

## Massachusetts Kindergarten Immunization Survey Results by County 2016-2017

County	Number of Schools*	Number of Children	5 DTaP	4 Polio	2 MMR	3 Hep B	2 Varicella	Series Complete	Medical Exemptions	Religious Exemptions	Total Exemptions	Un-immunized	Gap
Barnstable	36	1,660	97%	97%	96%	97%	95%	93%	0.2%	2.8%	3.1%	1.6%	3.7%
Berkshire	40	1,160	94%	95%	95%	96%	95%	91%	0.3%	2.6%	2.8%	1.0%	6.1%
Bristol	105	6,033	98%	99%	98%	99%	98%	97%	0.2%	1.0%	1.2%	0.5%	1.8%
Dukes	7	163	93%	94%	93%	92%	93%	90%	0.6%	8.6%	9.2%	3.7%	0.6%
Essex	175	8,618	96%	97%	96%	98%	96%	94%	0.3%	0.8%	1.1%	0.5%	5.0%
Franklin	28	682	94%	94%	93%	94%	93%	91%	0.6%	4.0%	4.5%	1.8%	5.0%
Hampden	107	5,274	96%	97%	97%	98%	96%	95%	0.2%	1.3%	1.5%	0.6%	3.4%
Hampshire	33	1,244	97%	96%	95%	96%	94%	92%	0.3%	3.7%	4.0%	1.3%	3.6%
Middlesex	306	17,285	98%	98%	98%	98%	97%	96%	0.3%	0.7%	1.0%	0.4%	2.8%
Nantucket	3	112	88%	88%	87%	92%	83%	83%	0.0%	4.5%	4.5%	2.7%	12.5%
Norfolk	147	7,597	99%	99%	99%	99%	99%	98%	0.4%	0.8%	1.1%	0.2%	1.4%
Plymouth	84	5,398	97%	98%	98%	99%	98%	97%	0.2%	0.9%	1.1%	0.3%	2.4%
Suffolk	138	6,119	86%	87%	85%	92%	84%	81%	0.1%	0.2%	0.3%	0.1%	18.7%
Worcester	157	8,764	96%	96%	96%	98%	96%	94%	0.4%	1.0%	1.3%	0.5%	4.9%
<b>State Total</b>	<b>1,366</b>	<b>70,109</b>	<b>96%</b>	<b>97%</b>	<b>96%</b>	<b>98%</b>	<b>96%</b>	<b>94%</b>	<b>0.3%</b>	<b>1.0%</b>	<b>1.3%</b>	<b>0.5%</b>	<b>4.6%</b>

\* Number of schools is for all schools in the county - data only represents those schools that responded to the survey

**5 DTaP** 5 doses of DTaP (diphtheria, tetanus and pertussis) vaccine. Students with 4 doses of DTaP vaccine with the last dose on or after their 4th birthday are also included in this category.

**4 Polio** 4 doses of polio vaccine. Students with 3 doses of polio vaccine with the last dose on or after their 4th birthday are also included in this category.

**2 MMR** 2 doses of MMR (measles, mumps and rubella) vaccine. Students with laboratory evidence of immunity to all three diseases are also included in this category.

**3 Hep B** 3 doses of hepatitis B vaccine. Students with laboratory evidence of immunity are also included in this category.

**2 Varicella** 2 doses of varicella vaccine. Students with a reliable history of chickenpox disease or laboratory evidence of immunity are also included in this category.

**Series** 5 DTaP + 4 Polio + 2 MMR + 3 Hep B + 2 Varicella

**Unimmunized** Students with an exemption with no documented vaccines

**Gap** Students that have neither all vaccines required for school nor an exemption

•All data are self-reported by the schools and discrepancies may exist. The Immunization Program continues to work with schools to resolve discrepancies and update immunization data, when possible.

•Data are collected in the fall, but immunization data are often updated throughout the year and rates (during the same school year) may be higher than reported due to additional children receiving immunizations or bringing records to school. Also, the student body is dynamic and as students arrive and leave the school, the immunization rates are impacted.

•Children are allowed a medical or religious exemption to one or more vaccines.

•Children without the required number of doses of vaccine do not necessarily have an exemption on file.

•Children without a record of vaccination, but with serologic proof of immunity to certain diseases (measles, mumps, rubella, hepatitis b and varicella), meet school entry requirements, and may be counted as vaccinated.

•Data for 16 schools are omitted from this report due to discrepancies that were unable to be resolved by the Immunization Program.