

Childhood Cancer Incidence in New Jersey by County, 1990-2014 Data Tables

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Introduction

These tables present New Jersey childhood cancer incidence from 1990-2014 by county for children and adolescents ages 0-19. These data tables are meant to supplement the report entitled *Childhood Cancer in New Jersey 1979-2013*, which was released in December 2016. (http://www.nj.gov/health/ces/documents/childhood_cancer79-13.pdf) As in the report, the rates in these data tables are displayed by type of cancer and age group. To preserve statistical reliability, these data tables group data by gender and race/ethnicity. In addition, the less common cancers presented in Tables A.9 and A.10 are only presented for the entire period (1990-2014) to preserve statistical reliability.

The primary objective of these data tables is to provide county level childhood cancer rates and identify which counties have significantly higher or lower rates than the state average. On a cautionary note, childhood cancer, like other rare health events, does not occur evenly over time and place. Usually rates of cancer are due to random variation, even when high or low rates can be statistically confirmed. For this reason, caution should be exercised when interpreting these results.

Technical Notes

Data Sources

New Jersey cancer incidence data were obtained from the December 2016 analytic file from the New Jersey State Cancer Registry. Counts and rates were tabulated using SEER*Stat version 8.3.4 (<http://www.seer.cancer.gov/seerstat/>), a statistical software package distributed by the National Cancer Institute. All rates are age-adjusted to the 2000 U.S. Standard Population (19 age groups-Census P25-1130).

Data Specifications

The International Classification of Childhood Cancer (ICCC) was used to classify each cancer. Unlike adults, the ICCC classification system for childhood cancer is based on tumor histology rather than the site of the tumor. For additional information on the coding between cancer site and histology in the ICCC, visit: <http://seer.cancer.gov/iccc/iccc-who2008.html>.

Data Presentation

Age-adjusted rates and counts were presented for two age groups 0-14 and 0-19. Statistics are also presented for early (1990-2000) and late (2001-2014) time periods, as well as for the entire period from 1990-2014.

Population Data

The 1990-2014 New Jersey population estimates for these data tables were provided by the NCI's SEER Program released in December 2016 and downloaded from the SEER website (<http://www.seer.cancer.gov/popdata/download.html>).

Rate Calculation Formulas

A cancer incidence rate is defined as the number of new cases of cancer diagnosed during a specified time period in a specified population. Cancer rates are expressed as cases per 100,000 population. For these data tables, rates were rounded to the nearest tenth. Direct age standardization is necessary in order to make valid comparison of rates between counties. For these data tables, the 2000 U.S. Standard Population (19 age groups-Census P25-1130) was used. For additional information on rate calculation formulas, please refer to the *Childhood Cancer in New Jersey 1979-2013* Technical Notes available at:

http://www.nj.gov/health/ces/documents/childhood_cancer79-13.pdf.

Statistical significance

These data tables display a measure of statistical significance using the 95% confidence interval. Age-adjusted rates that are statistically significantly different from the statewide age-adjusted rates are noted. If a measure is considered statistically significantly different from the null we can be 95% confident that difference is real. The likelihood of obtaining a statistically significant result increases as the number of cases increases. For this reason, age-adjusted rates based on smaller counts are less likely to display statistically significant differences.

Suppression of Rates and Counts under Five

It should also be noted that the annual rates for relatively uncommon cancers tend to fluctuate substantially from year to year because of small numbers of cases. Rates generated from small numbers should be interpreted with caution. For these data tables, incidence rates and counts were suppressed where counts were fewer than five to ensure statistical reliability and patient confidentiality.

**Table A.1- Total Childhood Cancer Incidence
by County and Time Period, Ages 0-14, 1990-2014**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	16.9	7,178	16.5 17.3	16.0	2,961	15.4 16.6	17.6	4,217	17.0 18.1
Atlantic County	18.6	240	16.4 21.2	18.7	103	15.2 22.6	18.6	137	15.6 21.9
Bergen County	16.5	674	15.2 17.7	16.0	280	14.1 17.9	16.9	394	15.2 18.6
Burlington County	17.0	367	15.3 18.8	15.8	152	13.4 18.5	18.0	215	15.7 20.6
Camden County	16.8	460	15.3 18.4	15.8	202	13.7 18.2	17.6	258	15.5 19.9
Cape May County	19.4	82	15.4 24.0	19.6	41	14.1 26.6	19.0	41	13.6 25.8
Cumberland County	17.0	133	14.3 20.2	15.7	54	11.8 20.4	18.2	79	14.4 22.7
Essex County	14.8 *	622	13.7 16.0	14.5	273	12.9 16.4	15.0 *	349	13.5 16.6
Gloucester County	18.0	249	15.8 20.3	15.6	94	12.6 19.1	19.8	155	16.8 23.2
Hudson County	16.7	473	15.2 18.2	17.6	217	15.4 20.2	15.9	256	14.0 18.0
Hunterdon County	16.3	100	13.3 19.9	15.2	41	10.9 20.6	17.2	59	13.1 22.3
Mercer County	15.3	262	13.5 17.3	15.5	116	12.8 18.6	15.1	146	12.8 17.8
Middlesex County	17.3	639	16.0 18.7	17.1	262	15.1 19.3	17.5	377	15.8 19.4
Monmouth County	17.2	538	15.8 18.7	17.6	245	15.4 19.9	16.9	293	15.0 19.0
Morris County	17.5	414	15.9 19.3	16.3	165	13.9 19.0	18.5	249	16.2 20.9
Ocean County	18.5	479	16.9 20.3	17.4	179	15.0 20.2	19.3	300	17.1 21.6
Passaic County	16.9	447	15.4 18.6	14.9	171	12.7 17.3	18.6	276	16.5 21.0
Salem County	14.7	48	10.8 19.5	10.6	16	6.1 17.3	18.2	32	12.5 25.8
Somerset County	18.6	286	16.5 20.8	16.8	106	13.8 20.4	19.6	180	16.8 22.6
Sussex County	17.0	132	14.3 20.2	15.3	56	11.6 19.9	18.4	76	14.5 23.1
Union County	15.8	424	14.3 17.4	12.2 *	140	10.3 14.4	18.5	284	16.4 20.8
Warren County	19.8	105	16.2 24.0	19.6	46	14.4 26.2	20.1	59	15.3 26.0

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.2- Total Childhood Cancer Incidence
by County and Time Period, Ages 0-19, 1990-2014**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	18.8	10,520	18.4 19.1	17.7	4,227	17.2 18.3	19.5	6,293	19.1 20.0
Atlantic County	19.5	334	17.4 21.7	19.1	137	16.0 22.6	19.6	197	17.0 22.6
Bergen County	19.2	1,032	18.1 20.4	18.6	417	16.8 20.5	19.7	615	18.2 21.3
Burlington County	19.2	549	17.6 20.9	17.9	222	15.6 20.4	20.3	327	18.1 22.6
Camden County	19.0	683	17.6 20.5	17.9	292	15.9 20.1	19.8	391	17.9 21.9
Cape May County	19.6	112	16.1 23.6	20.7	56	15.6 26.9	18.6	56	14.1 24.2
Cumberland County	18.5	191	16.0 21.3	18.1	82	14.4 22.5	18.8	109	15.5 22.7
Essex County	16.5 *	910	15.4 17.6	16.2	395	14.6 17.8	16.7 *	515	15.3 18.3
Gloucester County	19.9	370	17.9 22.0	15.9	126	13.3 19.0	22.7	244	20.0 25.8
Hudson County	17.8	666	16.5 19.2	18.7	304	16.7 20.9	17.1 *	362	15.4 19.0
Hunterdon County	17.4	140	14.7 20.6	16.6	56	12.5 21.5	18.1	84	14.4 22.5
Mercer County	16.1 *	380	14.5 17.8	15.3	154	13.0 17.9	16.6 *	226	14.5 18.9
Middlesex County	18.7	931	17.5 20.0	18.8	384	17.0 20.8	18.7	547	17.1 20.3
Monmouth County	19.3	794	18.0 20.7	19.2	341	17.2 21.4	19.3	453	17.5 21.1
Morris County	20.1	617	18.5 21.7	18.8	241	16.5 21.4	21.0	376	18.9 23.2
Ocean County	21.5 **	707	19.9 23.1	19.4	252	17.1 22.0	22.8 **	455	20.7 25.0
Passaic County	18.6	650	17.2 20.1	17.1	255	15.0 19.3	19.9	395	18.0 22.0
Salem County	14.7	65	11.4 18.8	12.5	25	8.1 18.4	16.8	40	12.0 22.9
Somerset County	20.4	400	18.5 22.5	16.8	132	14.0 20.0	22.4	268	19.8 25.3
Sussex County	20.9	213	18.2 23.9	19.7	88	15.7 24.2	21.9	125	18.2 26.1
Union County	17.8	619	16.4 19.2	13.7 *	200	11.9 15.7	20.7	419	18.8 22.8
Warren County	21.7	151	18.4 25.5	21.7	64	16.7 27.7	21.9	87	17.5 27.0

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

** Statistically significantly higher than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.3- Childhood Leukemia Incidence
by County and Time Period, Ages 0-14, 1990-2014**

	1990-2014				1990-2000				2001-2014			
	Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI	
New Jersey	5.2	2,229	5.0	5.4	4.8	897	4.5	5.1	5.6	1,332	5.3	5.9
Atlantic County	5.2	67	4.0	6.6	5.5	31	3.8	7.9	4.9	36	3.4	6.8
Bergen County	5.1	210	4.4	5.9	4.7	84	3.8	5.8	5.4	126	4.5	6.5
Burlington County	5.2	112	4.3	6.2	4.6	45	3.4	6.2	5.6	67	4.4	7.2
Camden County	5.3	144	4.4	6.2	5.1	66	4.0	6.5	5.3	78	4.2	6.7
Cape May County	6.9	29	4.6	9.9	5.7	12	3.0	10.0	8.0	17	4.7	12.9
Cumberland County	5.2	41	3.8	7.1	5.5	19	3.3	8.6	5.1	22	3.2	7.6
Essex County	4.4	187	3.8	5.1	3.9	75	3.1	4.9	4.8	112	4.0	5.8
Gloucester County	5.9	81	4.7	7.3	4.6	28	3.0	6.6	6.9	53	5.1	9.0
Hudson County	5.4	154	4.6	6.3	5.5	69	4.3	7.0	5.3	85	4.2	6.5
Hunterdon County	5.7	35	4.0	8.0	4.8	13	2.5	8.2	6.6	22	4.1	10.0
Mercer County	3.9 *	68	3.1	5.0	4.8	36	3.3	6.6	3.3 *	32	2.3	4.7
Middlesex County	5.6	209	4.9	6.4	5.8	90	4.7	7.1	5.5	119	4.6	6.6
Monmouth County	4.8	151	4.1	5.7	4.6	65	3.6	5.9	5.0	86	4.0	6.2
Morris County	5.5	130	4.6	6.5	5.4	55	4.1	7.0	5.6	75	4.4	7.0
Ocean County	5.2	136	4.4	6.2	5.0	52	3.7	6.6	5.4	84	4.3	6.6
Passaic County	5.6	147	4.7	6.5	4.4	51	3.3	5.8	6.5	96	5.3	8.0
Salem County	4.2	14	2.3	7.1	-	-	-	-	5.7	10	2.7	10.4
Somerset County	5.4	84	4.3	6.7	4.5	29	3.0	6.5	6.0	55	4.5	7.8
Sussex County	6.0	46	4.4	8.1	4.3	16	2.5	7.0	7.8	30	5.3	11.2
Union County	5.7	153	4.8	6.6	3.9	45	2.8	5.2	7.0	108	5.8	8.5
Warren County	5.5	29	3.7	7.8	4.8	11	2.4	8.5	6.1	18	3.6	9.7

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.4- Childhood Leukemia Incidence
by County and Time Period, Ages 0-19**

	1990-2014				1990-2000				2001-2014			
	Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI	
New Jersey	4.7	2,666	4.5	4.9	4.3	1,057	4.1	4.6	5.0	1,609	4.8	5.3
Atlantic County	4.6	79	3.6	5.7	4.7	35	3.3	6.6	4.4	44	3.2	5.9
Bergen County	4.6	248	4.0	5.2	4.3	100	3.5	5.2	4.8	148	4.0	5.6
Burlington County	4.8	138	4.0	5.7	4.3	55	3.3	5.6	5.2	83	4.1	6.4
Camden County	4.9	178	4.2	5.7	4.5	75	3.5	5.6	5.2	103	4.3	6.4
Cape May County	6.2	35	4.3	8.6	5.5	15	3.1	9.1	6.9	20	4.2	10.7
Cumberland County	4.6	48	3.4	6.1	4.8	22	3.0	7.3	4.5	26	2.9	6.6
Essex County	4.2	233	3.7	4.7	3.7	93	3.0	4.5	4.5	140	3.8	5.4
Gloucester County	4.9	91	4.0	6.0	4.0	32	2.7	5.6	5.7	59	4.3	7.3
Hudson County	4.8	182	4.1	5.6	5.1	85	4.1	6.4	4.5	97	3.7	5.5
Hunterdon County	5.1	41	3.6	6.9	5.0	17	2.9	8.0	5.4	24	3.4	8.0
Mercer County	3.6 *	84	2.9	4.4	4.2	43	3.1	5.7	3.1 *	41	2.2	4.2
Middlesex County	4.9	242	4.3	5.5	5.0	103	4.1	6.0	4.8	139	4.0	5.6
Monmouth County	4.3	178	3.7	5.0	3.9	72	3.0	4.9	4.6	106	3.8	5.6
Morris County	4.8	149	4.0	5.6	4.6	61	3.5	5.9	4.9	88	3.9	6.1
Ocean County	4.8	164	4.1	5.6	4.8	64	3.7	6.1	4.9	100	4.0	5.9
Passaic County	5.0	177	4.3	5.8	3.9	60	3.0	5.1	5.9	117	4.9	7.1
Salem County	3.4	15	1.9	5.6	2.4	5	0.8	5.7	4.2	10	2.0	7.8
Somerset County	5.2	104	4.3	6.3	4.0	33	2.8	5.7	5.9	71	4.6	7.5
Sussex County	5.1	52	3.8	6.7	4.3	20	2.6	6.6	6.2	32	4.2	8.7
Union County	5.4	191	4.7	6.2	3.6	54	2.7	4.7	6.7 **	137	5.7	8.0
Warren County	5.0	35	3.5	6.9	4.0	12	2.0	6.9	5.8	23	3.7	8.7

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

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CI- 95% Confidence Interval.

**Table A.5- Childhood Lymphoid Leukemia Incidence
by County and Time Period, Ages 0-14**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	4.0	1,704	3.8 4.2	3.9	724	3.6 4.1	4.1	980	3.8 4.4
Atlantic County	4.0	51	3.0 5.2	4.2	23	2.6 6.2	3.8	28	2.5 5.5
Bergen County	4.1	168	3.5 4.8	4.0	71	3.1 5.0	4.2	97	3.4 5.1
Burlington County	4.0	87	3.2 5.0	3.4	33	2.3 4.7	4.5	54	3.4 5.9
Camden County	4.2	115	3.5 5.0	4.7	60	3.6 6.0	3.8	55	2.8 4.9
Cape May County	4.5	19	2.7 7.1	4.3	9	2.0 8.2	4.8	10	2.3 8.8
Cumberland County	3.8	30	2.6 5.5	4.6	16	2.6 7.5	3.2	14	1.8 5.4
Essex County	3.2 *	134	2.6 3.7	3.2	61	2.4 4.1	3.1	73	2.5 3.9
Gloucester County	4.9	68	3.8 6.2	3.7	23	2.4 5.6	5.8	45	4.2 7.8
Hudson County	4.0	114	3.3 4.8	4.8	60	3.7 6.2	3.4	54	2.5 4.4
Hunterdon County	5.1	31	3.5 7.3	4.4	12	2.3 7.7	5.8	19	3.5 9.1
Mercer County	2.9	50	2.2 3.8	3.6	27	2.3 5.2	2.4 *	23	1.5 3.6
Middlesex County	4.2	158	3.6 5.0	4.3	66	3.3 5.4	4.3	92	3.4 5.2
Monmouth County	3.8	118	3.1 4.5	3.8	54	2.9 5.0	3.7	64	2.9 4.8
Morris County	4.3	101	3.5 5.2	4.3	44	3.1 5.8	4.2	57	3.2 5.5
Ocean County	4.1	107	3.4 5.0	4.1	43	3.0 5.6	4.1	64	3.2 5.2
Passaic County	4.0	107	3.3 4.9	3.7	43	2.7 5.0	4.3	64	3.3 5.6
Salem County	3.3	11	1.7 6.0	-	-	-	-	8	2.0 9.0
Somerset County	4.0	62	3.1 5.1	3.2	21	2.0 5.0	4.5	41	3.2 6.1
Sussex County	4.7	36	3.3 6.6	3.5	13	1.9 6.0	6.0	23	3.8 9.0
Union County	4.3	116	3.5 5.1	2.9	34	2.0 4.0	5.3	82	4.2 6.6
Warren County	3.7	20	2.3 5.8	3.0	7	1.2 6.2	4.4	13	2.3 7.5

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.6- Childhood Lymphoid Leukemia Incidence
by County and Time Period, Ages 0-19**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	3.4	1,929	3.2 3.6	3.3	817	3.1 3.5	3.5	1,112	3.3 3.7
Atlantic County	3.4	58	2.6 4.4	3.4	25	2.2 5.0	3.3	33	2.3 4.7
Bergen County	3.4	187	3.0 4.0	3.4	79	2.7 4.2	3.5	108	2.8 4.2
Burlington County	3.5	100	2.8 4.2	3.2	41	2.3 4.4	3.7	59	2.8 4.8
Camden County	3.7	134	3.1 4.4	3.8	65	3.0 4.9	3.5	69	2.7 4.4
Cape May County	4.2	24	2.7 6.3	4.4	12	2.3 7.7	4.2	12	2.1 7.3
Cumberland County	3.4	35	2.3 4.7	3.7	17	2.1 5.9	3.1	18	1.8 4.9
Essex County	2.8	157	2.4 3.3	2.8	71	2.2 3.5	2.8	86	2.2 3.4
Gloucester County	3.9	72	3.0 4.9	3.2	26	2.1 4.7	4.4	46	3.2 5.9
Hudson County	3.3	127	2.8 4.0	4.1	68	3.2 5.2	2.8	59	2.1 3.6
Hunterdon County	4.4	35	3.0 6.1	4.3	15	2.4 7.2	4.5	20	2.8 7.0
Mercer County	2.5 *	58	1.9 3.2	3.1	32	2.2 4.4	2.0 *	26	1.3 2.9
Middlesex County	3.5	174	3.0 4.1	3.6	75	2.9 4.6	3.4	99	2.8 4.2
Monmouth County	3.1	131	2.6 3.7	3.2	59	2.4 4.1	3.1	72	2.4 3.9
Morris County	3.6	113	3.0 4.3	3.6	49	2.7 4.8	3.6	64	2.7 4.6
Ocean County	3.5	119	2.9 4.2	3.4	47	2.5 4.6	3.5	72	2.7 4.4
Passaic County	3.4	121	2.9 4.1	3.0	47	2.2 4.0	3.8	74	2.9 4.7
Salem County	2.5	11	1.2 4.5	-	-	-	3.4	8	1.5 6.7
Somerset County	3.7	74	2.9 4.6	2.9	24	1.9 4.4	4.1	50	3.1 5.5
Sussex County	3.6	37	2.6 5.0	2.9	14	1.6 4.9	4.5	23	2.8 6.7
Union County	3.9	138	3.3 4.6	2.5	39	1.8 3.5	4.9 **	99	3.9 5.9
Warren County	3.3	23	2.1 4.9	2.7	8	1.1 5.2	3.8	15	2.1 6.2

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

** Statistically significantly higher than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.7- Childhood Central Nervous System Cancer Incidence
by County and Time Period, Ages 0-14**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	3.6	1,527	3.4 3.8	3.5	638	3.2 3.8	3.7	889	3.5 4.0
Atlantic County	4.2	54	3.1 5.5	3.6	20	2.2 5.6	4.6	34	3.2 6.5
Bergen County	3.7	151	3.1 4.3	3.6	63	2.8 4.6	3.7	88	3.0 4.6
Burlington County	3.4	74	2.7 4.3	2.8	27	1.8 4.1	4.0	47	2.9 5.3
Camden County	3.4	94	2.8 4.2	3.1	39	2.2 4.2	3.8	55	2.8 4.9
Cape May County	3.7	16	2.1 6.1	3.8	8	1.6 7.5	3.6	8	1.5 7.1
Cumberland County	4.5	35	3.1 6.2	4.3	15	2.4 7.2	4.6	20	2.8 7.1
Essex County	2.8 *	118	2.3 3.4	3.3	62	2.6 4.3	2.4 *	56	1.8 3.1
Gloucester County	3.9	54	2.9 5.0	3.6	22	2.3 5.5	4.0	32	2.7 5.7
Hudson County	3.2	90	2.6 4.0	4.0	49	3.0 5.4	2.6	41	1.9 3.5
Hunterdon County	3.2	20	1.9 4.9	4.4	12	2.3 7.8	2.2	8	0.9 4.4
Mercer County	4.2	71	3.2 5.2	4.7	35	3.2 6.5	3.8	36	2.6 5.2
Middlesex County	3.8	139	3.2 4.5	4.1	61	3.1 5.2	3.6	78	2.9 4.5
Monmouth County	4.2	131	3.5 5.0	4.5	63	3.5 5.8	3.9	68	3.0 5.0
Morris County	3.7	88	3.0 4.6	3.5	35	2.4 4.8	3.9	53	2.9 5.1
Ocean County	5.0 **	128	4.2 5.9	3.3	34	2.3 4.7	6.1 **	94	4.9 7.5
Passaic County	3.2	84	2.6 4.0	2.4	28	1.6 3.5	3.8	56	2.9 4.9
Salem County	2.2	7	0.9 4.4	-	-	-	3.4	6	1.2 7.5
Somerset County	4.1	63	3.1 5.2	2.9	18	1.7 4.6	4.9	45	3.6 6.5
Sussex County	3.4	27	2.3 5.0	3.5	13	1.9 6.0	3.3	14	1.8 5.5
Union County	2.3 *	62	1.8 3.0	1.9 *	21	1.2 2.9	2.7	41	1.9 3.6
Warren County	3.9	21	2.4 6.0	5.0	12	2.6 8.8	2.9	9	1.3 5.6

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

** Statistically significantly higher than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

**Table A.8- Childhood Central Nervous System Cancer Incidence
by County and Time Period, Ages 0-19**

	1990-2014			1990-2000			2001-2014		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	3.3	1,870	3.2 3.5	3.2	761	2.9 3.4	3.5	1,109	3.3 3.7
Atlantic County	3.8	65	2.9 4.8	3.5	25	2.2 5.1	4.1	40	2.9 5.5
Bergen County	3.3	177	2.8 3.8	3.1	72	2.4 3.9	3.3	105	2.7 4.0
Burlington County	3.3	95	2.7 4.0	2.9	36	2.0 4.0	3.7	59	2.8 4.8
Camden County	3.0	109	2.5 3.6	2.7	45	2.0 3.6	3.3	64	2.5 4.2
Cape May County	3.1	18	1.9 5.0	2.9	8	1.2 5.6	3.3	10	1.6 6.0
Cumberland County	4.3	45	3.2 5.8	4.2	19	2.5 6.5	4.5	26	2.9 6.6
Essex County	2.5 *	139	2.1 2.9	2.8	69	2.2 3.6	2.3 *	70	1.8 2.9
Gloucester County	3.7	70	2.9 4.7	3.4	27	2.2 4.9	4.0	43	2.9 5.4
Hudson County	2.9	109	2.4 3.5	3.6	58	2.7 4.7	2.4 *	51	1.8 3.2
Hunterdon County	3.3	27	2.2 4.8	4.0	14	2.2 6.8	2.7	13	1.4 4.6
Mercer County	3.8	89	3.1 4.7	4.0	40	2.8 5.4	3.7	49	2.7 4.9
Middlesex County	3.6	178	3.1 4.2	3.8	77	3.0 4.8	3.5	101	2.8 4.2
Monmouth County	3.9	161	3.3 4.5	4.2	75	3.3 5.2	3.7	86	2.9 4.6
Morris County	3.3	102	2.7 3.9	3.2	42	2.3 4.3	3.3	60	2.5 4.2
Ocean County	4.5 **	150	3.8 5.2	2.8	38	2.0 3.9	5.5 **	112	4.6 6.7
Passaic County	3.0	106	2.5 3.7	2.3	34	1.6 3.1	3.7	72	2.9 4.6
Salem County	2.1	9	0.9 3.9	-	-	-	3.0	7	1.2 6.1
Somerset County	4.0	79	3.1 5.0	3.0	23	1.9 4.5	4.6	56	3.5 6.0
Sussex County	3.4	35	2.4 4.7	3.7	17	2.1 5.9	3.1	18	1.8 4.9
Union County	2.4 *	83	1.9 3.0	1.9 *	27	1.2 2.7	2.8	56	2.1 3.6
Warren County	3.4	24	2.2 5.1	4.2	13	2.2 7.2	2.7	11	1.3 4.8

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

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** Statistically significantly higher than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.

Table A.9- Incidence of Selected Cancers by County, Ages 0-14, 1990-2014

	Lymphomas				Hodgkin Lymphomas				Non-Hodgkin Lymphomas				Neuroblastoma			
	Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI	
New Jersey	2.0	820	1.8	2.1	0.7	278	0.6	0.7	0.7	311	0.7	0.8	1.2	525	1.1	1.3
Atlantic County	2.4	31	1.6	3.4	0.9	11	0.4	1.5	1.0	13	0.5	1.7	1.2	15	0.6	1.9
Bergen County	2.0	81	1.6	2.5	0.7	28	0.5	1.0	0.8	33	0.6	1.1	1.0	40	0.7	1.3
Burlington County	1.8	39	1.3	2.4	0.5	12	0.3	1.0	0.9	20	0.6	1.4	1.3	28	0.9	1.9
Camden County	1.9	51	1.4	2.5	0.6	16	0.3	1.0	0.8	22	0.5	1.2	1.3	36	0.9	1.8
Cape May County	1.6	7	0.6	3.3	-	-	-	-	-	-	-	-	1.4	6	0.5	3.1
Cumberland County	2.1	16	1.2	3.4	0.7	5	0.2	1.5	0.6	5	0.2	1.5	1.1	9	0.5	2.2
Essex County	2.1	88	1.7	2.6	0.8	33	0.6	1.1	0.8	31	0.5	1.1	1.0	44	0.7	1.4
Gloucester County	2.0	28	1.3	2.9	0.5	7	0.2	1.0	0.9	12	0.4	1.5	1.6	21	1.0	2.4
Hudson County	1.9	50	1.4	2.4	0.7	18	0.4	1.1	0.5	14	0.3	0.9	1.1	36	0.8	1.6
Hunterdon County	1.3	8	0.5	2.5	-	-	-	-	-	-	-	-	1.1	6	0.4	2.4
Mercer County	2.1	35	1.4	2.9	0.8	14	0.5	1.4	0.8	14	0.5	1.4	1.3	22	0.8	1.9
Middlesex County	2.0	72	1.6	2.5	0.5	17	0.3	0.8	0.9	31	0.6	1.2	1.3	49	0.9	1.7
Monmouth County	2.1	68	1.7	2.7	0.8	27	0.6	1.2	0.7	21	0.4	1.0	1.3	38	0.9	1.7
Morris County	1.9	46	1.4	2.6	0.7	16	0.4	1.1	0.8	19	0.5	1.3	1.4	33	1.0	2.0
Ocean County	1.8	46	1.3	2.4	0.8	19	0.5	1.2	0.5	13	0.3	0.9	1.4	37	1.0	1.9
Passaic County	1.8	47	1.4	2.5	0.6	16	0.4	1.0	0.6	15	0.3	1.0	1.0	27	0.6	1.4
Salem County	1.5	5	0.5	3.4	-	-	-	-	-	-	-	-	-	-	-	-
Somerset County	2.2	34	1.5	3.1	0.8	12	0.4	1.4	0.8	12	0.4	1.4	1.5	23	0.9	2.2
Sussex County	2.0	16	1.1	3.3	0.9	7	0.3	1.8	0.7	6	0.3	1.6	1.4	10	0.7	2.5
Union County	1.6	42	1.1	2.1	0.3	9	0.2	0.7	0.7	19	0.4	1.1	1.0	29	0.7	1.5
Warren County	1.9	10	0.9	3.5	-	-	-	-	-	-	-	-	2.3	12	1.2	4.0

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

CI- 95% Confidence Interval.

Table A.9(cont'd)- Incidence of Selected Cancers by County, Ages 0-14, 1990-2014

	Renal tumors				Bone Tumors				Soft-Tissue Sarcomas				Germ Cell Tumors			
	Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI	
New Jersey	0.9	387	0.8	1.0	0.8	324	0.7	0.9	1.1	485	1.0	1.2	0.6	240	0.5	0.6
Atlantic County	1.6	20	0.9	2.4	0.9	11	0.4	1.5	1.6	20	1.0	2.4	0.5	6	0.2	1.0
Bergen County	0.7	29	0.5	1.0	0.9	39	0.7	1.3	0.8	34	0.6	1.2	0.4	18	0.3	0.7
Burlington County	1.2	25	0.8	1.7	0.5	12	0.3	1.0	1.2	26	0.8	1.8	1.0	21	0.6	1.5
Camden County	0.7	20	0.4	1.1	0.5	15	0.3	0.9	1.2	34	0.9	1.7	0.5	15	0.3	0.9
Cape May County	2.4 **	10	1.2	4.4	-	-	-	-	1.2	5	0.4	2.8	-	-	-	-
Cumberland County	-	-	-	-	0.6	5	0.2	1.5	1.5	12	0.8	2.7	0.7	5	0.2	1.5
Essex County	0.8	33	0.5	1.1	0.7	27	0.4	1.0	1.3	56	1.0	1.7	0.6	25	0.4	0.9
Gloucester County	0.7	10	0.4	1.4	0.7	10	0.3	1.3	1.5	21	0.9	2.3	0.5	7	0.2	1.1
Hudson County	0.7	21	0.4	1.1	1.1	28	0.7	1.6	0.8	24	0.5	1.2	0.8	21	0.5	1.2
Hunterdon County	-	-	-	-	-	-	-	-	1.3	8	0.6	2.6	-	-	-	-
Mercer County	0.9	16	0.5	1.5	0.4	7	0.2	0.8	0.5	9	0.2	1.0	0.3	6	0.1	0.8
Middlesex County	0.9	33	0.6	1.2	0.7	24	0.4	1.0	0.9	34	0.6	1.3	0.5	19	0.3	0.8
Monmouth County	0.8	24	0.5	1.2	0.9	30	0.6	1.3	1.0	32	0.7	1.5	0.4	13	0.2	0.7
Morris County	1.2	29	0.8	1.8	0.9	21	0.5	1.4	0.9	22	0.6	1.4	0.5	12	0.3	0.9
Ocean County	1.0	27	0.7	1.5	0.8	19	0.5	1.2	1.7 *	44	1.2	2.3	0.7	17	0.4	1.1
Passaic County	1.2	32	0.8	1.7	0.7	17	0.4	1.1	1.3	33	0.9	1.8	0.6	16	0.3	1.0
Salem County	-	-	-	-	-	-	-	-	1.5	5	0.5	3.6	-	-	-	-
Somerset County	0.8	13	0.4	1.4	0.8	12	0.4	1.4	1.1	17	0.6	1.8	0.4	6	0.1	0.9
Sussex County	0.9	7	0.4	1.9	0.9	7	0.3	1.8	-	-	-	-	-	-	-	-
Union County	0.9	24	0.6	1.3	1.1	28	0.7	1.6	1.3	35	0.9	1.8	0.7	20	0.5	1.2
Warren County	-	-	-	-	1.3	7	0.5	2.7	1.7	9	0.8	3.2	0.9	5	0.3	2.2

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

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Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

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CI- 95% Confidence Interval.

Table A.10- Incidence of Selected Cancers by County, Ages 0-19, 1990-2014

	Lymphomas			Hodgkin lymphomas			Non-Hodgkin lymphomas			Neuroblastoma		
	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI	Rate	Cases	CI
New Jersey	3.1	1,696	2.9 3.2	1.5	827	1.4 1.6	1.0	569	0.9 1.1	0.9	539	0.9 1.0
Atlantic County	3.6	62	2.8 4.7	1.9	32	1.3 2.6	1.2	20	0.7 1.8	0.9	15	0.5 1.4
Bergen County	3.3	177	2.9 3.9	1.7	91	1.4 2.1	1.2	63	0.9 1.5	0.7	40	0.5 1.0
Burlington County	2.9	84	2.3 3.6	1.4	40	1.0 1.9	1.3	36	0.9 1.7	1.0	28	0.7 1.4
Camden County	3.0	107	2.5 3.6	1.4	51	1.1 1.9	1.0	36	0.7 1.4	1.0	37	0.7 1.4
Cape May County	2.0	12	1.1 3.6	1.0	6	0.4 2.2	0.9	5	0.3 2.0	1.3	7	0.5 2.6
Cumberland County	2.5	26	1.7 3.7	1.3	13	0.7 2.2	0.7	7	0.3 1.4	0.9	9	0.4 1.6
Essex County	3.0	164	2.6 3.5	1.5	80	1.2 1.9	1.0	52	0.7 1.3	0.8	44	0.6 1.0
Gloucester County	2.9	55	2.2 3.8	1.2	22	0.7 1.8	1.1	20	0.7 1.6	1.2	21	0.7 1.8
Hudson County	2.9	106	2.4 3.5	1.5	53	1.1 1.9	0.9	32	0.6 1.3	0.9	37	0.6 1.2
Hunterdon County	2.8	22	1.7 4.2	1.7	13	0.9 2.8	0.9	7	0.3 1.8	1.0	7	0.4 2.0
Mercer County	2.7	64	2.1 3.4	1.4	34	1.0 2.0	0.8	18	0.5 1.2	1.0	23	0.6 1.5
Middlesex County	3.1	152	2.6 3.6	1.3	67	1.0 1.7	1.1	52	0.8 1.4	1.0	50	0.7 1.3
Monmouth County	3.2	132	2.7 3.8	1.7	71	1.4 2.2	0.9	38	0.7 1.3	1.0	38	0.7 1.3
Morris County	3.3	100	2.7 4.0	1.6	47	1.1 2.1	1.3	39	0.9 1.8	1.2	36	0.8 1.6
Ocean County	3.2	102	2.6 3.9	1.8	55	1.3 2.3	1.0	30	0.6 1.4	1.1	39	0.8 1.5
Passaic County	3.2	108	2.6 3.8	1.6	53	1.2 2.0	0.9	32	0.6 1.3	0.7	27	0.5 1.0
Salem County	2.2	10	1.1 4.1	-	-	-	-	-	-	-	-	-
Somerset County	3.0	58	2.3 3.9	1.4	26	0.9 2.0	1.1	21	0.7 1.7	1.1	23	0.7 1.7
Sussex County	3.9	40	2.8 5.3	2.2	22	1.3 3.3	1.4	14	0.7 2.3	1.1	11	0.6 2.0
Union County	2.8	96	2.3 3.5	1.1	36	0.8 1.5	1.2	40	0.8 1.6	0.8	31	0.6 1.2
Warren County	2.8	19	1.7 4.3	1.6	11	0.8 2.9	-	-	-	1.7	12	0.9 3.0

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

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Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

CI- 95% Confidence Interval.

Table A.10 (cont'd)- Incidence of Selected Cancers by County, Ages 0-19, 1990-2014

	Renal tumors				Bone Tumors				Soft-Tissue Sarcomas				Germ Cell Tumors			
	Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI		Rate	Cases	CI	
New Jersey	0.7	422	0.7	0.8	1.0	556	0.9	1.1	1.3	722	1.2	1.4	1.1	616	1.0	1.2
Atlantic County	1.2	21	0.8	1.9	1.2	20	0.7	1.8	1.5	26	1.0	2.2	0.7	12	0.4	1.2
Bergen County	0.7	37	0.5	0.9	1.2	64	0.9	1.5	1.1	61	0.9	1.5	1.1	56	0.8	1.4
Burlington County	0.9	26	0.6	1.3	1.0	29	0.7	1.5	1.4	39	1.0	1.9	1.4	40	1.0	1.9
Camden County	0.7	24	0.4	1.0	0.7	26	0.5	1.1	1.3	48	1.0	1.8	1.0	34	0.7	1.3
Cape May County	1.8 **	10	0.9	3.3	0.8	5	0.3	2.0	1.4	8	0.6	2.7	1.0	6	0.4	2.3
Cumberland County	-	-	-	-	1.0	10	0.5	1.8	1.4	15	0.8	2.4	1.3	13	0.7	2.2
Essex County	0.6	35	0.4	0.8	1.0	52	0.7	1.3	1.4	79	1.1	1.8	1.2	64	0.9	1.5
Gloucester County	0.6	11	0.3	1.1	1.0	19	0.6	1.6	1.6	30	1.1	2.3	1.1	20	0.7	1.7
Hudson County	0.6	22	0.3	0.8	1.1	40	0.8	1.6	1.0	39	0.7	1.4	1.2	43	0.9	1.6
Hunterdon County	0.6	5	0.2	1.5	-	-	-	-	1.1	9	0.5	2.1	0.8	6	0.3	1.6
Mercer County	0.8	19	0.5	1.3	0.6	14	0.3	1.0	0.6 *	14	0.3	1.0	0.9	23	0.6	1.4
Middlesex County	0.7	34	0.5	0.9	0.9	46	0.7	1.2	1.1	52	0.8	1.4	1.1	57	0.9	1.5
Monmouth County	0.6	25	0.4	0.9	1.1	45	0.8	1.4	1.2	50	0.9	1.6	1.1	43	0.8	1.4
Morris County	1.0	31	0.7	1.4	1.0	31	0.7	1.4	1.2	36	0.8	1.6	1.4	41	1.0	1.9
Ocean County	0.8	28	0.5	1.2	1.1	34	0.7	1.5	1.9 **	64	1.5	2.5	1.4	43	1.0	1.8
Passaic County	0.9	33	0.6	1.3	0.9	32	0.6	1.3	1.4	49	1.0	1.9	1.0	36	0.7	1.4
Salem County	-	-	-	-	-	-	-	-	1.6	7	0.6	3.3	-	-	-	-
Somerset County	0.6	13	0.3	1.1	0.8	16	0.5	1.3	1.2	24	0.8	1.8	1.3	24	0.8	2.0
Sussex County	1.0	10	0.5	1.8	1.2	13	0.7	2.1	1.2	12	0.6	2.1	0.6	6	0.2	1.3
Union County	0.8	27	0.5	1.1	1.2	41	0.9	1.6	1.4	47	1.0	1.8	1.2	40	0.8	1.6
Warren County	-	-	-	-	1.6	11	0.8	2.8	1.6	11	0.8	2.8	1.3	9	0.6	2.5

Average annual rates are per 100,000 and age-adjusted to the 2000 US population standard.

Classification of Childhood Cancer - ICCC site recode ICD-O-3/WHO 2008.

- Counts and percents are suppressed when fewer than 5 cases to ensure confidentiality and statistical reliability.

Data source: New Jersey State Cancer Registry, New Jersey Department of Health.

* Statistically significantly lower than the New Jersey state incidence during the same time period.

** Statistically significantly higher than the New Jersey state incidence during the same time period.

CI- 95% Confidence Interval.