

# **Annual School and Childcare Immunization Survey Results**

**2008**

**Kentucky Cabinet for Health and Family Services  
Department for Public Health  
Kentucky Immunization Program**

## Table of Contents

### Standard Annual Report

○ Chart Labels.....	3
○ Introduction.....	4
○ Methods.....	4
○ Results.....	5
○ Discussion.....	6
○ Conclusion.....	6
○ References.....	7
Appendices.....	8

- Coverage Rate Tables
  - Childcare
  - Kindergarten
  - Sixth Grade
- Childcare Maps
  - Missing Certificates
  - Medical Exemptions
  - Religious Exemptions
- Kindergarten Maps
  - Missing Certificates
  - Medical Exemptions
  - Religious Exemptions
- Sixth Grade Maps
  - Missing Certificates
  - Medical Exemptions
  - Religious Exemptions
- County Response Rate Tables by Grade and County
  - Childcare
  - Kindergarten
  - Sixth Grade

## Chart Labels

The following labels are for charts and tables used throughout this report:

- # of Students: Number of children at the school or childcare in that grade/group
- # Cert: Number children in that grade/group with Current, Provisional or Expired Certificates
- Miss. Cert: Number of children with a missing certificate (no certificate on file at the school or childcare)
- Med Ex: Number of children with a Commonwealth of Kentucky Certificate of Medical Exemption on file at the school or childcare
- Rel Ex: Number of children with a Commonwealth of Kentucky Certificate of Religious Exemption on file at the school or childcare
- DTaP/DTP/DT: Number of children with 4 or more doses of Diphtheria, Tetanus, Pertussis vaccine
- Polio: Number of children with 3 or more doses of Poliovirus vaccine
- MMR: Number of children with 1 dose of Measles, Mumps, Rubella vaccine plus 1 dose of a Measles containing vaccine
- Hib: Number of children with 1 or more doses of *Haemophilus influenzae* type b vaccine
- HepB: Number of children with 3 or more doses of Hepatitis B vaccine
- Varicella: Number of children with 1 or more doses of Varicella vaccine
- Td Booster: Number of sixth grade children with a Tetanus Diphtheria booster after 12 years of age.

## Introduction

The Kentucky Immunization Program (KIP) conducts an Annual School and Childcare Immunization Survey to assess the vaccine coverage of children in accordance with Kentucky Administrative Regulation 902 KAR 2:055 and Kentucky Revised Statute KRS 158.037. The survey targets all Kentucky sixth grade students, kindergarten students, and children in childcare facilities (daycare, head start, preschool, excluding before and after school programs). The purpose of this report is to disseminate the results of this survey and offer recommendations to improve rates of immunization in Kentucky in order to reduce illness and death from vaccine-preventable diseases (VPDs).

## Methods

The 2008 Annual Immunization School and Childcare Survey was distributed to each local health department (LHD) by KIP in late July in paper format. The LHDs distributed the surveys to every school with at least one sixth grade class and/or kindergarten class. The LHDs also distributed the surveys to every school or childcare with at least one childcare site (head start class, preschool class, or daycare) with children enrolled that are 19-60 months of age. In 2008, each of these students were assessed for whether or not they had an immunization certificate on file, whether or not they had an expired certificate and number of doses of each age appropriate vaccine they received. Kentucky assesses each child for 4 or more doses of DTaP, 3 or more doses of Polio, 1 dose of MMR plus one dose of a Measles containing vaccine, 1 or more doses of Hib, 3 or more doses of Hepatitis B, 1 dose of Varicella or a history of chicken pox disease, and 1 Td Booster (for students older than 10 years). Each immunization certificate of a child that qualified by grade or age to be included in the assessment was reviewed and immunization data was documented on the survey. The survey does not collect individual immunization information for each child, but rather aggregated totals for the whole grade or group at that school or childcare.

The original deadline to complete the surveys was November 30, 2008. Completed surveys were returned to the LHDs which in-turn forwarded them back to KIP for data entry, analysis and reporting. Each survey was reviewed by KIP to ensure reliability and validity. Schools and daycares that submitted surveys with omitted information or invalid information were contacted via phone and asked for a correction or to resubmit the survey. Each school or childcare that received a follow-up call was contacted at least twice until KIP received a completed survey or confirmation that they were excluded from the assessment due to a closing or that they had reported under a different name. After follow-up, the last surveys and corrections to be included in the analysis were received in April 2008.

## Results

Table 1 gives an overview of the total response rate for the survey in school year 2007-2008, compared to school year 2008-2009. The response rate did not vary much from one year to the next for sixth grade and kindergarten. In contrast, there was a marked decline in the response rate from childcares. There was a slight increase in the number of schools or childcares that reported for the survey this year. This could be attributed to increased follow-up.

**Table 1. Annual School and Childcare Immunization Survey Response Rate**

Assessment School Year		6th grade		Kindergarten		Childcare	
		No.	%	No.	%	No.	%
2008-2009	Number of Schools/Facilities	580	84.3	935	93.7	1998	62.2
	Number of Children	50343	93.8	53750	95.1	80930	Data not available
2007-2008	Number of Schools/Facilities	550	88.3	885	91.1	1949	94.1
	Number of Children	49987	92.2	52624	92.4	79061	Data not available

\*This table displays the characteristics of only those schools and daycares that were included in the assessment.

Table 2 shows the overall number of children who have received the required number of doses of each vaccine in Kentucky and the number of children with medical or religious exemptions in 2008. Children who are not up-to-date on required immunizations are given a 30 day grace period to become up-to-date or to begin a vaccine series towards becoming up-to-date. Medical and religious exemptions must be indicated on a Commonwealth of Kentucky Certificate of Medical Exemption or a Commonwealth of Kentucky Certificate of Religious Exemption respectively, and must be signed by a provider. Kentucky does allow medical and religious exemptions for single antigens as well as all vaccines.

**Table 2. Children who have School/Childcare Entry Up-to-Date Immunizations and Exemptions Status, 2008**

Type of School/Facility		Total # of Students	# Cert.*	Miss. Cert.	Med. Ex.	Rel. Ex.	4+DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Varicella	Td Booster
Childcare	# Students	80930	78050	2656	182	621	76673	75316	64010	76813	75677	74899	NA
	%	100.0%	96.4%	3.3%	0.2%	0.8%	94.7%	93.1%	79.1%	94.9%	93.5%	92.5%	NA
Kindergarten	# Students	53758	50150	3299	99	174	49704	50065	48733	48750	49670	49661	NA
	%	100.0%	93.3%	6.1%	0.2%	0.3%	92.5%	93.1%	90.7%	90.7%	92.4%	92.4%	NA
Sixth grade	# Students	50343	49341	766	103	105	48960	49310	49300	47940	49224	46855	34653
	%	100.0%	98.0%	1.5%	0.2%	0.2%	97.3%	97.9%	97.9%	95.2%	97.8%	93.1%	68.8%

\*Number of Certificates includes Current, Provisional and Expired Certificates.

Abbreviations in this chart are explained in the Chart Labels Section

KIP mapped the rates of medical and religious exemptions and missing certificates by grade or group for each county using ArcGIS. Maps of the percentage of response to the survey were also created. These maps are located in the appendix.

Also located in the appendix are tables of county coverage rates by grade or group for each antigen assessed. Table 3 can be used to compare each county based on coverage level to other counties in Kentucky. When using the statistics comparison table, please note that acceptable immunization coverage levels for all antigens according to the Centers for Disease Control and Prevention (CDC) are 90%.

**Table 3. Annual School and Childcare Immunization Survey Statistics Comparison, 2008**

		# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR				Td Booster
									+ 1M	1+ Hib	3 Hep B	Vari.	
Childcare	Average	698	97.8%	1.9%	0.2%	0.6%	92%	94%	82%	96%	95%	93%	
	Minimum	14	84.3%	0.0%	0.0%	0.0%	69%	69%	33%	75%	77%	71%	
	Maximum	17074	100.0%	11.9%	4.9%	12.7%	100%	100%	100%	100%	100%	100%	
Kindergarten	Average	456	97.4%	2.0%	0.2%	0.3%	97%	97%	96%	96%	97%	97%	
	Minimum	31	75.5%	0.0%	0.0%	0.0%	74%	75%	71%	38%	74%	74%	
	Maximum	9300	100.0%	24.8%	3.8%	1.6%	100%	100%	100%	100%	100%	100%	
Sixth Grade	Average	430	98.8%	0.8%	0.2%	0.2%	98%	99%	99%	97%	98%	95%	79%
	Minimum	24	86.0%	0.0%	0.0%	0.0%	86%	86%	86%	54%	83%	25%	1%
	Maximum	8937	100.0%	14.0%	3.6%	1.3%	100%	100%	100%	100%	100%	100%	100%

Discussion

Vaccine rates are above 90% for all vaccines except for MMR in childcare students and Td Booster in sixth grade students. The childcare survey assesses only children age 19 months to 5 years of age however, the second Measles dose isn't required for school entry until 49 months of age. This percentage reflects the fact that not all of the childcare children are required to receive their second dose. DTaP and Hib are not age-appropriate for children in the 6<sup>th</sup> grade. If a child has not received enough doses of either of these vaccines before they are 6 or 5 years of age respectively, then it is too late to try to get that child up-to-date on those vaccines. At that point, there is nothing that schools can do to increase the rates of up-to-date children concerning these vaccines.

There are steps that schools and childcares can take to increase the number of students that are up-to-date. Schools can keep immunization record systems neat and organized to make it easier to find files and identify when a child needs an immunization. Schools and daycares can also implement a tickler filing system and organize files based on which children will need an updated vaccine by date. School administrators can also check student records regularly for children not up-to-date on their immunizations and have a system in place to get that child immunized. For school and childcares that have electronic records, alerts can be set up to alarm school staff when a child is no longer current on immunizations.

Conclusion

It is very important to have school entry regulations regarding immunizations. As of the 2001 – 2002 school year, all 50 states, the District of Columbia, and Puerto Rico have school entry requirements. “School immunization requirements have not only been highly successful in reducing the incidence of disease but also in improving immunization levels in school children.”<sup>1</sup> In a 2-year effort, Cincinnati primary school system was able to increase immunization levels of school-age children from 60% to 91% by following a program based upon their legal authority to require immunizations.<sup>2</sup> “Laws requiring that children be immunized before they begin school have contributed to a 98% to 100% reduction in the incidence of (VPDs).<sup>3</sup> According to Hinman, Orenstein, Williamson, and Darrington (2002), policy makers must balance the need to provide individual choice with the need to protect children’s health.<sup>1</sup>

Assessing the status of children entering childcare facilities and schools is a notable task. In a study of different immunization level techniques, the Denver Elementary School System found that a school immunization record review with special attention to unimmunized children increased results of a school-based immunization clinic.<sup>2</sup> School administrators, medical providers and parents must work together to ensure that children are safe from morbidity and mortality caused by VPDs. These efforts will continue to keep children enrolled in school and childcare in Kentucky up-to-date with Kentucky school required immunizations (KRS 214:034, 902 KAR 2:060), as well as Advisory Committee on Immunization Practices (ACIP) Recommendations.

### References

1. Hinman, A.R.; Orenstein, W.A.; Williamson, D.E.; Darrington, D. (2002). *Childhood Immunizations: Laws that Work*. The Journal of Law, Medicine, & Ethics. Supp. Vol. 30, No. 3. pp. 122-127.
2. Anthony, N.; Reed, M, Leff; A.M, Huffer, J.; Stephens, B. (1977). *Immunization: Public Health Programming Through Law Enforcement*. American Journal of Public Health. Vol. 67, No. 8. pp. 763-764.
3. Salmon, D. A.; Omer, S. B.; Moulton, L. H.; Stokley, S.; deHart, M. P.; Lett, S.; Norman, B.; Teret, S.; Halsey, N. A. (2005). *Exemptions to School Immunization Requirements: The Role of School-Level Requirements, Policies, and Procedures*. American Journal of Public Health. Vol. 95, No. 3. pp. 436-440.

## Appendix

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Childcare 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Adair	338	98.5%	1.2%	0.3%	0.0%	93%	97%	85%	95%	95%	92%
Allen	372	99.2%	0.5%	0.0%	0.3%	96%	98%	93%	98%	97%	97%
Anderson	501	98.8%	0.4%	0.6%	0.2%	97%	97%	94%	98%	96%	97%
Ballard	166	98.8%	1.2%	0.0%	0.0%	96%	98%	58%	98%	97%	96%
Barren	726	99.7%	0.0%	0.0%	0.3%	87%	97%	88%	99%	98%	95%
Bath	122	99.2%	0.8%	0.0%	0.0%	98%	98%	98%	99%	98%	98%
Bell	135	100.0%	0.0%	0.0%	0.0%	96%	98%	74%	99%	98%	96%
Boone	3039	96.8%	2.4%	0.2%	0.6%	95%	96%	73%	96%	95%	95%
Bourbon	464	98.5%	0.6%	0.2%	0.6%	91%	96%	72%	98%	97%	93%
Boyd	1449	97.4%	1.9%	0.6%	0.2%	78%	76%	75%	92%	95%	93%
Boyle	427	96.7%	3.0%	0.0%	0.2%	96%	96%	90%	96%	95%	95%
Breathitt	245	98.8%	1.2%	0.0%	0.0%	92%	92%	67%	93%	92%	92%
Breckinridge	327	100.0%	0.0%	0.0%	0.0%	98%	99%	90%	100%	99%	98%
Bullitt	1243	94.4%	5.3%	0.2%	0.1%	88%	90%	83%	92%	89%	90%
Butler	168	99.4%	0.6%	0.0%	0.0%	95%	99%	89%	93%	97%	96%
Caldwell	212	99.5%	0.5%	0.0%	0.0%	99%	100%	100%	99%	98%	99%
Calloway	529	84.3%	2.6%	0.2%	12.7%	94%	82%	49%	93%	96%	84%
Campbell	2190	98.2%	1.4%	0.1%	0.3%	96%	97%	79%	98%	97%	95%
Carlisle	116	95.7%	2.6%	0.0%	1.7%	87%	92%	66%	96%	94%	91%
Carroll	18	100.0%	0.0%	0.0%	0.0%	94%	100%	33%	100%	100%	94%
Carter	322	95.0%	4.3%	0.6%	0.0%	93%	95%	90%	95%	93%	92%
Casey	201	100.0%	0.0%	0.0%	0.0%	99%	100%	97%	100%	98%	98%
Christian	1489	98.4%	1.3%	0.1%	2.4%	93%	96%	75%	93%	96%	93%
Clark	743	90.6%	8.9%	0.1%	0.4%	81%	87%	76%	87%	87%	83%
Clay	345	93.3%	6.7%	0.0%	0.0%	84%	91%	77%	93%	92%	93%
Clinton	83	98.8%	0.0%	1.2%	0.0%	78%	90%	90%	99%	92%	87%
Crittenden	107	100.0%	0.0%	0.0%	0.0%	90%	93%	72%	93%	92%	91%
Daviess	2519	97.3%	2.3%	0.2%	0.2%	89%	92%	71%	96%	87%	90%
Edmonson	296	99.7%	0.3%	0.0%	0.0%	92%	94%	83%	99%	96%	95%
Elliott	77	100.0%	0.0%	0.0%	0.0%	100%	100%	90%	100%	100%	99%
Estill	192	96.4%	3.6%	0.0%	0.0%	94%	93%	94%	96%	95%	92%
Fayette	7379	95.9%	3.6%	0.1%	1.5%	93%	95%	94%	96%	95%	95%
Fleming	296	94.6%	5.1%	0.0%	0.0%	90%	91%	85%	95%	91%	90%
Floyd	557	99.5%	0.4%	0.0%	12.4%	94%	94%	79%	99%	97%	99%
Franklin	1400	97.8%	2.1%	0.0%	0.1%	93%	95%	90%	96%	93%	95%
Fulton	162	98.8%	1.2%	0.0%	0.0%	99%	99%	99%	99%	99%	99%
Gallatin	93	100.0%	0.0%	0.0%	0.0%	99%	100%	86%	100%	100%	95%
Garrard	198	89.4%	10.6%	0.0%	0.0%	79%	85%	79%	88%	85%	87%
Grant	386	99.5%	0.5%	0.0%	0.0%	99%	99%	63%	99%	99%	99%
Graves	635	98.3%	0.8%	0.0%	0.9%	97%	98%	63%	98%	98%	97%
Grayson	538	98.5%	1.3%	0.0%	0.2%	90%	98%	88%	98%	98%	93%
Green	105	98.1%	0.0%	1.0%	1.0%	99%	98%	90%	99%	98%	100%
Greenup	335	100.0%	4.8%	0.0%	3.3%	99%	99%	93%	100%	99%	99%
Hancock	62	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Hardin	1625	96.7%	3.0%	0.1%	3.0%	88%	93%	83%	94%	93%	88%
Harlan	459	97.4%	2.0%	0.4%	0.2%	94%	96%	88%	97%	97%	95%
Harrison	291	97.6%	1.4%	1.0%	1.0%	78%	78%	75%	84%	84%	83%
Hart	228	100.0%	0.0%	0.0%	0.0%	99%	100%	89%	100%	99%	100%
Henderson	830	98.1%	1.4%	0.1%	0.4%	92%	95%	87%	96%	95%	95%
Henry	130	99.2%	0.0%	0.8%	0.0%	95%	98%	59%	100%	98%	94%
Hickman	110	100.0%	0.0%	0.0%	0.0%	94%	100%	64%	100%	100%	97%
Hopkins	1087	98.6%	0.9%	0.1%	0.4%	96%	98%	73%	99%	98%	98%
Jackson	194	96.9%	2.6%	0.5%	0.0%	95%	96%	96%	97%	96%	96%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Childcare 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Jefferson	17074	92.2%	7.0%	0.4%	0.9%	87%	89%	70%	91%	90%	88%
Jessamine	70	98.6%	0.0%	0.0%	1.4%	97%	96%	83%	97%	94%	86%
Johnson	304	99.0%	0.3%	0.3%	0.3%	78%	78%	87%	98%	97%	91%
Kenton	4462	96.9%	2.4%	0.2%	0.6%	94%	94%	80%	96%	94%	93%
Knott	171	99.4%	0.6%	0.0%	0.0%	92%	97%	95%	98%	97%	95%
Knox	817	97.8%	1.8%	0.4%	1.3%	86%	93%	78%	97%	95%	91%
Larue	252	98.0%	2.0%	0.0%	0.0%	69%	71%	81%	79%	79%	89%
Laurel	187	95.7%	4.3%	0.0%	0.0%	86%	94%	80%	96%	93%	88%
Lawrence	185	100.0%	0.0%	0.0%	0.0%	90%	99%	85%	100%	98%	100%
Lee	141	92.2%	7.8%	0.0%	0.0%	87%	90%	74%	91%	91%	89%
Letcher	239	95.8%	3.8%	0.8%	0.0%	92%	95%	93%	96%	94%	93%
Lewis	277	100.0%	0.0%	0.0%	0.0%	95%	99%	52%	100%	98%	99%
Lincoln	389	95.4%	3.1%	1.5%	0.0%	91%	95%	88%	97%	95%	92%
Livingston	98	100.0%	0.0%	0.0%	0.0%	100%	100%	96%	100%	99%	100%
Logan	409	97.3%	2.4%	0.0%	0.2%	79%	91%	75%	89%	95%	97%
Lyon	70	97.1%	0.0%	0.0%	2.9%	87%	99%	89%	99%	99%	87%
McCracken	1913	97.7%	1.3%	0.1%	0.9%	96%	92%	53%	97%	96%	95%
McCreary	64	100.0%	0.0%	0.0%	3.1%	89%	94%	67%	95%	78%	89%
McLean	14	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	86%
Madison	1876	97.5%	2.3%	0.1%	0.2%	95%	97%	88%	94%	92%	95%
Magoffin	69	100.0%	0.0%	0.0%	0.0%	97%	100%	54%	100%	100%	100%
Marion	472	99.6%	0.0%	0.2%	0.2%	94%	98%	85%	100%	99%	93%
Marshall	575	98.8%	0.7%	0.2%	0.5%	91%	93%	94%	99%	96%	93%
Martin	153	100.0%	0.0%	0.0%	0.0%	97%	99%	100%	100%	97%	100%
Mason	182	88.5%	11.5%	0.0%	0.0%	70%	81%	65%	88%	83%	77%
Meade	336	99.4%	0.6%	0.0%	0.0%	93%	94%	90%	97%	96%	95%
Mercer	340	99.1%	0.6%	0.0%	0.6%	86%	91%	72%	96%	94%	96%
Metcalfe	155	99.4%	0.0%	0.0%	0.6%	99%	99%	90%	99%	99%	99%
Monroe	177	100.0%	0.0%	0.0%	0.0%	98%	100%	89%	100%	98%	99%
Montgomery	560	97.7%	2.0%	0.0%	0.4%	95%	97%	77%	98%	97%	95%
Morgan	209	97.1%	2.9%	0.0%	0.0%	90%	92%	90%	95%	90%	89%
Muhlenberg	385	100.0%	11.9%	4.9%	4.9%	83%	90%	85%	90%	90%	94%
Nelson	1172	96.3%	3.6%	0.1%	0.1%	86%	88%	73%	94%	87%	93%
Nicholas	75	96.0%	2.7%	1.3%	0.0%	97%	97%	96%	97%	97%	96%
Ohio	390	98.5%	1.3%	0.0%	0.3%	94%	96%	82%	88%	95%	85%
Oldham	1109	98.1%	0.5%	0.2%	0.5%	94%	96%	60%	98%	95%	90%
Owen	77	100.0%	0.0%	0.0%	0.0%	88%	96%	90%	100%	95%	90%
Owsley	96	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Pendleton	149	97.3%	2.7%	0.0%	0.0%	92%	95%	58%	97%	96%	91%
Perry	247	96.0%	3.6%	0.4%	0.0%	88%	93%	85%	96%	93%	94%
Pike	987	99.2%	0.8%	0.0%	0.0%	98%	98%	88%	99%	98%	98%
Powell	198	97.5%	2.5%	0.0%	0.0%	96%	97%	92%	97%	97%	96%
Pulaski	754	96.8%	2.9%	0.0%	0.1%	83%	92%	91%	94%	96%	91%
Robertson	54	100.0%	0.0%	0.0%	0.0%	87%	94%	39%	100%	96%	93%
Rockcastle	262	100.0%	0.0%	0.4%	0.0%	99%	99%	94%	100%	99%	100%
Rowan	457	96.9%	3.1%	0.0%	0.0%	95%	96%	96%	97%	94%	93%
Russell	407	98.8%	1.0%	0.5%	0.0%	87%	94%	83%	96%	95%	90%
Scott	520	94.4%	5.4%	0.0%	0.2%	93%	94%	73%	94%	94%	93%
Shelby	234	97.9%	2.1%	0.0%	0.0%	82%	91%	64%	97%	93%	89%
Simpson	246	97.2%	2.8%	0.0%	0.0%	93%	90%	92%	98%	91%	95%
Spencer	138	100.0%	0.0%	0.0%	0.0%	91%	76%	57%	77%	77%	71%
Taylor	332	99.7%	0.0%	0.0%	0.3%	95%	99%	92%	99%	97%	96%
Todd	325	98.2%	1.5%	0.0%	0.3%	91%	95%	88%	97%	95%	95%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Childcare 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Trigg	457	98.0%	1.3%	0.2%	0.4%	85%	85%	82%	75%	88%	86%
Trimble	87	94.3%	5.7%	0.0%	0.0%	94%	94%	94%	94%	94%	94%
Union	309	99.4%	0.6%	0.0%	0.0%	79%	69%	69%	99%	98%	99%
Warren	1025	99.1%	0.4%	0.0%	0.6%	96%	96%	87%	95%	94%	95%
Washington	203	99.5%	0.5%	3.4%	3.9%	96%	98%	95%	99%	99%	96%
Wayne	676	99.3%	0.7%	0.0%	0.0%	98%	99%	96%	93%	97%	99%
Webster	120	96.7%	3.3%	0.0%	0.0%	94%	96%	93%	97%	88%	93%
Whitley	216	93.1%	6.5%	0.5%	0.0%	77%	84%	82%	93%	87%	80%
Wolfe	142	97.2%	2.8%	0.0%	0.0%	92%	95%	93%	96%	95%	92%
Woodford	589	96.9%	2.4%	0.0%	0.7%	90%	94%	81%	96%	94%	92%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Kindergarten 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Adair	194	99.5%	0.0%	0.5%	0.0%	99%	99%	99%	99%	99%	99%
Allen	231	100.0%	0.0%	0.0%	0.4%	100%	100%	99%	98%	100%	100%
Anderson	295	99.7%	0.3%	0.7%	0.0%	99%	99%	100%	100%	98%	100%
Ballard	107	99.1%	0.9%	0.0%	0.0%	98%	99%	99%	99%	98%	99%
Barren	551	99.1%	0.4%	0.2%	0.4%	99%	99%	99%	99%	99%	99%
Bath	138	96.4%	2.9%	0.7%	0.0%	97%	96%	96%	97%	96%	97%
Bell	442	98.6%	0.7%	0.7%	0.0%	99%	99%	99%	99%	99%	99%
Boone	1867	99.1%	0.3%	0.2%	0.4%	99%	99%	97%	99%	99%	99%
Bourbon	247	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	99%
Boyd	629	96.2%	3.5%	0.2%	0.2%	96%	96%	95%	96%	96%	96%
Boyle	356	98.9%	1.1%	0.0%	0.0%	99%	99%	98%	98%	98%	99%
Breathitt	320	97.2%	2.5%	0.3%	0.0%	97%	97%	97%	98%	98%	96%
Breckinridge	242	97.9%	1.2%	0.4%	0.4%	98%	98%	97%	97%	96%	97%
Bullitt	983	95.4%	4.5%	0.1%	0.0%	94%	95%	94%	94%	94%	95%
Butler	173	99.4%	0.0%	0.0%	0.6%	99%	98%	97%	99%	98%	99%
Caldwell	144	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Calloway	368	98.4%	0.0%	0.5%	1.1%	99%	99%	98%	99%	99%	99%
Campbell	1059	99.2%	0.4%	0.2%	0.5%	99%	99%	98%	99%	99%	99%
Carlisle	64	98.4%	0.0%	0.0%	1.6%	98%	98%	98%	98%	98%	98%
Carroll	168	86.3%	13.7%	0.0%	0.0%	86%	86%	86%	86%	86%	86%
Carter	293	95.6%	4.4%	0.0%	0.0%	95%	95%	94%	95%	95%	95%
Casey	208	98.6%	1.0%	0.5%	0.0%	98%	98%	98%	95%	98%	98%
Christian	838	97.5%	2.1%	0.0%	0.0%	96%	96%	96%	95%	96%	94%
Clark	477	95.8%	3.8%	0.2%	0.4%	93%	94%	94%	95%	96%	95%
Clay	295	98.0%	1.7%	0.0%	0.3%	98%	98%	96%	98%	98%	97%
Clinton	148	99.3%	0.0%	0.7%	0.0%	99%	99%	99%	99%	99%	99%
Crittenden	121	99.2%	0.8%	0.0%	0.0%	99%	99%	99%	99%	99%	99%
Cumberland	77	98.7%	0.0%	1.3%	0.0%	99%	99%	99%	99%	99%	99%
Daviess	1347	97.6%	2.1%	0.3%	0.1%	98%	98%	96%	98%	96%	97%
Edmonson	149	100.0%	0.0%	0.0%	0.0%	100%	100%	99%	100%	99%	100%
Elliott	90	98.9%	1.1%	0.0%	0.0%	99%	99%	99%	100%	99%	99%
Estill	180	98.9%	0.0%	0.0%	1.1%	99%	99%	98%	99%	99%	99%
Fayette	3582	93.8%	7.0%	0.1%	0.3%	93%	93%	92%	93%	91%	91%
Fleming	181	97.2%	2.8%	0.0%	0.0%	97%	97%	96%	97%	97%	97%
Floyd	536	99.8%	0.0%	0.4%	0.0%	100%	100%	100%	100%	100%	100%
Franklin	518	93.6%	6.2%	0.0%	0.2%	92%	92%	91%	93%	90%	93%
Fulton	82	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Gallatin	138	83.3%	16.7%	0.0%	0.0%	83%	83%	79%	83%	82%	80%
Garrard	219	99.1%	0.9%	0.0%	0.0%	95%	95%	92%	99%	93%	98%
Grant	373	99.7%	0.3%	0.0%	0.0%	99%	100%	99%	100%	100%	99%
Graves	467	99.1%	0.0%	0.0%	0.9%	99%	99%	99%	98%	99%	99%
Grayson	316	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Green	147	99.3%	0.0%	0.0%	0.7%	100%	100%	99%	100%	100%	100%
Greenup	532	99.4%	0.4%	0.0%	0.2%	98%	99%	99%	99%	97%	99%
Hancock	31	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Hardin	1111	98.5%	0.6%	0.2%	0.6%	98%	98%	98%	96%	97%	98%
Harlan	363	90.9%	8.5%	0.6%	0.0%	89%	89%	87%	88%	87%	90%
Harrison	253	97.2%	2.8%	0.0%	0.0%	96%	94%	96%	97%	95%	97%
Hart	146	100.0%	0.0%	0.0%	0.0%	99%	99%	99%	95%	97%	100%
Henderson	608	98.8%	0.3%	0.5%	0.3%	99%	99%	98%	99%	98%	99%
Henry	215	97.7%	2.3%	0.0%	0.0%	97%	98%	94%	98%	98%	98%
Hickman	52	96.2%	0.0%	3.8%	0.0%	96%	96%	96%	100%	100%	100%
Hopkins	633	98.7%	0.5%	0.2%	0.6%	98%	99%	98%	99%	99%	99%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Kindergarten 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Jackson	209	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Jefferson	9300	75.5%	24.8%	0.2%	0.4%	74%	75%	71%	61%	74%	74%
Jessamine	545	96.7%	1.3%	0.6%	1.5%	97%	97%	97%	97%	97%	97%
Johnson	363	98.9%	1.1%	0.0%	0.0%	99%	99%	99%	99%	99%	99%
Kenton	2283	97.4%	1.8%	0.4%	0.4%	98%	98%	96%	97%	97%	96%
Knott	201	97.5%	1.5%	1.0%	0.0%	98%	98%	98%	98%	97%	96%
Knox	484	98.3%	1.2%	0.0%	0.4%	96%	96%	95%	93%	97%	97%
LaRue	164	100.0%	0.0%	0.0%	0.0%	99%	99%	99%	99%	99%	99%
Laurel	511	95.9%	3.5%	0.0%	0.6%	95%	95%	94%	95%	94%	94%
Lawrence	195	95.4%	4.6%	0.0%	0.0%	94%	93%	93%	95%	95%	95%
Lee	102	91.2%	7.8%	1.0%	0.0%	92%	92%	91%	92%	92%	92%
Leslie	54	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Letcher	202	99.5%	0.0%	1.0%	0.0%	100%	100%	99%	100%	100%	100%
Lewis	153	99.3%	0.7%	0.0%	0.0%	98%	99%	97%	99%	98%	99%
Lincoln	286	98.6%	1.0%	0.0%	0.3%	98%	99%	97%	98%	94%	98%
Livingston	99	100.0%	0.0%	0.0%	0.0%	100%	100%	99%	100%	100%	100%
Logan	319	96.2%	3.1%	0.0%	0.6%	96%	96%	94%	89%	95%	95%
Lyon	62	100.0%	0.0%	0.0%	0.0%	98%	100%	100%	100%	98%	100%
McCracken	873	97.3%	2.4%	0.1%	0.2%	97%	97%	95%	97%	97%	97%
McCreary	238	98.3%	1.3%	0.0%	0.4%	99%	99%	98%	98%	99%	98%
McLean	138	98.6%	0.0%	0.0%	1.4%	99%	99%	99%	97%	97%	98%
Madison	940	97.3%	2.1%	0.2%	0.3%	96%	96%	94%	94%	95%	95%
Magoffin	160	100.0%	0.0%	0.0%	0.0%	99%	100%	98%	100%	100%	100%
Marion	276	99.6%	0.0%	0.0%	0.4%	99%	100%	100%	100%	100%	100%
Marshall	373	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Martin	189	98.9%	1.1%	0.0%	0.0%	98%	98%	98%	99%	98%	99%
Mason	206	92.7%	6.8%	0.5%	0.0%	93%	91%	90%	93%	90%	93%
Meade	337	99.7%	0.0%	0.3%	0.0%	99%	100%	100%	100%	100%	100%
Menifee	46	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Mercer	251	99.2%	0.0%	0.4%	0.4%	99%	99%	99%	98%	99%	99%
Metcalfe	121	99.2%	0.8%	0.0%	0.0%	84%	99%	99%	99%	98%	99%
Monroe	151	98.7%	1.3%	0.0%	0.0%	99%	99%	98%	98%	98%	99%
Montgomery	352	87.5%	12.5%	0.0%	0.0%	87%	87%	86%	87%	84%	87%
Morgan	173	99.4%	0.0%	0.6%	0.0%	100%	100%	99%	100%	100%	100%
Muhlenberg	288	96.2%	3.8%	0.0%	0.0%	96%	97%	96%	96%	97%	96%
Nelson	591	93.1%	6.4%	0.0%	0.5%	91%	91%	90%	92%	90%	91%
Nicholas	88	98.9%	0.0%	0.0%	1.1%	99%	99%	99%	99%	99%	99%
Ohio	335	99.1%	0.6%	0.0%	0.3%	99%	99%	99%	70%	99%	99%
Oldham	872	86.1%	0.1%	0.1%	0.6%	99%	99%	97%	99%	99%	99%
Owen	128	99.2%	0.0%	0.8%	0.0%	98%	99%	99%	97%	97%	99%
Owsley	54	100.0%	0.0%	1.9%	0.0%	98%	98%	98%	98%	98%	98%
Pendleton	173	95.4%	3.5%	0.0%	1.2%	95%	95%	92%	96%	96%	95%
Perry	81	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Pike	840	99.4%	0.4%	0.1%	0.1%	98%	98%	94%	98%	96%	98%
Powell	183	98.9%	0.0%	0.5%	0.5%	99%	99%	99%	99%	99%	100%
Pulaski	798	98.6%	1.3%	0.0%	0.1%	97%	98%	97%	94%	97%	97%
Robertson	31	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Rockcastle	199	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%
Rowan	260	98.1%	0.4%	1.2%	0.4%	99%	100%	100%	100%	100%	100%
Russell	249	98.8%	0.0%	0.4%	0.8%	99%	99%	99%	99%	99%	99%
Scott	175	95.4%	4.0%	0.0%	0.6%	95%	95%	94%	94%	95%	94%
Shelby	545	92.1%	7.0%	0.0%	0.9%	92%	92%	90%	92%	91%	92%
Simpson	233	91.8%	0.0%	0.4%	0.0%	92%	92%	92%	92%	92%	92%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Kindergarten 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.
Spencer	202	97.0%	3.0%	0.0%	0.0%	97%	97%	92%	97%	97%	97%
Taylor	306	93.1%	5.6%	0.0%	1.3%	93%	93%	93%	93%	93%	93%
Todd	179	96.6%	1.1%	0.0%	0.6%	96%	97%	97%	97%	97%	97%
Trigg	159	96.9%	1.3%	0.6%	1.3%	95%	98%	94%	38%	89%	94%
Trimble	110	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	99%	100%
Union	200	95.0%	5.0%	0.0%	0.0%	95%	95%	95%	95%	95%	95%
Warren	1147	99.4%	0.3%	0.0%	0.3%	98%	99%	97%	88%	95%	91%
Washington	168	98.2%	1.8%	0.0%	0.0%	98%	98%	96%	96%	98%	98%
Wayne	241	99.6%	0.4%	0.0%	0.0%	99%	100%	100%	100%	100%	100%
Webster	172	97.1%	2.3%	0.0%	0.6%	94%	95%	94%	91%	90%	92%
Whitley	612	95.3%	4.4%	0.0%	0.3%	95%	95%	94%	88%	95%	95%
Wolfe	87	97.7%	1.1%	1.1%	0.0%	99%	99%	99%	99%	99%	98%
Woodford	363	99.2%	0.3%	0.3%	0.3%	99%	99%	98%	98%	99%	99%



**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Sixth Grade 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.	Td Booster
Jefferson	8937	95.6%	4.8%	0.0%	0.2%	94%	96%	96%	91%	96%	89%	38.1%
Jessamine	544	98.5%	0.7%	0.4%	0.4%	99%	99%	99%	99%	99%	99%	98.5%
Johnson	334	97.3%	2.7%	0.0%	0.0%	97%	97%	97%	97%	97%	95%	79.9%
Kenton	2025	98.4%	0.6%	0.9%	0.1%	93%	99%	99%	96%	99%	97%	78.8%
Knott	191	99.5%	0.0%	0.5%	0.0%	100%	100%	100%	99%	99%	95%	70.2%
Knox	393	99.7%	0.3%	0.0%	0.0%	99%	99%	99%	99%	99%	94%	63.1%
LaRue	187	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	99%	100%	87%	96.3%
Laurel	690	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	25%	77.8%
Lawrence	167	100.0%	0.0%	0.0%	0.0%	98%	96%	94%	99%	95%	92%	95.8%
Lee	90	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	98%	54.4%
Leslie	59	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	98%	98.3%
Letcher	151	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%	100.0%
Lewis	171	100.0%	0.0%	0.0%	0.0%	99%	100%	100%	98%	100%	100%	83.6%
Lincoln	316	98.1%	1.6%	0.0%	0.3%	98%	98%	98%	98%	98%	98%	63.9%
Livingston	90	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	99%	100%	100%	100.0%
Logan	356	98.9%	9.3%	0.0%	0.3%	90%	99%	99%	98%	99%	96%	34.3%
Lyon	71	97.2%	1.4%	1.4%	0.0%	99%	99%	99%	97%	99%	99%	11.3%
Madison	898	98.0%	1.8%	0.1%	0.1%	98%	98%	97%	97%	97%	95%	25.8%
Magoffin	178	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	98%	74.2%
Marion	267	99.6%	0.0%	0.0%	0.4%	99%	100%	100%	99%	100%	97%	98.9%
Marshall	363	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%	100.0%
Martin	143	98.6%	1.4%	0.0%	0.0%	99%	99%	99%	99%	99%	99%	93.7%
Mason	223	99.1%	0.0%	0.9%	0.0%	100%	100%	99%	98%	99%	87%	61.0%
McCracken	828	87.3%	0.2%	0.0%	0.4%	86%	86%	86%	85%	86%	86%	58.1%
McCreary	199	100.0%	0.0%	0.0%	0.0%	99%	100%	99%	96%	100%	97%	87.9%
McLean	132	100.0%	0.0%	0.0%	0.0%	98%	99%	99%	100%	99%	95%	100.0%
Meade	376	99.7%	0.0%	0.3%	0.0%	100%	100%	100%	99%	100%	94%	95.7%
Menifee	98	98.0%	0.0%	1.0%	1.0%	100%	100%	100%	98%	100%	99%	81.6%
Mercer	277	99.6%	0.0%	0.4%	0.0%	100%	100%	100%	100%	100%	97%	98.6%
Metcalfe	120	97.5%	0.8%	0.8%	0.8%	98%	98%	98%	98%	98%	89%	77.5%
Monroe	150	98.0%	2.0%	0.0%	0.0%	98%	98%	98%	89%	98%	65%	23.3%
Montgomery	352	96.3%	2.0%	1.1%	0.6%	97%	97%	97%	96%	94%	89%	76.1%
Morgan	150	98.7%	0.0%	1.3%	0.0%	100%	100%	99%	100%	99%	100%	96.7%
Muhlenberg	350	98.0%	1.4%	0.3%	0.3%	90%	94%	96%	94%	97%	89%	52.6%
Nelson	609	98.7%	1.3%	0.0%	0.0%	98%	98%	98%	96%	98%	95%	76.4%
Nicholas	86	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%	83.7%
Ohio	284	97.5%	1.8%	0.0%	0.7%	86%	97%	98%	68%	98%	96%	90.8%
Oldham	1046	99.5%	0.0%	0.1%	0.4%	99%	100%	100%	98%	99%	98%	79.8%
Owen	112	100.0%	0.0%	0.0%	0.0%	100%	100%	98%	100%	100%	100%	100.0%
Owsley	55	100.0%	0.0%	3.6%	0.0%	100%	100%	96%	100%	100%	100%	69.1%
Pendleton	174	100.0%	0.0%	0.6%	0.6%	99%	99%	99%	97%	99%	67%	97.7%
Perry	63	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	95%	82.5%
Pike	832	99.8%	0.1%	0.0%	0.1%	100%	100%	99%	100%	100%	98%	66.6%
Powell	190	99.5%	0.0%	0.5%	0.0%	100%	100%	100%	98%	99%	98%	97.9%
Pulaski	784	97.6%	2.2%	0.1%	0.1%	97%	97%	97%	94%	97%	87%	45.0%
Robertson	24	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	100%	100.0%
Rockcastle	195	100.0%	0.0%	0.0%	0.0%	95%	100%	100%	93%	99%	100%	100.0%
Rowan	248	100.0%	0.0%	0.8%	0.0%	100%	100%	100%	98%	100%	100%	95.2%
Russell	229	99.1%	0.0%	0.4%	0.4%	100%	100%	100%	97%	100%	96%	98.3%
Shelby	479	96.9%	2.7%	0.0%	0.4%	94%	93%	96%	92%	96%	97%	53.0%
Simpson	228	100.0%	0.0%	1.3%	0.0%	100%	100%	100%	100%	100%	100%	99.6%
Spencer	204	97.5%	1.0%	1.0%	0.5%	98%	98%	98%	89%	97%	87%	33.5%
Taylor	293	99.7%	0.3%	0.0%	0.0%	100%	100%	100%	99%	100%	100%	91.5%

**Kentucky Annual School and Childcare Immunization Survey Coverage Rate, Sixth Grade 2008, By County**

County	# Students	Cur.Cert	Miss Cert.	Med. Ex	Rel. Ex	4+ DTaP	3 Polio	1MMR + 1M	1+ Hib	3 Hep B	Vari.	Td Booster
Todd	161	98.8%	1.2%	0.0%	0.0%	99%	99%	99%	94%	99%	98%	65.8%
Trigg	155	98.7%	0.0%	0.0%	1.3%	99%	99%	99%	92%	99%	95%	94.8%
Trimble	125	100.0%	0.0%	0.0%	0.0%	99%	100%	100%	99%	100%	96%	96.0%
Union	186	99.5%	0.5%	0.0%	0.0%	99%	99%	99%	99%	99%	99%	97.3%
Warren	1120	99.8%	0.2%	0.0%	0.0%	98%	99%	100%	95%	99%	94%	71.6%
Washington	154	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	95%	100%	100%	87.7%
Wayne	260	100.0%	0.0%	0.0%	0.0%	100%	100%	100%	100%	100%	83%	96.9%
Webster	174	99.4%	0.6%	0.0%	0.0%	99%	99%	99%	98%	99%	83%	66.7%
Whitley	527	99.4%	0.2%	0.0%	0.4%	99%	99%	99%	99%	99%	95%	67.6%
Wolfe	115	99.1%	0.9%	0.0%	0.0%	99%	99%	99%	97%	99%	97%	17.4%
Woodford	321	99.4%	0.0%	0.3%	0.3%	99%	99%	99%	99%	100%	99%	89.4%







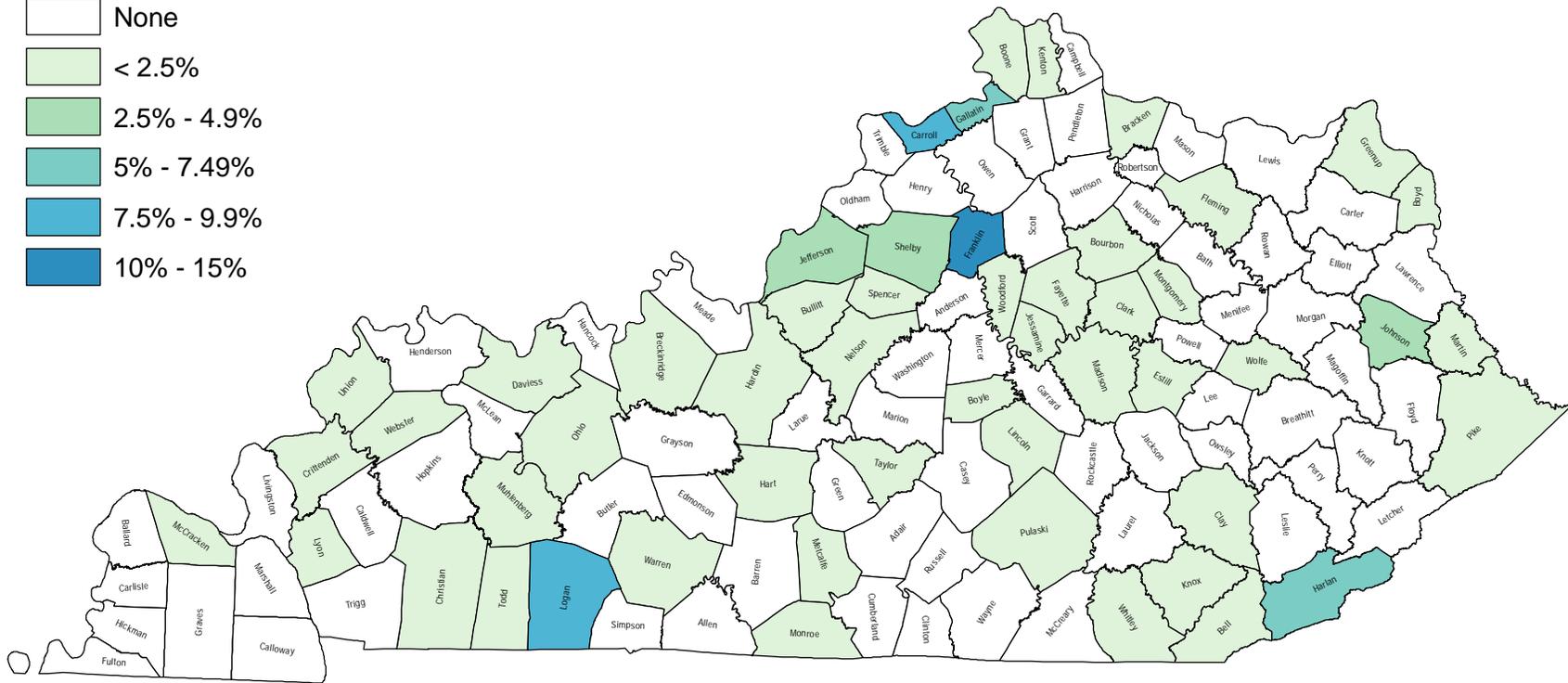
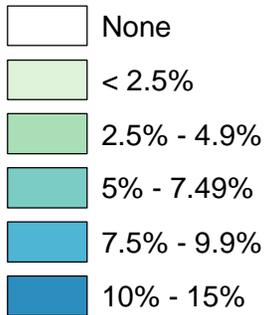






# Kentucky Annual Sixth Grade Immunization Survey 2008

## Missing Certificates







**Kentucky Annual School Immunization Survey County Response Rate by Grade/Group and County, 2008: Childcare**

County	Number of Schools that Reported	Total Number of Schools	Percent Response	County	Schools that Reported	Total Number of Schools	Percent Response
Madison	59	59	100%	Campbell	51	53	96%
Hopkins	29	29	100%	Kenton	68	71	96%
Nelson	27	27	100%	Knox	39	41	95%
Clark	19	19	100%	Harrison	13	14	93%
Floyd	18	18	100%	Whitley	13	14	93%
Clay	16	16	100%	Christian	37	40	93%
Woodford	15	15	100%	Lincoln	9	10	90%
Logan	14	14	100%	Harlan	15	17	88%
Marshall	14	14	100%	Henderson	29	33	88%
Russell	14	14	100%	Fayette	181	206	88%
Breckinridge	13	13	100%	Union	7	8	88%
Rowan	13	13	100%	Daviess	48	55	87%
Adair	12	12	100%	Franklin	27	31	87%
Grayson	12	12	100%	Oldham	13	15	87%
Marion	12	12	100%	Lawrence	6	7	86%
Boyle	11	11	100%	Meade	11	13	85%
Johnson	11	11	100%	Muhlenberg	11	13	85%
Washington	11	11	100%	Montgomery	15	18	83%
Wayne	11	11	100%	Anderson	10	12	83%
Rockcastle	10	10	100%	Pendleton	5	6	83%
Bourbon	9	9	100%	Spencer	5	6	83%
Casey	9	9	100%	Greenup	14	17	82%
Hart	9	9	100%	Bullitt	31	38	82%
LaRue	9	9	100%	Taylor	7	9	78%
Monroe	9	9	100%	Barren	16	21	76%
Trigg	9	9	100%	Calloway	19	25	76%
Butler	8	8	100%	Jefferson	412	543	76%
Caldwell	8	8	100%	Webster	6	8	75%
Henry	8	8	100%	Clinton	3	4	75%
Lewis	8	8	100%	Mercer	8	11	73%
Morgan	8	8	100%	Shelby	8	11	73%
Edmonson	7	7	100%	Letcher	7	10	70%
Fleming	7	7	100%	Simpson	7	10	70%
Grant	7	7	100%	McCracken	34	49	69%
Jackson	7	7	100%	Carter	8	12	67%
Fulton	6	6	100%	Wolfe	4	6	67%
Todd	6	6	100%	Green	2	3	67%
Allen	5	5	100%	Martin	2	3	67%
Estill	5	5	100%	Boyd	21	32	66%
Garrard	5	5	100%	Warren	22	35	63%
Metcalfe	5	5	100%	Bracken	5	8	63%
Powell	5	5	100%	Knott	8	13	62%
Bath	4	4	100%	Laurel	6	10	60%
Carlisle	4	4	100%	Pulaski	23	40	58%
Ballard	3	3	100%	Breathitt	4	7	57%
Crittenden	3	3	100%	Pike	18	32	56%
Cumberland	3	3	100%	Graves	12	24	50%
Elliott	3	3	100%	Carroll	1	2	50%
Gallatin	3	3	100%	Hancock	1	2	50%
Livingston	3	3	100%	Hardin	27	57	47%
Lyon	3	3	100%	Scott	9	19	47%
Nicholas	3	3	100%	McCreary	3	7	43%
Hickman	2	2	100%	Ohio	6	15	40%
Jessamine	2	2	100%	Bell	5	13	38%
Magoffin	2	2	100%	Lee	3	8	38%
Owen	2	2	100%	McLean	1	3	33%
Robertson	2	2	100%	Mason	3	10	30%
Trimble	2	2	100%	Perry	5	19	26%
Owsley	1	1	100%	Leslie	0	4	0%
Boone	62	63	98%	Menifee	0	1	0%

**Kentucky Annual School Immunization Survey County Response Rate by Grade/Group and County, 2008: Kindergarten**

County	Number of Schools that Reported	Total Number of Schools	Percent Response	County	Schools that Reported	Total Number of Schools	Percent Response
Campbell	29	29	100%	Monroe	3	3	100%
Pike	19	19	100%	Powell	3	3	100%
Boyd	14	14	100%	Rockcastle	3	3	100%
Bullitt	14	14	100%	Washington	3	3	100%
Madison	14	14	100%	Adair	2	2	100%
Pulaski	14	14	100%	Allen	2	2	100%
Christian	13	13	100%	Anderson	2	2	100%
Clark	11	11	100%	Carlisle	2	2	100%
Graves	11	11	100%	Carroll	2	2	100%
Hopkins	11	11	100%	Edmonson	2	2	100%
Floyd	10	10	100%	Fulton	2	2	100%
Henderson	10	10	100%	Jessamine	2	2	100%
Johnson	10	10	100%	LaRue	2	2	100%
Nelson	10	10	100%	McCreary	2	2	100%
Barren	9	9	100%	Pendleton	2	2	100%
Clay	9	9	100%	Simpson	2	2	100%
Harlan	9	9	100%	Spencer	2	2	100%
Knox	9	9	100%	Todd	2	2	100%
Boyle	8	8	100%	Trimble	2	2	100%
Breckinridge	8	8	100%	Wayne	2	2	100%
Ohio	8	8	100%	Ballard	1	1	100%
Whitley	8	8	100%	Caldwell	1	1	100%
Breathitt	7	7	100%	Crittenden	1	1	100%
Greenup	7	7	100%	Cumberland	1	1	100%
Knott	7	7	100%	Estill	1	1	100%
Logan	7	7	100%	Gallatin	1	1	100%
Woodford	7	7	100%	Hickman	1	1	100%
Calloway	6	6	100%	Lyon	1	1	100%
Grayson	6	6	100%	Nicholas	1	1	100%
Lincoln	6	6	100%	Owen	1	1	100%
Meade	6	6	100%	Owsley	1	1	100%
Montgomery	6	6	100%	Robertson	1	1	100%
Bourbon	5	5	100%	Trigg	1	1	100%
Fleming	5	5	100%	Kenton	51	52	98%
Grant	5	5	100%	Boone	26	27	96%
Hart	5	5	100%	Oldham	13	14	93%
Marion	5	5	100%	McCracken	12	13	92%
Webster	5	5	100%	Bell	11	12	92%
Bath	4	4	100%	Fayette	58	64	91%
Henry	4	4	100%	Jefferson	162	179	91%
Jackson	4	4	100%	Daviess	19	21	90%
Lawrence	4	4	100%	Warren	20	23	87%
Lewis	4	4	100%	Franklin	6	7	86%
Morgan	4	4	100%	Marshall	6	7	86%
Rowan	4	4	100%	Shelby	6	7	86%
Russell	4	4	100%	Harrison	5	6	83%
Taylor	4	4	100%	Muhlenberg	4	5	80%
Union	4	4	100%	Mercer	3	4	75%
Bracken	3	3	100%	Wolfe	3	4	75%
Butler	3	3	100%	Carter	5	7	71%
Casey	3	3	100%	Hardin	16	23	70%
Elliott	3	3	100%	Laurel	9	13	69%
Garrard	3	3	100%	Letcher	5	8	63%
Green	3	3	100%	Clinton	1	2	50%
Lee	3	3	100%	Hancock	1	2	50%
Livingston	3	3	100%	Mason	1	2	50%
Magoffin	3	3	100%	Menifee	1	2	50%
Martin	3	3	100%	Scott	4	10	40%
McLean	3	3	100%	Leslie	1	4	25%
Metcalfe	3	3	100%	Perry	2	13	15%

**Kentucky Annual School Immunization Survey County Response Rate by Grade/Group and County, 2008: Sixth Grade**

County	Number of Schools that Reported	Total Number of Schools	Percent Response	County	Schools that Reported	Total Number of Schools	Percent Response
Campbell	17	17	100%	Muhlenberg	2	2	100%
Boone	13	13	100%	Rowan	2	2	100%
Clay	11	11	100%	Simpson	2	2	100%
Graves	11	11	100%	Spencer	2	2	100%
Bell	10	10	100%	Taylor	2	2	100%
Harlan	10	10	100%	Union	2	2	100%
Johnson	9	9	100%	Wayne	2	2	100%
Knox	9	9	100%	Adair	1	1	100%
Barren	8	8	100%	Ballard	1	1	100%
Floyd	8	8	100%	Bath	1	1	100%
Nelson	8	8	100%	Caldwell	1	1	100%
Ohio	8	8	100%	Crittenden	1	1	100%
Oldham	8	8	100%	Cumberland	1	1	100%
Pulaski	8	8	100%	Edmonson	1	1	100%
Whitley	8	8	100%	Estill	1	1	100%
Breathitt	7	7	100%	Gallatin	1	1	100%
Hopkins	7	7	100%	Green	1	1	100%
Knott	7	7	100%	Hancock	1	1	100%
Madison	7	7	100%	Hickman	1	1	100%
Logan	6	6	100%	LaRue	1	1	100%
McLean	6	6	100%	Lincoln	1	1	100%
Breckinridge	5	5	100%	Lyon	1	1	100%
Clark	5	5	100%	Mason	1	1	100%
Greenup	5	5	100%	McCreary	1	1	100%
Hart	5	5	100%	Meade	1	1	100%
Webster	5	5	100%	Monroe	1	1	100%
Woodford	5	5	100%	Morgan	1	1	100%
Bourbon	4	4	100%	Nicholas	1	1	100%
Boyle	4	4	100%	Owen	1	1	100%
Fleming	4	4	100%	Owsley	1	1	100%
Henderson	4	4	100%	Pendleton	1	1	100%
Lawrence	4	4	100%	Powell	1	1	100%
Lewis	4	4	100%	Robertson	1	1	100%
Russell	4	4	100%	Rockcastle	1	1	100%
Washington	4	4	100%	Todd	1	1	100%
Bracken	3	3	100%	Trigg	1	1	100%
Butler	3	3	100%	Trimble	1	1	100%
Carter	3	3	100%	Kenton	23	24	96%
Casey	3	3	100%	Pike	14	15	93%
Elliott	3	3	100%	Fayette	27	29	93%
Grayson	3	3	100%	Boyd	10	11	91%
Jackson	3	3	100%	Jefferson	90	102	88%
Lee	3	3	100%	Warren	15	17	88%
Magoffin	3	3	100%	Bullitt	7	8	88%
Marion	3	3	100%	Hardin	10	13	77%
Menifee	3	3	100%	Christian	6	8	75%
Mercer	3	3	100%	Daviess	6	8	75%
Metcalfe	3	3	100%	Calloway	3	4	75%
Wolfe	3	3	100%	Laurel	3	4	75%
Allen	2	2	100%	Marshall	3	4	75%
Anderson	2	2	100%	Shelby	3	4	75%
Carlisle	2	2	100%	McCracken	5	8	63%
Carroll	2	2	100%	Franklin	3	6	50%
Fulton	2	2	100%	Letcher	3	8	38%
Grant	2	2	100%	Harrison	1	3	33%
Henry	2	2	100%	Leslie	1	4	25%
Jessamine	2	2	100%	Perry	2	13	15%
Livingston	2	2	100%	Scott	0	4	0%
Martin	2	2	100%	Clinton	0	2	0%
Montgomery	2	2	100%	Garrard	0	0	0%