

Summary of Cancer Data, 2004

Section 6

Cancer Surveillance in Florida

Cancer incidence data are collected, verified, and maintained by the Florida Cancer Data System (FCDS), Florida's statewide central cancer registry. The FCDS is administered by the Florida Department of Health, Bureau of Epidemiology and operated by the Sylvester Comprehensive Cancer Center at the University of Miami Leonard M. Miller School of Medicine.

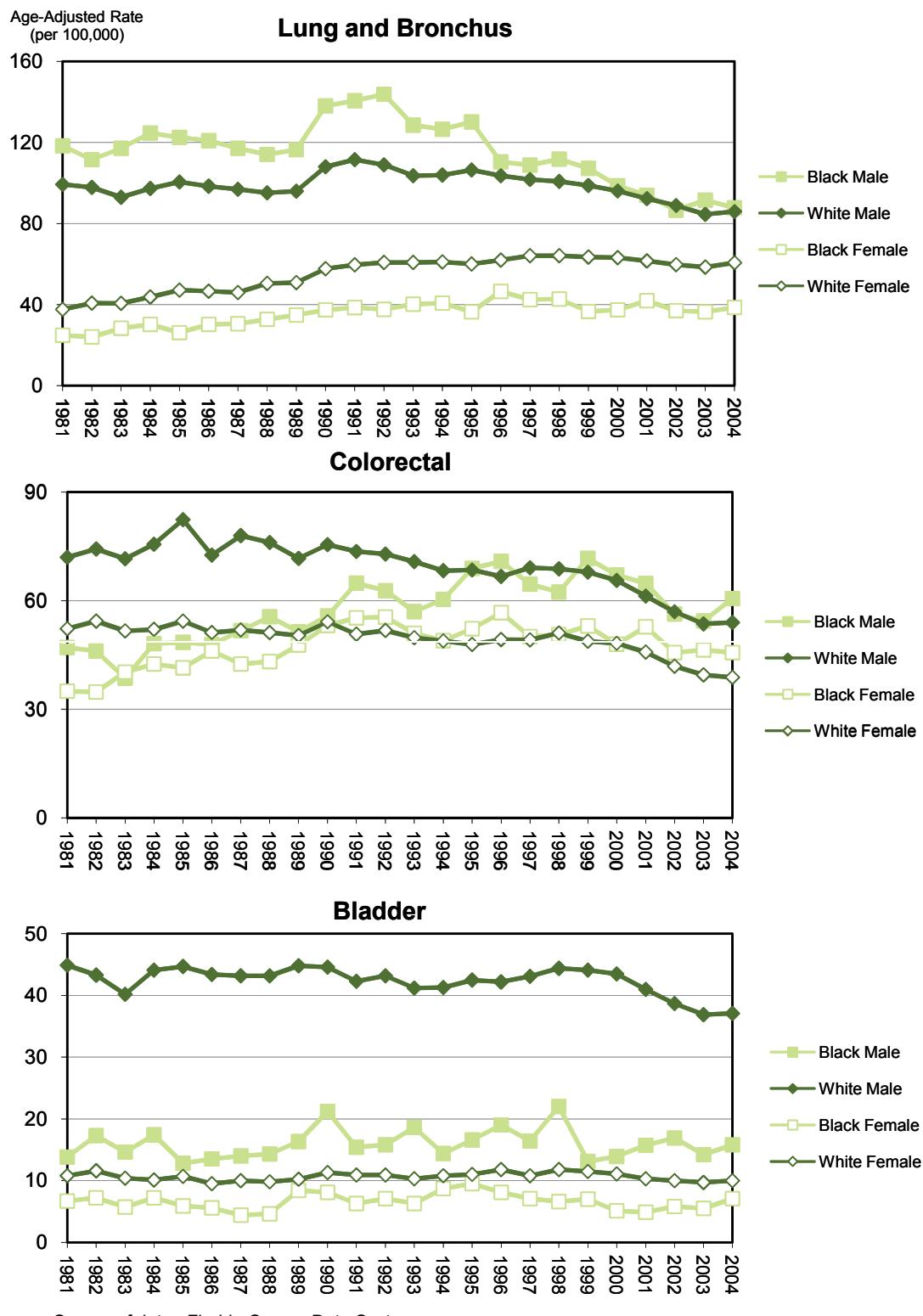
The FCDS began operation with a pilot project for cancer registration in 1980 and commenced statewide collection of cancer incidence data from all Florida hospitals in 1981. The FCDS now collects incidence data from hospitals, freestanding ambulatory surgical centers, radiation therapy facilities, pathology laboratories, and dermatopathologists' offices.

During 2004, physicians diagnosed 95,931 primary cancers among Floridians, an average of 263 cases per day. Cancer occurs predominantly among older people as age is the top risk factor. Sixty-one percent of the newly diagnosed cancers in 2004 occurred in persons age 65 and older; this age group accounts for 18 percent of Florida's population. The four most common cancers in Floridians were lung and bronchus (16,350 cases), prostate (12,150 cases), female breast (11,961 cases), and colorectal (10,710 cases), which accounted for 57 percent of all new cases in blacks, and 53 percent in whites. Fifty-three percent of new cancers were diagnosed in males. The number of new cancer cases in Florida's five most populous counties (Broward, Miami-Dade, Hillsborough, Orange and Palm Beach), which had 43 percent of Florida's population, accounted for 38 percent of the new cancer cases in Florida in 2004.

Over the 24-year period from 1981 to 2004, males had a higher incidence (age-adjusted incidence rate) than females. Among blacks, the incidence among males was between 54 percent and 102 percent higher than that among females. Among whites, the incidence among males was between 28 percent and 53 percent higher than that among females. White females had higher age-adjusted incidence rates than black females in all years. The racial disparity varied between 10 percent and 27 percent. Black males had higher age-adjusted incidence rates than white males in all years, except in 1987 and 1988. The racial disparity between black and white males increased from 1989 until 1995; however, it has declined from 16 percent in 1995 to 6 percent in 2004.

More information about the burden of cancer in Florida is provided in the *Florida Annual Cancer Report*, an epidemiological series, available on the department's web site at www.doh.state.fl.us/disease_ctrl/epi/cancer/CancerIndex.htm, or the FCDS web site at www.fcds.med.miami.edu.

**Figure 2.1 Age-Adjusted Incidence Rates by Sex and Race,
Florida, 1981-2004**



Source of data: Florida Cancer Data System

**Figure 2.2 Age-Adjusted Incidence Rates by Sex and Race,
Florida, 1981-2004**

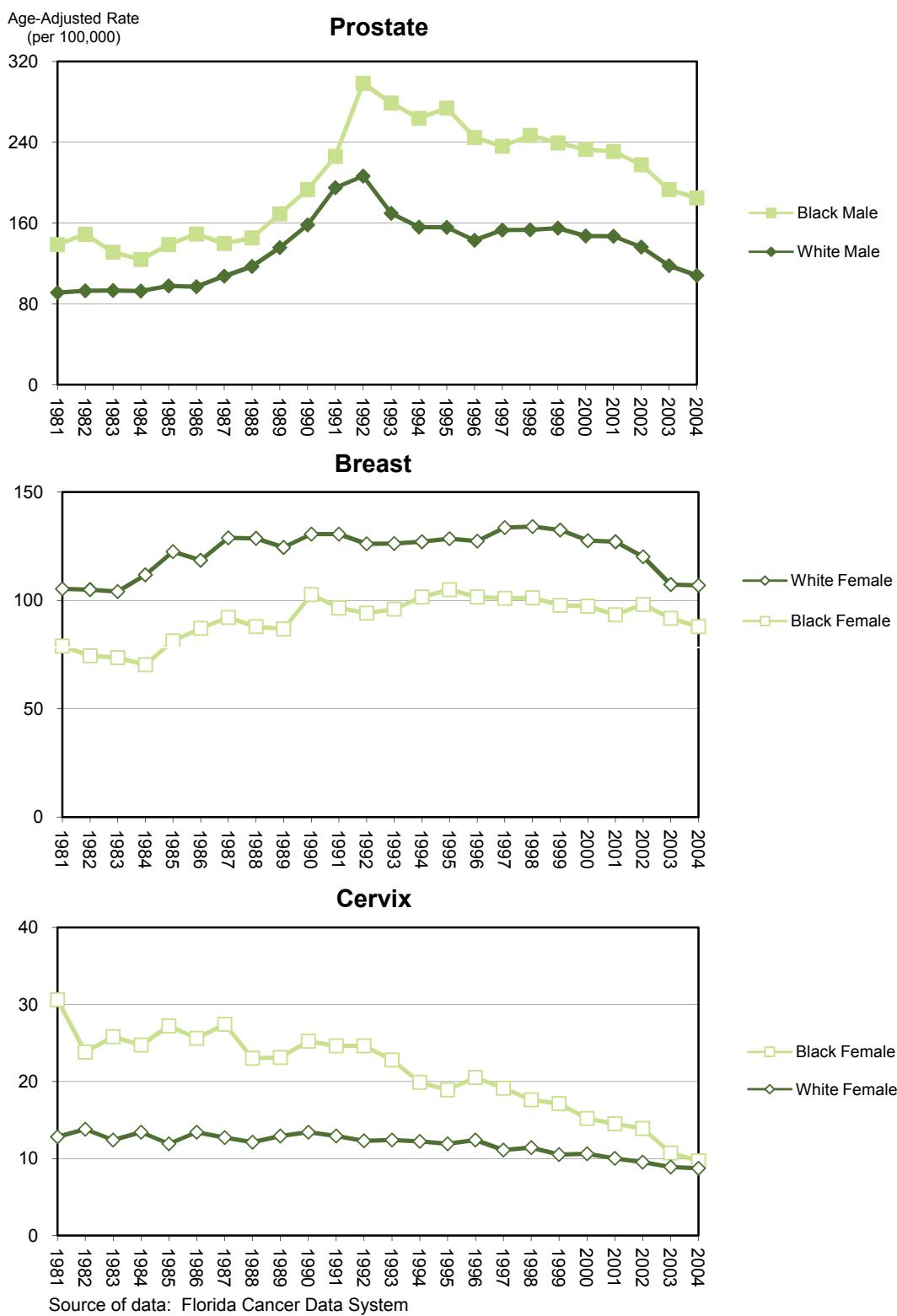
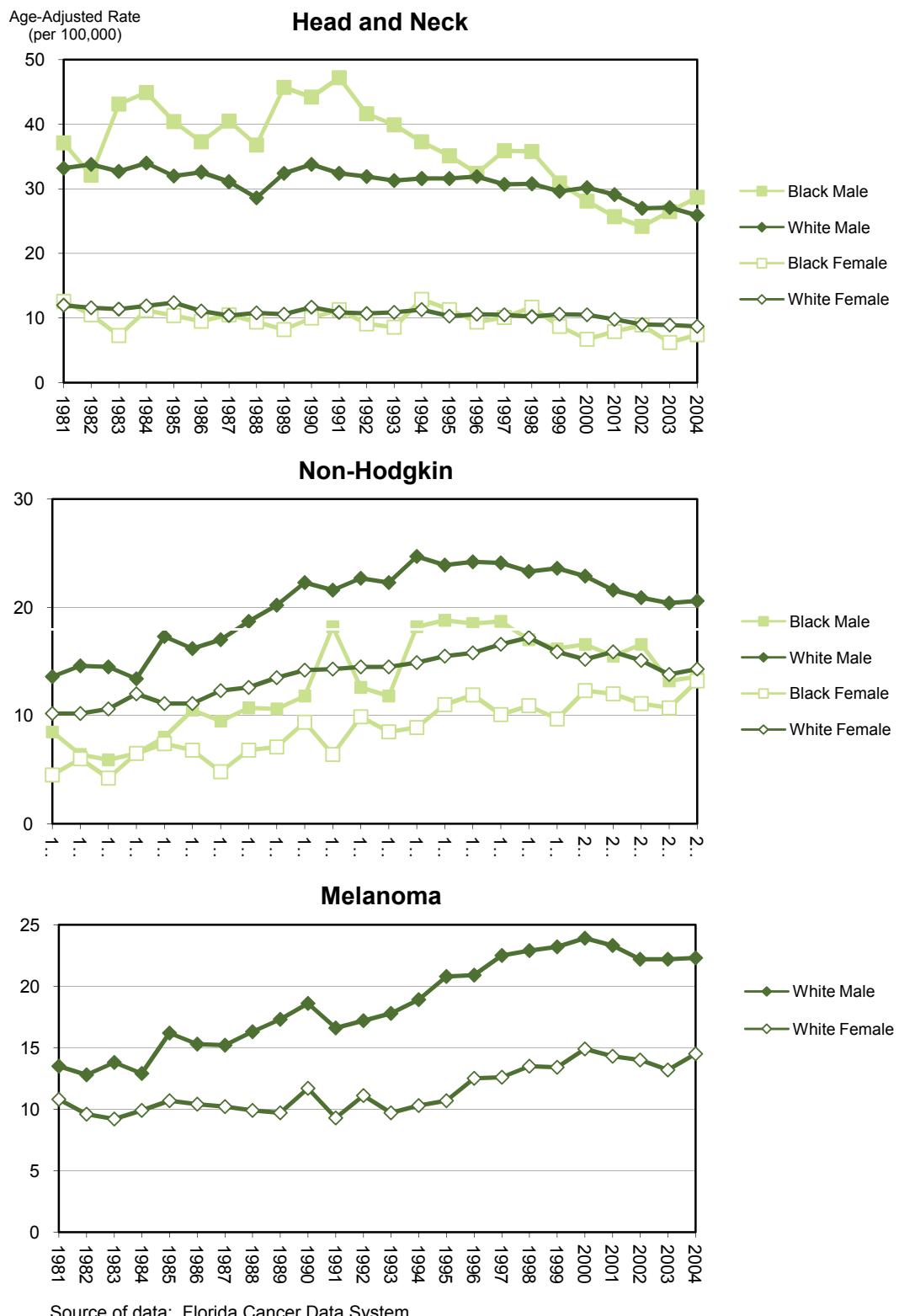


Figure 2.3 Age-Adjusted Incidence Rates by Sex and Race, Florida, 1981-2004



Source of data: Florida Cancer Data System

Figure 3. Age-Specific Incidence Rates for All Cancers by Sex, Race, and Age Group, Florida, 1981-2004

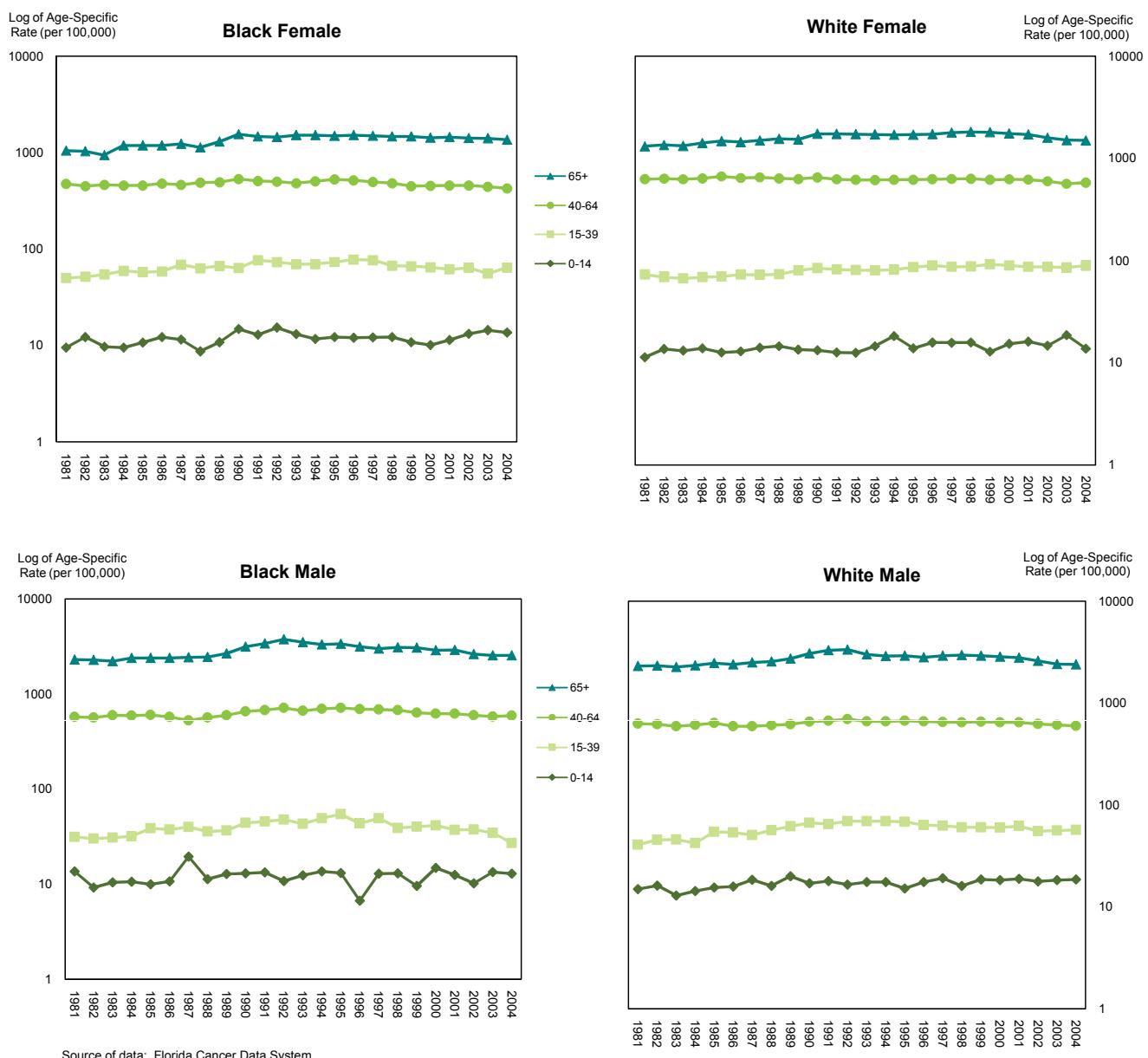


Table 1. Number of New Cancer Cases by Sex and Race, Florida, 2004

	All Cancers	Lung & Bronchus	Prostate	Breast	Colorectal	Bladder	Head & Neck	Non-Hodgkin(1)	Melanoma	Ovary	Cervix
Florida (2)	95,931	16,350	12,150	11,961	10,710	5,003	3,627	3,754	3,277	1,485	826
Female	45,235	7,438		11,961	5,106	1,288	1,013	1,744	1,323	1,485	826
Male	50,652	8,902	12,150		5,600	3,712	2,613	2,006	1,954		
Black	8,328	1,133	1,554	1,068	992	182	358	307		102	123
White	85,581	15,016	10,298	10,619	9,490	4,715	3,186	3,374	3,277	1,351	683
Black Female	3,875	430		1,068	505	72	92	158		102	123
White Female	40,415	6,916		10,619	4,485	1,192	900	1,554	1,323	1,351	683
Black Male	4,451	702	1,554		487	110	266	148			
White Male	45,131	8,091	10,298		5,002	3,520	2,285	1,817	1,954		

Source of data: Florida Cancer Data System

(1) Non-Hodgkin refers to Non-Hodgkin's lymphoma throughout this report.

(2) Florida incidence totals throughout this report include 1,140 new cancers in persons of "Other" races, 882 cases with unknown race, 44 cases with unknown or unspecified sex, and 2 cases with unknown age. Totals by sex include cases with unknown age and race, as well as cases with Other race. Totals by race include unknown sex and age.

Table 2. Number of New Cancer Cases by County, Florida, 2004

	All Cancers	Lung & Bronchus	Prostate	Breast	Colorectal	Bladder	Head & Neck	Non-Hodgkin	Melanoma	Ovary	Cervix
Florida	95,931	16,350	12,150	11,961	10,710	5,003	3,627	3,754	3,277	1,485	826
Alachua	882	146	93	135	99	38	55	40	33	13	^
Baker	101	14	15	16	12	^	^	^	^	^	^
Bay	760	144	136	85	78	19	28	22	35	11	^
Bradford	90	17	^	12	16	^	^	^	^	^	^
Brevard	3,467	675	454	418	348	243	124	123	116	57	11
Broward	8,408	1,248	866	1,111	981	456	308	340	288	155	97
Calhoun	63	17	^	^	^	^	^	^	^	^	^
Charlotte	1,109	197	166	115	127	60	50	46	24	18	^
Citrus	1,033	206	161	92	119	66	39	32	31	14	^
Clay	671	101	78	100	65	42	25	30	19	^	^
Collier	1,879	262	354	182	168	122	70	71	92	23	10
Columbia	300	63	43	36	30	15	10	13	^	^	^
Miami-Dade	10,463	1,351	1,380	1,328	1,315	447	415	451	242	159	147
DeSoto	151	31	19	17	26	^	^	^	^	^	^
Dixie	75	17	^	12	12	^	^	^	^	^	^
Duval	3,766	626	493	557	401	156	146	164	89	60	40
Escambia	1,453	279	180	197	135	56	69	61	44	19	16
Flagler	546	83	85	71	48	33	28	22	16	^	^
Franklin	56	14	^	^	^	^	^	^	^	^	^
Gadsden	215	44	27	37	31	^	^	^	^	^	^
Gilchrist	82	14	^	^	12	^	^	^	^	^	^
Glades	36	10	^	^	^	^	^	^	^	^	^
Gulf	83	14	^	^	^	^	^	^	^	^	^
Hamilton	47	^	^	12	11	^	^	^	^	^	^
Hardee	110	19	17	10	^	^	^	^	^	^	^
Hendry	157	31	22	16	24	^	^	^	^	^	^
Hernando	1,260	273	168	149	161	66	42	42	42	^	^
Highlands	751	153	95	76	97	31	14	26	29	^	^
Hillsborough	5,116	781	571	692	579	225	191	189	180	100	41
Holmes	64	11	^	^	14	^	^	^	^	^	^
Indian River	969	181	133	95	105	69	43	23	39	^	^
Jackson	202	41	27	29	24	10	^	^	^	^	^
Jefferson	55	^	^	^	^	^	^	^	^	^	^
Lafayette	21	^	^	^	^	^	^	^	^	^	^
Lake	2,121	394	323	224	230	110	50	94	77	27	16
Lee	3,339	595	491	374	345	188	126	113	145	49	24
Leon	819	124	126	125	103	17	25	36	38	11	^
Levy	205	43	22	19	22	11	17	^	^	^	^
Liberty	34	^	^	^	^	^	^	^	^	^	^
Madison	71	19	11	^	10	^	^	^	^	^	^
Manatee	1,943	391	233	205	225	94	69	81	73	39	16
Marion	2,215	398	377	281	250	107	62	77	74	27	15
Martin	1,031	180	152	128	104	72	40	43	57	16	11
Monroe	451	76	36	49	57	24	37	19	20	^	^
Nassau	373	85	43	45	31	13	16	10	10	^	^
Okaloosa	892	184	100	125	77	43	35	42	28	12	^
Okeechobee	181	42	17	14	28	^	10	^	^	^	^
Orange	4,086	610	547	590	471	159	148	170	121	65	46
Osceola	807	148	82	106	101	44	29	20	35	^	11
Palm Beach	8,011	1,218	909	1,057	810	494	258	362	377	125	45
Pasco	2,950	560	344	331	328	206	103	104	114	47	17
Pinellas	6,260	1,182	693	773	739	382	237	232	212	107	38
Polk	3,375	634	422	381	352	158	123	115	129	38	43
Putnam	445	101	61	41	54	25	20	19	^	^	^
Saint Johns	848	136	93	128	88	50	29	44	40	16	11
Saint Lucie	1,253	254	172	146	128	69	51	47	32	26	^
Santa Rosa	609	135	78	70	66	29	28	23	22	15	^
Sarasota	2,973	535	455	344	326	188	100	117	118	55	17
Seminole	1,547	244	227	211	169	65	51	41	52	23	18
Sumter	437	97	46	48	48	27	18	21	16	^	^
Suwannee	215	45	18	34	20	11	14	^	^	^	^
Taylor	96	23	14	13	^	^	^	^	^	^	^
Union	141	30	16	^	12	^	15	11	^	^	^
Volusia	3,329	690	361	371	391	160	148	126	76	48	28
Wakulla	120	23	^	18	12	^	^	^	^	^	^
Walton	211	46	18	35	20	^	^	^	^	^	^
Washington	102	14	17	13	13	^	^	^	^	^	^

^ Statistics for cells with fewer than 10 cases are not displayed.

Source of data: Florida Cancer Data System

Table 3. Age-Adjusted Incidence Rates (1) by Sex and Race, Florida, 2004

	All Cancers			Lung & Bronchus			Prostate			Breast			Colorectal			Bladder		
	Rate	CI		Rate	CI		Rate	CI		Rate	CI		Rate	CI		Rate	CI	
Florida (2)	430.5	427.8	433.3	70.6	69.5	71.7	116.3	114.2	118.4	105.2	103.3	107.1	46.5	45.6	47.4	21.1	20.5	21.7
Female	380.1	376.5	383.8	58.6	57.2	59.9				105.2	103.3	107.1	39.8	38.7	40.9	9.7	9.2	10.3
Male	498.5	494.1	502.9	86.1	84.3	87.9	116.3	114.2	118.4				54.9	53.5	56.4	35.8	34.7	37.0
Black	412.9	403.8	422.2	58.7	55.3	62.4	184.7	175.1	194.7	87.9	82.7	93.5	51.9	48.6	55.3	10.6	9.1	12.3
White	430.5	427.5	433.5	71.7	70.6	72.9	108.2	106.2	110.4	106.9	104.8	109.0	45.6	44.6	46.5	21.9	21.3	22.6
Black Female	333.5	322.9	344.4	38.6	35.0	42.5				87.9	82.7	93.5	45.7	41.7	50.0	7.1	5.5	9.0
White Female	385.2	381.3	389.2	60.6	59.2	62.1				106.9	104.8	109.0	38.8	37.6	40.0	10.0	9.5	10.7
Black Male	526.3	509.9	543.1	87.8	81.0	95.1	184.7	175.1	194.7				60.6	55.0	66.8	15.8	12.8	19.4
White Male	492.2	487.6	496.8	85.9	84.0	87.8	108.2	106.2	110.4				54.0	52.5	55.5	37.1	35.8	38.3
Non-Hodgkin																		
	Head & Neck			Hodgkin			Melanoma			Ovary			Cervix					
	Rate	CI		Rate	CI		Rate	CI		Rate	CI		Rate	CI		Rate	CI	
Florida (2)	16.8	16.2	17.3	17.1	16.5	17.7	17.8	17.2	18.4	12.7	12.1	13.4	8.6	8.0	9.3			
Female	8.6	8.1	9.2	14.4	13.7	15.1	14.5	13.7	15.3	12.7	12.1	13.4	8.6	8.0	9.3			
Male	26.2	25.2	27.3	20.4	19.5	21.3	22.3	21.3	23.3									
Black	16.5	14.8	18.4	13.7	12.1	15.4				8.7	7.1	10.6	9.7	8.1	11.7			
White	16.7	16.2	17.4	17.2	16.6	17.8	17.8	17.2	18.4	13.3	12.5	14.0	8.7	8.0	9.4			
Black Female	7.4	6.0	9.2	13.2	11.2	15.6				8.7	7.1	10.6	9.7	8.1	11.7			
White Female	8.7	8.1	9.3	14.3	13.5	15.0	14.5	13.7	15.3	13.3	12.5	14.0	8.7	8.0	9.4			
Black Male	28.7	25.2	32.7	13.6	11.4	16.2												
White Male	25.9	24.8	27.0	20.6	19.6	21.6	22.3	21.3	23.3									

Source of data: Florida Cancer Data System

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

(2) Florida incidence rates throughout this report include 1,140 new cancers in persons of "Other" races, 882 cases with unknown race, 44 cases with unknown or unspecified sex, and 2 cases with unknown age. Rates calculated by sex include cases with unknown age and race, as well as cases with Other race. Rates by race include unknown sex and age.

Table 4. Age-Adjusted Incidence Rates (1) by County, Florida, 2004

	All Cancers			Lung & Bronchus			Prostate			Breast			Colorectal		
	Rate	CI		Rate	CI		Rate	CI		Rate	CI		Rate	CI	
Florida	430.5	427.8	433.3	70.6	69.5	71.7	116.3	114.2	118.4	105.2	103.3	107.1	46.5	45.6	47.4
Alachua	453.4	423.7	484.7	76.7	64.7	90.4	105.4	84.8	130.1	127.8	107.0	151.7	52.0	42.2	63.5
Baker	476.8	386.7	584.3	70.6	37.8	122.8	152.4	79.8	290.7	144.3	82.2	238.0	60.3	30.6	109.6
Bay	434.4	403.9	466.8	82.5	69.5	97.4	160.7	134.4	192.0	92.8	74.0	115.4	44.2	34.9	55.4
Bradford	299.7	240.8	370.6	55.3	32.2	91.4	^	^	^	89.7	45.1	166.7	53.8	30.7	90.1
Brevard	481.2	465.0	498.0	88.3	81.7	95.4	130.5	118.6	143.4	115.7	104.5	128.1	47.3	42.4	52.8
Broward	404.3	395.5	413.1	58.9	55.6	62.3	94.5	88.3	101.1	100.8	94.9	107.1	45.0	42.1	47.9
Calhoun	402.4	308.9	520.4	105.7	61.6	176.0	^	^	^	^	^	^	^	^	^
Charlotte	350.7	327.6	376.0	56.4	48.2	67.0	97.5	82.9	116.7	91.8	72.9	116.4	35.8	29.3	44.8
Citrus	392.6	366.1	421.9	70.8	60.9	83.6	117.5	99.6	141.3	72.2	56.3	94.6	41.9	34.0	52.8
Clay	428.6	396.2	463.1	67.3	54.6	82.2	105.4	82.5	133.8	113.8	92.4	139.2	42.7	32.8	54.8
Collier	377.5	359.5	396.4	48.4	42.6	55.3	135.5	121.4	151.4	80.3	68.0	94.8	32.6	27.6	38.6
Columbia	442.6	393.6	496.4	91.5	70.2	117.9	134.9	96.9	185.7	103.9	72.5	146.4	46.4	31.2	67.0
Miami-Dade	409.2	401.4	417.2	52.3	49.6	55.2	121.4	115.1	128.1	96.1	91.0	101.5	50.9	48.2	53.8
DeSoto	327.1	275.1	387.7	62.3	41.7	92.0	82.9	49.3	135.3	75.7	42.7	132.4	52.7	33.9	80.7
Dixie	373.8	291.2	477.4	83.3	47.4	142.4	^	^	^	119.5	58.7	235.2	59.2	29.8	112.4
Duval	488.7	473.1	504.7	83.1	76.6	89.9	149.6	136.4	163.8	129.2	118.7	140.5	52.2	47.2	57.7
Escambia	444.6	421.9	468.2	85.1	75.4	95.9	121.9	104.6	141.5	112.0	96.8	129.2	41.1	34.5	48.8
Flagler	457.7	415.4	505.7	61.2	48.3	80.4	131.4	104.2	170.9	128.1	95.8	173.9	43.4	30.1	63.8
Franklin	396.3	294.3	532.2	84.3	45.0	160.4	^	^	^	^	^	^	^	^	^
Gadsden	451.7	393.1	517.0	92.8	67.3	125.2	127.3	83.3	188.3	137.0	96.2	190.8	65.4	44.4	93.4
Gilchrist	448.1	355.7	561.2	74.4	40.5	131.0	^	^	^	^	^	^	66.3	34.1	121.6
Glades	212.8	147.6	309.9	53.7	25.7	118.1	^	^	^	^	^	^	^	^	^
Gulf	439.9	349.5	552.5	70.4	38.4	127.0	^	^	^	^	^	^	^	^	^
Hamilton	340.4	249.3	456.3	^	^	^	^	^	^	190.9	97.7	342.1	82.9	41.1	151.7
Hardee	370.6	303.9	448.9	61.0	36.6	97.5	113.7	66.1	188.2	74.4	35.0	145.5	^	^	^
Hendry	465.4	394.9	545.9	92.3	62.5	132.3	134.5	83.0	212.8	102.3	58.3	167.6	72.5	46.2	109.5
Hernando	466.6	438.4	497.1	91.3	80.3	104.6	121.0	102.5	144.4	114.5	94.6	139.5	56.7	47.7	68.2
Highlands	401.4	369.0	437.5	77.9	64.6	95.1	110.7	87.9	141.5	82.1	61.0	112.1	45.1	35.7	58.5
Hillsborough	453.8	441.4	466.4	69.5	64.7	74.6	112.6	103.5	122.4	112.7	104.5	121.5	51.5	47.4	55.9
Holmes	300.9	230.8	388.6	54.5	27.0	101.8	^	^	^	^	^	^	64.5	34.9	113.1
Indian River	437.7	408.0	469.8	78.5	66.8	92.8	120.7	100.6	145.7	85.7	67.4	109.4	43.3	34.9	54.1
Jackson	365.1	316.2	420.5	73.3	52.5	101.0	108.4	70.9	160.7	101.0	67.1	149.2	42.2	27.0	64.4
Jefferson	336.6	253.2	444.0	^	^	^	^	^	^	^	^	^	^	^	^
Lafayette	269.0	166.1	419.9	^	^	^	^	^	^	^	^	^	^	^	^
Lake	494.7	472.2	518.4	86.2	77.5	96.1	148.5	132.3	167.3	110.6	95.2	128.8	50.0	43.4	57.8
Lee	404.5	390.0	419.5	67.7	62.2	73.8	115.9	105.7	127.2	97.1	86.7	108.8	38.6	34.4	43.2
Leon	402.9	375.1	432.2	65.3	54.2	78.3	137.3	113.5	165.8	107.3	89.0	128.6	52.3	42.6	63.8
Levy	386.6	333.6	447.8	72.9	52.6	101.8	81.6	50.4	132.6	65.1	38.8	109.8	42.3	26.2	67.8
Liberty	489.8	337.1	704.5	^	^	^	^	^	^	^	^	^	^	^	^
Madison	337.0	262.7	427.7	86.8	52.1	138.7	117.5	58.4	214.7	^	^	^	47.0	22.5	89.5
Manatee	414.5	395.2	434.9	77.7	69.9	86.5	100.6	88.0	115.3	96.4	82.6	112.4	44.5	38.6	51.5
Marion	469.8	449.2	491.5	79.3	71.4	88.3	161.2	144.9	179.5	111.5	98.0	127.1	50.6	44.2	58.0
Martin	419.1	391.9	448.5	66.2	56.6	78.1	123.4	104.2	147.1	110.0	89.6	135.4	38.4	30.9	48.3
Monroe	454.9	412.8	501.2	74.9	58.7	95.5	65.3	45.4	94.0	94.2	69.4	128.4	58.5	44.0	77.6
Nassau	513.1	461.4	569.6	112.7	89.7	140.7	121.4	86.6	171.1	115.7	84.0	157.1	41.6	28.1	60.4
Okaloosa	476.0	445.0	508.7	98.2	84.4	113.8	113.3	91.7	139.9	124.9	103.9	149.3	42.1	33.2	52.9
Okeechobee	373.0	319.4	434.4	83.0	59.5	114.6	71.4	41.0	118.8	62.7	33.0	114.4	52.9	35.1	79.1
Orange	448.3	434.5	462.4	68.9	63.5	74.7	136.0	124.6	148.4	116.5	107.3	126.4	52.9	48.2	58.0
Osceola	366.0	341.0	392.3	67.6	57.1	79.6	78.3	62.0	98.4	90.4	73.9	109.6	46.4	37.7	56.5
Palm Beach	430.4	420.6	440.5	60.9	57.4	64.5	106.0	99.1	113.3	114.6	107.3	122.3	41.8	38.9	45.0
Pasco	454.6	436.9	473.1	79.5	72.8	87.1	107.6	96.2	120.5	107.5	94.8	121.9	45.4	40.3	51.3
Pinellas	436.3	425.1	447.7	79.3	74.7	84.2	105.5	97.7	113.8	107.1	99.3	115.6	47.8	44.3	51.5
Polk	485.0	468.3	502.2	85.7	79.1	92.9	124.0	112.4	136.8	112.3	100.9	125.0	48.0	43.0	53.5
Putnam	446.6	405.0	492.4	98.4	79.7	121.3	119.8	91.4	157.1	83.2	58.7	117.0	52.4	39.1	70.1
Saint Johns	454.0	423.6	486.5	71.0	59.5	84.6	104.1	83.9	128.9	128.2	106.6	154.1	46.6	37.3	58.1
Saint Lucie	391.7	369.4	415.4	73.0	64.1	83.2	107.5	91.9	126.0	93.6	78.2	112.0	39.5	32.7	47.7
Santa Rosa	440.7	405.8	478.3	98.8	82.6	117.8	124.3	96.7	159.8	93.6	72.7	119.2	49.4	38.0	63.7
Sarasota	433.6	416.2	451.8	73.6	66.9	81.2	136.0	123.4	150.4	107.1	94.2	122.1	44.6	39.3	50.8
Seminole	392.9	373.3	413.4	64.7	56.7	73.5	125.9	109.6	144.3	94.8	82.3	108.8	44.5	37.9	51.8
Sumter	353.7	318.2	394.5	75.0	59.7	96.0	70.7	50.5	102.4	80.4	56.2	117.6	35.1	25.5	50.7
Suwannee	432.3	375.3	497.5	86.1	62.7	118.1	77.2	45.3	128.2	130.7	89.1	190.6	39.0	23.6	63.7
Taylor	420.5	340.0	516.2	96.8	61.1	148.1	117.8	64.2	213.5	123.6	65.0	222.3	^	^	^
Union	981.9	819.7	1175.6	2											