15.1 5.7	14.7 10.7 4.0	14.0 10.1 3.6	15.5 11.4 4.4	46.2 35.4 74.7
		Ho	dgkin's (n	norphology 96	<u>50-9667)</u>		
Fairfield Hartford New Haven Other Five Counties	M M M	75 77 75 63	3.7 3.9 3.9 3.1	3.3 3.6 4.0 2.8	2.6 2.8 3.1 2.1	4.2 4.5 5.1 3.6	56.0 42.9 52.0 38.1
Conn Total Lymph node	M S M	290 282	3.7 3.6	3.4 3.3	3.0 3.0	3.9 3.8	47.6 46.5
Fairfield Hartford New Haven Other Five	F F F	78 75 59 54	3.6 3.5 2.9 2.6	3.7 3.4 2.7 2.4	2.9 2.6 2.0 1.7	4.7 4.4 3.6 3.2	39.7 46.7 45.8 29.6
Counties ConnTotal Lymph node	F S F	266 259	3.2 3.1	3.0 2.9	2.7 2.6	3.5 3.4	41.0 41.3

 $^{^{1}}$ Includes lymph nodes, (77.0-77.9), and other tumor sites of these histologies.

 $^{^{2}}$ 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 Percent localized based on all stages of invasive tumors.

Table 18
Incidence Rates/100,000 of Invasive Tumors, by County, Sex, With Percent Localized, 1995-99; Leukemia, Multiple Myeloma

County	Sex	Tumors	Crude Rate	Age-ad Observed ¹	justed Rat <u>95% Confi</u> Lower	dence ² Upper	% Loca- lized ³
		<u>Leuk</u>	kemia (mor	phology 9800	<u>-9941)</u>		
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	M M M M M M	293 353 253 79 64 53 42 47	14.6 17.7 13.3 12.6 14.4 14.5 12.8 18.3	13.0 15.2 11.4 11.8 12.4 14.6 13.6 18.5	11.5 13.6 10.0 9.3 9.4 10.8 9.7	14.7 16.9 13.0 14.9 16.2 19.3 18.7 25.0	0.0 0.0 0.0 0.0 0.0 0.0
Conn.	М	1184	14.9	13.3	12.6	14.1	0.0
Fairfield Hartford New Haven New London Litchfield Middlesex Tolland Windham	F F F F F	212 261 198 72 55 52 34 28	9.8 12.1 9.6 11.6 12.0 13.7 10.4	7.5 8.9 7.1 9.1 8.9 10.0 9.5	6.5 7.7 6.1 7.0 6.4 7.2 6.5	8.8 10.2 8.4 11.8 12.2 13.8 13.8	0.0 0.0 0.0 0.0 0.0 0.0
Conn.	F	912	10.8	8.2	7.6	8.8	0.0
		<u>Multiple</u>	<u>Myeloma</u>	(morphology	9731-9732)	4	
Fairfield Hartford New Haven New London Litchfield Other Three Counties Conn.	M M M M M	129 140 108 32 39 48	6.4 7.0 5.7 5.1 8.8 5.1	5.5 5.8 4.6 4.7 7.3 5.2	4.6 4.9 3.8 3.2 5.1 3.8	6.6 6.9 5.6 6.8 10.4 6.9	0.0 0.0 0.0 0.0 0.0 0.0
Fairfield Hartford New Haven New London Other Four Counties	F F F	120 125 110 33 75	5.6 5.8 5.4 5.3 5.2	3.8 3.7 3.5 3.8 3.6	3.1 3.1 2.8 2.5 2.8	4.7 4.6 4.3 5.6 4.7	0.0 0.0 0.0 0.0 0.0
Conn.	F	463	5.5	3.7	3.3	4.1	0.0

¹ Age-adjusted directly to the U.S. 1970 standard million.

⁴ Includes other types of plasma cell tumors.

² Estimated limits in the range of variation from the observed age-adjusted rate expected at a probability of 95%.

Percent localized based on all stages. Leukemias and myelomas, originating primarily in bone marrow (42.1), are systemic or remote stage at diagnosis.

^{*} The standard error of the age-adjusted rate is 20% or higher.

Appendix Table A-1 Average Annual Estimated Connecticut Population, By County and Sex, 1995-99¹

County	<u>Male</u>	<u>Female</u>	<u>Total</u>
Fairfield	402852	432402	835254
Hartford	398678	430158	828836
New Haven	381677	411462	793139
New London	125392	124228	249620
Litchfield	88919	91693	180612
Middlesex	73030	75968	148998
Tolland	65456	65220	130676
Windham	51366	53457	104823
Connecticut	1587370	1684588	3271958

 $^{^{1}}$ Estimates based on annual projections from the 1990 census from the U.S. Census Bureau.

Appendix Table A-2 Connecticut Counties by Town

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

	New London	Litchfield	Middlesex
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.	Bozrah Colchester East Lyme Franklin Griswold Groton Lebanon Ledyard Lisbon Lyme Montville New London North Stonington Norwich Old Lyme Preston Salem Sprague Stonington Voluntown Waterford	Barkhamsted Bethlehem Bridgewater Canaan Colebrook Cornwall Goshen Harwinton Kent Litchfield Morris New Hartford New Milford Norfolk North Canaan Litchfield Roxbury Salisbury Sharon Thomaston Torrington Warren Washington Watertown Winchester Woodbury	Chester Clinton Cromwell Deep River Durham East Haddam East Hampton Essex Haddam Killingworth Middlefield Middletown Old Saybrook Portland Westbrook
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Tolland Andover Bolton Columbia Coventry Ellington Hebron Mansfield Somers Stafford Tolland Union Vernon Willington	Windham Ashford Brooklyn Canterbury Chaplin Eastford Hampton Killingly Plainfield Pomfret Putnam Scotland Sterling Thompson Windham Woodstock	