

Kentucky Annual School Immunization Survey Report 2017 - 2018

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

August 2018

The Kentucky Annual School Immunization Survey Report was published by the Kentucky Immunization Program, Division of Epidemiology and Health Planning, Kentucky Department for Public Health, Cabinet for Health and Family Services, Frankfort, KY.

This report about age-specific immunizations of Kentucky school-aged children in public and private elementary and middle schools was prepared after analysis and interpretation of results for data reported to the Kentucky Department for Public Health through March 31, 2018.

Acknowledgements

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We would like to acknowledge the persons and programs in Kentucky public health that helped with survey distribution, data collection and reporting, including Kentucky Immunization Program Field Staff and all Local Health Department survey contacts.

The report profile was also created in collaboration with the Centers for Disease Control and Prevention (CDC).

School Immunization Reporting Requirement

According to state regulation 902 KAR 2:055, "(1) Kindergartens and public and private elementary and secondary schools shall submit to the local health department in their area immunization results for Kindergartens and Sixth Grades" on the Commonwealth of Kentucky School/Facility Annual Immunization Survey, and "(2) The annual survey shall include the number of: (a) Students in the grade surveyed; (b) Missing immunization records; (c) Religious exemptions; (d) Medical exemptions; and (e) Children who have received age-appropriate immunizations."

Suggested Citation: Division of Epidemiology and Health Planning, Infectious Disease Branch, Kentucky Immunization Program. Kentucky Annual School Immunization Survey Report, 2016 – 2017, [inclusive page numbers]. Frankfort, KY: Kentucky Department for Public Health, April 2018.

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Labels for Charts and Tables

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

- # of Children: Number of children at the school 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 (i.e., no certificate on file at the school)
- Med Ex: Number of children with a Commonwealth of Kentucky Certificate of Medical Exemption on file at the school
- Rel Ex: Number of children with a Commonwealth of Kentucky Certificate of Religious Exemption on file at the school
- DTaP: Number of children with 4 or more doses of Diphtheria, Tetanus, and Acellular Pertussis vaccine
- HepB: Number of children with 3 or more doses of Hepatitis B vaccine
- MenACWY: Number of children with 1 or more doses of quadrivalent Meningococcal vaccine
- MMR: Number of children with 1 dose of Measles, Mumps, Rubella (MMR) vaccine; or 1 dose of MMR vaccine plus 1 dose a measles containing vaccine; or 2 doses of MMR vaccine depending on a child's age
- Polio: Number of children with 3 or more doses of Poliovirus vaccine
- Tdap/Td Booster: Number of Sixth Grade children with a Tetanus, Diphtheria, and Acellular Pertussis (Tdap) or Tetanus Diphtheria (Td) booster after 10 years of age
- Varicella or VAR: Number of children with 1 or 2 doses of Varicella vaccine depending on a child's age

Background

The Kentucky Immunization Program (KIP) conducts a Kentucky Annual School 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 Kindergarten and Sixth Grade students. The purpose of this report is to disseminate the results of the survey for the 2017-2018 school year and offer recommendations to improve rates of immunization in Kentucky to reduce illness and death from vaccine-preventable diseases (VPDs).

Methods

Data Collection and Follow-up

The Kentucky Annual School Immunization Survey tools for 2017-2018 (see Appendix A) were distributed to each local health department (LHD) by KIP in late-August 2017 in electronic formats. LHDs distributed the survey materials to every public and private school with at least one Kindergarten class and/or Sixth Grade class. In 2017, each child was assessed for the presence of an immunization certificate on file, the certificate's expiration date, and the number of doses of each age-appropriate vaccine received. The Kentucky Immunization Program asked schools to assess each certificate for receipt of the following immunizations:

- Four or more doses of DTaP vaccine,
- Three or more doses of Poliovirus vaccine (Polio),
- Three or more doses of Hepatitis B (HepB) vaccine,
- Two doses of MMR vaccine,
- Two doses of Varicella vaccine (VAR) or a history of chickenpox disease,
- One dose of Tdap vaccine or one Td booster dose (for students older than 10 years of age), and
- One dose of quadrivalent Meningococcal vaccine (MenACWY, for students older than 10 years of age).

Each immunization certificate of a child that qualified by grade or age to be included in the assessment was reviewed, and immunization data were documented on the survey. The survey did not collect individual immunization information for each child, but instead requested aggregated totals for the whole grade or group for a school.

GenTrack web-based software was used to develop the online survey interface and conduct the online survey. The online survey had built-in validation checks, reducing error possibility prior to submitting data to DPH.

The deadline to submit surveys electronically was December 31, 2017. Each survey was reviewed by KIP staff to ensure reliability and validity. Schools that submitted surveys with missing or invalid information were contacted via phone and asked to make corrections or to resubmit the survey. Multiple attempts were made to obtain completed surveys from nonresponsive schools after the

deadline. LHD personnel were asked to follow up with noncompliant entities in their county at least three times, one or more of those times in writing. If attempts to collect survey data from schools, particularly Kindergartens, were unsuccessful, KIP field and central staff made site visits during the months of February and March 2017 to review charts and to directly collect the data. This enabled KIP staff to report 92% of school-based Kindergarteners' (both public and private) aggregate vaccine-specific data to CDC by the April 30, 2018 deadline.

Any survey received after March 31, 2018, was not included in the analysis.

All survey data were entered into Microsoft Excel 2016, data were cleaned, duplicates were removed, and the information was analyzed, interpreted, and organized into this report.

Outcome Measures

Several objectives for Immunizations are defined by Healthy People 2020 (HP 2020), http://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases. The attainment of age-appropriate target measure for these Objectives is used annually by the Kentucky Immunization Program to identify successful measures of vaccination compliance for school age children.

The age-appropriate HP 2020 target measures, assessed in schools, were:

Kindergarten, by selected vaccines and doses:

• 95% or greater for 4+ DTaP, 3+ Polio, 3+ HepB, 2 MMR, and 2 Varicella;

Sixth Grade, by selected vaccines and doses:

- 80% or greater for 1 Tdap and 1 MenACWY, and
- 90% or greater for 2 Varicella

Two target Immunizations measures defined by the KIP for adolescents, were adapted from definitions in Healthy People 2010 Objectives,

(https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/DATA2010/Focusarea14/O1427a.pdf) and

(https://ftp.cdc.gov/pub/Health Statistics/NCHS/Datasets/DATA2010/Focusarea14/01427b.pdf).

The age-appropriate KIP target measures, assessed in schools, were:

Sixth Grade, by selected vaccines and doses:

95% or greater for 3 HepB and 2 MMR

Results

Response rates for both Kindergarten and Sixth Grades were 88% this year. Field and central staff were used to collect Kindergarten and Sixth Grade data in areas where survey returns were low in previous years, further increasing response rates in counties where surveys had not been completed by the deadline.

Table 1 gives an overview of the total response rate for the survey in school year 2017-20178 compared to the previous eight school years (i.e., 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016 and 2016-2017). LHDs were integral in assisting with distribution lists and clarification of district mergers and school closures in their respective counties, in addition to diligently working to collect surveys from nonresponsive institutions. KIP staff conducted site visits after deadlines elapsed to collect data from nonresponsive schools housing a Kindergarten.

Table 1. Number of Schools with Assessments for Kindergarten or Sixth Grade

Accoccom	ent School Year	Kinderg	arten	Sixth	Grade
Assessin	ent School Year	No.	%	No.	%
2017-2018	Number of Schools	942	93	587	95.1
2016-2017	Number of Schools	792	88	526	87.2
2015-2016	Number of Schools	893	100	599	100
2014-2015	Number of Schools	925	100	613	100
2013-2014	Number of Schools	946	100	590	97.0
2012-2013	Number of Schools	917	96.0	569	95.0
2011-2012	Number of Schools	915	88.7	572	85.6
2010-2011	Number of Schools	818	79.2	525	77.7
2009-2010	Number of Schools	866	85.1	544	81.6
2008-2009	Number of Schools	935	93.7	580	84.3

Table 2 shows the number of children in 2017-2018 with medical or religious exemptions and the number of children who have received the required number of age-appropriate doses of each vaccine. A medical or religious exemption must be indicated on a Commonwealth of Kentucky Certificate of Medical Exemption or a Commonwealth of Kentucky Certificate of Religious Exemption, respectively. Children who were not up-to-date on required immunizations were given a 30-day grace period to become up-to-date or to begin a vaccine series towards becoming up-to-date. Immunization certificates

were documented in 94.9% of Kindergartners and 96.9% of Sixth Graders. Overall, 2.5% of all children surveyed had missing certificates and about 1% had a medical or a religious exemption on file.

Kentucky medical providers did a commendable job of administering the appropriate number of age-specific vaccines. Statewide, compliance rates for vaccine administration were above 90% for all Kindergarten vaccines assessed in the survey.

Despite the high reported rates, the state averages for all vaccines for children in Kindergarten were still below the Healthy People (HP) 2020 Objectives¹ of 95% or greater for 4+ DTaP, 3+ Polio, 3+ HepB, 2 MMR, and 2 Varicella. However, the state averages did meet Sixth Grade HP 2020 Objectives for 2 Varicella (90% or greater).

Results in Table 3 provide the minimum, median, maximum, and average coverage rates for each vaccine. When using the statistics comparison table, please note the acceptable immunization coverage levels for age-specific vaccines. The range of age-specific vaccination rates could vary significantly with the self-report methodology, and caution should be used when interpreting results based on low reporting numbers. In addition, some schools complete the survey within the first few weeks of receiving the package, counting children as noncompliant when doctor's appointments are scheduled for immunizations. Other schools or facilities wait until the final deadline in December, working towards getting all students current and up-to-date prior to reporting. These factors could contribute to variations in reporting.

Table 2. Percentage of Certificates, Exemptions, and Vaccines by Age Group

Type of Scho	ool Class	# Child	# Cert.	Miss Cert.	Med. Ex.	Rel. Ex.	4+ DTaP	3+ Polio	3+ HepB	2 MMR	2 Varicella	Tdap/ Td Booster	1 MenACWY
Kindorgartan	# Child	50,488	47,936	1,853	161	484	47,290	47,500	47,457	46,758	46,271	N/A	N/A
Kindergarten	%	N/A	94.9%	3.7%	0.3%	1.0%	93.7%	94.1%	94.0%	92.6%	91.6%	N/A	N/A
Sixth Grade	# Child	54,934	53,211	814	223	442	N/			53,518	51,553	45,933	45,063
Sixui Grade	%	N/A	96.9%	0.4%	0.8%	1.5%	N/A		95.9%	97.4%	93.8%	83.6%	82.0%

The number of MMR and Varicella doses is dependent on a child's age. Children aged 19 through 47 months are required to have 1 dose of MMR and 1 dose of Varicella, while children aged 48 months and older are required to have 2 doses of MMR and 2 doses of Varicella.

Table 3. Average, Median, and Range of Vaccination Percentage by Age Group

		# Students Reported	4+ DTaP	3+ Polio	3+ HepB	2 MMR	2 Varicella	Tdap/ Td Booster	1 MenACWY
Kindergarten Kindergarten Maximum (Highest Coun	Minimum (Lowest County Count or Rate)	77	73.1%	73.8%	67.5%	70%	67.9%		
	Median	209	95.2%	96.2%	95.6%	94.3%	93.9%	N/A	N/A
	Maximum (Highest County Count or Rate)	7,784	100%	100%	100%	100%	100%	N/A	N/A
	Average	420	93.7%	94.1%	94.0%	92.6%	91.6%		
	Minimum (Lowest County Count or Rate)	69			56%	86.4%	66.9	18.8%	18.8%
	Median	230			97.7%	97.6%	94.1%	89.4%	86.6
Sixth Grade	Maximum (Highest County Count or Rate)	9,075	N/A	N/A	100%	100%	100%	100%	100%
	Average	458			95.9%	97.4%	93.8%	83.6%	82%

Kindergarten

Ninety-three percent of schools with Kindergarten classes, both public and private institutions, completed the annual survey for the 2017-2018 school year. KIP received surveys from 942 schools assessing antigen-specific immunizations for 50,488 children.

Highlights for Kindergarten Students

- 80.8% of counties reported >90.0% of certificates on file were current.
- 6.6% counties had >1.0% of students with a medical exemption
 - Lincoln County reported the largest percentage of children with medical exemptions (5.7%)
- 31.6% counties had >1.0% of students with a religious exemption
 - Jessamine County reported the largest percentage of religious exemptions (3.1%)
- 12.5% counties had >10.0% of students with no certificate on file
- 55% counties reported 95.0% or greater of children receiving 4 or more DTaP
- 57.5% counties reported 95.0% or greater of children receiving 3 or more Polio
- 56.6% counties reported 95.0% or greater of children receiving 3 or more HepB
- 49.1% counties reported 95.0% or greater of children receiving 2 or more MMR
- 45.8% counties reported 95.0% or greater of children receiving 2 or more Varicella
- 41.6% counties met the Healthy People 2020 Objectives for each antigen (95% or greater for DTaP, Polio, HepB, MMR, and Varicella)

The following 51 counties reported 95.0% or greater for each vaccine (4+ DTaP, 3+ Polio, 3+ HepB, 2+ MMR, and 2 Varicella) in Kindergarteners.

Allen	Carlisle	Fulton	Johnson	Meade	Pike	Wayne
Ballard	Carter	Grant	Kenton	Menifee	Pulaski	Whitley
Barren	Clark	Graves	LaRue	Mercer	Robertson	Woodford
Boone	Elliott	Grayson	Leslie	Montgomery	Russell	
Bourbon	Fayette	Harrison	Letcher	Morgan	Shelby	
Caldwell	Fleming	Henry	Lincoln	Oldham	Simpson	
Calloway	Floyd	Hickman	Lyon	Owen	Spencer	
Campbell	Franklin	Jackson	Marion	Owsley	Taylor	

Sixth Grade

Ninety-five percent of schools with Sixth Grade, both public and private institutions, completed the annual survey for the 2017-2018 school year. KIP received surveys from 587 schools assessing antigenspecific immunizations for 54,934 children.

Highlights for Sixth Grade Students

- 94% of all counties reported >90.0% of certificates on file were current
- 5.8% counties had >1.0% of students with a medical exemption
 - Lincoln County reported the largest percentage of medical exemptions (4.9%)
- 20.8% counties had >1.0% of students with a religious exemption
 - Jessamine County reported the largest percentage of religious exemptions (3.0%)
- 2.5% counties had >10.0% of students with no certificate on file
- 73.3% counties reported 80.0% or greater of children receiving 1 Tdap/Td Booster
- 68.3% counties reported 80.0% or greater of children receiving 1 MenACWY
- 73.3% counties reported 95.0% or greater of children receiving 3 or more HepB
- 83.53% counties reported 95.0% or greater of children receiving 2 or more MMR
- 76.6% counties reported 90.0% or greater of children receiving 2 or more Varicella
- 28.4% counties met the Healthy People 2020 Objectives for each antigen (80% or greater for Tdap/Td Booster and MenACWY; and 90% or greater for Varicella), and the age-appropriate KIP target measures (95% or greater for HepB and MMR)

The following 23 counties reported 95.0% or greater for each vaccine (1 Tdap, 1 MenACWY, 3+ HepB, 2 MMR, and 2 Varicella) in Sixth Graders.

Ballard	Elliott	Hickman	Mercer	Pendleton	Spencer
Caldwell	Fleming	Lyon	Morgan	Robertson	Union
Campbell	Fulton	Meade	Oldham	Russell	Woodford
Carter	Hart	Menifee	Own	Simpson	

Improvement Trends in Counties since the 2017-2018 Survey

Several improvement trends were noted at the county level from previous year's surveys to the 2017-2018 survey:

- For Kindergarten, the following measures increased during 2017-2018
 - 80.8% counties reported 90% or greater current certificates on file for 2017-2018 compared to 74% in the 2016-2017 survey.
 - o 55% counties reported 95.0% or greater of children receiving 4 or more DTaP for 2017-2018 compared to 48.3% in the 2016-2017 survey.
 - o 57.5% counties reported 95.0% or greater of children receiving 3 or more Polio for 2017-2018 compared to 50% in the 2016-2017 survey.
 - 56.6% counties reported 95.0% or greater of children receiving 3 or more HepB for 2017-2018 compared to 45% in the 2016-2017 survey
 - o 49.1% counties reported 95.0% or greater of children receiving 2 or more MMR for 2017-2018 compared to 41.6% in the 2016-2017 survey.
 - 45.8% counties reported 95.0% or greater of children receiving 2 or more Varicella for 2017-2018 compared to 38.3% in the 2016-2017 survey.
- For Sixth Grade, 5.8% counties had >1.0% of students with a medical exemption compared to 7.2% in the 2016-2017 survey and 76.6% counties reported 90.0% or greater of children receiving 2 or more Varicella compared to 71.8% in the 2016-2017 survey.

Discussion

An ongoing challenge for medical providers, health department, health plans, and parents is that immunization successes must be repeatedly earned with each birth cohort. Successes in one year do not necessarily translate to another school year without the ongoing commitment to achieve immunization goals each year.

Since the 2011-2012 Annual School Immunization Survey, statewide Kindergarten results for 4+ DTaP, 3+ Polio, 3+ HepB, and 2 MMR have been 90.0% or greater for coverage of each vaccine, but have not surpassed the Healthy People 2020 Objectives to meet or exceed 95% or greater coverage.

Two doses of Varicella among Kindergarteners increased from 75.8% in 2011 to 90% in 2017 and remained at 91% in 2018. The increase may be a direct result of the 902 KAR 2:060 regulation revisions of 2010, requiring two doses of varicella for school entry for Kindergarteners. Provider and parent education and public health awareness campaigns likely have effectively influenced the varicella coverage rates during this period.

Since the 902 KAR 2:060 immunization regulation change of 2010, Sixth Grade compliance rates for one dose of Tdap, one dose of MenACWY, and two doses of Varicella have drastically improved from the 2011 survey to the 2016 survey. Only 72.4% of Sixth Graders had one dose of Tdap, 63.1% had one dose

of MenACWY, and 68.2% had two doses of Varicella in 2011. Since 2011, the rates have surpassed the Healthy People 2020 Objectives for 80.0% or greater of Sixth Graders for Tdap and MenACWY. These increases likely are a direct result of the KIP adolescent education campaign and promotion of the regulation revisions. Evaluation practices of school vaccination rates increased during this period, stemming from the inception of this report, promoting competition between school districts.

Kindergarten results have not exceeded the Healthy People 2020 objectives of 95% or greater for DTaP, Polio, HepB, MMR and Varicella. Herd immunity is established between 92-95%, reducing the likelihood of an infectious transmission. However, to reach "a critical vaccination level, [for] herd immunity and disease eradication (Betsch, Bohm, & Korn, 2013),"² 95% vaccination levels must be achieved.

Fine, Eames and Heymann (2011) state "maintenance of high coverage is particularly difficult as the diseases decline in frequency, and as populations become more sophisticated and more likely to question recommendations (p. 915)." Unless direct communication about the social benefits to vaccination are relayed to parents, there will continue to be increases in "free-ride" or reliance on herd immunity to avoid vaccination within school settings. Therefore, more education needs to be provided to parents about the public health impacts vaccinations have within schools, especially for the protection of vulnerable students who are immunocompromised.

Limitations

There were several limitations to this study. First, the survey data were self-reported. KIP relies heavily on school and childcare personnel to accurately report vaccine-specific data. Although the supplemental worksheet to line list grade rosters to tally results for vaccine compliance was an aid in correctly identifying students who were current and up-to-date, completion is not mandated by law. KIP staff used a weighted validation process whereby field staff were sent to schools in each region to systematically sample students in the Kindergarten class to ensure the data were being accurately reported. In some instances, KIP field staff were used as data collectors for non-respondent schools to increase survey compliance, but only for the Kindergarten class per CDC guidance. Further validation measures will be implemented in future years to assure the data are collected correctly and reported accurately.

Homeschooled Children

The Kentucky Administrative Regulation for "Immunization schedules for attending child day care centers, certified family child care homes, other licensed facilities which care for children, preschool programs, and public and private primary and secondary schools," (902 KAR 2:060 effective in Dec 2010) does not mandate immunization requirements for children in Kentucky who are homeschooled. KIP does not have a current method to assess vaccination coverage for homeschooled children.

A2Z Home's Cool estimated that approximately 21,826 children in Kentucky aged 5 through 17 years were taught at home during the 2017-2018 school year

(http://a2zhomeschooling.com/all time favorites/numbers homeschooled students/).

Recommendations for Using the Results of the Kentucky Annual School Immunization Survey

It is recommended that this report be used by school district administrators to assess district vaccination compliance and identify at-risk schools for the potential of vaccine preventable disease outbreaks. Kentucky has been in a statewide pertussis outbreak for several years, and this report can be used to identify schools with low pertussis containing (DTaP and Tdap) vaccination compliance rates for the potential of an outbreak. By identifying at-risk schools and promoting immunizations, school district administrators will reduce the likelihood of an outbreak and decrease exposures to vaccine preventable diseases for immunocompromised students or students that have contraindications for administration of certain vaccines.

School administrators can also use this report to adapt policies and procedures for school enrollment to require documentation of vaccination compliance prior to the first day of school. They can implement protocols for school nurses and other identified personnel to enroll as Kentucky Immunization Registry users to view and print current immunization certificates to be filed as part of students' educational records.

School nurses can use this report to promote the importance of immunizations to parents. Information about immunizations can be shared with parents who are vaccine-hesitant, or do not understand the adverse public health implications of low compliance for recommended immunizations on the school and community. This report can also help to promote back-to-school vaccination clinics and partnerships with providers and public health to increase vaccination compliance in low coverage rate counties.

Providers can use this report to evaluate their practices for childhood vaccination compliance, especially in low coverage rate areas. Further, it is recommended that all providers enroll in the KYIR and enter historical immunization data in addition to new vaccine doses administered to create a single, current immunization certificate for each child.

This report can be used by public health officials to implement strategies to promote vaccinations for the entire community and promote back-to-school immunization clinics. Public health officials can collaborate with district school administrators and area providers to create vaccination awareness campaigns to educate about the implications low vaccination coverage rates can have within vulnerable communities.

Conclusion

School entry regulations requiring childhood immunizations serve to protect children against once common vaccine-preventable diseases, some of which are still circulating widely in other areas of the world. "School immunization requirements have not only been highly successful in reducing the incidence of disease but also in improving the immunization levels in school children." In a 2-year effort, the Cincinnati primary school system was able to increase immunization levels of school-age children from 60% to 91% by following a program based upon its legal authority to require immunizations. "Laws requiring that children be immunized before they begin school have contributed to a 98% to 100% reduction in the incidence of [Vaccine Preventable Diseases]." 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.

Schools can take steps to increase the number of students that are up-to-date on immunizations. Schools can keep immunization records neat and organized to make it easier to find files and identify when a child needs an immunization. Schools can 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 each child immunized in a timely manner. For facilities that have electronic records, alerts can be set up to inform school staff when a child is no longer current on immunizations.

School administrators, medical providers, and parents can work together to ensure that children are made safe from morbidity and mortality caused by vaccine preventable diseases. KIP will continue to assess age-appropriate vaccines for children enrolled in school and childcare facilities to ensure they are current and up-to-date according to the state regulation (902 KAR 2:060) and the recommendations of the Advisory Committee on Immunization Practices (ACIP).

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APPENDIX A

KENTUCKY ANNUAL SCHOOL IMMUNIZATION SURVEY REPORT 2017 – 2018

Immunization Survey Tool

KINDERGARTEN A-1 SIXTH GRADE A-2

Date:



COMMONWEALTH OF KENTUCKY SCHOOL/FACILITY ANNUAL IMMUNIZATION SURVEY Kindergarten

(902 KAR 2:055)

Please complete this form in its entirety.

1. Demogi	raphic Information	Type of Facility (Place a check in the	annronriate hov			
County:		`				
School/Fac	cility Name:	Private Public				
Address:		Fubii				
City:		Total number of children enrolled in				
State:	Zipcode:	Kindergarten				
Phone Nur	nber:					
NOTE: Inform or each enrol	ation for the following should be obtained from the Commonwealth of K led child.	entucky Immunization Certii	ficate			
2. lmmuni	zation Certificates and Exemptions					
a. How n	nany children have a current/provisional or expired immuniza	ation certificate on file?				
b. How n	nany children are exempt from all or some immunizations fo	r medical reasons?				
c. How m	nany children are exempt from all immunizations for religious	s reasons?				
d. How n	nany children DO NOT have any immunization certificate on	file?				
STOP: T	he total of 2a + 2b + 2c + 2d MUST = the total number of	children enrolled in	Kindergarten _			
3. Vaccine	Dose Summary					
, vaoini	2000 Gammary					
	Vaccine	# Doses	# Children			
	DTaP/DTP/DT	4 or more				
	Polio	3 or more				
						
	Hepatitis B	3 or more				
	Hepatitis B MMR	3 or more				

Name of person completing this form:



COMMONWEALTH OF KENTUCKY SCHOOL/FACILITY ANNUAL IMMUNIZATION SURVEY Sixth Grade

(902 KAR 2:055)

Please complete this form in its entirety.

1. Demogra	phic Information	Type of Facility (Place a check in the appropriate box				
School/Faci	lity Name:	Private	•			
Address:		Public				
City:		Total number of children enrolled in				
State:	Zipcode:	Sixth Grade				
Phone Num	ber:					
NOTE: Informat	tion for the following should be obtained from the Commonwealth of Ko	entucky Immunization Certific	ate			
2. Immuniza	ation Certificates and Exemptions					
a. How ma	ny children have a current/provisional or expired immuniza	tion certificate on file?				
b. How ma	ny children are exempt from all or some immunizations for	medical reasons?				
c. How ma	ny children are exempt from all immunizations for religious	reasons?				
d. How ma	ny children DO NOT have any immunization certificate on	file?				
STOP: The	e total of 2a + 2b + 2c + 2d MUST = the total number of	children enrolled in Si	xth Grade.			
3. Vaccine	Dose Summary					
	Vaccine	# Doses	# Children			
	Tdap	1				
	Td Booster	1				
	MCV (Meningococcal) (reported as MenACW)	7) 1				
	Hepatitis B [3 doses]	3				
	or	or				
	Adolescent/Adult Hepatitis B [2 doses]	2				
	MMR	2				

Varicella [or child has had chickenpox disease]

Name of person completing this form:

2

Date:

APPENDIX B

KENTUCKY ANNUAL SCHOOL IMMUNIZATION SURVEY REPORT 2017 – 2018

County Profiles about Immunization Coverage in All Schools

County Profiles about Immunization Coverage in All Schools

Each age-specific report for Kindergarten (Appendix B-1) or Sixth Grade (Appendix B-2) provided aggregate totals of immunization certificate types (i.e., Current, Medical or Religious Exemptions, and Missing) and age appropriate immunizations for each county.

Each county report included county totals/coverage rates, with coverage rates (percentage) for each certificate type, and age-appropriate vaccinations. Children having the minimum number of doses for each immunization, as reported by each school, were considered compliant.

Several objectives for Immunizations are defined by Healthy People 2020 (HP 2020), http://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases. The attainment of age-appropriate target measures for these Objectives is used annually by the Kentucky Immunization Program to identify schools that have been successful with vaccination compliance for school age children in the survey year.

The age-appropriate HP 2020 target measures, assessed in schools, were:

Kindergarten, by selected vaccines and doses:

• 95% or greater for 4+ DTaP, 3+ Polio, 3+ HepB, 2 MMR, and 2 Varicella;

Sixth Grade, by selected vaccines and doses:

- 80% or greater for 1 Tdap and 1 MenACWY; and
- 90% or greater for 2 Varicella.

Two target Immunizations measures defined by the Kentucky Immunization Program (KIP) for adolescents, were adapted from definitions in Healthy People 2010 Objectives, (https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/DATA2010/Focusarea14/O1427a.pdf) and (https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/DATA2010/Focusarea14/O1427b.pdf).

The age-appropriate KIP target measures, assessed in schools, were:

Sixth Grade:

95% or greater for 3 HepB and 2 MMR.

If any of the age-appropriate HP 2020 or KIP target measures were not met for a county, the cell for the corresponding vaccine (COLUMN) for a given county (ROW) has been highlighted in red.

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ HepB	2 MMR	2 Varicella
Kentucky	50,488	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)	50,488	94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Adair	199	166	0	0	0	164	164	166	166	166
Adaii	133	83.4%	0.0%	0.0%	0.0%	82.4%	82.4%	83.4%	83.4%	83.4%
Allen	195	193	1	0	1	193	193	194	193	193
Alleli	193	99.0%	0.5%	0.0%	0.5%	99.0%	99.0%	99.5%	99.0%	99.0%
Anderson	212	195	1	3	10	198	196	199	197	192
Anderson	212	92.0%	0.5%	1.4%	4.7%	93.4%	92.5%	93.9%	92.9%	90.6%
Ballard	88	88	0	0	0	87	87	88	88	87
Danara		100.0%	0.0%	0.0%	0.0%	98.9%	98.9%	100.0%	100.0%	98.9%
Barren	561	554	0	2	5	549	550	548	546	547
Darren	301	98.8%	0.0%	0.4%	0.9%	97.9%	98.0%	97.7%	97.3%	97.5%
Bath	120	100	0	1	19	99	99	99	97	97
Dutii	120	83.3%	0.0%	0.8%	15.8%	82.5%	82.5%	82.5%	80.8%	80.8%
Bell	305	265	2	2	37	271	271	271	266	265
	303	86.9%	0.7%	0.7%	12.1%	88.9%	88.9%	88.9%	87.2%	86.9%
Boone	1,791	1,746	8	46	4	1,720	1,727	1,732	1,722	1,716
Doone	1,731	97.5%	0.4%	2.6%	0.2%	96.0%	96.4%	96.7%	96.1%	95.8%
Bourbon	641	632	2	6	1	626	634	628	624	631
20012011	0.12	98.6%	0.3%	0.9%	0.2%	97.7%	98.9%	98.0%	97.3%	98.4%
Boyd	928	899	4	8	13	870	877	863	875	849
20,4	320	96.9%	0.4%	0.9%	1.4%	93.8%	94.5%	93.0%	94.3%	91.5%
Boyle	310	305	2	3	1	299	301	303	300	291
Boyle	310	98.4%	0.6%	1.0%	0.3%	96.5%	97.1%	97.7%	96.8%	93.9%
Bracken	110	106	2	1	1	104	106	104	101	100
Drucken	110	96.4%	1.8%	0.9%	0.9%	94.5%	96.4%	94.5%	91.8%	90.9%
Breathitt	153	147	0	0	6	146	147	146	140	141
		96.1%	0.0%	0.0%	3.9%	95.4%	96.1%	95.4%	91.5%	92.2%
Breckinridge	226	221	0	2	1	217	219	214	214	211
		97.8%	0.0%	0.9%	0.4%	96.0%	96.9%	94.7%	94.7%	93.4%
Bullitt	763	727	2	3	31	729	732	725	718	715
	7.00	95.3%	0.3%	0.4%	4.1%	95.5%	95.9%	95.0%	94.1%	93.7%
Butler	152	146	0	1	5	145	145	145	139	140
		96.1%	0.0%	0.7%	3.3%	95.4%	95.4%	95.4%	91.4%	92.1%
Caldwell	140	137	0	2	1	137	137	137	135	135
	140	97.9%	0.0%	1.4%	0.7%	97.9%	97.9%	97.9%	96.4%	96.4%
Calloway	309	300	1	8	0	300	300	301	301	299
,		97.1%	0.3%	2.6%	0.0%	97.1%	97.1%	97.4%	97.4%	96.8%
Campbell	1,180	1159	30	32	12	1152	1154	1155	1153	1,144
	1,100	98.2%	2.5%	2.7%	1.0%	97.6%	97.8%	97.9%	97.7%	96.9%
Carlisle	59	58	0	0	1	57	58	58	57	57
Carnote	33	98.3%	0.0%	0.0%	1.7%	96.6%	98.3%	98.3%	96.6%	96.6%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ HepB	2 MMR	2 Varicella
Kentucky	50,488	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)	30,488	94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Carroll	171	139	0	2	30	131	133	142	138	132
curron	1/1	81.3%	0.0%	1.2%	17.5%	76.6%	77.8%	83.0%	80.7%	77.2%
Carter	308	305	0	2	1	302	304	303	300	298
Curter	300	99.0%	0.0%	0.6%	0.3%	98.1%	98.7%	98.4%	97.4%	96.8%
Casey	161	154	0	1	6	150	150	148	148	147
		95.7%	0.0%	0.6%	3.7%	93.2%	93.2%	91.9%	91.9%	91.3%
Christian	637	597	2	8	30	589	595	592	582	578
		93.7%	0.3%	1.3%	4.7%	92.5%	93.4%	92.9%	91.4%	90.7%
Clark	122	115	0	1	6	119	119	120	116	116
		94.3%	0.0%	0.8%	4.9%	97.5%	97.5%	98.4%	95.1%	95.1%
Clay	268	248	0	1	19	236	242	244	241	241
		92.5%	0.0%	0.4%	7.1%	88.1%	90.3%	91.0%	89.9%	89.9%
Clinton	125	122	0	1	2	112	111	117	114	112
		97.6%	0.0%	0.8%	1.6%	89.6%	88.8%	93.6%	91.2%	89.6%
Crittenden	77	65	0	0	12	62	61	52	61	59
		84.4%	0.0%	0.0%	15.6%	80.5%	79.2%	67.5%	79.2%	76.6%
Cumberland	63	59	0	1	3	56	56	57	57	58
		93.7%	0.0%	1.6%	4.8%	88.9%	88.9%	90.5%	90.5%	92.1%
Daviess	1,706	1,580	0	9	120	1,559	1,562	1,574	1,294	1,179
	_,,,,,	92.6%	0.0%	0.5%	7.0%	91.4%	91.6%	92.3%	75.8%	69.1%
Edmonson	0	0	0	0	0	0	0	0	0	0
24110113011		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Elliott	78	78	0	0	0	76	76	77	77	77
		100.0%	0.0%	0.0%	0.0%	97.4%	97.4%	98.7%	98.7%	98.7%
Estill	144	128	0	0	16	126	128	124	124	124
		88.9%	0.0%	0.0%	11.1%	87.5%	88.9%	86.1%	86.1%	86.1%
Fayette	3,376	3,265	6	36	51	3,289	3,298	3,291	3,262	3,255
	5,510	96.7%	0.2%	1.1%	1.5%	97.4%	97.7%	97.5%	96.6%	96.4%
Fleming	156	154	1	1	0	154	154	154	153	151
		98.7%	0.6%	0.6%	0.0%	98.7%	98.7%	98.7%	98.1%	96.8%
Floyd	587	563	1	1	7	569	573	573	570	569
,		95.9%	0.2%	0.2%	1.2%	96.9%	97.6%	97.6%	97.1%	96.9%
Franklin	433	429	1	1	2	428	431	431	419	424
	+33	99.1%	0.2%	0.2%	0.5%	98.8%	99.5%	99.5%	96.8%	97.9%
Fulton	69	68	0	1	0	69	69	69	69	69
	0.5	98.6%	0.0%	1.4%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Gallatin	108	108	0	0	0	99	102	105	104	104
	100	100.0%	0.0%	0.0%	0.0%	91.7%	94.4%	97.2%	96.3%	96.3%
Garrard	190	145	1	0	45	143	142	143	133	129
Januara	150	76.3%	0.5%	0.0%	23.7%	75.3%	74.7%	75.3%	70.0%	67.9%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ HepB	2 MMR	2 Varicella
Kentucky	EO 400	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)	50,488	94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Grant	283	280	0	1	2	279	279	279	277	275
Grant	203	98.9%	0.0%	0.4%	0.7%	98.6%	98.6%	98.6%	97.9%	97.2%
Graves	417	405	3	6	3	406	407	401	401	401
Graves	417	97.1%	0.7%	1.4%	0.7%	97.4%	97.6%	96.2%	96.2%	96.2%
Grayson	284	276	1	0	7	274	275	278	276	275
Grayson	204	97.2%	0.4%	0.0%	2.5%	96.5%	96.8%	97.9%	97.2%	96.8%
Green	103	102	0	1	1	101	101	100	98	97
Green	103	99.0%	0.0%	1.0%	1.0%	98.1%	98.1%	97.1%	95.1%	94.2%
Greenup	266	261	0	2	3	252	253	259	255	254
Greenup	200	98.1%	0.0%	0.8%	1.1%	94.7%	95.1%	97.4%	95.9%	95.5%
Hancock	102	101	0	1	0	100	101	100	101	101
Halicock	102	99.0%	0.0%	1.0%	0.0%	98.0%	99.0%	98.0%	99.0%	99.0%
Hardin	908	810	3	9	86	787	790	788	763	758
Harum	308	89.2%	0.3%	1.0%	9.5%	86.7%	87.0%	86.8%	84.0%	83.5%
Harlan	381	335	0	0	46	326	330	322	320	320
Harian	301	87.9%	0.0%	0.0%	12.1%	85.6%	86.6%	84.5%	84.0%	84.0%
Harrison	210	205	0	2	3	202	203	201	202	202
Harrison	210	97.6%	0.0%	1.0%	1.4%	96.2%	96.7%	95.7%	96.2%	96.2%
Hart	167	162	0	2	3	159	158	157	156	155
Hait	107	97.0%	0.0%	1.2%	1.8%	95.2%	94.6%	94.0%	93.4%	92.8%
Henderson	629	594	0	4	31	586	582	576	581	582
Henderson	029	94.4%	0.0%	0.6%	4.9%	93.2%	92.5%	91.6%	92.4%	92.5%
Henry	252	251	0	1	0	250	251	249	249	247
Tiemy	232	99.6%	0.0%	0.4%	0.0%	99.2%	99.6%	98.8%	98.8%	98.0%
Hickman	45	44	0	1	0	44	44	44	44	44
Hickman	43	97.8%	0.0%	2.2%	0.0%	97.8%	97.8%	97.8%	97.8%	97.8%
Hopkins	706	679	1	22	11	671	676	675	664	663
Поркінз	700	96.2%	0.1%	3.1%	1.6%	95.0%	95.8%	95.6%	94.1%	93.9%
Jackson	254	247	2	0	5	247	249	248	245	245
Jackson	254	97.2%	0.8%	0.0%	2.0%	97.2%	98.0%	97.6%	96.5%	96.5%
Jefferson	7,784	7,189	16	55	509	7,119	7,170	7,121	7,025	6,931
Jenerson	7,704	92.4%	0.2%	0.7%	6.5%	91.5%	92.1%	91.5%	90.2%	89.0%
Jessamine	554	554	0	17	0	523	533	520	526	521
Jessaillile	334	100.0%	0.0%	3.1%	0.0%	94.4%	96.2%	93.9%	94.9%	94.0%
Johnson	322	314	1	2	5	310	310	312	307	308
JOHNSON	322	97.5%	0.3%	0.6%	1.6%	96.3%	96.3%	96.9%	95.3%	95.7%
Kenton	1,858	1,803	3	17	23	1,794	1,803	1,800	1,795	1,790
Kenton	1,030	97.0%	0.2%	0.9%	1.2%	96.6%	97.0%	96.9%	96.6%	96.3%
Knott	177	156	0	0	21	154	155	153	151	154
Knott	1//	88.1%	0.0%	0.0%	11.9%	87.0%	87.6%	86.4%	85.3%	87.0%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ HepB	2 MMR	2 Varicella
Kentucky	50,488	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)	30,400	94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Knox	368	329	0	0	39	317	315	304	317	310
		89.4%	0.0%	0.0%	10.6%	86.1%	85.6%	82.6%	86.1%	84.2%
LaRue	158	156	0	1	1	156	156	156	154	152
		98.7%	0.0%	0.6%	0.6%	98.7%	98.7%	98.7%	97.5%	96.2%
Laurel	872	842	1	6	25	823	826	809	804	822
	-	96.6%	0.1%	0.7%	2.9%	94.4%	94.7%	92.8%	92.2%	94.3%
Lawrence	177	168	0	0	9	147	149	158	147	147
		94.9%	0.0%	0.0%	5.1%	83.1%	84.2%	89.3%	83.1%	83.1%
Lee	63	55	0	0	8	60	55	60	58	57
		87.3%	0.0%	0.0%	12.7%	95.2%	87.3%	95.2%	92.1%	90.5%
Leslie	154	104	0	1	2	148	151	150	148	148
		67.5%	0.0%	0.6%	1.3%	96.1%	98.1%	97.4%	96.1%	96.1%
Letcher	254	249	0	4	1	245	249	249	243	243
		98.0%	0.0%	1.6%	0.4%	96.5%	98.0%	98.0%	95.7%	95.7%
Lewis	156	149	1	0	6	142	143	139	146	143
		95.5%	0.6%	0.0%	3.8%	91.0%	91.7%	89.1%	93.6%	91.7%
Lincoln	283	263	16	2	2	275	277	275	270	271
		92.9%	5.7%	0.7%	0.7%	97.2%	97.9%	97.2%	95.4%	95.8%
Livingston	68	67	0	1	0	64	63	62	66	65
3		98.5%	0.0%	1.5%	0.0%	94.1%	92.6%	91.2%	97.1%	95.6%
Logan	346	321	0	0	25	312	316	297	286	284
		92.8%	0.0%	0.0%	7.2%	90.2%	91.3%	85.8%	82.7%	82.1%
Lyon	48	48	0	0	0	47	47	48	47	47
, -		100.0%	0.0%	0.0%	0.0%	97.9%	97.9%	100.0%	97.9%	97.9%
Madison	966	931	2	13	20	922	932	929	906	895
		96.4%	0.2%	1.3%	2.1%	95.4%	96.5%	96.2%	93.8%	92.7%
Magoffin	162	126	0	0	36	133	133	132	126	124
		77.8%	0.0%	0.0%	22.2%	82.1%	82.1%	81.5%	77.8%	76.5%
Marion	218	214	0	2	2	212	213	212	212	212
		98.2%	0.0%	0.9%	0.9%	97.2%	97.7%	97.2%	97.2%	97.2%
Marshall	368	347	1	6	14	344	344	340	332	327
		94.3%	0.3%	1.6%	3.8%	93.5%	93.5%	92.4%	90.2%	88.9%
Martin	117	117	0	0	0	117	117	117	116	109
		100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	99.1%	93.2%
Mason	188	182	1	1	4	178	181	176	170	166
		96.8%	0.5%	0.5%	2.1%	94.7%	96.3%	93.6%	90.4%	88.3%
McCracken	927	877	8	25	17	868	846	883	862	831
	J2,	94.6%	0.9%	2.7%	1.8%	93.6%	91.3%	95.3%	93.0%	89.6%
McCreary	225	215	0	0	10	212	214	213	204	203
,		95.6%	0.0%	0.0%	4.4%	94.2%	95.1%	94.7%	90.7%	90.2%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ HepB	2 MMR	2 Varicella
Kentucky	EO 400	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)	50,488	94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Melean	118	117	0	1	0	117	116	117	116	117
McLean	110	99.1%	0.0%	1.0%	0.0%	99.1%	98.3%	99.1%	98.3%	99.1%
Meade	291	288	0	3	0	287	288	288	288	287
ivieade	231	99.0%	0.0%	1.0%	0.0%	98.6%	99.0%	99.0%	99.0%	98.6%
Menifee	64	63	0	0	1	63	63	63	63	63
Weilifee	04	98.4%	0.0%	0.0%	1.6%	98.4%	98.4%	98.4%	98.4%	98.4%
Mercer	225	222	1	2	0	221	221	222	219	218
Wiercer	223	98.7%	0.4%	0.9%	0.0%	98.2%	98.2%	98.7%	97.3%	96.9%
Metcalfe	96	93	0	1	2	80	80	80	75	75
Wietcane		96.9%	0.0%	1.0%	2.1%	83.3%	83.3%	83.3%	78.1%	78.1%
Monroe	135	132	0	0	3	130	130	131	129	128
Wionioe	133	97.8%	0.0%	0.0%	2.2%	96.3%	96.3%	97.0%	95.6%	94.8%
Montgomery	322	306	6	0	10	315	312	314	306	306
Wiontgomery	J22	95.0%	1.9%	0.0%	3.1%	97.8%	96.9%	97.5%	95.0%	95.0%
Morgan	141	140	1	0	0	137	137	138	138	136
Worgan	141	99.3%	0.7%	0.0%	0.0%	97.2%	97.2%	97.9%	97.9%	96.5%
Muhlenberg	333	318	0	6	11	301	300	314	289	244
Municiperg	333	95.5%	0.0%	1.8%	3.3%	90.4%	90.1%	94.3%	86.8%	73.3%
Nelson	536	488	1	4	45	484	484	487	470	466
110.0011		91.0%	0.2%	0.7%	8.4%	90.3%	90.3%	90.9%	87.7%	86.9%
Nicholas	0	0	0	0	0	0	0	0	0	0
Trienolas		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ohio	360	307	0	4	41	310	311	311	302	272
00		85.3%	0.0%	1.1%	11.4%	86.1%	86.4%	86.4%	83.9%	75.6%
Oldham	837	821	1	15	0	819	819	817	817	816
		98.1%	0.1%	1.8%	0.0%	97.8%	97.8%	97.6%	97.6%	97.5%
Owen	125	125	0	0	0	121	124	125	124	123
		100.0%	0.0%	0.0%	0.0%	96.8%	99.2%	100.0%	99.2%	98.4%
Owsley	86	84	2	0	0	84	86	84	84	85
		97.7%	2.3%	0.0%	1.6%	97.7%	100.0%	97.7%	97.7%	98.8%
Pendleton	141	138	1	2	0	138	139	139	137	131
		97.9%	0.7%	1.4%	0.0%	97.9%	98.6%	98.6%	97.2%	92.9%
Perry	338	272	0	0	36	293	299	236	290	284
7 ,		80.5%	0.0%	0.0%	10.7%	86.7%	88.5%	69.8%	85.8%	84.0%
Pike	671	654	1	1	10	654	658	655	646	646
		97.5%	0.1%	0.1%	1.5%	97.5%	98.1%	97.6%	96.3%	96.3%
Powell	156	150	0	2	4	143	145	144	139	138
		96.2%	0.0%	1.3%	2.6%	91.7%	92.9%	92.3%	89.1%	88.5%
Pulaski	724	711	2	11	1	704	710	711	703	700
	7 1	98.2%	0.3%	1.5%	0.1%	97.2%	98.1%	98.2%	97.1%	96.7%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	4+ DtaP	3+ Polio	3+ НерВ	2 MMR	2 Varicella
Kentucky	50,488	47,936	161	484	1,853	47,290	47,500	47,457	46,758	46,271
(Total)		94.9%	0.3%	1.0%	3.7%	93.7%	94.1%	94.0%	92.6%	91.6%
Robertson	28	28	0	0	0	28	28	28	28	28
		100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Rockcastle	209	208 99.5%	0.0%	0.0%	1 0.5%	206 98.6%	207 99.0%	204 97.6%	94.3%	207 99.0%
		341	0.070	1	24	342	343	345	333	332
Rowan	366	93.2%	0.0%	0.3%	6.6%	93.4%	93.7%	94.3%	91.0%	90.7%
		333	2	0	2	330	333	333	330	330
Russell	337	98.8%	0.6%	0.0%	0.6%	97.9%	98.8%	98.8%	97.9%	97.9%
		529	3	4	21	407	411	490	498	499
Scott	557	95.0%	0.5%	0.7%	3.8%	73.1%	73.8%	88.0%	89.4%	89.6%
Ch albu	494	485	0	3	6	475	478	477	475	471
Shelby	494	98.2%	0.0%	0.6%	1.2%	96.2%	96.8%	96.6%	96.2%	95.3%
Simpson	217	211	1	5	0	212	212	211	210	208
31111/3011	217	97.2%	0.5%	2.3%	0.0%	97.7%	97.7%	97.2%	96.8%	95.9%
Spencer	177	176	0	1	0	175	175	175	176	176
эрепсет	1//	99.4%	0.0%	0.6%	0.0%	98.9%	98.9%	98.9%	99.4%	99.4%
Taylor	272	266	1	2	3	264	265	264	262	264
		97.8%	0.4%	0.7%	1.1%	97.1%	97.4%	97.1%	96.3%	97.1%
Todd	136	130	0	2	4	126	127	127	126	127
		95.6%	0.0%	1.5%	2.9%	92.6%	93.4%	93.4%	92.6%	93.4%
Trigg	142	137	0	2	3	135	138	139	130	130
		96.5%	0.0%	1.4%	2.1%	95.1%	97.2%	97.9%	91.5%	91.5%
Trimble	68	64	0	2	2	63	64	64	64	64
		94.1%	0.0%	2.9%	2.9%	92.6%	94.1%	94.1%	94.1%	94.1%
Union	208	198	0	5	5	193	193	193	193	192
		95.2%	0.0%	2.4%	2.4%	92.8%	92.8%	92.8%	92.8%	92.3%
Warren	1,082	989 91.4%	3 0.3%	5 0.5%	86 7.9%	874 80.8%	889 82.2%	917 84.8%	966 <i>89.3%</i>	9 2 9 <i>85.9%</i>
		129	1	1	7.9%	126	129	129	121	120
Washington	136	94.9%	0.7%	0.7%	3.7%	92.6%	94.9%	94.9%	89.0%	88.2%
		236	0.778	1	1	237	237	237	234	233
Wayne	238	99.2%	0.0%	0.4%	0.4%	99.6%	99.6%	99.6%	98.3%	97.9%
		156	2	0.4%	23	155	157	156	153	152
Webster	181	86.2%	1.1%	0.0%	12.7%	85.6%	86.7%	86.2%	84.5%	84.0%
		498	3	1	6	494	494	492	491	488
Whitley	508	98.0%	0.6%	0.2%	1.2%	97.2%	97.2%	96.9%	96.7%	96.1%
16		120	0	0	18	130	117	136	113	131
Wolfe	138	87.0%	0.0%	0.0%	13.0%	94.2%	84.8%	98.6%	81.9%	94.9%
14. 15 1		279	2	6	0	279	281	280	279	278
Woodford	287	97.2%	0.7%	2.1%	0.0%	97.2%	97.9%	97.6%	97.2%	96.9%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	54,954	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
Adair	194	188	0	1	0	175	175	188	181	176
Adaii	134	96.9%	0.0%	0.5%	0.0%	90.2%	90.2%	96.9%	93.3%	90.7%
Allen	234	232	0	1	1	178	178	231	231	230
Alleli	234	99.1%	0.0%	0.4%	0.4%	76.1%	76.1%	98.7%	98.7%	98.3%
Anderson	428	420	0	2	1	353	353	419	412	406
Anacison	420	98.1%	0.0%	0.5%	0.2%	82.5%	82.5%	97.9%	96.3%	94.9%
Ballard	89	87	0	2	0	87	87	89	89	87
Banara	03	97.8%	0.0%	2.2%	0.0%	97.8%	97.8%	100.0%	100.0%	97.8%
Barren	511	498	4	5	4	427	423	499	498	481
Barren	311	97.5%	0.8%	1.0%	0.8%	83.6%	82.8%	97.7%	97.5%	94.1%
Bath	152	152	0	0	0	78	78	152	143	139
Datii	132	100.0%	0.0%	0.0%	0.0%	51.3%	51.3%	100.0%	94.1%	91.4%
Bell	338	305	1	0	32	147	142	305	305	242
Dell	338	90.2%	0.3%	0.0%	9.5%	43.5%	42.0%	90.2%	90.2%	71.6%
Boone	1,916	1,876	10	35	1	1,782	1,774	1,882	1,868	1,842
Boone	1,910	97.9%	0.5%	1.8%	0.1%	93.0%	92.6%	98.2%	97.5%	96.1%
Bourbon	279	277	1	2	2	265	257	277	270	257
Bourbon	2/3	99.3%	0.4%	0.7%	0.7%	95.0%	92.1%	99.3%	96.8%	92.1%
Boyd	588	575	3	1	9	525	429	558	562	527
Боуц	388	97.8%	0.5%	0.2%	1.5%	89.3%	73.0%	94.9%	95.6%	89.6%
Boyle	366	362	0	3	1	334	332	359	360	347
boyle	300	98.9%	0.0%	0.8%	0.3%	91.3%	90.7%	98.1%	98.4%	94.8%
Bracken	112	112	0	0	0	68	67	106	109	110
Diackell	112	100.0%	0.0%	0.0%	0.0%	60.7%	59.8%	94.6%	97.3%	98.2%
Breathitt	195	192	0	2	1	173	170	190	190	184
breatilitt	193	98.5%	0.0%	1.0%	0.5%	88.7%	87.2%	97.4%	97.4%	94.4%
Breckinridge	240	225	0	5	10	230	229	179	230	226
breckiiiiuge	240	93.8%	0.0%	2.1%	4.2%	95.8%	95.4%	74.6%	95.8%	94.2%
Bullitt	1,822	1789	3	7	23	1559	1544	1723	1791	1741
Builtt	1,022	98.2%	0.2%	0.4%	1.3%	85.6%	84.7%	94.6%	98.3%	95.6%
Butler	148	146	0	1	1	115	110	141	144	137
butter	140	98.6%	0.0%	0.7%	0.7%	77.7%	74.3%	95.3%	97.3%	92.6%
Caldwell	142	141	1	0	0	137	137	142	142	139
Caluwell	142	99.3%	0.7%	0.0%	0.0%	96.5%	96.5%	100.0%	100.0%	97.9%
Calloway	327	317	1	9	2	309	315	317	318	303
Calloway	321	96.9%	0.3%	2.8%	0.6%	94.5%	96.3%	96.9%	97.2%	92.7%
Campbell	1,202	1192	0	7	3	1164	1142	1189	1192	1,178
Campbell	1,202	99.2%	0.0%	0.6%	0.2%	96.8%	95.0%	98.9%	99.2%	98.0%
Carlisle	65	64	0	1	0	63	60	64	64	64
Carrisie		98.5%	0.0%	1.5%	0.0%	96.9%	92.3%	98.5%	98.5%	98.5%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	34,334	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
Carroll	150	146	0	0	4	119	116	147	147	135
		97.3%	0.0%	0.0%	2.7%	79.3%	77.3%	98.0%	98.0%	90.0%
Carter	486	482	1	2	1	477	478	484	485	481
		99.2%	0.2%	0.4%	0.2%	98.1%	98.4%	99.6%	99.8%	99.0%
Casey	171	169	0	1	1	152	151	169	169	160
,		98.8%	0.0%	0.6%	0.6%	88.9%	88.3%	98.8%	98.8%	93.6%
Christian	716	695	0	5	16	532	533	680	696	670
		97.1%	0.0%	0.7%	2.2%	74.3%	74.4%	95.0%	97.2%	93.6%
Clark	466	427	1	1	37	256	226	453	457	428
		91.6%	0.2%	0.2%	7.9%	54.9%	48.5%	97.2%	98.1%	91.8%
Clay	268	265	0	0	3	251	245	264	264	258
,		98.9%	0.0%	0.0%	1.1%	93.7%	91.4%	98.5%	98.5%	96.3%
Clinton	114	111	0	3	0	61	61	111	111	85
		97.4%	0.0%	2.6%	0.0%	53.5%	53.5%	97.4%	97.4%	74.6%
Crittenden	134	126	1	1	8	124	120	133	133	129
		94.0%	0.7%	0.7%	6.0%	92.5%	89.6%	99.3%	99.3%	96.3%
Cumberland	64	63	0	1	0	53	53	56	63	58
		98.4%	0.0%	1.6%	0.0%	82.8%	82.8%	87.5%	98.4%	90.6%
Daviess	1,317	1,282	3	7	25	1,066	1,066	1,293	1,290	1,173
	,-	97.3%	0.2%	0.5%	1.9%	80.9%	80.9%	98.2%	97.9%	89.1%
Edmonson	0	0	0	0	0	0	0	0	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Elliott	171	171	0	0	0	170	170	171	171	167
		100.0%	0.0%	0.0%	0.0%	99.4%	99.4%	100.0%	100.0%	97.7%
Estill	173	170	0	0	3	170	145	169	168	162
		98.3%	0.0%	0.0%	1.7%	98.3%	83.8%	97.7%	97.1%	93.6%
Fayette	3,750	3,658	25	36	7	2,730	2,669	3,697	3,669	3,566
,	,	97.5%	0.7%	1.0%	0.2%	72.8%	71.2%	98.6%	97.8%	95.1%
Fleming	166	165	0	1	0	159	159	166	166	160
- 3		99.4%	0.0%	0.6%	0.0%	95.8%	95.8%	100.0%	100.0%	96.4%
Floyd	448	445	0	3	0	422	423	446	446	437
,		99.3%	0.0%	0.7%	0.0%	94.2%	94.4%	99.6%	99.6%	97.5%
Franklin	615	527	9	5	74	567	510	530	592	575
		85.7%	1.5%	0.8%	12.0%	92.2%	82.9%	86.2%	96.3%	93.5%
Fulton	67	66	0	1	0	66	66	66	66	65
-		98.5%	0.0%	1.5%	0.0%	98.5%	98.5%	98.5%	98.5%	97.0%
Gallatin	141	140	0	0	1	121	121	138	139	132
		99.3%	0.0%	0.0%	0.7%	85.8%	85.8%	97.9%	98.6%	93.6%
Garrard	202	199	0	1	2	124	123	198	197	177
		98.5%	0.0%	0.5%	1.0%	61.4%	60.9%	98.0%	97.5%	87.6%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	34,334	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
Grant	367	363	1	3	0	310	310	365	366	355
Grunt	307	98.9%	0.3%	0.8%	0.0%	84.5%	84.5%	99.5%	99.7%	96.7%
Graves	437	423	1	7	7	402	400	427	426	419
Graves	437	96.8%	0.2%	1.6%	1.6%	92.0%	91.5%	97.7%	97.5%	95.9%
Grayson	349	324	1	2	4	313	314	343	344	342
	0.0	92.8%	0.3%	0.6%	1.1%	89.7%	90.0%	98.3%	98.6%	98.0%
Green	238	224	2	2	10	208	206	234	230	222
		94.1%	0.8%	0.8%	4.2%	87.4%	86.6%	98.3%	96.6%	93.3%
Greenup	478	475	3	2	2	398	398	474	470	434
		99.4%	0.6%	0.4%	0.4%	83.3%	83.3%	99.2%	98.3%	90.8%
Hancock	0	0	0	0	0	0	0	0	0	0
	_	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%%	0.0%	0.0%
Hardin	806	777	2	4	23	699	684	694	756	745
		96.4%	0.2%	0.5%	2.9%	86.7%	84.9%	86.1%	93.8%	92.4%
Harlan	379	352	1	0	26	337	234	339	345	292
	0.0	92.9%	0.3%	0.0%	6.9%	88.9%	61.7%	89.4%	91.0%	77.0%
Harrison	213	206	0	5	2	196	195	207	207	198
		96.7%	0.0%	2.3%	0.9%	92.0%	91.5%	97.2%	97.2%	92.9%
Hart	184	183	1	2	0	180	175	182	179	181
		99.5%	0.5%	1.1%	0.0%	97.8%	95.1%	98.9%	97.3%	98.4%
Henderson	294	280	7	4	3	264	267	188	290	282
		95.2%	2.4%	1.4%	1.0%	89.8%	90.8%	63.9%	98.6%	95.9%
Henry	363	255	1	10	0	326	326	347	356	339
,		70.2%	0.3%	2.8%	0.0%	89.8%	89.8%	95.6%	98.1%	93.4%
Hickman	53	53	0	0	0	53	53	53	53	53
		100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Hopkins	588	571	6	3	3	546	546	578	577	574
		97.1%	1.0%	0.5%	0.5%	92.9%	92.9%	98.3%	98.1%	97.6%
Jackson	178	163	1	2	12	159	161	174	173	158
		91.6%	0.6%	1.1%	6.7%	89.3%	90.4%	97.8%	97.2%	88.8%
Jefferson	9,075	8,860	21	51	143	7,111	7,002	8,869	8,848	8,731
	0,010	97.6%	0.2%	0.6%	1.6%	78.4%	77.2%	97.7%	97.5%	96.2%
Jessamine	671	669	6	20	2	610	605	658	652	628
	0,1	99.7%	0.9%	3.0%	0.3%	90.9%	90.2%	98.1%	97.2%	93.6%
Johnson	315	309	0	3	3	291	267	301	307	245
303011	313	98.1%	0.0%	1.0%	1.0%	92.4%	84.8%	95.6%	97.5%	77.8%
Kenton	2,168	2,126	12	23	7	2,010	1,992	2,138	2,133	2,091
Activoti	_,100	98.1%	0.6%	1.1%	0.3%	92.7%	91.9%	98.6%	98.4%	96.4%
Knott	201	196	1	2	2	196	124	198	197	174
	201	97.5%	0.5%	1.0%	1.0%	97.5%	61.7%	98.5%	98.0%	86.6%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	34,334	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
Knox	372	366	0	0	6	193	195	353	356	293
KIIOX	3,2	98.4%	0.0%	0.0%	1.6%	51.9%	52.4%	94.9%	95.7%	78.8%
LaRue	194	192	2	0	0	179	179	193	192	186
		99.0%	1.0%	0.0%	0.0%	92.3%	92.3%	99.5%	99.0%	95.9%
Laurel	731	716	3	2	10	707	665	710	703	651
		98.2%	0.4%	0.3%	1.4%	97.0%	91.2%	97.4%	96.4%	89.3%
Lawrence	199	196	0	1	2	176	174	194	196	189
		98.5%	0.0%	0.5%	1.0%	88.4%	87.4%	97.5%	98.5%	95.0%
Lee	69	65	0	0	4	13	13	60	60	47
		94.2%	0.0%	0.0%	5.8%	18.8%	18.8%	87.0%	87.0%	68.1%
Leslie	137	120	0	1	1	95	88	134	134	118
		87.6%	0.0%	0.7%	0.7%	69.3%	64.2%	97.8%	97.8%	86.1%
Letcher	295	290	4	1	0	277	262	289	288	281
		98.3%	1.4%	0.3%	0.0%	93.9%	88.8%	98.0%	97.6%	95.3%
Lewis	186	184	1	0	1	154	151	184	182	175
		98.9%	0.5%	0.0%	0.5%	82.8%	81.2%	98.9%	97.8%	94.1%
Lincoln	305	283	15	3	4	267	269	301	299	288
		92.8%	4.9%	1.0%	1.3%	87.5%	88.2%	98.7%	98.0%	94.4%
Livingston	82	80	0	1	1	57	57	80	80	76
		97.6%	0.0%	1.2%	1.2%	69.5%	69.5%	97.6%	97.6%	92.7%
Logan	376	371	0	2	3	273	273	287	366	342
		98.7%	0.0%	0.5%	0.8%	72.6%	72.6%	76.3%	97.3%	91.0%
Lyon	81	80	0	1	0	79	77	80	80	80
		98.8%	0.0%	1.2%	0.0%	97.5%	95.1%	98.8%	98.8%	98.8%
Madison	1092	1069	5	13	5	1033	1032	1082	1076	1064
		97.9%	0.5%	1.2%	0.5%	94.6%	94.5%	99.1%	98.5%	97.4%
Magoffin	169	146	1	1	21	36	36	150	146	113
_		86.4%	0.6%	0.6%	12.4%	21.3%	21.3%	88.8%	86.4%	66.9%
Marion	277	146	1	0	3	267	265	155	277	267
		52.7%	0.4%	0.0%	1.1%	96.4%	95.7%	56.0%	100.0%	96.4%
Marshall	406	398	1	6	3	363	367	380	397	389
		98.0%	0.2%	1.5%	0.7%	89.4%	90.4%	93.6%	97.8%	95.8%
Martin	125	125	0	0	5	105	104	0	122	106
		100.0%	0.0%	0.0%	4.0%	84.0%	83.2%	0.0%	97.6%	84.8%
Mason	217	215	1	1	0	198	195	200	205	176
		99.1%	0.5%	0.5%	0.0%	91.2%	89.9%	92.2%	94.5%	81.1%
McCracken	792	765	3	21	3	724	703	775	770	765
		96.6%	0.4%	2.7%	0.4%	91.4%	88.8%	97.9%	97.2%	96.6%
McCreary	216	216	0	0	0	183	181	215	215	205
		100.0%	0.0%	0.0%	0.0%	84.7%	83.8%	99.5%	99.5%	94.9%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	5 1,55 1	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
McLean	0	0	0	0	0	0	0	0	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Meade	239	235	2	2	0	233	233	236	236	232
		98.3%	0.8%	0.8%	0.0%	97.5%	97.5%	98.7%	98.7%	97.1%
Menifee	58	57	0	0	1	57	57	57	57	57
		98.3%	0.0%	0.0%	1.7%	98.3%	98.3%	98.3%	98.3%	98.3%
Mercer	224	223	0	1	0	214	214	222	223	212
		99.6%	0.0%	0.4%	0.0%	95.5%	95.5%	99.1%	99.6%	94.6%
Metcalfe	106	103	0	0	3	74	73	102	101	88
		97.2%	0.0%	0.0%	2.8%	69.8%	68.9%	96.2%	95.3%	83.0%
Monroe	120	117	1	1	1	104	104	119	118	111
		97.5%	0.8%	0.8%	0.8%	86.7%	86.7%	99.2%	98.3%	92.5%
Montgomery	351	347	0	1	3	253	252	307	344	333
		98.9%	0.0%	0.3%	0.9%	72.1%	71.8%	87.5%	98.0%	94.9%
Morgan	167	166	0	1	0	159	159	167	166	161
		99.4%	0.0%	0.6%	0.0%	95.2%	95.2%	100.0%	99.4%	96.4%
Muhlenberg	213	211	2	0	0	198	196	213	210	196
		99.1% 556	0.9% 2	0.0% 2	0.0% 8	93.0% 432	92.0% 422	100.0% 552	98.6% 549	<i>92.0%</i> 541
Nelson	568	97.9%	0.4%	0.4%	1.4%	76.1%	74.3%	97.2%	96.7%	95.2%
		97.9%	0.4%	0.4%	0	0	0	97.2%	90.7%	95.2%
Nicholas	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		307	0.0%	2	70	246	239	352	352	328
Ohio	379	81.0%	0.0%	0.5%	18.5%	64.9%	63.1%	92.9%	92.9%	86.5%
		1,086	1	19	18.5%	1,061	1,058	1,091	1,086	1,074
Oldham	1,107	98.1%	0.1%	1.7%	0.1%	95.8%	95.6%	98.6%	98.1%	97.0%
		145	2	0	0.170	146	146	147	147	147
Owen	147	98.6%	1.4%	0.0%	0.0%	99.3%	99.3%	100.0%	100.0%	100.0%
		63	3	0	0	66	46	66	66	63
Owsley	66	95.5%	4.5%	0.0%	1.6%	100.0%	69.7%	100.0%	100.0%	95.5%
		174	3	2	0	172	173	176	174	170
Pendleton	179	97.2%	1.7%	1.1%	0.0%	96.1%	96.6%	98.3%	97.2%	95.0%
		347	1	1	21	306	267	324	334	302
Perry	367	94.6%	0.3%	0.3%	5.7%	83.4%	72.8%	88.3%	91.0%	82.3%
		711	0	0	2	637	636	698	711	705
Pike	713	99.7%	0.0%	0.0%	0.3%	89.3%	89.2%	97.9%	99.7%	98.9%
		169	0	0	0	155	155	168	167	165
Powell	169	100.0%	0.0%	0.0%	0.0%	91.7%	91.7%	99.4%	98.8%	97.6%
		790	3	13	4	725	724	797	787	761
Pulaski	810	97.5%	0.4%	1.6%	0.5%	89.5%	89.4%	98.4%	97.2%	94.0%

County	Total # of Students	Current Cert.	Medical Exempt	Religious Exempt	Missing Cert.	1 Tdap	1 MCV	3+ HepB	2 MMR	2 Varicella
Kentucky	54,934	53,211	223	442	814	45,933	45,063	52,673	53,518	51,553
(Total)	54,554	96.9%	0.4%	0.8%	1.5%	83.6%	82.0%	95.9%	97.4%	93.8%
Robertson	24	24	0	0	0	23	24	24	24	24
Robertson		100.0%	0.0%	0.0%	0.0%	95.8%	100.0%	100.0%	100.0%	100.0%
Rockcastle	197	195	0	2	0	171	171	196	196	189
		99.0%	0.0%	1.0%	0.0%	86.8%	86.8%	99.5%	99.5%	95.9%
Rowan	291	279	0	1	11	159	157	274	275	247
		95.9%	0.0%	0.3%	3.8%	54.6%	54.0%	94.2%	94.5%	84.9%
Russell	230	229	1	0	0	227	226	229	229	225
		99.6%	0.4%	0.0%	0.0%	98.7%	98.3%	99.6%	99.6%	97.8%
Scott	750	708	7	3	33	560	561	600	705	682
		94.4%	0.9%	0.4%	4.4%	74.7%	74.8%	80.0%	94.0%	90.9%
Shelby	529	517	0	7	4	425	418	515	507	498
,		97.7%	0.0%	1.3%	0.8%	80.3%	79.0%	97.4%	95.8%	94.1%
Simpson	221	216	2	3	0	216	216	216	216	216
•		97.7%	0.9%	1.4%	0.0%	97.7%	97.7%	97.7%	97.7%	97.7%
Spencer	235	234	1	0	0	234	234	235	235	235
		99.6%	0.4%	0.0%	0.0%	99.6%	99.6%	100.0%	100.0%	100.0%
Taylor	295	290	1	2	2	163	162	284	278	250
·		98.3%	0.3%	0.7%	0.7%	55.3%	54.9%	96.3%	94.2%	84.7%
Todd	169	166	0	0	3	133	130	144	165	165
		98.2%	0.0%	0.0%	1.8%	78.7%	76.9%	85.2%	97.6%	97.6%
Trigg	153	151	1	0	1	144	142	152	152	151
		98.7%	0.7%	0.0%	0.7%	94.1%	92.8%	99.3%	99.3%	98.7%
Trimble	98	98	0	0	0	92	91	98	98	94
		100.0%	0.0%	0.0%	0.0%	93.9%	92.9%	100.0%	100.0%	95.9%
Union	199	196	1	2	0	194	189	196	196	190
		98.5%	0.5%	1.0%	0.0%	97.5%	95.0%	98.5%	98.5%	95.5%
Warren	1,355	1,310	10	9	28	823	879	1,302	1,325	1,182
	,	96.7%	0.7%	0.7%	2.1%	60.7%	64.9%	96.1%	97.8%	87.2%
Washington	141	132	1	2	6	124	123	135	133	132
		93.6%	0.7%	1.4%	4.3%	87.9%	87.2%	95.7%	94.3%	93.6%
Wayne	258	250	3	3	2	244	247	254	254	252
·		96.9%	1.2%	1.2%	0.8%	94.6%	95.7%	98.4%	98.4%	97.7%
Webster	167	149	2	0	11	151	137	153	151	146
		89.2%	1.2%	0.0%	6.6%	90.4%	82.0%	91.6%	90.4%	87.4%
Whitley	590	578	4	6	2	476	473	507	577	547
,		98.0%	0.7%	1.0%	0.3%	80.7%	80.2%	85.9%	97.8%	92.7%
Wolfe	96	89	0	0	3	59	49	89	88	77
		92.7%	0.0%	0.0%	3.1%	61.5%	51.0%	92.7%	91.7%	80.2%
Woodford	310	303	1	6	0	300	298	304	305	297
		97.7%	0.3%	1.9%	0.0%	96.8%	96.1%	98.1%	98.4%	95.8%

APPENDIX C

KENTUCKY ANNUAL SCHOOL IMMUNIZATION SURVEY REPORT 2016 – 2017

Changes in Percent of Coverage Rates by Vaccine and Changes in Rank Order of Counties by Vaccine, Comparing Results of the 2015-2016 to the 2016-2017 Annual School Immunization Surveys, by County for Kindergarten or Sixth Grade

KINDERGARTEN - Sorted by County Name in Alphabetical Order (C-1) SIXTH GRADE - Sorted by County Name in Alphabetical Order (C-2)

Two-Year Comparison of Changes in Percent of Coverage Rates, by County

Each of the age-specific reports for Kindergarten (Appendix C-1) or Sixth Grade (Appendix C-2) provides the change in percent of coverage rates for all five age-appropriate vaccinations surveyed, and the change in rank order of county rankings for all five age-appropriate vaccinations surveyed when comparing the results of the 2015-2016 to the 2016-2017 Annual School Immunization Surveys.

The change in county coverage rates (i.e., change in percentage) for each age-appropriate vaccine compared with the previous year's results were calculated for each county. Counties were classified into two groups:

•	Counties with a positive change in percent were highlighted in yellow.	
•	Counties with a negative change in percent were highlighted in blue.	

The change in rank order of a county from the previous year's results was assessed using the difference in the rank order from 2015-2016 to 2016-2017 for all five age-appropriate vaccinations surveyed. Counties were classified into two groups:

•	Counties with a positive change in rank order were highlighted in yellow.	
•	Counties with a negative change in rank order were highlighted in blue.	

Several objectives for Immunizations were defined by Healthy People 2020 (HP 2020), http://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases. The attainment of age-appropriate target measures for these Objectives is used annually by the Kentucky Immunization Program to identify schools that have been successful with vaccination compliance for school age children in the survey year.

The age-appropriate HP 2020 target measures, assessed in schools, were:

Kindergarten, by selected vaccines and doses:

• 95% or greater for 4+ DTaP, 3+ Polio, 3+ HepB, 2 MMR, and 2 Varicella;

Sixth Grade, by selected vaccines and doses:

- 80% or greater for 1 Tdap and 1 MenACWY, and
- 90% or greater for 2 Varicella

Two target Immunizations measures defined by the Kentucky Immunization Program (KIP) for adolescents, were adapted from definitions in Healthy People 2010 Objectives,

(https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/DATA2010/Focusarea14/O1427a.pdf) and (https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/DATA2010/Focusarea14/O1427b.pdf).

The age-appropriate KIP target measures, assessed in schools, were:

<u>Sixth Grade</u>, by selected vaccines and doses:

• 95% or greater for 3 HepB and 2 MMR.

If any of the age-appropriate HP 2020 or KIP target measures were not met for a county or school, the background of the cell for the corresponding vaccine (COLUMN) for a given county or school (ROW) has been highlighted in red.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
Adair	100.0%	1	100.0%	1	0.0%	0	
Allen	97.0%	36	99.5%	10	2.5%	26	
Anderson	96.6%	41	93.9%	80	-2.8%	-39	
Ballard	98.9%	13	100.0%	1	1.1%	12	
Barren	87.3%	93	97.7%	39	11.9%	54	
Bath	90.1%	85	82.5%	114	-8.4%	-29	
Bell	89.4%	88	88.9%	101	-0.7%	-13	
Boone	97.3%	28	96.7%	62	-0.6%	-34	
Bourbon	95.2%	53	98.0%	30	2.9%	23	
Boyd	93.8%	64	93.0%	85	-0.9%	-21	
Boyle	90.6%	80	97.7%	38	7.8%	42	
Bracken	97.1%	34	94.6%	75	-2.6%	-41	
Breathitt	90.0%	86	95.4%	67	6.0%	19	
Breckinridge	97.8%	22	94.7%	73	-3.2%	-51	
Bullitt	94.3%	57	95.0%	71	0.7%	-14	
Butler	0.0%	110	95.4%	68	100.0%	42	
Caldwell	97.8%	23	97.9%	35	0.1%	-12	
Calloway	96.6%	40	97.4%	49	0.8%	-9	
Campbell	93.4%	67	97.9%	33	4.8%	34	
Carlisle	90.2%	82	98.3%	26	9.0%	56	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
Carroll	83.4%	99	83.0%	112	-0.5%	-13	
Carter	93.4%	68	98.4%	24	5.4%	44	
Casey	95.9%	49	91.9%	92	-4.2%	-43	
Christian	89.7%	87	92.9%	86	3.6%	1	
Clark	84.8%	98	98.4%	25	15.9%	73	
Clay	96.8%	37	91.0%	96	-5.9%	-59	
Clinton	88.5%	91	93.6%	83	5.8%	8	
Crittenden	68.8%	109	67.5%	118	-1.9%	-9	
Cumberland	0.0%	110	90.5%	98	100.0%	12	
Daviess	90.3%	81	92.3%	91	2.1%	-10	
Edmonson	100.0%	1	0.0%	119	-100.0%	-118	
Elliott	0.0%	110	98.7%	17	100.0%	93	
Estill	87.2%	94	86.1%	107	-1.2%	-13	
Fayette	96.7%	38	97.5%	48	0.8%	-10	
Fleming	100.0%	1	98.7%	17	-1.3%	-16	
Floyd	99.3%	9	97.6%	43	-1.7%	-34	
Franklin	94.2%	59	99.5%	9	5.7%	50	
Fulton	98.7%	16	100.0%	1	1.3%	15	
Gallatin	0.0%	110	97.2%	54	100.0%	56	
Garrard	76.5%	108	75.3%	116	-1.7%	-8	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
Grant	97.9%	21	98.6%	20	0.7%	1	
Graves	99.5%	7	97.8%	36	-1.7%	-29	
Grayson	100.0%	1	97.9%	31	-2.1%	-30	
Green	93.5%	66	97.1%	56	3.9%	10	
Greenup	97.2%	31	97.4%	51	0.2%	-20	
Hancock	95.9%	51	98.0%	28	2.2%	23	
Hardin	76.9%	107	86.8%	103	12.9%	4	
Harlan	81.8%	105	84.5%	110	3.4%	-5	
Harrison	93.3%	69	95.7%	65	2.6%	4	
Hart	82.3%	103	94.0%	79	14.3%	24	
Henderson	96.3%	45	91.6%	93	-4.9%	-48	
Henry	96.1%	46	98.8%	14	2.8%	32	
Hickman	100.0%	1	97.8%	37	-2.2%	-36	
Hopkins	96.4%	44	95.6%	66	-0.8%	-22	
Jackson	100.0%	1	97.6%	41	-2.4%	-40	
Jefferson	91.4%	77	91.5%	94	0.1%	-17	
Jessamine	0.0%	110	93.9%	81	100.0%	29	
Johnson	90.1%	84	96.9%	59	7.6%	25	
Kenton	96.6%	39	96.9%	60	0.3%	-21	
Knott	92.2%	74	86.4%	104	-6.2%	-30	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
Knox	88.6%	90	82.6%	113	-6.8%	-23	
LaRue	97.2%	32	98.7%	16	1.6%	16	
Laurel	90.2%	83	92.8%	88	2.9%	-5	
Lawrence	85.5%	97	89.3%	99	4.4%	-2	
Lee	0.0%	110	95.2%	70	100.0%	40	
Leslie	95.9%	50	97.4%	50	1.5%	0	
Letcher	94.6%	56	98.0%	29	3.6%	27	
Lewis	93.9%	62	89.1%	100	-5.1%	-38	
Lincoln	94.9%	55	97.2%	55	2.4%	0	
Livingston	82.7%	102	91.2%	95	10.2%	7	
Logan	92.9%	71	85.8%	108	-7.6%	-37	
Lyon	82.1%	104	100.0%	1	21.8%	103	
Madison	95.5%	52	96.2%	64	0.7%	-12	
Magoffin	86.2%	96	81.5%	115	-5.4%	-19	
Marion	99.0%	12	97.3%	52	-1.7%	-40	
Marshall	92.6%	73	92.4%	89	-0.3%	-16	
Martin	98.9%	14	100.0%	1	1.1%	13	
Mason	80.6%	106	93.6%	82	16.1%	24	
McCracken	94.9%	54	95.3%	69	0.3%	-15	
McCreary	93.7%	65	94.7%	74	1.0%	-9	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
McLean	96.1%	47	99.2%	11	3.1%	36	
Meade	99.1%	11	99.0%	12	-0.1%	-1	
Menifee	93.0%	70	98.4%	23	5.8%	47	
Mercer	94.2%	58	98.7%	19	4.7%	39	
Metcalfe		110	83.3%	111	100.0%	-1	
Monroe	96.1%	48	97.0%	58	1.0%	-10	
Montgomery	91.4%	76	97.5%	47	6.7%	29	
Morgan	98.7%	17	97.9%	34	-0.8%	-17	
Muhlenberg	93.9%	61	94.3%	76	0.4%	-15	
Nelson	91.4%	78	90.9%	97	-0.5%	-19	
Nicholas	0.0%	110	0.0%	119	0.0%	-9	
Ohio	92.7%	72	86.4%	105	-6.8%	-33	
Oldham	96.5%	43	97.6%	43	1.2%	0	
Owen	97.3%	27	100.0%	1	2.8%	26	
Owsley	0.0%	110	97.7%	40	100.0%	70	
Pendleton	0.0%	110	98.6%	21	100.0%	89	
Perry	89.4%	89	69.8%	117	-21.9%	-28	
Pike	99.2%	10	97.6%	42	-1.6%	-32	
Powell	88.5%	92	92.3%	90	4.4%	2	
Pulaski	98.5%	19	98.2%	27	-0.3%	-8	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.3%	N/A	92.7%	N/A	-0.6%	N/A	
Robertson	97.1%	35	100.0%	1	3.0%	34	
Rockcastle	97.4%	26	97.6%	43	0.2%	-17	
Rowan	94.1%	60	94.3%	77	0.1%	-17	
Russell	97.1%	33	98.8%	14	1.7%	19	
Scott	92.0%	75	88.0%	102	-4.4%	-27	
Shelby	97.2%	30	96.6%	63	-0.7%	-33	
Simpson	97.7%	25	97.2%	53	-0.5%	-28	
Spencer	98.1%	20	98.9%	13	0.8%	7	
Taylor	98.7%	15	97.1%	57	-1.7%	-42	
Todd	97.2%	29	93.4%	84	-4.0%	-55	
Trigg	97.8%	24	97.9%	31	0.1%	-7	
Trimble	0.0%	110	94.1%	78	100.0%	32	
Union	83.0%	101	92.8%	87	11.7%	14	
Warren	86.3%	95	84.8%	109	-1.8%	-14	
Washington	96.6%	41	94.9%	72	-1.8%	-31	
Wayne	99.5%	8	99.6%	8	0.1%	0	
Webster	83.4%	100	86.2%	106	3.3%	-6	
Whitley	90.9%	79	96.9%	61	6.5%	18	
Wolfe	93.9%	63	98.6%	22	5.0%	41	
Woodford	98.6%	18	97.6%	46	-1.1%	-28	

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A	
Adair	100.0%	1	100.0%	2	0.0%	-1	
Allen	99.1%	9	99.0%	9	-0.2%	0	
Anderson	96.6%	34	92.9%	72	-3.8%	-38	
Ballard	98.9%	11	100.0%	2	1.1%	9	
Barren	96.6%	30	97.3%	27	0.7%	3	
Bath	88.1%	87	80.8%	111	-8.3%	-24	
Bell	88.7%	85	87.2%	98	-1.7%	-13	
Boone	97.0%	26	996.2%	1	926.9%	25	
Bourbon	94.0%	52	97.4%	26	3.6%	26	
Boyd	91.6%	68	94.3%	64	3.0%	4	
Boyle	71.6%	108	96.8%	37	35.1%	71	
Bracken	95.2%	48	91.8%	79	-3.5%	-31	
Breathitt	83.3%	99	91.5%	81	9.8%	18	
Breckinridge	96.7%	29	94.7%	63	-2.1%	-34	
Bullitt	92.9%	61	94.1%	67	1.3%	-6	
Butler	0.0%	110	91.5%	82	100.0%	28	
Caldwell	95.7%	44	96.4%	46	0.8%	-2	
Calloway	96.6%	32	97.4%	24	0.8%	8	
Campbell	97.2%	23	97.7%	20	0.5%	3	
Carlisle	90.2%	73	96.6%	42	7.1%	31	

^{*}Includes all schools who reported within a given county.

	2 MMR							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A		
Carroll	84.7%	95	80.7%	112	-4.7%	-17		
Carter	92.3%	63	97.4%	25	5.5%	38		
Casey	96.5%	35	91.9%	78	-4.7%	-43		
Christian	87.5%	90	91.4%	83	4.5%	7		
Clark	72.7%	106	95.1%	60	30.7%	46		
Clay	96.5%	37	89.9%	92	-6.8%	-55		
Clinton	89.2%	81	91.2%	84	2.2%	-3		
Crittenden	81.7%	101	79.2%	113	-3.1%	-12		
Cumberland	0.0%	110	90.5%	87	100.0%	23		
Daviess	70.4%	109	75.9%	116	7.8%	-7		
Edmonson	98.2%	19	0.0%	119	-100.0%	-100		
Elliott	0.0%	110	98.7%	12	100.0%	98		
Estill	83.8%	98	86.1%	101	2.8%	-3		
Fayette	95.7%	43	96.6%	41	0.9%	2		
Fleming	100.0%	1	98.1%	15	-1.9%	-14		
Floyd	98.2%	20	97.1%	34	-1.1%	-14		
Franklin	92.9%	60	96.8%	37	4.2%	23		
Fulton	98.7%	13	100.0%	2	1.3%	11		
Gallatin	0.0%	110	96.3%	48	100.0%	62		
Garrard	71.8%	107	70.0%	117	-2.5%	-10		

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A	
Grant	95.7%	42	97.9%	18	2.2%	24	
Graves	98.5%	17	96.2%	51	-2.4%	-34	
Grayson	99.6%	7	97.2%	32	-2.5%	-25	
Green	90.6%	72	95.2%	59	5.0%	13	
Greenup	96.1%	40	95.9%	54	-0.3%	-14	
Hancock	95.9%	41	99.0%	8	3.3%	33	
Hardin	86.8%	92	84.0%	105	-3.2%	-13	
Harlan	76.1%	105	84.0%	106	10.4%	-1	
Harrison	91.5%	69	96.2%	50	5.2%	19	
Hart	96.6%	31	93.4%	70	-3.3%	-39	
Henderson	93.8%	53	92.4%	75	-1.5%	-22	
Henry	95.7%	45	98.8%	11	3.3%	34	
Hickman	100.0%	1	97.8%	19	-2.2%	-18	
Hopkins	95.6%	46	64.1%	118	-33.0%	-72	
Jackson	100.0%	1	96.5%	44	-3.5%	-43	
Jefferson	90.2%	74	90.3%	89	0.1%	-15	
Jessamine	0.0%	110	95.0%	62	100.0%	48	
Johnson	87.6%	89	95.3%	58	8.8%	31	
Kenton	96.3%	39	96.6%	42	0.3%	-3	
Knott	91.2%	70	85.3%	103	-6.4%	-33	

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A	
Knox	86.0%	94	86.1%	100	0.2%	-6	
LaRue	97.2%	24	97.5%	23	0.3%	1	
Laurel	89.1%	82	92.2%	76	3.4%	6	
Lawrence	79.2%	103	83.1%	108	4.8%	-5	
Lee	0.0%	110	92.1%	77	100.0%	33	
Leslie	89.8%	77	96.1%	53	7.0%	24	
Letcher	93.1%	56	95.7%	55	2.7%	1	
Lewis	92.1%	65	93.6%	69	1.6%	-4	
Lincoln	96.4%	38	95.4%	57	-1.0%	-19	
Livingston	79.0%	104	97.1%	36	22.8%	68	
Logan	84.5%	96	82.7%	109	-2.2%	-13	
Lyon	89.6%	79	97.9%	16	9.3%	63	
Madison	93.7%	54	93.8%	68	0.1%	-14	
Magoffin	87.4%	91	77.8%	115	-11.0%	-24	
Marion	95.0%	50	97.3%	30	2.4%	20	
Marshall	88.8%	84	90.2%	90	1.6%	-6	
Martin	96.6%	33	90.2%	91	-6.7%	-58	
Mason	81.7%	101	90.4%	88	10.7%	13	
McCracken	93.6%	55	93.0%	71	-0.6%	-16	
McCreary	84.3%	97	90.7%	86	7.5%	11	

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A	
McLean	96.9%	27	97.3%	29	0.4%	-2	
Meade	98.8%	12	99.0%	9	0.2%	3	
Menifee	91.9%	67	98.4%	13	7.2%	54	
Mercer	99.6%	8	97.3%	27	-2.3%	-19	
Metcalfe	0.0%	110	78.1%	114	100.0%	-4	
Monroe	94.5%	51	95.6%	56	1.1%	-5	
Montgomery	90.0%	75	95.0%	61	5.6%	14	
Morgan	98.7%	14	96.5%	45	-2.3%	-31	
Muhlenberg	93.0%	58	86.8%	99	-6.7%	-41	
Nelson	88.3%	86	87.7%	97	-0.7%	-11	
Nicholas	0.0%	110	0.0%	119	0.0%	-9	
Ohio	89.1%	83	83.9%	107	-5.8%	-24	
Oldham	96.5%	36	97.6%	22	1.2%	14	
Owen	97.3%	22	99.2%	7	2.0%	15	
Owsley	0.0%	110	97.7%	21	100.0%	89	
Pendleton	0.0%	110	97.2%	33	100.0%	77	
Perry	86.4%	93	85.8%	102	-0.7%	-9	
Pike	92.1%	64	96.3%	49	4.5%	15	
Powell	89.4%	80	89.1%	95	-0.4%	-15	
Pulaski	97.8%	21	97.1%	34	-0.7%	-13	

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	92.0%	N/A	91.5%	N/A	-0.5%	N/A	
Robertson	97.1%	25	100.0%	2	3.0%	23	
Rockcastle	99.0%	10	94.3%	65	-4.8%	-55	
Rowan	93.0%	57	91.0%	85	-2.2%	-28	
Russell	96.8%	28	97.9%	16	1.2%	12	
Scott	90.0%	76	89.4%	93	-0.6%	-17	
Shelby	95.4%	47	96.2%	52	0.8%	-5	
Simpson	98.6%	15	96.8%	37	-1.8%	-22	
Spencer	98.6%	16	99.4%	6	0.9%	10	
Taylor	100.0%	1	96.3%	47	-3.7%	-46	
Todd	95.2%	49	92.7%	74	-2.7%	-25	
Trigg	91.9%	66	91.6%	80	-0.4%	-14	
Trimble	0.0%	110	94.1%	66	100.0%	44	
Union	93.0%	59	92.8%	73	-0.2%	-14	
Warren	87.8%	88	89.3%	94	1.6%	-6	
Washington	92.4%	62	89.0%	96	-3.7%	-34	
Wayne	100.0%	1	98.3%	14	-1.7%	-13	
Webster	82.9%	100	84.5%	104	2.0%	-4	
Whitley	90.6%	71	96.7%	40	6.7%	31	
Wolfe	89.8%	77	81.9%	110	-8.8%	-33	
Woodford	98.3%	18	97.2%	31	-1.1%	-13	

^{*}Includes all schools who reported within a given county.

	3+ Polio						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A	
Adair	100.0%	2	98.8%	17	-1.2%	-15	
Allen	98.7%	17	99.0%	11	0.3%	6	
Anderson	96.6%	41	92.5%	88	-4.3%	-47	
Ballard	98.9%	16	98.9%	15	0.0%	1	
Barren	96.5%	45	98.0%	31	1.6%	14	
Bath	90.1%	86	82.5%	112	-8.4%	-26	
Bell	89.8%	90	88.9%	99	-1.1%	-9	
Boone	97.2%	31	96.4%	61	-0.8%	-30	
Bourbon	96.4%	48	98.9%	13	2.6%	35	
Boyd	91.8%	78	94.5%	76	2.9%	2	
Boyle	91.5%	81	97.1%	52	6.1%	29	
Bracken	98.1%	24	96.4%	62	-1.8%	-38	
Breathitt	90.0%	87	96.1%	67	6.8%	20	
Breckinridge	97.3%	29	96.9%	55	-0.4%	-26	
Bullitt	94.3%	64	95.9%	68	1.7%	-4	
Butler	0.0%	110	95.4%	70	100.0%	40	
Caldwell	97.1%	33	97.9%	37	0.8%	-4	
Calloway	96.6%	41	97.1%	53	0.5%	-12	
Campbell	97.2%	31	97.8%	39	0.6%	-8	
Carlisle	90.2%	85	98.3%	24	9.0%	61	

^{*}Includes all schools who reported within a given county.

	3+ Polio						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A	
Carroll	75.8%	109	77.8%	116	2.6%	-7	
Carter	94.1%	66	98.7%	20	4.9%	46	
Casey	94.8%	60	93.2%	83	-1.7%	-23	
Christian	89.9%	89	93.4%	81	3.9%	8	
Clark	87.9%	99	97.5%	46	11.0%	53	
Clay	97.7%	27	90.3%	94	-7.6%	-67	
Clinton	88.5%	97	88.8%	100	0.3%	-3	
Crittenden	78.5%	106	79.2%	115	0.9%	-9	
Cumberland	0.0%	110	88.9%	97	100.0%	13	
Daviess	89.3%	93	91.6%	91	2.5%	2	
Edmonson	100.0%	2	0.0%	119	-100.0%	-117	
Elliott	0.0%	110	97.4%	47	100.0%	63	
Estill	87.2%	100	88.9%	97	1.9%	3	
Fayette	96.5%	45	97.7%	43	1.2%	2	
Fleming	100.0%	2	98.7%	19	-1.3%	-17	
Floyd	98.3%	22	97.6%	44	-0.7%	-22	
Franklin	94.4%	63	99.5%	7	5.4%	56	
Fulton	98.7%	17	100.0%	1	1.3%	16	
Gallatin	0.0%	110	94.4%	77	100.0%	33	
Garrard	77.5%	107	74.7%	117	-3.6%	-10	

^{*}Includes all schools who reported within a given county.

	3+ Polio						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A	
Grant	97.9%	26	98.6%	21	0.7%	5	
Graves	99.5%	10	97.6%	45	-1.9%	-35	
Grayson	100.0%	2	96.8%	57	-3.2%	-55	
Green	92.0%	77	98.1%	28	6.6%	49	
Greenup	95.9%	50	95.1%	71	-0.8%	-21	
Hancock	96.7%	38	99.0%	10	2.4%	28	
Hardin	88.6%	96	87.0%	104	-1.8%	-8	
Harlan	81.5%	104	86.6%	106	6.3%	-2	
Harrison	95.1%	56	96.7%	59	1.7%	-3	
Hart	96.6%	41	94.6%	75	-2.1%	-34	
Henderson	95.0%	57	92.5%	87	-2.6%	-30	
Henry	95.7%	53	99.6%	5	4.1%	48	
Hickman	100.0%	2	97.8%	40	-2.2%	-38	
Hopkins	96.5%	45	95.8%	69	-0.8%	-24	
Jackson	100.4%	1	98.0%	32	-2.4%	-31	
Jefferson	91.7%	79	92.1%	89	0.4%	-10	
Jessamine	0.0%	110	96.2%	66	100.0%	44	
Johnson	89.7%	91	96.3%	65	7.3%	26	
Kenton	96.9%	35	97.0%	54	0.1%	-19	
Knott	92.2%	76	87.6%	102	-5.0%	-26	

^{*}Includes all schools who reported within a given county.

	3+ Polio						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A	
Knox	88.9%	95	85.6%	108	-3.7%	-13	
LaRue	96.7%	38	98.7%	18	2.1%	20	
Laurel	89.3%	93	94.7%	74	6.1%	19	
Lawrence	77.3%	108	84.2%	110	8.9%	-2	
Lee	0.0%	110	87.3%	103	100.0%	7	
Leslie	95.9%	50	98.1%	30	2.2%	20	
Letcher	94.9%	58	98.0%	32	3.3%	26	
Lewis	92.7%	73	91.7%	90	-1.1%	-17	
Lincoln	93.8%	67	97.9%	36	4.3%	31	
Livingston	82.7%	102	92.7%	86	12.0%	16	
Logan	90.4%	84	91.3%	92	1.1%	-8	
Lyon	91.0%	82	97.9%	34	7.6%	48	
Madison	95.7%	52	96.5%	60	0.8%	-8	
Magoffin	89.9%	88	82.1%	114	-8.7%	-26	
Marion	98.7%	19	97.7%	41	-1.0%	-22	
Marshall	92.3%	75	93.5%	80	1.2%	-5	
Martin	97.7%	27	100.0%	1	2.4%	26	
Mason	87.1%	101	96.3%	64	10.5%	37	
McCracken	95.6%	54	91.3%	93	-4.6%	-39	
McCreary	94.5%	62	95.1%	71	0.6%	-9	

^{*}Includes all schools who reported within a given county.

				3+ Polio		
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A
McLean	96.9%	36	98.3%	24	1.5%	12
Meade	99.1%	14	99.0%	11	-0.1%	3
Menifee	93.0%	69	98.4%	23	5.8%	46
Mercer	94.6%	61	98.2%	26	3.8%	35
Metcalfe	0.0%	110	83.3%	111	100.0%	-1
Monroe	96.9%	37	96.3%	63	-0.6%	-26
Montgomery	93.0%	71	96.9%	56	4.2%	15
Morgan	99.3%	12	97.2%	51	-2.2%	-39
Muhlenberg	93.0%	70	90.1%	96	-3.1%	-26
Nelson	91.7%	80	90.3%	94	-1.5%	-14
Nicholas	0.0%	110	0.0%	119	0.0%	-9
Ohio	93.6%	68	86.4%	107	-7.7%	-39
Oldham	97.2%	30	97.9%	38	0.7%	-8
Owen	95.5%	55	99.2%	8	3.9%	47
Owsley	0.0%	110	100.0%	1	100.0%	109
Pendleton	0.0%	110	98.6%	22	100.0%	88
Perry	91.0%	83	88.5%	101	-2.8%	-18
Pike	99.5%	8	98.1%	28	-1.5%	-20
Powell	89.4%	92	93.0%	84	3.9%	8
Pulaski	98.1%	23	98.1%	27	-0.1%	-4

^{*}Includes all schools who reported within a given county.

		3+ Polio						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	93.9%	N/A	92.7%	N/A	-1.3%	N/A		
Robertson	97.1%	34	100.0%	1	3.0%	33		
Rockcastle	96.4%	49	99.0%	9	2.7%	40		
Rowan	94.1%	65	93.7%	79	-0.4%	-14		
Russell	98.6%	20	98.8%	16	0.2%	4		
Scott	92.9%	72	73.8%	118	-20.6%	-46		
Shelby	96.6%	40	96.8%	58	0.2%	-18		
Simpson	99.5%	9	97.7%	42	-1.8%	-33		
Spencer	99.0%	15	98.9%	14	-0.2%	1		
Taylor	99.4%	11	97.4%	48	-1.9%	-37		
Todd	97.9%	25	93.4%	82	-4.6%	-57		
Trigg	98.5%	21	97.2%	50	-1.4%	-29		
Trimble	0.0%	110	94.1%	78	100.0%	32		
Union	82.5%	103	92.8%	85	12.5%	18		
Warren	88.5%	98	82.2%	113	-7.1%	-15		
Washington	96.6%	44	94.9%	73	-1.8%	-29		
Wayne	100.0%	2	99.6%	6	-0.4%	-4		
Webster	79.6%	105	86.7%	105	9.0%	0		
Whitley	92.7%	74	97.2%	49	4.9%	25		
Wolfe	94.9%	59	84.8%	109	-10.7%	-50		
Woodford	99.3%	13	97.9%	35	-1.4%	-22		

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A	
Adair	99.5%	4	100.0%	1	0.5%	3	
Allen	97.0%	27	99.0%	8	2.0%	19	
Anderson	96.6%	32	90.6%	86	-6.2%	-54	
Ballard	98.9%	10	98.9%	9	0.0%	1	
Barren	96.3%	34	97.5%	22	1.2%	12	
Bath	86.2%	88	80.8%	110	-6.2%	-22	
Bell	87.7%	84	86.9%	100	-0.9%	-16	
Boone	96.4%	33	95.8%	50	-0.6%	-17	
Bourbon	94.0%	51	98.4%	13	4.8%	38	
Boyd	91.0%	69	91.5%	81	0.5%	-12	
Boyle	70.2%	107	93.9%	66	33.6%	41	
Bracken	97.1%	24	90.9%	83	-6.4%	-59	
Breathitt	83.3%	96	92.2%	76	10.6%	20	
Breckinridge	96.7%	30	93.4%	69	-3.5%	-39	
Bullitt	92.5%	63	93.7%	67	1.4%	-4	
Butler	0.0%	110	92.1%	77	100.0%	33	
Caldwell	95.0%	47	96.4%	39	1.5%	8	
Calloway	96.0%	38	96.8%	33	0.7%	5	
Campbell	96.3%	35	97.0%	27	0.7%	8	
Carlisle	90.2%	74	96.6%	36	7.1%	38	

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A	
Carroll	70.7%	106	77.2%	112	9.2%	-6	
Carter	90.6%	73	96.8%	34	6.8%	39	
Casey	94.8%	49	91.3%	82	-3.7%	-33	
Christian	87.7%	82	90.7%	84	3.4%	-2	
Clark	75.8%	104	95.1%	57	25.5%	47	
Clay	95.8%	39	89.9%	89	-6.1%	-50	
Clinton	91.4%	67	89.6%	91	-1.9%	-24	
Crittenden	76.3%	103	76.6%	113	0.4%	-10	
Cumberland	0.0%	110	92.1%	78	100.0%	32	
Daviess	65.5%	108	69.1%	117	5.5%	-9	
Edmonson	98.2%	17	0.0%	119	-100.0%	-102	
Elliott	0.0%	110	98.7%	11	100.0%	99	
Estill	83.8%	95	86.1%	101	2.8%	-6	
Fayette	95.1%	45	96.4%	40	1.4%	5	
Fleming	100.0%	1	96.8%	32	-3.2%	-31	
Floyd	98.7%	13	96.9%	28	-1.8%	-15	
Franklin	93.2%	56	97.9%	17	5.1%	39	
Fulton	98.7%	14	100.0%	1	1.3%	13	
Gallatin	0.0%	110	96.3%	42	100.0%	68	
Garrard	51.6%	109	67.9%	118	31.5%	-9	

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A	
Grant	95.4%	42	97.2%	25	1.8%	17	
Graves	98.5%	16	96.2%	46	-2.4%	-30	
Grayson	98.9%	11	96.8%	31	-2.1%	-20	
Green	90.6%	72	94.2%	62	4.0%	10	
Greenup	93.9%	52	95.5%	55	1.7%	-3	
Hancock	95.1%	46	99.0%	7	4.1%	39	
Hardin	85.7%	91	83.5%	107	-2.5%	-16	
Harlan	75.5%	105	84.0%	105	11.2%	0	
Harrison	90.9%	70	96.2%	45	5.9%	25	
Hart	97.0%	26	92.8%	72	-4.4%	-46	
Henderson	96.8%	28	92.5%	74	-4.4%	-46	
Henry	96.1%	37	98.0%	16	2.0%	21	
Hickman	100.0%	1	97.8%	21	-2.2%	-20	
Hopkins	95.2%	44	93.9%	65	-1.4%	-21	
Jackson	100.0%	1	96.5%	37	-3.5%	-36	
Jefferson	89.1%	80	89.0%	93	-0.1%	-13	
Jessamine	0.0%	110	94.0%	64	100.0%	46	
Johnson	86.2%	89	95.7%	53	11.0%	36	
Kenton	95.6%	40	96.3%	41	0.8%	-1	
Knott	90.7%	71	87.0%	98	-4.1%	-27	

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A	
Knox	84.5%	92	84.2%	103	-0.4%	-11	
LaRue	96.7%	31	96.2%	44	-0.5%	-13	
Laurel	87.6%	86	94.3%	61	7.6%	25	
Lawrence	79.2%	101	83.1%	108	4.8%	-7	
Lee	0.0%	110	90.5%	87	100.0%	23	
Leslie	87.8%	81	96.1%	47	9.5%	34	
Letcher	93.1%	57	95.7%	52	2.7%	5	
Lewis	92.7%	62	91.7%	79	-1.1%	-17	
Lincoln	95.3%	43	95.8%	51	0.5%	-8	
Livingston	79.0%	102	95.6%	54	21.0%	48	
Logan	81.2%	100	82.1%	109	1.1%	-9	
Lyon	89.6%	78	97.9%	17	9.3%	61	
Madison	93.5%	54	92.7%	73	-0.9%	-19	
Magoffin	86.2%	90	76.5%	114	-11.2%	-24	
Marion	97.6%	21	97.3%	24	-0.4%	-3	
Marshall	86.9%	87	88.9%	94	2.3%	-7	
Martin	97.7%	20	93.2%	70	-4.6%	-50	
Mason	82.3%	98	88.3%	96	7.3%	2	
McCracken	92.7%	61	89.6%	90	-3.4%	-29	
McCreary	84.3%	93	90.2%	88	7.0%	5	

^{*}Includes all schools who reported within a given county.

				2 Varicella		
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A
McLean	93.0%	58	99.2%	5	6.6%	53
Meade	99.4%	5	98.6%	12	-0.8%	-7
Menifee	91.9%	64	98.4%	13	7.2%	51
Mercer	98.8%	12	96.9%	29	-1.9%	-17
Metcalfe	0.0%	110	78.1%	111	100.0%	-1
Monroe	93.7%	53	94.8%	60	1.2%	-7
Montgomery	89.8%	76	95.0%	58	5.9%	18
Morgan	98.0%	18	96.5%	38	-1.6%	-20
Muhlenberg	93.0%	59	73.3%	116	-21.2%	-57
Nelson	87.6%	85	86.9%	99	-0.8%	-14
Nicholas	0.0%	110	0.0%	119	0.0%	-9
Ohio	81.8%	99	75.6%	115	-7.6%	-16
Oldham	96.2%	36	97.5%	23	1.3%	13
Owen	95.5%	41	98.4%	15	3.0%	26
Owsley	0.0%	110	98.8%	10	100.0%	100
Pendleton	0.0%	110	92.9%	71	100.0%	39
Perry	87.7%	83	84.0%	104	-4.2%	-21
Pike	99.2%	7	96.3%	43	-3.0%	-36
Powell	89.4%	79	88.5%	95	-1.1%	-16
Pulaski	97.3%	22	96.7%	35	-0.6%	-13

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	91.2%	N/A	90.9%	N/A	-0.3%	N/A	
Robertson	97.1%	25	100.0%	1	3.0%	24	
Rockcastle	99.0%	8	99.0%	6	0.1%	2	
Rowan	93.4%	55	90.7%	85	-2.9%	-30	
Russell	96.8%	29	97.9%	17	1.2%	12	
Scott	89.7%	77	89.6%	92	-0.2%	-15	
Shelby	94.8%	48	95.3%	56	0.5%	-8	
Simpson	97.2%	23	95.9%	49	-1.4%	-26	
Spencer	98.6%	15	99.4%	4	0.9%	11	
Taylor	99.4%	6	97.1%	26	-2.3%	-20	
Todd	94.5%	50	93.4%	68	-1.2%	-18	
Trigg	91.2%	68	91.6%	80	0.4%	-12	
Trimble	0.0%	110	94.1%	63	100.0%	47	
Union	93.0%	60	92.3%	75	-0.7%	-15	
Warren	84.0%	94	85.9%	102	2.2%	-8	
Washington	91.7%	65	88.2%	97	-3.8%	-32	
Wayne	99.0%	9	97.9%	20	-1.1%	-11	
Webster	82.3%	97	84.0%	106	2.0%	-9	
Whitley	91.5%	66	96.1%	48	5.0%	18	
Wolfe	89.8%	75	95.0%	59	5.8%	16	
Woodford	97.9%	19	96.9%	30	-1.1%	-11	

^{*}Includes all schools who reported within a given county.

	4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A	
Adair	100.0%	1	98.8%	12	-1.2%	-11	
Allen	97.9%	29	99.0%	8	1.1%	21	
Anderson	96.6%	46	93.4%	82	-3.3%	-36	
Ballard	98.9%	14	98.9%	10	0.0%	4	
Barren	97.1%	41	97.9%	25	0.8%	16	
Bath	90.4%	95	82.5%	113	-8.7%	-18	
Bell	90.1%	98	88.9%	101	-1.4%	-3	
Boone	96.9%	45	96.0%	60	-0.9%	-15	
Bourbon	95.2%	67	97.7%	32	2.6%	35	
Boyd	92.1%	90	93.8%	78	1.8%	12	
Boyle	90.6%	94	96.5%	54	6.5%	40	
Bracken	97.1%	41	94.6%	72	-2.6%	-31	
Breathitt	90.0%	99	95.4%	64	6.0%	35	
Breckinridge	97.8%	33	96.0%	61	-1.8%	-28	
Bullitt	93.4%	81	95.5%	62	2.3%	19	
Butler	0.0%	120	95.4%	65	100.0%	55	
Caldwell	96.4%	50	97.9%	25	1.5%	25	
Calloway	96.6%	46	97.1%	46	0.5%	0	
Campbell	97.6%	37	97.6%	33	0.0%	4	
Carlisle	90.2%	97	96.6%	50	7.1%	47	

^{*}Includes all schools who reported within a given county.

	4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A	
Carroll	77.8%	118	76.6%	116	-1.5%	2	
Carter	95.5%	63	98.1%	21	2.7%	42	
Casey	86.8%	110	93.2%	83	7.3%	27	
Christian	88.4%	105	92.5%	89	4.6%	16	
Clark	94.8%	68	97.5%	34	2.9%	34	
Clay	93.3%	82	88.1%	102	-5.6%	-20	
Clinton	97.7%	35	89.6%	99	-8.3%	-64	
Crittenden	86.9%	109	80.5%	115	-7.4%	-6	
Cumberland	95.8%	59	88.9%	100	-7.2%	-41	
Daviess	93.3%	84	91.4%	94	-2.0%	-10	
Edmonson	94.2%	77	0.0%	119	-100.0%	-42	
Elliott	96.2%	53	97.4%	36	1.3%	17	
Estill	89.8%	100	87.5%	103	-2.6%	-3	
Fayette	96.4%	49	97.4%	37	1.0%	12	
Fleming	98.2%	21	98.7%	14	0.5%	7	
Floyd	97.4%	39	96.9%	48	-0.5%	-9	
Franklin	92.2%	89	98.9%	11	7.2%	78	
Fulton	100.0%	1	100.0%	1	0.0%	0	
Gallatin	96.6%	48	91.7%	91	-5.1%	-43	
Garrard	77.5%	119	75.3%	117	-2.9%	2	

^{*}Includes all schools who reported within a given county.

	4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A	
Grant	95.6%	62	98.6%	16	3.1%	46	
Graves	97.0%	44	97.4%	38	0.3%	6	
Grayson	99.0%	11	96.5%	52	-2.6%	-41	
Green	94.6%	70	98.1%	20	3.6%	50	
Greenup	95.2%	66	94.7%	70	-0.5%	-4	
Hancock	93.2%	85	99.0%	7	6.2%	78	
Hardin	88.0%	106	86.7%	106	-1.5%	0	
Harlan	84.2%	114	85.6%	110	1.6%	4	
Harrison	91.2%	92	96.2%	57	5.5%	35	
Hart	98.8%	16	95.2%	67	-3.6%	-51	
Henderson	98.0%	27	93.2%	84	-4.9%	-57	
Henry	95.8%	60	99.2%	5	3.6%	55	
Hickman	100.0%	1	97.8%	29	-2.2%	-28	
Hopkins	97.9%	31	95.0%	69	-2.9%	-38	
Jackson	100.0%	1	97.2%	40	-2.8%	-39	
Jefferson	92.5%	88	91.5%	93	-1.1%	-5	
Jessamine	96.2%	53	94.4%	73	-1.8%	-20	
Johnson	90.3%	96	96.3%	56	6.6%	40	
Kenton	95.3%	65	96.6%	51	1.3%	14	
Knott	97.9%	30	87.0%	104	-11.1%	-74	

^{*}Includes all schools who reported within a given county.

	4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A	
Кпох	83.5%	116	86.1%	107	3.1%	9	
LaRue	100.0%	1	98.7%	13	-1.3%	-12	
Laurel	88.9%	104	94.4%	74	6.1%	30	
Lawrence	83.2%	117	83.1%	112	-0.1%	5	
Lee	87.4%	108	95.2%	66	9.0%	42	
Leslie	98.4%	19	96.1%	59	-2.4%	-40	
Letcher	94.4%	75	96.5%	53	2.2%	22	
Lewis	95.9%	56	91.0%	95	-5.1%	-39	
Lincoln	95.7%	61	97.2%	44	1.5%	17	
Livingston	90.7%	93	94.1%	77	3.7%	16	
Logan	89.2%	103	90.2%	98	1.1%	5	
Lyon	95.9%	58	97.9%	22	2.1%	36	
Madison	95.9%	57	95.5%	63	-0.5%	-6	
Magoffin	87.5%	107	92.1%	90	5.3%	17	
Marion	97.8%	32	97.3%	39	-0.6%	-7	
Marshall	94.0%	79	93.5%	80	-0.5%	-1	
Martin	97.3%	40	100.0%	1	2.7%	39	
Mason	86.7%	111	94.7%	71	9.2%	40	
McCracken	92.7%	86	93.6%	79	1.1%	7	
McCreary	98.2%	22	94.2%	75	-4.0%	-53	

^{*}Includes all schools who reported within a given county.

	4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A	
McLean	94.2%	78	99.2%	6	5.3%	72	
Meade	98.1%	24	98.6%	15	0.5%	9	
Menifee	98.8%	15	98.4%	18	-0.4%	-3	
Mercer	98.7%	17	98.2%	19	-0.5%	-2	
Metcalfe	99.1%	10	83.3%	111	-15.9%	-101	
Monroe	94.6%	71	96.3%	55	1.8%	16	
Montgomery	85.6%	113	97.8%	28	14.3%	85	
Morgan	100.0%	1	97.2%	45	-2.8%	-44	
Muhlenberg	95.5%	63	90.4%	96	-5.3%	-33	
Nelson	91.9%	91	90.3%	97	-1.7%	-6	
Nicholas	100.0%	1	0.0%	119	-100.0%	-118	
Ohio	83.8%	115	86.1%	108	2.8%	7	
Oldham	97.5%	38	97.9%	27	0.3%	11	
Owen	96.2%	51	96.8%	49	0.6%	2	
Owsley	94.5%	72	97.7%	31	3.3%	41	
Pendleton	97.7%	36	97.9%	24	0.2%	12	
Perry	94.4%	74	86.7%	105	-8.2%	-31	
Pike	98.0%	26	97.5%	35	-0.6%	-9	
Powell	86.5%	112	91.7%	91	6.0%	21	
Pulaski	89.3%	101	97.2%	40	8.8%	61	

^{*}Includes all schools who reported within a given county.

		4+ DTaP						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	93.8%	N/A	92.4%	N/A	-1.5%	N/A		
Robertson	100.0%	1	100.0%	1	0.0%	0		
Rockcastle	97.8%	34	98.6%	17	0.8%	17		
Rowan	93.3%	83	93.4%	81	0.2%	2		
Russell	98.2%	23	97.9%	22	-0.2%	1		
Scott	94.3%	76	73.1%	118	-22.5%	-42		
Shelby	96.2%	52	96.2%	58	0.0%	-6		
Simpson	99.5%	9	97.7%	30	-1.8%	-21		
Spencer	98.9%	12	98.9%	9	-0.1%	3		
Taylor	98.1%	25	97.1%	47	-1.0%	-22		
Todd	94.5%	73	92.7%	86	-2.0%	-13		
Trigg	97.9%	28	95.1%	68	-2.9%	-40		
Trimble	92.6%	87	92.7%	86	0.0%	1		
Union	97.1%	43	92.8%	85	-4.4%	-42		
Warren	96.0%	55	80.8%	114	-15.8%	-59		
Washington	94.7%	69	92.7%	86	-2.1%	-17		
Wayne	98.7%	18	99.6%	4	0.9%	14		
Webster	89.2%	102	85.6%	109	-4.0%	-7		
Whitley	93.9%	80	97.2%	40	3.6%	40		
Wolfe	98.9%	13	94.2%	76	-4.8%	-63		
Woodford	98.3%	20	97.2%	43	-1.1%	-23		

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
Adair	84.7%	100	96.9%	81	14.4%	19	
Allen	96.9%	73	98.7%	35	1.8%	38	
Anderson	98.3%	54	97.9%	60	-0.4%	-6	
Ballard	100.0%	1	100.0%	1	0.0%	0	
Barren	97.4%	69	97.7%	70	0.3%	-1	
Bath	100.0%	1	100.0%	1	0.0%	0	
Bell	85.2%	99	90.2%	100	5.9%	-1	
Boone	97.3%	70	98.4%	47	1.1%	23	
Bourbon	98.4%	49	99.3%	23	0.9%	26	
Boyd	55.8%	108	94.9%	90	70.2%	18	
Boyle	97.1%	71	98.1%	54	1.0%	17	
Bracken	100.0%	1	94.6%	92	-5.4%	-91	
Breathitt	100.0%	1	97.4%	73	-2.6%	-72	
Breckinridge	100.0%	1	74.6%	113	-25.4%	-112	
Bullitt	91.7%	89	94.6%	93	3.1%	-4	
Butler	0.0%	109	95.3%	88	100.0%	21	
Caldwell	100.0%	1	100.0%	1	0.0%	0	
Calloway	97.7%	65	96.9%	80	-0.8%	-15	
Campbell	99.5%	28	98.9%	29	-0.5%	-1	
Carlisle	93.9%	84	98.5%	44	4.8%	40	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
Carroll	100.0%	1	98.0%	58	-2.0%	-57	
Carter	99.2%	35	99.6%	14	0.4%	21	
Casey	94.7%	82	98.8%	32	4.4%	50	
Christian	97.0%	72	95.0%	89	-2.1%	-17	
Clark	93.8%	85	97.2%	77	3.7%	8	
Clay	99.2%	37	98.5%	40	-0.7%	-3	
Clinton	100.0%	1	97.4%	75	-2.6%	-74	
Crittenden	90.9%	91	99.3%	24	9.2%	67	
Cumberland	0.0%	109	87.5%	104	100.0%	5	
Daviess	98.2%	58	98.2%	53	0.0%	5	
Edmonson	99.4%	30	0.0%	116	-100.0%	-86	
Elliott	0.0%	109	100.0%	1	100.0%	108	
Estill	95.1%	81	97.7%	69	2.7%	12	
Fayette	98.2%	56	98.6%	38	0.4%	18	
Fleming	100.0%	1	100.0%	1	0.0%	0	
Floyd	99.7%	24	99.6%	16	-0.1%	8	
Franklin	82.4%	103	86.2%	107	4.6%	-4	
Fulton	100.0%	1	98.5%	40	-1.5%	-39	
Gallatin	99.2%	36	97.9%	62	-1.3%	-26	
Garrard	0.0%	109	98.0%	57	100.0%	52	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
Grant	100.0%	1	99.5%	20	-0.5%	-19	
Graves	98.1%	60	97.7%	68	-0.4%	-8	
Grayson	72.1%	106	98.3%	51	36.2%	55	
Green	95.7%	78	98.3%	48	2.8%	30	
Greenup	98.5%	48	99.2%	26	0.7%	22	
Hancock	0.0%	109	0.0%	116	0.0%	-7	
Hardin	99.1%	39	86.1%	108	-13.1%	-69	
Harlan	92.8%	87	89.5%	101	-3.7%	-14	
Harrison	0.0%	109	97.2%	78	100.0%	31	
Hart	77.0%	104	98.9%	31	28.5%	73	
Henderson	96.9%	74	64.0%	114	-34.0%	-40	
Henry	89.8%	94	95.6%	86	6.4%	8	
Hickman	100.0%	1	100.0%	1	0.0%	0	
Hopkins	98.4%	52	98.3%	50	-0.1%	2	
Jackson	90.9%	92	97.8%	65	7.6%	27	
Jefferson	97.5%	68	97.7%	67	0.2%	1	
Jessamine	0.0%	109	98.1%	55	100.0%	54	
Johnson	98.1%	59	95.6%	87	-2.6%	-28	
Kenton	98.9%	41	98.6%	37	-0.3%	4	
Knott	97.7%	66	98.5%	40	0.8%	26	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
Knox	96.8%	76	94.9%	91	-1.9%	-15	
LaRue	100.0%	1	99.5%	19	-0.5%	-18	
Laurel	98.5%	47	97.4%	74	-1.2%	-27	
Lawrence	99.4%	29	97.5%	72	-2.0%	-43	
Lee	85.2%	98	87.0%	106	2.0%	-8	
Leslie	100.0%	1	97.8%	64	-2.2%	-63	
Letcher	97.7%	67	98.0%	59	0.3%	8	
Lewis		109	98.9%	29	100.0%	80	
Lincoln	97.9%	64	98.7%	36	0.8%	28	
Livingston	91.1%	90	97.6%	71	7.1%	19	
Logan	98.6%	44	76.3%	112	-22.6%	-68	
Lyon	94.5%	83	98.8%	33	4.5%	50	
Madison	99.3%	31	99.1%	28	-0.2%	3	
Magoffin	87.5%	96	88.8%	102	1.4%	-6	
Marion	98.4%	53	56.0%	115	-43.1%	-62	
Marshall	98.0%	63	93.6%	95	-4.5%	-32	
Martin	99.2%	33	0.0%	116	-100.0%	-83	
Mason	90.7%	93	92.2%	98	1.6%	-5	
McCracken	98.1%	60	97.9%	63	-0.3%	-3	
McCreary	100.0%	1	99.5%	17	-0.5%	-16	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
McLean	98.2%	55	0.0%	116	-100.0%	-61	
Meade	99.5%	26	98.7%	34	-0.7%	-8	
Menifee	95.3%	80	98.3%	51	3.1%	29	
Mercer	99.1%	38	99.1%	27	0.0%	11	
Metcalfe	95.6%	79	96.2%	83	0.6%	-4	
Monroe	100.0%	1	99.2%	25	-0.8%	-24	
Montgomery	98.6%	46	87.5%	105	-11.3%	-59	
Morgan	98.8%	42	100.0%	1	1.2%	41	
Muhlenberg	86.2%	97	100.0%	1	16.0%	96	
Nelson	93.1%	86	97.2%	78	4.4%	8	
Nicholas	0.0%	109	0.0%	116	0.0%	-7	
Ohio	100.0%	1	92.9%	96	-7.1%	-95	
Oldham	98.1%	62	98.6%	39	0.5%	23	
Owen	0.0%	109	100.0%	1	100.0%	108	
Owsley	83.9%	101	100.0%	1	19.2%	100	
Pendleton	0.0%	109	98.3%	48	100.0%	61	
Perry	89.5%	95	88.3%	103	-1.4%	-8	
Pike	96.9%	75	97.9%	60	1.1%	15	
Powell	99.5%	27	99.4%	21	-0.1%	6	
Pulaski	99.3%	32	98.4%	46	-0.9%	-14	

^{*}Includes all schools who reported within a given county.

	3+ HepB						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2015-2016 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	95.3%	N/A	91.7%	N/A	-3.8%	N/A	
Robertson	96.3%	77	100.0%	1	3.9%	76	
Rockcastle	100.0%	1	99.5%	18	-0.5%	-17	
Rowan	98.4%	51	94.2%	94	-4.3%	-43	
Russell	98.6%	44	99.6%	15	1.0%	29	
Scott	83.3%	102	80.0%	111	-4.0%	-9	
Shelby	98.4%	50	97.4%	76	-1.1%	-26	
Simpson	100.0%	1	97.7%	66	-2.3%	-65	
Spencer	100.0%	1	100.0%	1	0.0%	0	
Taylor	99.5%	25	96.3%	82	-3.2%	-57	
Todd	98.7%	43	85.2%	110	-13.7%	-67	
Trigg	98.2%	56	99.4%	22	1.2%	34	
Trimble	0.0%	109	100.0%	1	100.0%	108	
Union	100.0%	1	98.5%	43	-1.5%	-42	
Warren	71.9%	107	96.1%	84	33.6%	23	
Washington	99.2%	34	95.7%	85	-3.5%	-51	
Wayne	100.0%	1	98.5%	45	-1.6%	-44	
Webster	72.9%	105	91.6%	99	25.7%	6	
Whitley	99.7%	23	85.9%	109	-13.8%	-86	
Wolfe	92.0%	88	92.7%	97	0.8%	-9	
Woodford	99.0%	40	98.1%	55	-1.0%	-15	

^{*}Includes all schools who reported within a given county.

	1 MenACWY							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A		
Adair	98.0%	11	90.2%	48	-7.9%	-37		
Allen	83.0%	69	76.1%	87	-8.3%	-18		
Anderson	84.5%	62	82.5%	78	-2.4%	-16		
Ballard	97.4%	14	97.8%	10	0.3%	4		
Barren	91.1%	37	82.8%	77	-9.1%	-40		
Bath	50.6%	106	51.3%	111	1.4%	-5		
Bell	29.9%	110	42.0%	114	40.4%	-4		
Boone	89.4%	44	92.7%	33	3.7%	11		
Bourbon	97.9%	12	92.1%	36	-6.0%	-24		
Boyd	31.8%	109	73.0%	92	129.7%	17		
Boyle	83.0%	68	90.7%	45	9.2%	23		
Bracken	75.4%	84	59.8%	106	-20.7%	-22		
Breathitt	75.9%	82	87.2%	62	14.9%	20		
Breckinridge	94.7%	28	95.4%	22	0.8%	6		
Bullitt	82.2%	72	84.7%	69	3.1%	3		
Butler	0.0%	111	74.3%	90	100.0%	21		
Caldwell	94.4%	32	96.5%	14	2.2%	18		
Calloway	97.4%	15	96.3%	15	-1.1%	0		
Campbell	96.6%	18	95.0%	26	-1.7%	-8		
Carlisle	77.3%	80	92.3%	34	19.5%	46		

^{*}Includes all schools who reported within a given county.

	1 MenACWY							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A		
Carroll	76.6%	81	77.3%	84	0.9%	-3		
Carter	94.7%	27	98.4%	7	3.9%	20		
Casey	84.1%	65	88.3%	58	5.0%	7		
Christian	73.2%	88	74.4%	89	1.7%	-1		
Clark	75.0%	86	48.5%	113	-35.3%	-27		
Clay	79.8%	76	91.4%	42	14.6%	34		
Clinton	87.6%	55	53.5%	109	-38.9%	-54		
Crittenden	86.4%	57	89.6%	53	3.7%	4		
Cumberland	0.0%	111	82.8%	76	100.0%	35		
Daviess	89.1%	45	80.9%	81	-9.2%	-36		
Edmonson	79.3%	77	0.0%	117	-100.0%	-40		
Elliott	0.0%	111	99.4%	4	100.0%	107		
Estill	75.6%	83	83.8%	71	10.9%	12		
Fayette	72.9%	89	71.2%	96	-2.3%	-7		
Fleming	98.7%	7	95.8%	17	-3.0%	-10		
Floyd	98.1%	10	94.4%	29	-3.8%	-19		
Franklin	70.0%	93	82.9%	75	18.5%	18		
Fulton	100.0%	2	98.5%	6	-1.5%	-4		
Gallatin	82.1%	73	85.8%	66	4.5%	7		
Garrard	72.5%	91	60.9%	105	-16.0%	-14		

^{*}Includes all schools who reported within a given county.

	1 MenACWY						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A	
Grant	88.9%	46	84.5%	70	-5.0%	-24	
Graves	94.5%	30	91.5%	41	-3.2%	-11	
Grayson	88.2%	50	90.0%	50	2.0%	0	
Green	87.8%	53	86.6%	65	-1.5%	-12	
Greenup	82.6%	71	83.3%	73	0.8%	-2	
Hancock	0.0%	111	0.0%	117	0.0%	-6	
Hardin	88.7%	47	84.9%	67	-4.3%	-20	
Harlan	5372.0%	1	61.7%	103	-98.9%	-102	
Harrison	0.0%	111	91.6%	40	100.0%	71	
Hart	95.5%	24	95.1%	24	-0.4%	0	
Henderson	93.3%	33	90.8%	44	-2.6%	-11	
Henry	89.8%	41	89.8%	52	0.0%	-11	
Hickman	98.4%	9	100.0%	1	1.6%	8	
Hopkins	95.7%	22	92.9%	30	-3.0%	-8	
Jackson	85.6%	60	90.5%	46	5.7%	14	
Jefferson	78.0%	78	77.2%	85	-1.1%	-7	
Jessamine	0.0%	111	90.2%	49	100.0%	62	
Johnson	83.4%	66	84.8%	68	1.6%	-2	
Kenton	90.6%	39	91.9%	38	1.4%	1	
Knott	57.5%	102	61.7%	104	7.3%	-2	

^{*}Includes all schools who reported within a given county.

		1 MenACWY						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A		
Knox	63.2%	99	52.2%	110	-17.5%	-11		
LaRue	99.0%	6	92.3%	35	-6.8%	-29		
Laurel	81.3%	75	91.2%	43	12.2%	32		
Lawrence	87.8%	54	87.4%	60	-0.4%	-6		
Lee	60.2%	101	18.8%	116	-68.7%	-15		
Leslie	67.4%	95	64.2%	101	-4.6%	-6		
Letcher	88.0%	52	88.8%	56	0.9%	-4		
Lewis	85.8%	58	81.2%	80	-5.4%	-22		
Lincoln	94.7%	29	88.2%	59	-6.8%	-30		
Livingston	39.6%	108	69.5%	98	75.5%	10		
Logan	85.1%	61	72.6%	94	-14.7%	-33		
Lyon	91.8%	36	95.1%	25	3.6%	11		
Madison	94.4%	31	94.5%	28	0.1%	3		
Magoffin	64.4%	97	21.3%	115	-66.9%	-18		
Marion	95.2%	26	95.7%	19	0.5%	7		
Marshall	88.3%	49	90.4%	47	2.4%	2		
Martin	83.0%	70	83.2%	74	0.3%	-4		
Mason	56.1%	103	89.9%	51	60.2%	52		
McCracken	84.2%	64	88.8%	57	5.4%	7		
McCreary	89.8%	42	83.8%	72	-6.7%	-30		

^{*}Includes all schools who reported within a given county.

	1 MenACWY							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A		
McLean	96.4%	19	0.0%	117	-100.0%	-98		
Meade	98.4%	8	97.5%	12	-0.9%	-4		
Menifee	92.3%	35	98.3%	8	6.5%	27		
Mercer	97.4%	16	95.5%	21	-1.9%	-5		
Metcalfe	72.8%	90	68.9%	99	-5.4%	-9		
Monroe	95.6%	23	86.7%	64	-9.3%	-41		
Montgomery	70.9%	92	71.8%	95	1.2%	-3		
Morgan	89.7%	43	95.2%	23	6.1%	20		
Muhlenberg	77.7%	79	92.0%	37	18.5%	42		
Nelson	74.2%	87	74.3%	91	0.1%	-4		
Nicholas	0.0%	111	0.0%	117	0.0%	-6		
Ohio	65.0%	96	63.1%	102	-2.9%	-6		
Oldham	82.1%	73	95.6%	20	16.4%	53		
Owen	0.0%	111	99.3%	5	100.0%	106		
Owsley	62.9%	100	69.7%	97	10.8%	3		
Pendleton	0.0%	111	96.7%	13	100.0%	98		
Perry	85.7%	59	72.8%	93	-15.1%	-34		
Pike	96.4%	20	89.2%	55	-7.4%	-35		
Powell	97.8%	13	91.7%	39	-6.2%	-26		
Pulaski	95.4%	25	89.4%	54	-6.3%	-29		

^{*}Includes all schools who reported within a given county.

	1 MenACWY						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	81.8%	N/A	80.0%	N/A	-2.2%	N/A	
Robertson	96.3%	21	100.0%	1	3.9%	20	
Rockcastle	91.1%	38	86.8%	63	-4.7%	-25	
Rowan	67.9%	94	54.0%	108	-20.5%	-14	
Russell	88.5%	48	98.3%	9	11.1%	39	
Scott	44.3%	107	74.8%	88	68.8%	19	
Shelby	88.2%	51	79.0%	83	-10.4%	-32	
Simpson	87.6%	56	97.7%	11	11.6%	45	
Spencer	99.6%	3	99.6%	3	0.0%	0	
Taylor	99.0%	5	54.9%	107	-44.5%	-102	
Todd	53.8%	104	76.9%	86	43.0%	18	
Trigg	84.3%	63	92.8%	32	10.0%	31	
Trimble	0.0%	111	92.9%	30	100.0%	81	
Union	92.9%	34	95.0%	27	2.3%	7	
Warren	63.6%	98	64.9%	100	2.0%	-2	
Washington	83.3%	67	87.2%	61	4.7%	6	
Wayne	99.6%	4	95.7%	18	-3.8%	-14	
Webster	75.3%	85	82.0%	79	9.0%	6	
Whitley	89.9%	40	80.2%	82	-10.8%	-42	
Wolfe	53.0%	105	51.0%	112	-3.7%	-7	
Woodford	96.8%	17	96.1%	16	-0.7%	1	

^{*}Includes all schools who reported within a given county.

	2 MMR							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A		
Adair	100%	2	93%	108	-6.7%	-106		
Allen	96.94%	77	98.72%	29	1.8%	48		
Anderson	98.28%	54	96.26%	94	-2.1%	-40		
Ballard	100%	2	100%	2	0.0%	0		
Barren	98.95%	31	97.46%	73	-1.5%	-42		
Bath	95.63%	90	94.08%	105	-1.6%	-15		
Bell	92.61%	103	90.24%	114	-2.6%	-11		
Boone	97.13%	74	97.65%	65	0.5%	9		
Bourbon	98.44%	44	96.77%	90	-1.7%	-46		
Boyd	55.56%	110	95.58%	99	72.0%	11		
Boyle	96.87%	79	98.36%	44	1.5%	35		
Bracken	100%	2	97%	78	-2.7%	-76		
Breathitt	100%	2	97%	75	-2.6%	-73		
Breckinridge	98.67%	39	95.83%	97	-2.9%	-58		
Bullitt	97.90%	62	98.30%	47	0.4%	15		
Butler	0.0%	111	97.3%	79	100.0%	32		
Caldwell	100%	2	100%	2	0.0%	0		
Calloway	98.29%	52	97.25%	81	-1.1%	-29		
Campbell	99.46%	20	99.17%	23	-0.3%	-3		
Carlisle	95.45%	93	98.45%	39	3.1%	54		

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A	
Carroll	98.1%	58	98.0%	56	-0.1%	2	
Carter	9920.0%	1	99.8%	13	-99.0%	-12	
Casey	98.0%	60	98.8%	26	0.8%	34	
Christian	97.3%	69	97.2%	83	-0.1%	-14	
Clark	93.8%	98	98.1%	51	4.6%	47	
Clay	99.2%	26	98.5%	35	-0.7%	-9	
Clinton	99.1%	28	97.4%	76	-1.8%	-48	
Crittenden	94.3%	97	99.3%	22	5.2%	75	
Cumberland	0.0%	111	98.4%	41	100.0%	70	
Daviess	98.1%	57	98.0%	57	-0.1%	0	
Edmonson	97.6%	67	0.0%	117	-100.0%	-50	
Elliott	0.0%	111	100.0%	2	100.0%	109	
Estill	77.4%	108	97.1%	89	25.4%	19	
Fayette	97.7%	63	97.8%	59	0.1%	4	
Fleming	100.0%	2	100.0%	2	0.0%	0	
Floyd	99.4%	22	99.1%	24	-0.3%	-2	
Franklin	80.3%	107	96.3%	94	19.9%	13	
Fulton	100.0%	2	98.5%	35	-1.5%	-33	
Gallatin	99.2%	24	98.6%	32	-0.6%	-8	
Garrard	96.4%	86	97.5%	70	1.1%	16	

^{*}Includes all schools who reported within a given county.

	2 MMR							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A		
Grant	99.7%	17	99.7%	14	0.0%	3		
Graves	98.6%	41	97.5%	72	-1.1%	-31		
Grayson	72.1%	109	98.6%	33	36.6%	76		
Green	96.5%	84	96.6%	92	0.1%	-8		
Greenup	98.7%	38	98.3%	45	-0.4%	-7		
Hancock	0.0%	111	0.0%	117	0.0%	-6		
Hardin	97.2%	72	93.8%	107	-3.5%	-35		
Harlan	91.2%	104	91.0%	111	-0.2%	-7		
Harrison	0.0%	111	97.2%	86	100.0%	25		
Hart	98.9%	34	97.3%	80	-1.6%	-46		
Henderson	98.5%	43	98.6%	30	0.2%	13		
Henry	98.9%	33	98.1%	51	-0.8%	-18		
Hickman	98.4%	49	100.0%	2	1.6%	47		
Hopkins	98.4%	48	98.1%	49	-0.3%	-1		
Jackson	97.0%	76	97.2%	85	0.2%	-9		
Jefferson	97.2%	71	97.5%	71	0.3%	0		
Jessamine	0.0%	111	97.2%	87	100.0%	24		
Johnson	96.9%	79	97.5%	73	0.6%	6		
Kenton	98.6%	42	98.4%	42	-0.2%	0		
Knott	96.6%	82	98.0%	54	1.5%	28		

^{*}Includes all schools who reported within a given county.

	2 MMR							
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A		
Knox	96.5%	85	95.7%	98	-0.8%	-13		
LaRue	98.4%	45	99.0%	25	0.5%	20		
Laurel	96.5%	83	96.4%	93	-0.1%	-10		
Lawrence	99.4%	21	98.5%	37	-1.0%	-16		
Lee	89.8%	105	87.0%	115	-3.1%	-10		
Leslie	100.0%	2	97.8%	60	-2.2%	-58		
Letcher	98.3%	55	97.6%	66	-0.6%	-11		
Lewis	100.0%	2	97.9%	58	-2.2%	-56		
Lincoln	99.3%	23	98.0%	53	-1.3%	-30		
Livingston	93.1%	100	97.6%	69	4.8%	31		
Logan	96.9%	78	97.3%	77	0.5%	1		
Lyon	100.0%	2	989.8%	1	889.8%	1		
Madison	98.9%	32	98.5%	34	-0.4%	-2		
Magoffin	95.6%	90	86.4%	116	-9.7%	-26		
Marion	98.4%	49	100.0%	2	1.6%	47		
Marshall	97.3%	70	97.8%	63	0.5%	7		
Martin	97.7%	65	97.6%	68	-0.1%	-3		
Mason	92.7%	102	94.5%	102	1.9%	0		
McCracken	97.7%	64	97.2%	82	-0.5%	-18		
McCreary	100.0%	2	99.5%	18	-0.5%	-16		

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A	
McLean	99.1%	29	0.0%	117	-100.0%	-88	
Meade	99.5%	19	98.7%	28	-0.7%	-9	
Menifee	95.3%	94	98.3%	48	3.1%	46	
Mercer	98.7%	37	99.6%	17	0.9%	20	
Metcalfe	95.6%	92	95.3%	100	-0.3%	-8	
Monroe	100.0%	2	98.3%	45	-1.7%	-43	
Montgomery	97.2%	73	98.0%	54	0.9%	19	
Morgan	98.8%	35	99.4%	20	0.6%	15	
Muhlenberg	96.4%	87	98.6%	31	2.3%	56	
Nelson	98.0%	61	96.7%	91	-1.3%	-30	
Nicholas	0.0%	111	0.0%	117	0.0%	-6	
Ohio	98.3%	52	92.9%	109	-5.5%	-57	
Oldham	97.7%	66	98.1%	50	0.5%	16	
Owen	0.0%	111	100.0%	2	100.0%	109	
Owsley	83.9%	106	100.0%	2	19.2%	104	
Pendleton	0.0%	111	97.2%	83	100.0%	28	
Perry	93.4%	99	91.0%	112	-2.5%	-13	
Pike	97.0%	75	99.7%	15	2.8%	60	
Powell	98.4%	51	98.8%	27	0.5%	24	
Pulaski	99.2%	24	97.2%	88	-2.0%	-64	

^{*}Includes all schools who reported within a given county.

	2 MMR						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	96.8%	N/A	94.1%	N/A	-2.8%	N/A	
Robertson	96.3%	88	100.0%	2	3.8%	86	
Rockcastle	100.0%	2	99.5%	19	-0.5%	-17	
Rowan	98.4%	46	94.5%	101	-4.0%	-55	
Russell	98.6%	40	99.6%	16	1.0%	24	
Scott	97.3%	68	94.0%	106	-3.4%	-38	
Shelby	98.0%	59	95.8%	96	-2.2%	-37	
Simpson	99.0%	30	97.7%	64	-1.3%	-34	
Spencer	99.1%	27	100.0%	2	0.9%	25	
Taylor	100.0%	2	94.2%	104	-5.8%	-102	
Todd	96.8%	81	97.6%	66	0.8%	15	
Trigg	98.2%	56	99.4%	21	1.2%	35	
Trimble	0.0%	111	100.0%	2	100.0%	109	
Union	92.9%	101	98.5%	37	6.1%	64	
Warren	95.8%	89	97.8%	62	2.1%	27	
Washington	98.4%	46	94.3%	103	-4.1%	-57	
Wayne	100.0%	2	98.5%	39	-1.6%	-37	
Webster	94.6%	96	90.4%	113	-4.4%	-17	
Whitley	99.7%	18	97.8%	61	-1.9%	-43	
Wolfe	95.0%	95	91.7%	110	-3.5%	-15	
Woodford	98.7%	36	98.4%	42	-0.3%	-6	

^{*}Includes all schools who reported within a given county.

	1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A	
Adair	97.4%	19	90.2%	56	-7.4%	-37	
Allen	83.4%	78	76.1%	93	-8.8%	-15	
Anderson	98.6%	12	82.5%	85	-16.4%	-73	
Ballard	97.4%	19	97.8%	12	0.3%	7	
Barren	92.7%	42	83.6%	80	-9.8%	-38	
Bath	49.4%	108	51.3%	113	3.9%	-5	
Bell	31.7%	110	43.5%	114	37.2%	-4	
Boone	90.0%	49	93.2%	40	3.6%	9	
Bourbon	87.9%	62	95.0%	31	8.0%	31	
Boyd	63.9%	101	89.3%	64	39.6%	37	
Boyle	85.4%	72	91.3%	52	6.9%	20	
Bracken	83.3%	79	60.7%	107	-27.1%	-28	
Breathitt	75.9%	90	88.7%	67	17.0%	23	
Breckinridge	98.7%	11	95.8%	26	-2.9%	-15	
Bullitt	83.9%	77	85.6%	76	2.0%	1	
Butler	0.0%	111	77.7%	92	100.0%	19	
Caldwell	95.8%	32	96.5%	22	0.7%	10	
Calloway	96.9%	23	94.5%	34	-2.4%	-11	
Campbell	96.5%	25	96.8%	20	0.3%	5	
Carlisle	81.8%	80	96.9%	19	18.5%	61	

^{*}Includes all schools who reported within a given county.

	1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A	
Carroll	76.0%	89	79.3%	89	4.4%	0	
Carter	95.5%	35	98.2%	10	2.8%	25	
Casey	84.1%	75	88.9%	66	5.7%	9	
Christian	81.5%	81	74.3%	96	-8.8%	-15	
Clark	81.3%	82	54.9%	109	-32.4%	-27	
Clay	94.2%	40	93.7%	39	-0.6%	1	
Clinton	88.5%	60	53.5%	111	-39.5%	-51	
Crittenden	86.4%	69	92.5%	44	7.2%	25	
Cumberland	0.0%	111	82.8%	83	100.0%	28	
Daviess	89.7%	52	80.9%	86	-9.8%	-34	
Edmonson	79.3%	84	0.0%	117	-100.0%	-33	
Elliott	0.0%	111	99.4%	4	100.0%	107	
Estill	98.2%	15	98.3%	9	0.1%	6	
Fayette	74.1%	92	72.8%	97	-1.8%	-5	
Fleming	98.7%	10	95.8%	28	-3.0%	-18	
Floyd	97.8%	17	94.2%	35	-3.7%	-18	
Franklin	70.2%	94	92.2%	47	31.3%	47	
Fulton	100.0%	1	98.5%	7	-1.5%	-6	
Gallatin	87.0%	67	85.8%	75	-1.3%	-8	
Garrard	95.9%	30	61.4%	105	-36.0%	-75	

^{*}Includes all schools who reported within a given county.

		1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018		
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A		
Grant	88.9%	56	84.5%	78	-5.0%	-22		
Graves	95.3%	39	92.0%	49	-3.4%	-10		
Grayson	88.5%	58	89.7%	59	1.3%	-1		
Green	87.8%	63	87.4%	71	-0.5%	-8		
Greenup	92.1%	43	83.3%	82	-9.6%	-39		
Hancock	0.0%	111	0.0%	117	0.0%	-6		
Hardin	89.0%	55	86.7%	73	-2.5%	-18		
Harlan	57.6%	105	88.9%	65	54.4%	40		
Harrison	0.0%	111	92.0%	48	100.0%	63		
Hart	96.1%	29	97.8%	11	1.8%	18		
Henderson	93.3%	41	89.8%	58	-3.7%	-17		
Henry	89.8%	51	89.8%	57	0.0%	-6		
Hickman	98.4%	13	100.0%	1	1.6%	12		
Hopkins	95.6%	34	92.9%	42	-2.8%	-8		
Jackson	86.0%	71	89.3%	63	3.9%	8		
Jefferson	79.4%	83	78.4%	91	-1.4%	-8		
Jessamine	0.0%	111	90.9%	54	100.0%	57		
Johnson	84.0%	76	92.4%	45	10.0%	31		
Kenton	91.1%	44	92.7%	43	1.8%	1		
Knott	61.5%	102	97.5%	15	58.6%	87		

^{*}Includes all schools who reported within a given county.

	1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A	
Knox	64.1%	100	51.9%	112	-19.0%	-12	
LaRue	99.5%	3	92.3%	46	-7.2%	-43	
Laurel	95.9%	31	97.0%	18	1.2%	13	
Lawrence	87.8%	64	88.4%	68	0.8%	-4	
Lee	59.1%	103	18.8%	116	-68.1%	-13	
Leslie	67.4%	95	69.3%	102	3.0%	-7	
Letcher	86.8%	68	93.9%	37	8.1%	31	
Lewis	89.0%	54	82.8%	84	-7.0%	-30	
Lincoln	99.3%	5	87.5%	70	-11.8%	-65	
Livingston	39.6%	109	69.5%	101	75.5%	8	
Logan	87.5%	65	72.6%	98	-17.1%	-33	
Lyon	97.3%	22	97.5%	14	0.3%	8	
Madison	95.3%	37	94.6%	32	-0.8%	5	
Magoffin	66.9%	97	21.3%	115	-68.2%	-18	
Marion	95.6%	33	96.4%	23	0.8%	10	
Marshall	88.6%	57	89.4%	61	1.0%	-4	
Martin	97.7%	18	84.0%	79	-14.0%	-61	
Mason	57.6%	106	91.2%	53	58.5%	53	
McCracken	84.2%	74	91.4%	51	8.6%	23	
McCreary	90.8%	46	84.7%	77	-6.7%	-31	

^{*}Includes all schools who reported within a given county.

	1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A	
McLean	96.4%	26	0.0%	117	-100.0%	-91	
Meade	99.2%	6	97.5%	16	-1.7%	-10	
Menifee	95.3%	38	98.3%	8	3.1%	30	
Mercer	97.4%	21	95.5%	29	-1.9%	-8	
Metcalfe	76.3%	87	69.8%	100	-8.5%	-13	
Monroe	96.2%	28	86.7%	74	-9.9%	-46	
Montgomery	70.9%	93	72.1%	99	1.6%	-6	
Morgan	89.7%	52	95.2%	30	6.1%	22	
Muhlenberg	77.4%	86	93.0%	41	20.1%	45	
Nelson	78.8%	85	76.1%	94	-3.5%	-9	
Nicholas	0.0%	111	0.0%	117	0.0%	-6	
Ohio	65.8%	98	64.9%	103	-1.4%	-5	
Oldham	98.4%	13	95.8%	25	-2.6%	-12	
Owen	0.0%	111	99.3%	5	100.0%	106	
Owsley	58.1%	104	100.0%	1	72.2%	103	
Pendleton	0.0%	111	96.1%	24	100.0%	87	
Perry	87.1%	66	83.4%	81	-4.2%	-15	
Pike	96.9%	23	89.3%	62	-7.8%	-39	
Powell	99.5%	4	91.7%	50	-7.8%	-46	
Pulaski	95.4%	36	89.5%	60	-6.2%	-24	

^{*}Includes all schools who reported within a given county.

	1 Tdap						
County	2016-20167 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-20178County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	84.5%	N/A	82.1%	N/A	-2.9%	N/A	
Robertson	96.3%	27	95.8%	26	-0.5%	1	
Rockcastle	91.1%	45	86.8%	72	-4.7%	-27	
Rowan	67.1%	96	54.6%	110	-18.5%	-14	
Russell	89.9%	50	98.7%	6	9.8%	44	
Scott	76.1%	88	74.7%	95	-1.9%	-7	
Shelby	88.2%	61	80.3%	88	-8.9%	-27	
Simpson	88.5%	59	97.7%	13	10.4%	46	
Spencer	99.1%	7	99.6%	3	0.4%	4	
Taylor	99.0%	9	55.3%	108	-44.2%	-99	
Todd	55.1%	107	78.7%	90	42.9%	17	
Trigg	86.1%	70	94.2%	36	9.3%	34	
Trimble	0.0%	111	93.9%	38	100.0%	73	
Union	100.0%	1	97.5%	16	-2.5%	-15	
Warren	64.5%	99	60.7%	106	-5.8%	-7	
Washington	84.9%	73	87.9%	69	3.6%	4	
Wayne	99.1%	8	94.6%	33	-4.6%	-25	
Webster	75.3%	91	90.4%	55	20.1%	36	
Whitley	90.3%	47	80.7%	87	-10.7%	-40	
Wolfe	90.0%	48	61.5%	104	-31.7%	-56	
Woodford	98.1%	16	96.8%	21	-1.3%	-5	

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A	
Adair	97.4%	12	90.7%	90	-6.9%	-78	
Allen	96.5%	21	98.3%	11	1.9%	10	
Anderson	89.7%	66	94.9%	57	5.8%	9	
Ballard	98.7%	4	97.8%	18	-1.0%	-14	
Barren	93.2%	45	94.1%	64	1.0%	-19	
Bath	63.8%	107	91.5%	86	43.5%	21	
Bell	56.3%	109	71.6%	114	27.1%	-5	
Boone	92.8%	48	96.3%	36	3.8%	12	
Bourbon	89.5%	70	92.1%	83	2.9%	-13	
Boyd	41.9%	110	89.6%	93	113.9%	17	
Boyle	87.0%	80	94.8%	58	9.0%	22	
Bracken	84.2%	85	98.2%	13	16.6%	72	
Breathitt	96.6%	20	94.4%	61	-2.3%	-41	
Breckinridge	96.0%	27	94.2%	62	-1.9%	-35	
Bullitt	91.6%	55	95.6%	47	4.3%	8	
Butler	0.0%	111	92.6%	80	100.0%	31	
Caldwell	92.3%	52	97.9%	16	6.0%	36	
Calloway	96.9%	16	92.7%	79	-4.3%	-63	
Campbell	96.3%	23	98.0%	14	1.8%	9	
Carlisle	84.9%	83	98.5%	9	16.0%	74	

^{*}Includes all schools who reported within a given county.

	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A	
Carroll	83.1%	88	90.0%	92	8.3%	-4	
Carter	94.2%	38	99.0%	5	5.1%	33	
Casey	86.8%	81	93.6%	72	7.9%	9	
Christian	91.2%	56	93.6%	71	2.7%	-15	
Clark	93.8%	42	91.9%	85	-2.0%	-43	
Clay	96.7%	18	96.3%	37	-0.4%	-19	
Clinton	87.6%	77	74.6%	113	-14.9%	-36	
Crittenden	87.5%	78	96.3%	37	10.0%	41	
Cumberland	0.0%	111	90.6%	91	100.0%	20	
Daviess	88.9%	72	89.1%	95	0.2%	-23	
Edmonson	87.2%	79	0.0%	117	-100.0%	-38	
Elliott	0.0%	111	97.7%	21	100.0%	90	
Estill	88.4%	74	93.6%	67	5.9%	7	
Fayette	90.8%	59	95.1%	52	4.7%	7	
Fleming	96.2%	25	96.4%	34	0.2%	-9	
Floyd	96.0%	28	97.5%	25	1.6%	3	
Franklin	71.2%	98	93.5%	73	31.4%	25	
Fulton	100.0%	1	97.0%	29	-3.0%	-28	
Gallatin	90.2%	64	93.6%	68	3.7%	-4	
Garrard	83.2%	87	87.6%	97	5.4%	-10	

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	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A	
Grant	93.1%	46	96.7%	30	3.9%	16	
Graves	96.0%	28	95.9%	43	-0.1%	-15	
Grayson	64.7%	105	98.0%	15	51.5%	90	
Green	90.4%	63	93.3%	75	3.2%	-12	
Greenup	89.8%	65	90.8%	89	1.1%	-24	
Hancock	0.0%	111	0.0%	117	0.0%	-6	
Hardin	93.8%	41	92.4%	82	-1.4%	-41	
Harlan	68.0%	100	77.0%	112	13.2%	-12	
Harrison	0.0%	111	93.0%	76	100.0%	35	
Hart	94.9%	33	98.4%	10	3.6%	23	
Henderson	93.3%	44	95.9%	41	2.8%	3	
Henry	90.9%	57	93.4%	74	2.7%	-17	
Hickman	96.8%	17	100.0%	1	3.3%	16	
Hopkins	97.7%	10	97.6%	22	-0.1%	-12	
Jackson	89.6%	68	88.8%	96	-1.0%	-28	
Jefferson	94.0%	40	96.2%	39	2.4%	1	
Jessamine	0.0%	111	93.6%	70	100.0%	41	
Johnson	90.6%	61	77.8%	111	-14.2%	-50	
Kenton	94.9%	34	96.5%	32	1.6%	2	
Knott	66.1%	104	86.6%	100	31.0%	4	

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	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A	
Knox	68.1%	99	78.8%	110	15.7%	-11	
LaRue	97.4%	13	95.9%	43	-1.5%	-30	
Laurel	83.0%	89	89.3%	94	7.5%	-5	
Lawrence	90.6%	62	95.0%	53	4.9%	9	
Lee	77.3%	92	68.1%	115	-11.8%	-23	
Leslie	67.4%	102	86.1%	102	27.9%	0	
Letcher	92.4%	50	95.3%	50	3.1%	0	
Lewis	89.7%	67	94.1%	65	4.9%	2	
Lincoln	95.0%	32	94.4%	60	-0.6%	-28	
Livingston	60.4%	108	92.7%	78	53.4%	30	
Logan	92.4%	51	91.0%	87	-1.5%	-36	
Lyon	91.8%	54	98.8%	7	7.6%	47	
Madison	96.6%	19	97.4%	26	0.9%	-7	
Magoffin	76.3%	95	66.9%	116	-12.3%	-21	
Marion	96.4%	22	96.4%	34	0.0%	-12	
Marshall	94.0%	39	95.8%	45	1.9%	-6	
Martin	90.7%	60	84.8%	104	-6.5%	-44	
Mason	67.3%	103	81.1%	108	20.5%	-5	
McCracken	88.6%	73	96.6%	31	9.0%	42	
McCreary	94.4%	36	94.9%	55	0.6%	-19	

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	2 Varicella						
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018	
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A	
McLean	98.2%	6	0.0%	117	-100.0%	-111	
Meade	97.6%	11	97.1%	27	-0.6%	-16	
Menifee	95.3%	31	98.3%	12	3.1%	19	
Mercer	95.7%	30	94.6%	59	-1.1%	-29	
Metcalfe	81.6%	91	83.0%	106	1.8%	-15	
Monroe	98.1%	8	92.5%	81	-5.7%	-73	
Montgomery	83.8%	86	94.9%	56	13.3%	30	
Morgan	90.9%	57	96.4%	33	6.0%	24	
Muhlenberg	89.5%	69	92.0%	84	2.8%	-15	
Nelson	92.1%	53	95.3%	50	3.4%	3	
Nicholas	0.0%	111	0.0%	117	0.0%	-6	
Ohio	76.9%	93	86.5%	101	12.5%	-8	
Oldham	96.9%	15	97.0%	28	0.1%	-13	
Owen	0.0%	111	100.0%	1	100.0%	110	
Owsley	64.5%	106	95.5%	49	47.9%	57	
Pendleton	0.0%	111	95.0%	53	100.0%	58	
Perry	87.8%	76	82.3%	107	-6.2%	-31	
Pike	98.1%	7	98.9%	6	0.8%	1	
Powell	98.9%	3	97.6%	22	-1.3%	-19	
Pulaski	94.8%	35	94.0%	66	-0.9%	-31	

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	2 Varicella					
County	2016-2017 Coverage Rate	2016-2017 County Ranking	2017-2018 Coverage Rate	2017-2018 County Ranking	Change in Percent (%) From 2016-2017 to 2017-2018	Change in County Rankings From 2016-2017 to 2017-2018
Kentucky (Total)	89.8%	N/A	89.6%	N/A	-0.2%	N/A
Robertson	96.3%	24	100.0%	1	3.8%	23
Rockcastle	92.6%	49	95.9%	40	3.6%	9
Rowan	84.5%	84	84.9%	103	0.4%	-19
Russell	89.4%	71	97.8%	17	9.4%	54
Scott	87.8%	75	90.9%	88	3.5%	-13
Shelby	93.7%	43	94.1%	63	0.5%	-20
Simpson	98.1%	9	97.7%	19	-0.4%	-10
Spencer	98.3%	5	100.0%	1	1.8%	4
Taylor	96.9%	14	84.8%	105	-12.6%	-91
Todd	72.8%	96	97.6%	22	34.1%	74
Trigg	86.8%	81	98.7%	8	13.8%	73
Trimble	0.0%	111	95.9%	41	100.0%	70
Union	71.4%	97	95.5%	48	33.7%	49
Warren	76.9%	94	87.2%	99	13.4%	-5
Washington	92.9%	47	93.6%	68	0.8%	-21
Wayne	99.1%	2	97.7%	20	-1.4%	-18
Webster	81.9%	90	87.4%	98	6.7%	-8
Whitley	96.1%	26	92.7%	77	-3.6%	-51
Wolfe	68.0%	101	80.2%	109	18.0%	-8
Woodford	94.2%	37	95.8%	45	1.7%	-8

^{*}Includes all schools who reported within a given county.