

2019-2020 Kindergarten Immunization Assessment – Executive Summary California Department of Public Health, Immunization Branch

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Each autumn California schools are required to report to the California Department of Public Health (CDPH) the status of their students under state immunization requirement laws. In recent years there have been changes to these laws and how public health departments assist schools to implement them. To reflect longstanding national recommendations, starting in 2019 students entering kindergarten in California have been required to receive two rather than one dose of Varicella (chickenpox) vaccine. In 2014 and 2015 Assembly Bill (AB) 2109 added requirements for exemptions to required immunizations based on personal beliefs. 2019-2020 is the fourth full school year that entrants have been subject to Senate Bill (SB) 277, which no longer permits them to receive such personal beliefs exemptions (PBEs).

Reported immunization rates remain at high levels but have decreased in the last few years. The proportion of students attending kindergarten in 2019-2020 reported to have received all required vaccines is 94.3%, a 0.5 percentage point decrease from the 2018-2019 school year, a 0.8 percentage point decrease from the 2017-2018 school year, and a 4.1 percentage point increase over six years since 2013-2014.

The decrease in the combined rate reflects observance of the new requirement for a second dose of Varicella vaccine, for which 96.0% were reported as having completed in 2019-2020. In comparison, 97.9% in 2018-2019 were reported as having received the prior standard of at least one dose of vaccine or having had a history of chickenpox disease.

Compared to 2018-2019, completion rates for other specific immunization series were unchanged for Polio, Hepatitis B, and Measles, Mumps and Rubella (MMR) vaccine and increased 0.1 percentage points for Diphtheria, Tetanus and Pertussis (DTP) vaccine. In 2019-2020 and 2018-2019, 17 (29%) counties reported fewer than 95% of their kindergarteners as having had two doses of MMR vaccine, compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

Compared to 2018-2019, in 2019-2020, the proportion of kindergartners reported as:

- Being overdue for required immunizations increased from 1.1% to 1.5%.
- Lacking immunizations for other reasons specified under SB 277 increased from 1.5% to 1.6%, with 1.3% reported as being enrolled in independent study programs.
- Having permanent medical exemptions increased from 0.9% to 1.0%.
- Conditional entrants remained unchanged at 1.7% in both 2018-2019 and 2019-2020 school years, a 5.2 percentage point decrease over the five years since 2014-2015.
- PBEs remained unchanged at 0.0%, reflecting their cessation under SB 277. Previously during measures specified in AB 2109, the rate of PBEs had decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016.

CDPH and local health departments in California continue to closely monitor immunization coverage and to support schools in protecting the health of their students and communities.

2019-2020 Kindergarten Immunization Assessment – Technical Notes

Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120325-120375). This report summarizes data for the 2019-2020 school year reported by public and private kindergartens statewide (Table 1, Figures 1-8) and by county (Tables 2-11).

To reflect longstanding national recommendations, starting in 2019 changes to the [California Code of Regulations](#) have required students entering kindergarten in California to receive two rather than one dose of Varicella (chickenpox) vaccine.

In the 2014-2015 and 2015-2016 school years, entrants were subject to [Assembly Bill \(AB\) 2109](#), which added requirements for exemptions to required immunizations based on personal beliefs. 2019-2020 is the fourth full school year that entrants have been subject to [Senate Bill \(SB\) 277](#), which no longer permits them to receive such personal beliefs exemptions (PBEs).

Starting in the 2015-2016 school year, many public health departments in California have worked with schools to improve their application of the [Conditional Admission Immunization Schedule](#) for the conditional admission of eligible students.

Methods

During the autumn of 2019, California schools registered with the California Department of Education reported data on kindergarteners in the 2019-2020 school year to the California Department of Public Health (CDPH). Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:
 - 5 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine (4 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['4+DTP'];
 - 3 or more of Polio vaccine (3 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['3+ Polio'];
 - 2 or more of Measles-containing and Mumps-containing vaccines received on or after the first birthday, and 1 or more of Rubella vaccine, typically combined as Measles, Mumps and Rubella (MMR) vaccine: ['2+ MMR']. Through 2018-2019, the requirement was for one rather two doses of Mumps-containing vaccine but was no different for Measles and Rubella vaccine;
 - 3 or more of Hepatitis B (Hep B) vaccine: ['3+ Hep B'], and
 - 2 or more of Varicella (Var): ['2+ Var']. In contrast, from 2000-2001 through 2018-2019, the requirement was for 1 or more doses of Varicella vaccine or a history documented by a physician of having had chickenpox disease. History of disease is currently requested to be reported as a permanent medical exemption.
- Conditional entrants who had:
 - Not received all required doses but were not overdue for required doses, or
 - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.

- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
 - A home-based private school or
 - A public independent study program and do not receive classroom-based instruction.
 - In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.

Students in these settings were classified in this category if they lacked required immunizations and did not meet the criteria for other categories.

- Children overdue for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

Under SB 277, since the 2016-2017 school year personal beliefs exemptions (PBEs) have no longer been an option for children entering kindergarten.

To simplify reporting, in 2015-2016 and earlier school years any immunizations received by children with PBEs or PMEs were not reported in the completion rates of each specific required immunization series (e.g., 4+ DTP, 2+ MMR, etc.). To improve accuracy, CDPH has requested schools to include these doses when reporting completion rates of specific immunizations since the 2016-2017 school year.

Due to rounding, figures may differ from the sums of their components. Differences were calculated between exact figures, varying at times by 0.1% from the differences between rounded figures.

Results

The number of kindergarteners in California whose immunization status was reported decreased from 555,735 in 2018-2019 to 554,250 in the 2019-2020 school year (Table 1). This is consistent with [recent statewide declines in school enrollment](#), as the number of schools that reported increased marginally from 7,964 in 2018-2019 to 8,000 in 2019-2020, and the number of schools that did not report decreased from 236 to 133 (Tables 1 and 2). Private schools account for 8% (43,146 / 554,250) of all kindergarteners about whom data was reported in 2019-2020, 24% (1,891 / 8,000) of all schools that reported data on kindergarteners and 89% (118 / 133) of schools that did not report.

Figures 1-5 show trends for students in public and private schools reported as having: received all required immunizations; entered conditionally; PMEs; PBEs; and completed specific immunization series. Figures 6-8 display for recent school years the distribution of major reporting categories for students reported from: all schools; public schools; and private schools.

All required immunizations: Of 554,250 kindergarteners whose schools reported their status, 522,581 (94.3%) had received all required immunizations, a decrease from the previous school year of 0.5 percentage points (Tables 1 and 5) and an increase over the six school years since 2013-2014 of 4.1 percentage points (Figures 1 and 6). For counties reporting at least 25 students, the highest rates, at least 97.0%, are reported in Monterey, Inyo, and Del Norte (Tables 3-5).

In 2019-2020, 11 (19%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90%, compared with nine (16%) in 2018-2019 (Tables 4 and 5, Figure 9). The rate in some of these counties is influenced by online or virtual schools that are based in the county but that may enroll children who reside in other counties (Box); many students in virtual schools qualify for exemptions from requirements under SB 277 (see Methods and below).

County	% of Pupils Receiving All Required Immunizations			For Schools Based in County, % of Pupils Reported as Enrolled in Virtual Schools*
	All Schools Based in County	Classroom-Based Schools	Virtual Schools*	
El Dorado	79.7%	92.7%	24.5%	19.2%
Sutter	85.3%	96.1%	33.0%	17.1%
Glenn	86.1%	96.8%	22.9%	14.4%
Kern	88.6%	96.1%	23.3%	10.3%

* Virtual schools are based in the specified county but may enroll children who reside in other counties.

As in past years, a higher proportion of students in public compared to private schools were reported as having had all required immunizations (94.4% vs. 92.4%; difference of 2.0 percentage points) (Table 1, Figures 7 and 8). However, this gap is smaller by 0.1 percentage points than it was in 2018-2019, as there was a one-year decrease of 0.5 percentage points for students in public schools and 0.4 percentage points for those in private schools.

Specific immunization series: Completion rates for specific immunization series varied between 96.0% for Varicella vaccine and 97.4% for Hepatitis B vaccine (Tables 1 and 11, Figure 5).

2019-2020 is the first school year that two or more doses of Varicella vaccine have been required for kindergarteners in California. 96.0% were reported as having completed a two-dose series in 2019-2020, whereas 97.9% in 2018-2019 were reported as having received at least one dose of vaccine or having had a history of chickenpox disease. (Data from 2019-2020 on receipt of at least one dose of Varicella vaccine or from prior years on receipt of two doses are not available.) History of chickenpox disease, which as a result of widespread immunization is now infrequent and often more difficult to diagnose, has since 2019-2020 been requested to be reported as a permanent medical exemption to immunization.

Rates in 2019-2020 remained the same for Polio, MMR, and Hep B vaccines and increased 0.1 percentage points for DTP vaccine. Rates for receipt remain higher in public schools; for MMR, 96.7% of students at public schools and 94.7% at private schools are reported as having received two doses, a decrease from 2018-2019 respectively of 0.0 percentage points and 0.3 percentage points, and an increase compared to 2015-2016 respectively of 1.8 percentage points and 4.2 percentage points. In both 2019-2020 and 2018-2019, 17 (29%) counties reported fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), compared to 16 (28%) counties in 2017-2018, 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

Conditional entrants: Over the last five school years, the proportion of students reported as conditional entrants has decreased from 6.9% in 2014-2015 to 1.7% in 2019-2020 (Table 1, Figures 2 and 6). Compared to the 2018-2019 school year, the proportion of conditional entrants

in 2019-2020 remained the same in all schools and public schools while decreasing in private schools by 0.6 percentage points (Table 1). Of the 1.7% (9,188) of all students reported as conditional entrants in 2019-2020, 0.2% (1,097) were reported as having had a temporary medical exemption, a 0.1 percentage point decrease from 2018-2019.

PMEs: The percentage of students with PMEs increased from 0.9% in 2018-2019 to 1.0% in 2019-2020 (Tables 1 and 7, Figure 3). In public schools, the number of students reported with PMEs increased from 3,805 (0.7%) to 4,179 (0.8%) (Figure 7), while for private schools, the number of students increased from 1,007 (2.4%) to 1,089 (2.5%) (Figure 8).

Other students lacking required immunizations: The proportion of kindergarteners reported to be lacking one or more required immunizations and to attend an independent study program and do not receive classroom-based instruction, attend a home-based private school, or receive services in an IEP (Tables 1, 8 and 9) increased from 1.5% (8,318) in 2018-2019 to 1.6% (8,986) in 2019-2020. Children reported as being enrolled in public independent study programs accounted for most students in this category (1.3% or 7,018) (Table 9), and for most of the increase compared to the previous year (0.10 of the 0.14 percentage point increase). The percentage increase of enrollment in independent study is 10.9% (63 students) in Glenn County. Some of these students are enrolled in virtual schools and reside in other counties.

Overdue: The percentage of students reported as being overdue for one or more immunizations (Tables 1 and 3) increased from 1.1% in 2018-2019 to 1.5% in 2019-2020 (Table 1, Figure 6). In public schools the number of students reported as overdue increased from 5,448 (1.1%) to 7,215 (1.4%) (Figure 7). For private schools the number of students reported as overdue increased from 635 (1.5%) to 1,012 (2.3%) (Figure 8).

PBEs: With the option of PBEs no longer available to new entrants under SB 277, the percentage of kindergarteners with PBEs remains unchanged at 0.0% since 2017-2018, compared to 2.4% in 2015-2016 and 3.2% in 2013-2014 (Figures 4 and 6, Table 8).

Combined categories: Kindergarteners who are required to receive all mandated vaccines are reported in three categories: having received all required vaccines; conditional entrants; and being overdue for required doses. The kindergarteners who were reported in the sum of these three categories decreased by 0.2% percentage points from 97.6% in 2018-2019 to 97.4% in 2019-2020.

Conversely the sum of kindergarteners reported as not having to receive all required immunizations in elementary school because of PMEs; PBEs; or for other criteria specified in SB 277, increased by 0.2 percentage points from 2.4% in 2018-2019 to 2.6% in 2019-2020; the combined rate for public schools increased from 2.3% to 2.5% and for private schools increased from 2.8% to 2.9%. Over time the combined rate has been 3.3% in 2013-2014, 2.5% in 2015-2016, 1.5% in 2016-2017, and 2.6% in 2019-2020.

Discussion

The numbers of kindergarteners (554,250) and public schools (6,109) whose status was reported in 2019-2020 remain at amongst the highest levels since the 2001-2002 school year, when Varicella vaccine became the most recent addition to the immunizations required for kindergarteners.

Reported immunization rates remain at high levels but have decreased over the last three school years. Compared to 2018-2019, the proportion of students reported to enter kindergarten in California in 2019-2020 after receiving all required immunizations decreased by 0.5 percentage points to 94.3%, following an increase by 5.2 percentage points to 95.6% between the two school years from 2014-2015 to 2016-2017.

The decrease in the combined rate reflects observance of the new requirement for a second dose of Varicella vaccine, for which 96.0% were reported as having completed in 2019-2020. In comparison, 97.9% in 2018-2019 were reported as having received the prior standard of at least one dose of vaccine or having had a history of chickenpox disease; in contrast to Varicella vaccine, rates for the other required vaccines were stable. The 0.5 percentage point decrease in the rate of all required vaccines is similar in magnitude to the 0.4 percentage point increase in kindergarteners reported as overdue for one or more required immunizations, suggesting that many overdue students had not received their second dose of Varicella vaccine by the beginning of the school year. CDPH will closely monitor these trends to see whether additional experience and support with the increased Varicella vaccine requirement will help schools reduce the number of overdue students.

The proportion of children reported in other categories of exemptions increased in 2019-2020, as 1.6% lacked required immunizations under other criteria introduced in SB 277. Most of these children were reported as being enrolled in independent study programs, representing an increase of 0.1 percentage points from 2018-2019. Another 1.0% were reported as having PME, an increase of 0.1% from 2018-2019. In sum, 2.6% of entrants were reported as not having had required immunizations because of PME, PBE, or other criteria related to SB 277, compared to 2.4% in 2018-2019. Over the recent period of multiple changes in policies and laws in California; the combined rate has been 3.3% in 2013-2014, 2.6% in 2015-2016, 1.5% in 2016-2017, and 2.6% in 2019-2020. Future assessments will continue to monitor these categories.

The proportion of conditional entrants in 2019-2020 remained unchanged since 2018-2019 after a decrease of 5.1 percentage points in the three school years between 2014-2015 and 2017-2018. The current reported rate of conditional entrants, 1.5%, remains the lowest reported since the 2001-2002 school year. Measures to support schools on the proper use of conditional admission criteria have been described in previous reports.

It is possible that children who in previous school years would have been inaccurately categorized as conditional entrants represent some of the 1.5% of entrants reported as overdue in 2019-2020. Continued efforts to educate schools and support immunization services might further reduce the number of children who in future years are categorized either as conditional entrants or overdue; in sum these categories account for 3.1% of kindergarteners reported in 2019-2020, compared to 2.8% reported in 2018-2019.

Children in schools and communities with lower immunization rates remain at higher risk of contracting and transmitting vaccine preventable diseases. In 2019-2020, 11 (19%) of 58 counties in California have had rates of kindergarteners with all required vaccines that are below 90% (Figure 9). 17 (29%) counties, compared to 14 (24%) in 2016-2017 and 31 (53%) in 2015-2016, report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), an approximate threshold necessary to prevent the transmission of measles. In addition, recent changes to California's school immunization laws did not apply to earlier cohorts of children who are no longer of school age. Unimmunized older children and adults were amongst those who caught measles during recent outbreaks in California. For these individuals,

decisions that were made in previous decades to not immunize have had lingering consequences for themselves and their communities.

Limitations

This report is subject to limitations that include:

- 133 California elementary schools, including 118 private schools and 15 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of them enrolled kindergarteners this year or the immunization status of their kindergarteners.
- As in previous years, private home schools that did not register with the California Department of Education may not have reported data to CDPH, which would result in continued underestimates of their enrollment.
- Nineteen schools, including at least two virtual schools, that registered with the California Department of Education as being public schools, and which appear to enroll both public and private students, reported 161 students as attending home-based private schools. In this report these students are classified as attending public schools. Any misclassification of enrollment between public and private schools, or between independent study and home-based private schools, has not affected the total of students in the category of other students lacking immunization, but has affected its subcategories.
- Part of the relative improvements in the completion rates of specific immunization series starting in the 2016-2017 school year may have been due to the inclusion in reporting of doses received by partially immunized children who had PBEs or PME to other required immunizations. In reporting to CDPH during prior school years, doses received by children with exemptions were not included in completion rates for any specific vaccine. This may have resulted in underestimates of completion rates for specific vaccines in prior years and overestimates of their increases between recent and prior years. The magnitude of the resultant increase to the rate of any immunization series in 2019-2020 resulting from this change in reporting could be no greater than 2.6%, the total of students reported in categories as not having to receive all required immunizations (PMEs or other criteria specified in SB 277). This reporting change should not have affected rates, or changes in rates, for the category of having received all required vaccines.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, the reported rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would underestimate immunization coverage. Any improvements over time in completion of records since the time of reporting would increase estimates of coverage.
- Changes over time in the quality of reporting by schools are another potential explanation for changes in immunization rates.

For further information, please contact CDPH Immunization Branch at SchoolAssessments@cdph.ca.gov.

For media inquiries, please contact CDPH Office of Public Affairs via e-mail cdphpress@cdph.ca.gov or phone 916-440-7259.

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Table 11. Number and Percentage of Students with Required Immunizations by Vaccine Series, by County

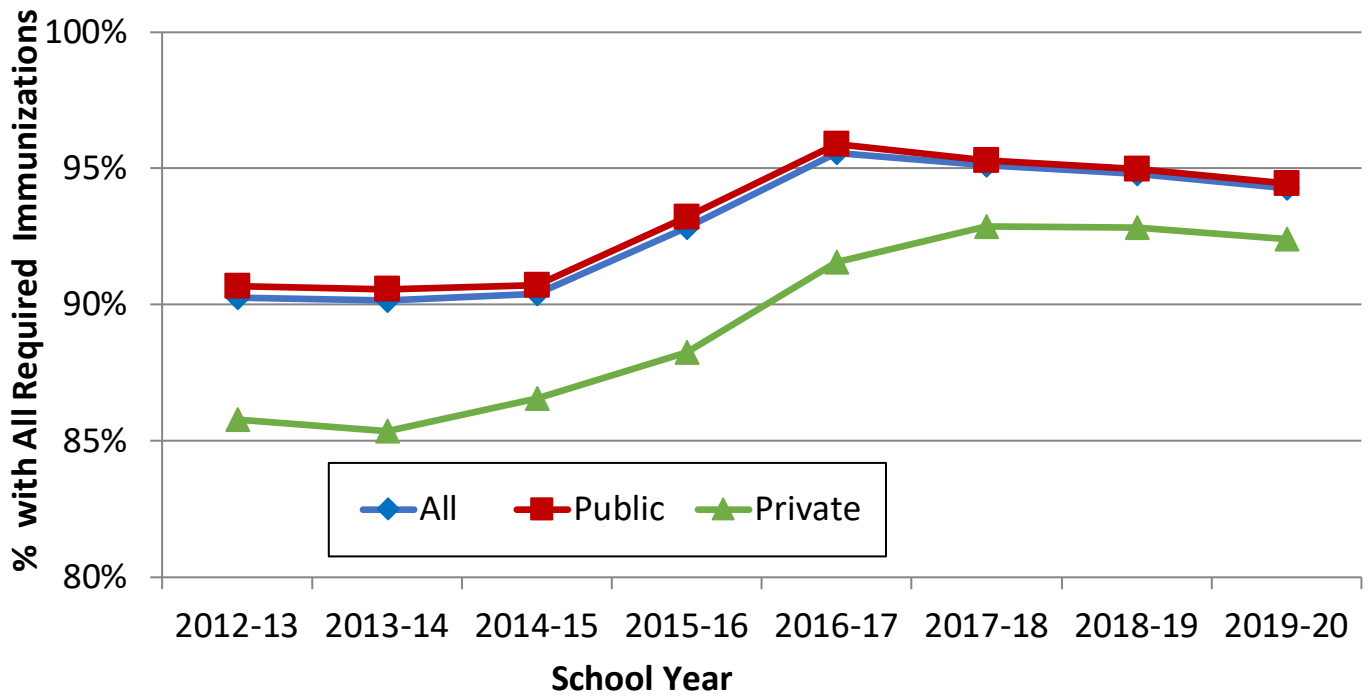


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2012-2013 to 2019-2020

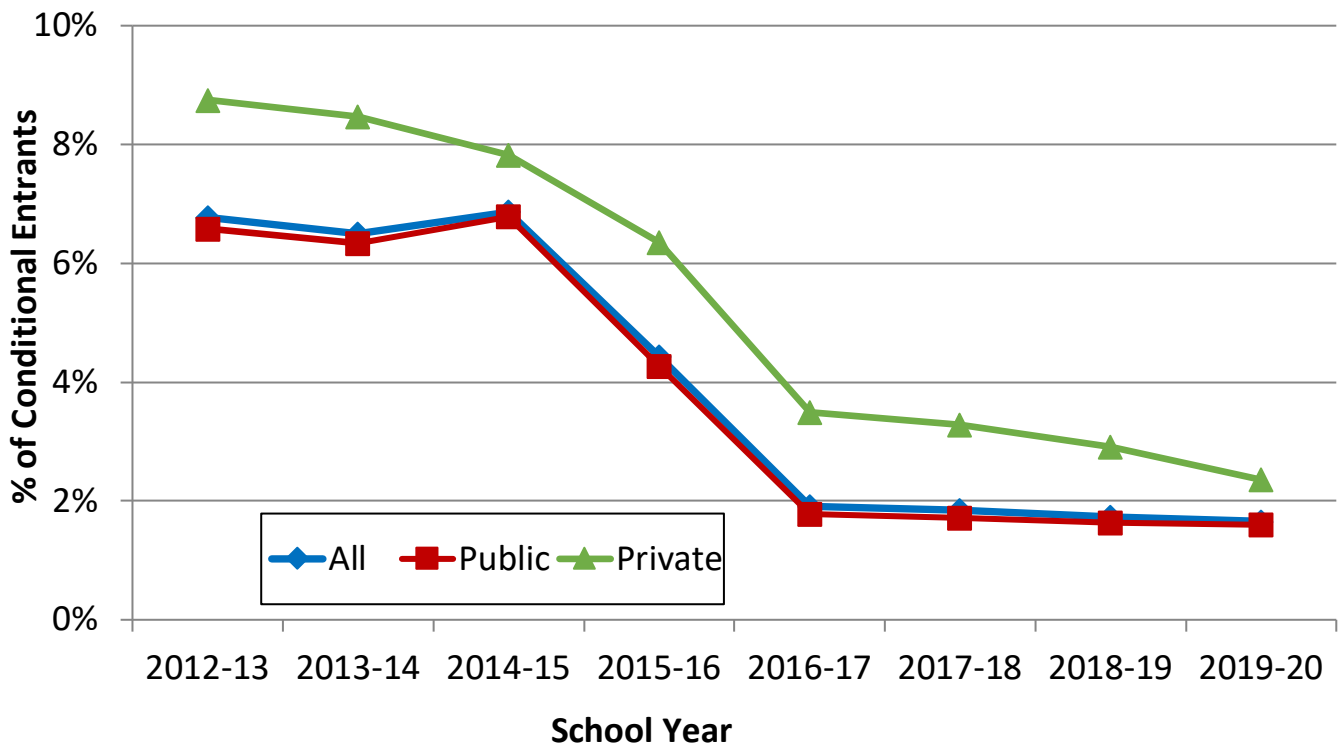


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2012-2013 to 2019-2020

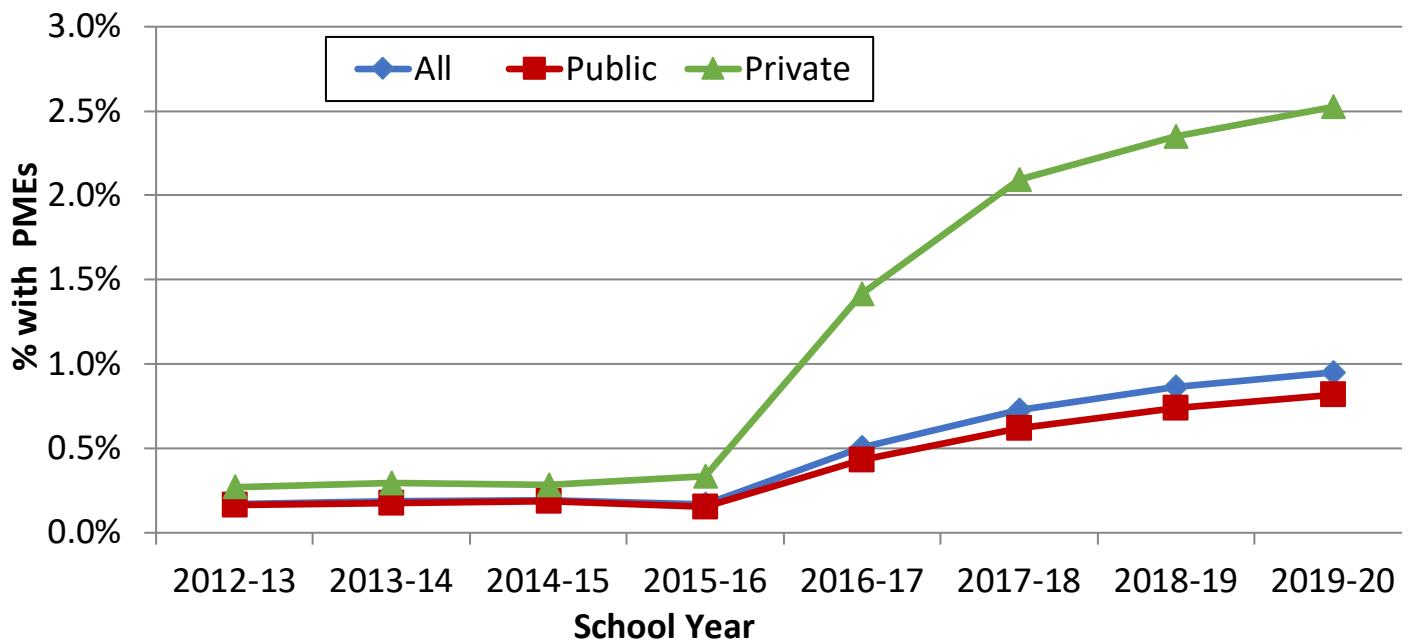


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2012-2013 to 2019-2020

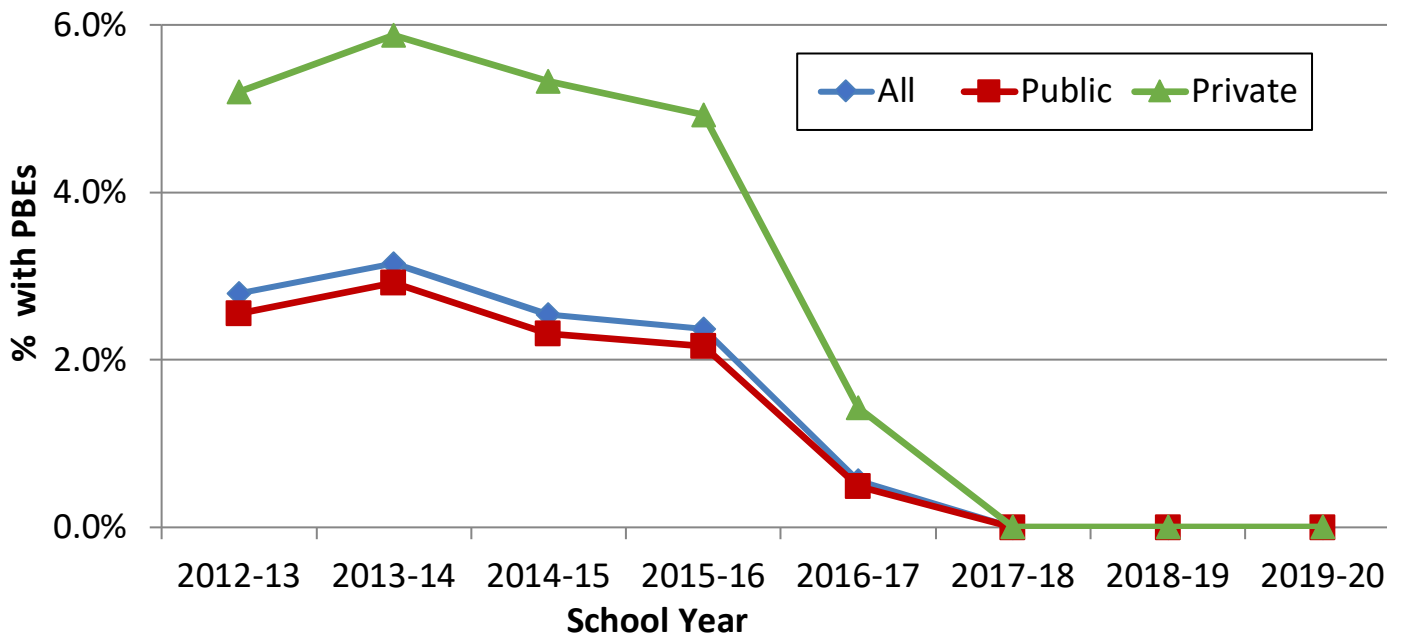
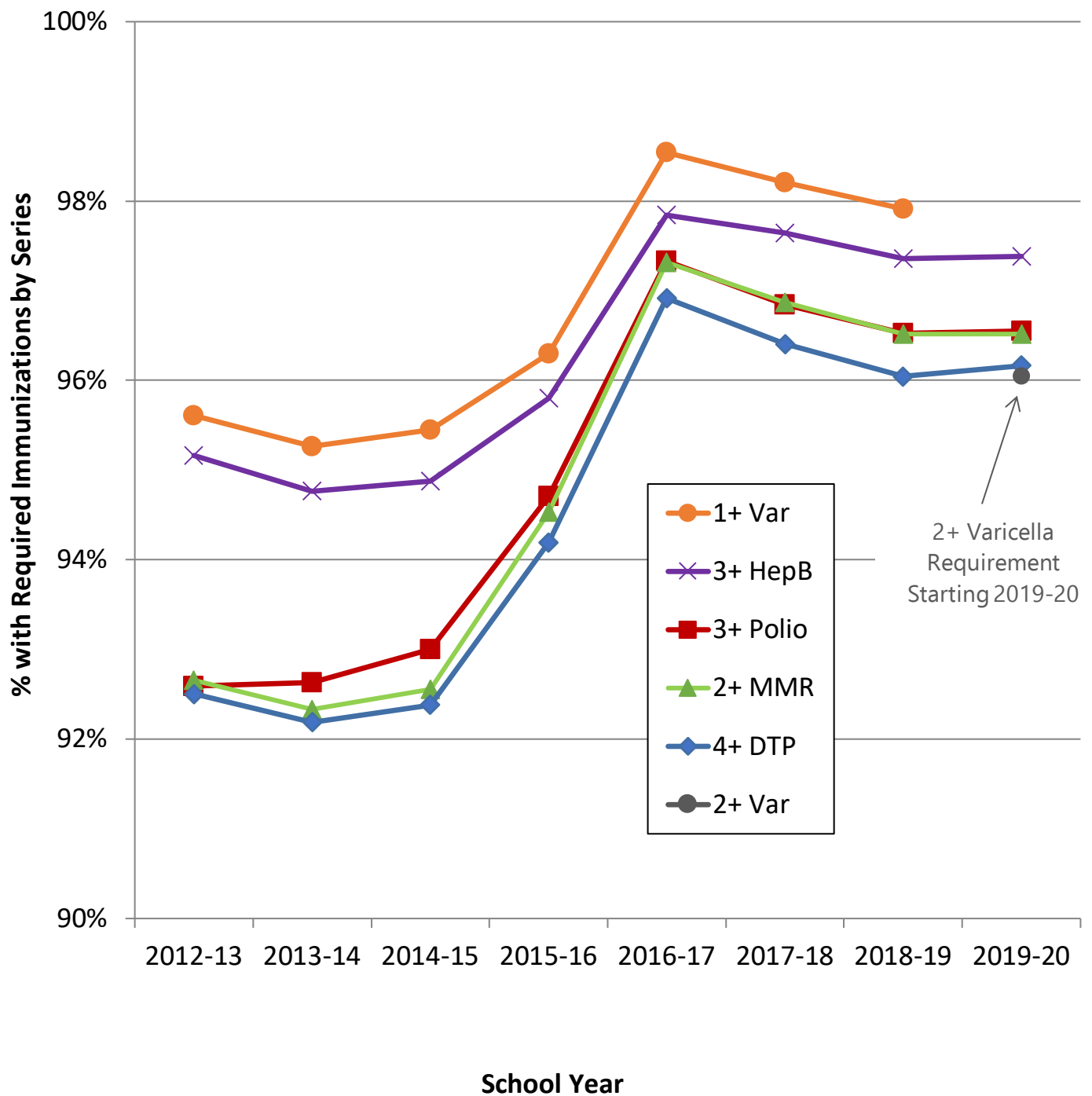
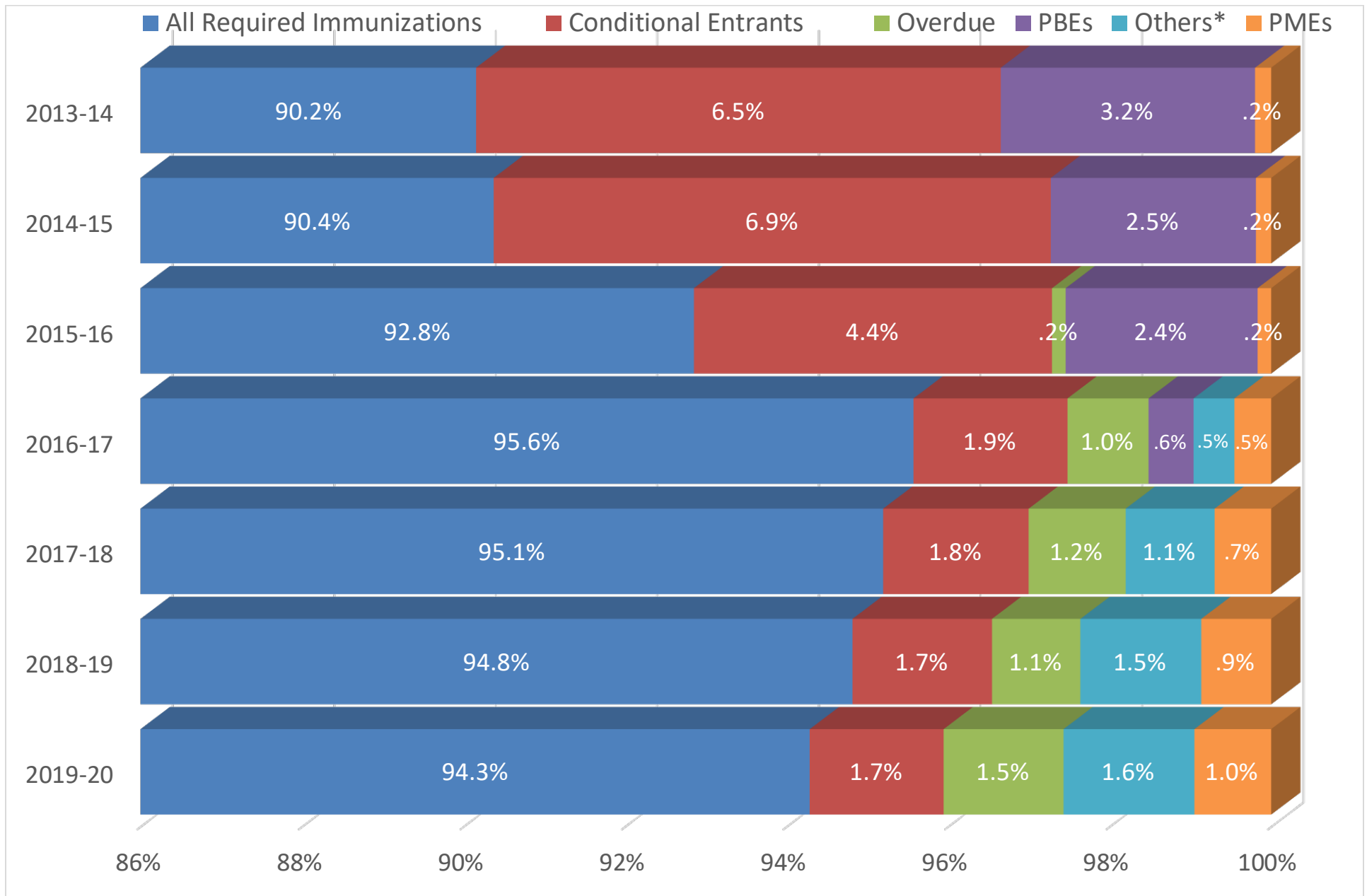


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2012-2013 to 2019-2020



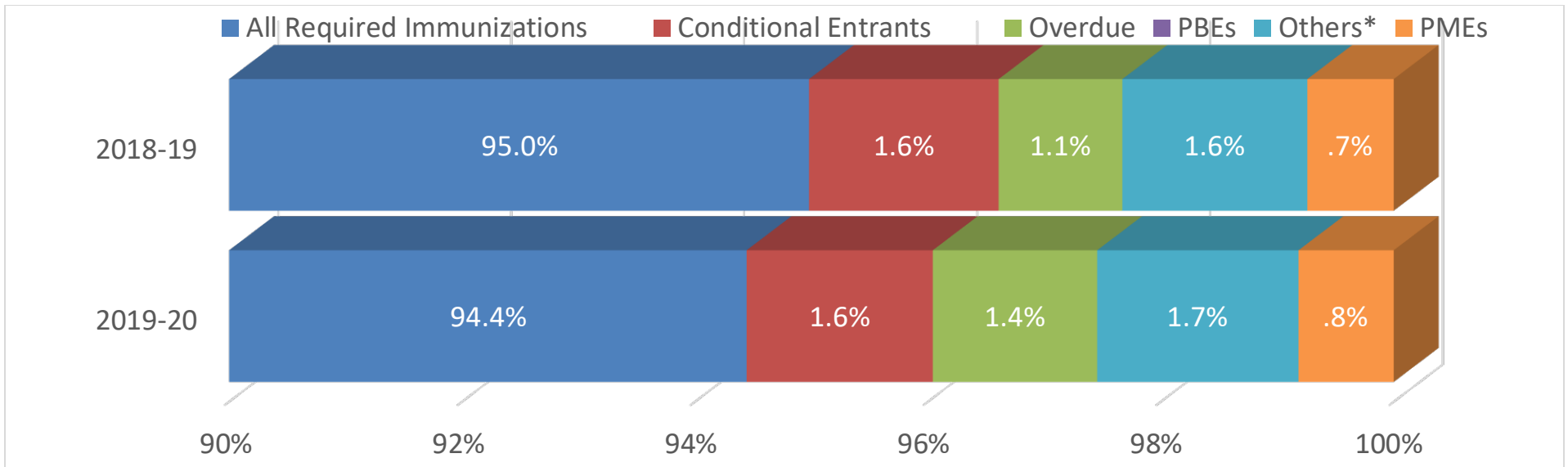
*One or more doses of varicella required through the 2018-2019 school year. Two or more doses of varicella required for the 2019-20 school year and forward.

Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2012-2013 to 2019-2020.



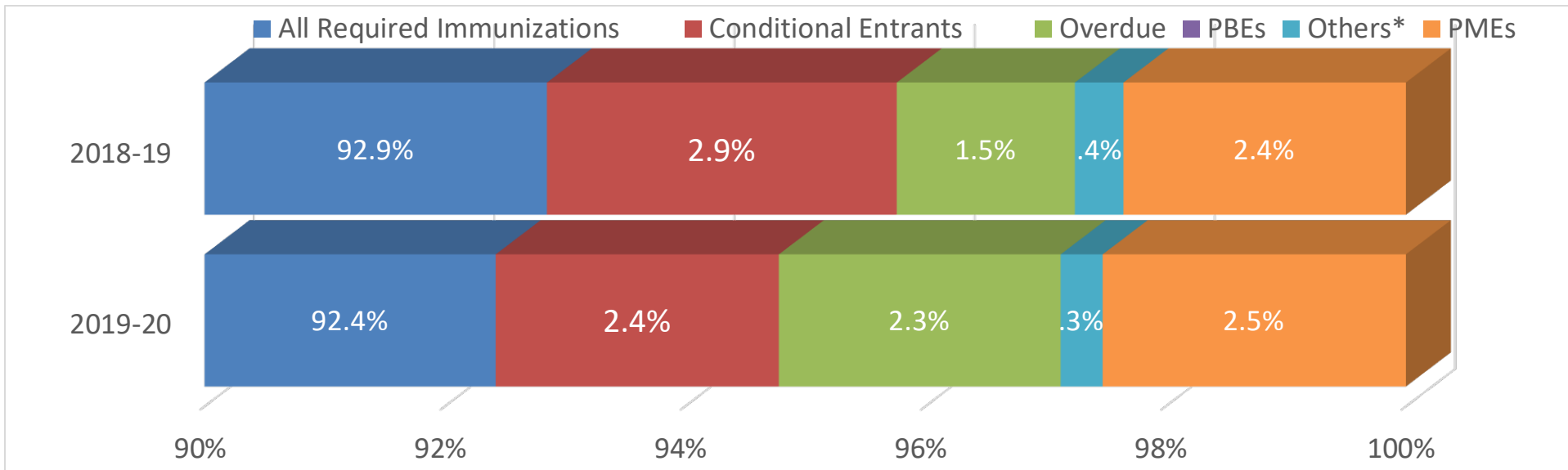
*Other children lacking required immunizations under criteria specified in SB 277.

Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2013-2014 to 2019-2020. In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. Since the 2016-2017 school year, entrants have been subject to SB 277. Starting from the 2019-20 school year and forward, the varicella requirement changed from one or more to two or more doses



*Other children lacking required immunizations under criteria specified in SB 277.

Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2018-2019 and 2019-2020



*Other children lacking required immunizations under criteria specified in SB 277.

Figure 8. Percentage of Private School Kindergarten Students by Reported Admission Status by School Year, 2018-2019 and 2019-2020

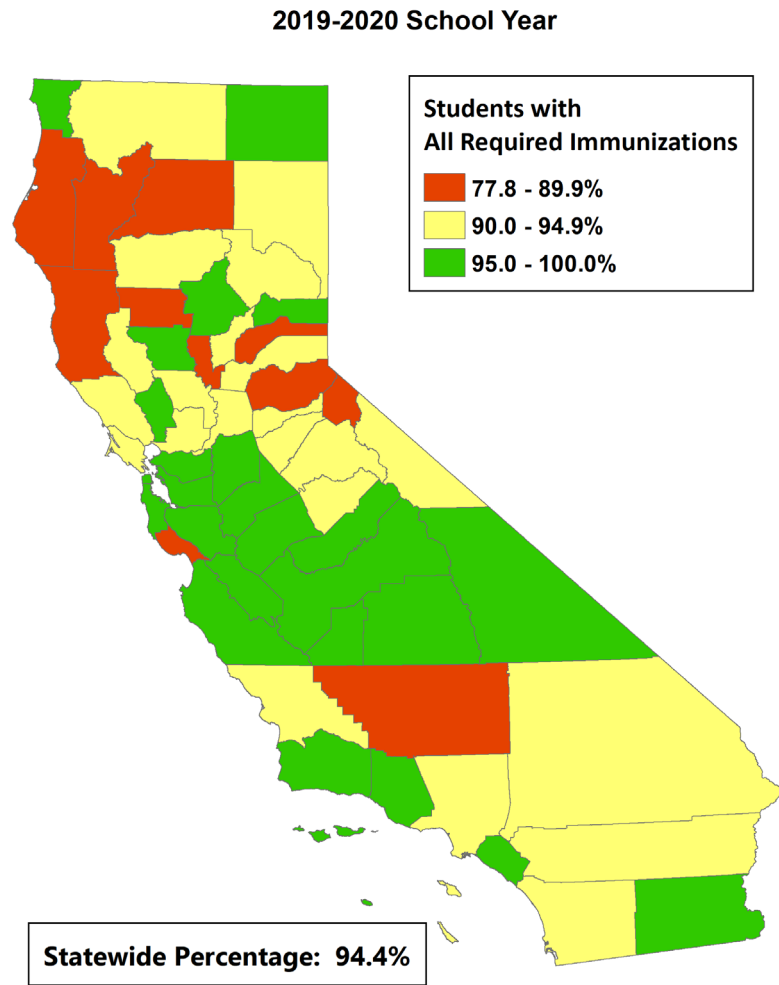
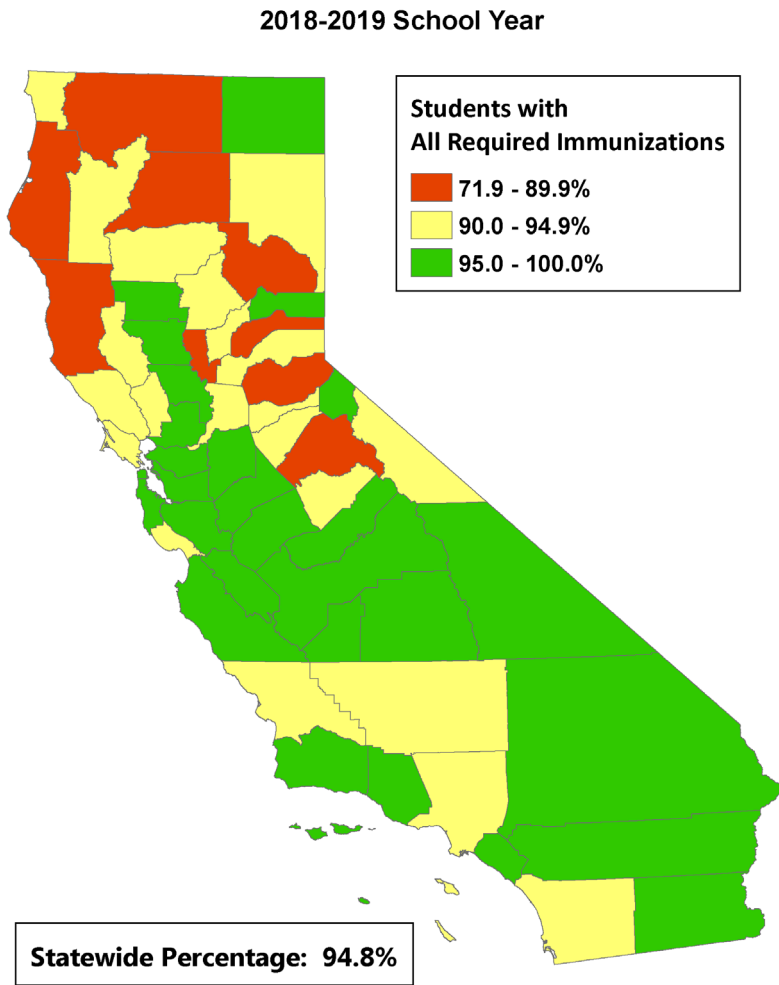


Figure 9. Kindergarten Students with All Required Immunizations, by County, 2018-2019 and 2019-2020 School Years
 See pages 3 and 4 for additional information.

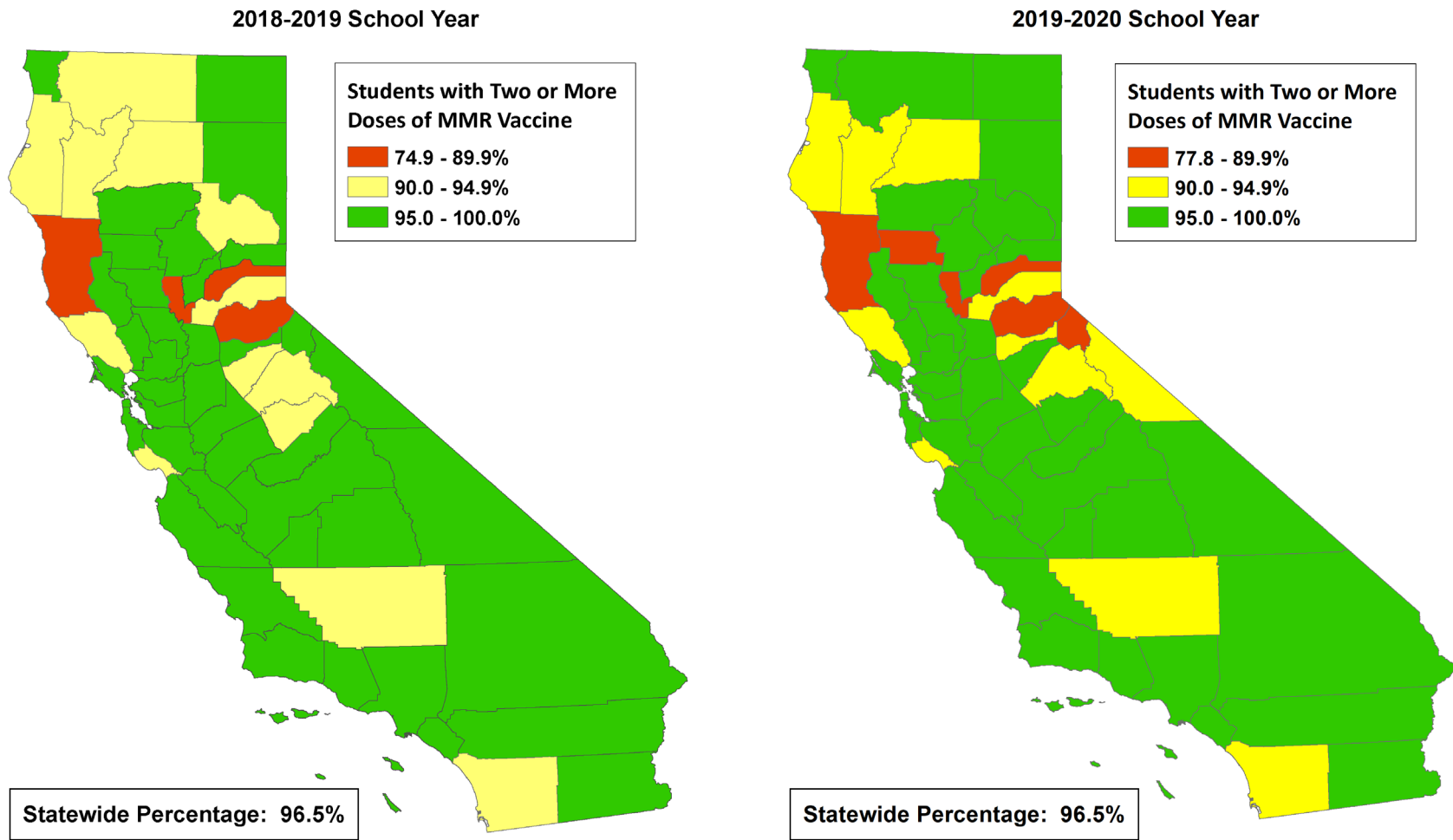


Figure 10. Kindergarten Students with Two or More Doses of MMR Vaccine, by County, 2018-2019 and 2019-2020 School Years

Table 1: Kindergarten Immunization Assessment Summary, 2018-2019 and 2019-2020 School Years

	2019-2020			2018-2019			1-Year Percentage Point Change*		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Kindergarten Students	8,000	6,109	1,891	7,964	6,068	1,896			
Number of Kindergarten Students	554,250	511,104	43,146	555,735	512,908	42,827			
All Required Immunizations	94.3%	94.4%	92.4%	94.8%	95.0%	92.9%	-0.5%	-0.5%	-0.4%
Conditional Entrants	1.7%	1.6%	2.4%	1.7%	1.6%	2.9%	-0.1%	0.0%	-0.6%
Permanent Medical Exemptions	1.0%	0.8%	2.5%	0.9%	0.7%	2.4%	0.1%	0.1%	0.2%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking immunizations†	1.6%	1.7%	0.3%	1.5%	1.6%	0.4%	0.1%	0.1%	-0.1%
Overdue^	1.5%	1.4%	2.3%	1.1%	1.1%	1.5%	0.4%	0.3%	0.9%
4+ DTP	96.2%	96.3%	94.6%	96.0%	96.1%	94.8%	0.1%	0.2%	-0.2%
3+ Polio	96.5%	96.7%	94.8%	96.5%	96.7%	94.8%	0.0%	0.0%	0.1%
2+ MMR	96.5%	96.7%	94.7%	96.5%	96.6%	95.0%	0.0%	0.0%	-0.3%
3+ Hep B	97.4%	97.5%	96.1%	97.4%	97.5%	96.3%	0.0%	0.0%	-0.2%
2+ Var (or physician-documented disease)**	96.0%	96.2%	94.4%	97.9%	98.0%	96.5%	-1.9%	-1.8%	-2.2%

* Differences between exact percentages may vary from the differences between the rounded percentages listed to the left in table.

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more required immunizations.

** 1+ doses of varicella vaccine was required through the 2018-2019 school year. Starting in the 2019-2020 school year and forward, 2+ doses of varicella vaccine were required.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,133	8,000	98.4%	6,124	6,109	99.8%	2,009	1,891	94.1%
COUNTY									
ALAMEDA	317	317	100.0%	225	225	100.0%	92	92	100.0%
ALPINE	2	2	100.0%	2	2	100.0%	0	0	0.0%
AMADOR	7	7	100.0%	6	6	100.0%	1	1	100.0%
BUTTE	56	56	100.0%	48	48	100.0%	8	8	100.0%
CALAVERAS	14	11	78.6%	11	11	100.0%	3	0	0.0%
COLUSA	6	6	100.0%	5	5	100.0%	1	1	100.0%
CONTRA COSTA	233	223	95.7%	168	166	98.8%	65	57	87.7%
DEL NORTE	10	10	100.0%	10	10	100.0%	0	0	0.0%
EL DORADO	46	44	95.7%	40	40	100.0%	6	6	100.0%
FRESNO	226	223	98.7%	202	202	100.0%	24	24	100.0%
GLENN	15	14	93.3%	12	12	100.0%	3	3	100.0%
HUMBOLDT	58	58	100.0%	52	52	100.0%	6	6	100.0%
IMPERIAL	46	45	97.8%	38	38	100.0%	8	7	87.5%
INYO	6	6	100.0%	6	6	100.0%	0	0	0.0%
KERN	185	182	98.4%	162	162	100.0%	23	23	100.0%
KINGS	39	36	92.3%	33	33	100.0%	6	5	83.3%
LAKE	18	15	83.3%	15	14	93.3%	3	2	66.7%
LASSEN	12	12	100.0%	12	12	100.0%	0	0	0.0%
LOS ANGELES	1,928	1,847	95.8%	1,328	1,324	99.7%	600	531	88.5%
MADERA	43	38	88.4%	40	38	95.0%	3	2	66.7%
MARIN	72	72	100.0%	46	46	100.0%	26	26	100.0%
MARIPOSA	8	8	100.0%	8	8	100.0%	0	0	0.0%
MENDOCINO	34	32	94.1%	28	26	92.9%	6	6	100.0%
MERCED	68	64	94.1%	55	55	100.0%	13	9	69.2%
MODOC	4	4	100.0%	4	4	100.0%	0	0	0.0%
MONO	6	6	100.0%	5	5	100.0%	1	1	100.0%
MONTEREY	96	96	100.0%	83	83	100.0%	13	13	100.0%
NAPA	37	37	100.0%	23	23	100.0%	14	14	100.0%
NEVADA	24	24	100.0%	20	20	100.0%	4	4	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,133	8,000	98.4%	6,124	6,109	99.8%	2,009	1,891	94.1%
COUNTY									
ORANGE	615	609	99.0%	413	413	100.0%	202	202	100.0%
PLACER	95	95	100.0%	81	81	100.0%	14	14	100.0%
PLUMAS	8	8	100.0%	5	5	100.0%	3	3	100.0%
RIVERSIDE	405	388	95.8%	307	306	99.7%	98	88	89.8%
SACRAMENTO	304	304	100.0%	241	241	100.0%	63	63	100.0%
SAN BENITO	20	20	100.0%	16	16	100.0%	4	4	100.0%
SAN BERNARDINO	440	435	98.9%	364	364	100.0%	76	76	100.0%
SAN DIEGO	614	607	98.9%	479	479	100.0%	135	135	100.0%
SAN FRANCISCO	157	155	98.7%	86	86	100.0%	71	70	98.6%
SAN JOAQUIN	183	180	98.4%	162	162	100.0%	21	21	100.0%
SAN LUIS OBISPO	60	60	100.0%	46	46	100.0%	14	14	100.0%
SAN MATEO	164	163	99.4%	108	108	100.0%	56	56	100.0%
SANTA BARBARA	106	105	99.1%	82	82	100.0%	24	24	100.0%
SANTA CLARA	384	384	100.0%	262	262	100.0%	122	122	100.0%
SANTA CRUZ	63	61	96.8%	46	46	100.0%	17	17	100.0%
SHASTA	59	58	98.3%	50	50	100.0%	9	9	100.0%
SIERRA	2	2	100.0%	2	2	100.0%	0	0	0.0%
SISKIYOU	27	27	100.0%	24	24	100.0%	3	3	100.0%
SOLANO	83	73	88.0%	61	61	100.0%	22	12	54.5%
SONOMA	131	122	93.1%	109	106	97.2%	22	19	86.4%
STANISLAUS	127	127	100.0%	112	112	100.0%	15	15	100.0%
SUTTER	33	29	87.9%	30	30	100.0%	3	3	100.0%
TEHAMA	24	22	91.7%	21	21	100.0%	3	2	66.7%
TRINITY	10	10	100.0%	10	10	100.0%	0	0	0.0%
TULARE	126	121	96.0%	113	113	100.0%	13	10	76.9%
TUOLUMNE	16	16	100.0%	11	11	100.0%	5	5	100.0%
VENTURA	186	183	98.4%	135	135	100.0%	51	50	98.0%
VIRTUAL		68	0.0%		0	0.0%		0	0.0%
YOLO	48	47	97.9%	36	36	100.0%	12	12	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,
 BY COUNTY

	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	522,581	94.3%	9,188	1.7%	5,268	1.0%	8,986	1.6%	8,227	1.5%
COUNTY											
ALAMEDA	21,622	20,855	96.5%	237	1.1%	141	0.7%	36	0.2%	353	1.6%
ALPINE	9	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	308	281	91.2%	13	4.2%	6	1.9%	2	0.6%	6	1.9%
BUTTE	2,742	2,609	95.1%	74	2.7%	21	0.8%	27	1.0%	11	0.4%
CALAVERAS	455	427	93.8%	8	1.8%	7	1.5%	8	1.8%	5	1.1%
COLUSA	372	360	96.8%	1	0.3%	0	0.0%	0	0.0%	11	3.0%
CONTRA COSTA	15,692	15,092	96.2%	249	1.6%	118	0.8%	45	0.3%	188	1.2%
DEL NORTE	394	382	97.0%	3	0.8%	0	0.0%	3	0.8%	6	1.5%
EL DORADO	2,909	2,318	79.7%	65	2.2%	125	4.3%	392	13.5%	9	0.3%
FRESNO	18,461	17,802	96.4%	187	1.0%	55	0.3%	294	1.6%	123	0.7%
GLENN	576	496	86.1%	8	1.4%	4	0.7%	63	10.9%	5	0.9%
HUMBOLDT	1,715	1,510	88.0%	46	2.7%	96	5.6%	12	0.7%	51	3.0%
IMPERIAL	3,117	2,982	95.7%	79	2.5%	6	0.2%	12	0.4%	38	1.2%
INYO	271	263	97.0%	7	2.6%	1	0.4%	0	0.0%	0	0.0%
KERN	18,327	16,240	88.6%	251	1.4%	128	0.7%	1,462	8.0%	246	1.3%
KINGS	2,576	2,497	96.9%	51	2.0%	6	0.2%	11	0.4%	11	0.4%
LAKE	796	723	90.8%	25	3.1%	6	0.8%	6	0.8%	36	4.5%
LASSEN	350	322	92.0%	19	5.4%	5	1.4%	3	0.9%	1	0.3%
LOS ANGELES	133,622	126,230	94.5%	2,249	1.7%	825	0.6%	1,048	0.8%	3,270	2.4%
MADERA	2,727	2,622	96.1%	40	1.5%	7	0.3%	21	0.8%	37	1.4%
MARIN	3,252	3,055	93.9%	75	2.3%	94	2.9%	10	0.3%	18	0.6%
MARIPOSA	160	149	93.1%	9	5.6%	0	0.0%	2	1.3%	0	0.0%
MENDOCINO	1,218	1,044	85.7%	88	7.2%	37	3.0%	7	0.6%	42	3.4%
MERCED	5,321	5,143	96.7%	83	1.6%	6	0.1%	33	0.6%	56	1.1%
MODOC	120	115	95.8%	1	0.8%	1	0.8%	0	0.0%	3	2.5%
MONO	138	125	90.6%	7	5.1%	4	2.9%	0	0.0%	2	1.4%
MONTEREY	6,733	6,537	97.1%	95	1.4%	56	0.8%	4	0.1%	41	0.6%
NAPA	1,746	1,687	96.6%	14	0.8%	24	1.4%	6	0.3%	15	0.9%
NEVADA	985	783	79.5%	33	3.4%	129	13.1%	30	3.0%	10	1.0%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,
BY COUNTY

	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	522,581	94.3%	9,188	1.7%	5,268	1.0%	8,986	1.6%	8,227	1.5%
COUNTY											
ORANGE	41,381	39,527	95.5%	622	1.5%	457	1.1%	338	0.8%	437	1.1%
PLACER	6,709	6,074	90.5%	162	2.4%	219	3.3%	88	1.3%	166	2.5%
PLUMAS	208	192	92.3%	8	3.8%	3	1.4%	1	0.5%	4	1.9%
RIVERSIDE	36,134	33,827	93.6%	673	1.9%	314	0.9%	932	2.6%	388	1.1%
SACRAMENTO	21,495	20,057	93.3%	464	2.2%	342	1.6%	407	1.9%	225	1.0%
SAN BENITO	1,099	1,058	96.3%	14	1.3%	6	0.5%	1	0.1%	20	1.8%
SAN BERNARDINO	34,542	32,441	93.9%	617	1.8%	147	0.4%	866	2.5%	471	1.4%
SAN DIEGO	45,956	42,717	93.0%	697	1.5%	658	1.4%	1,633	3.6%	251	0.5%
SAN FRANCISCO	6,963	6,637	95.3%	77	1.1%	52	0.7%	1	0.0%	196	2.8%
SAN JOAQUIN	12,320	11,710	95.0%	214	1.7%	48	0.4%	176	1.4%	172	1.4%
SAN LUIS OBISPO	3,095	2,915	94.2%	57	1.8%	68	2.2%	26	0.8%	29	0.9%
SAN MATEO	9,168	8,857	96.6%	121	1.3%	64	0.7%	10	0.1%	116	1.3%
SANTA BARBARA	6,500	6,253	96.2%	94	1.4%	91	1.4%	27	0.4%	35	0.5%
SANTA CLARA	24,963	24,068	96.4%	313	1.3%	187	0.7%	57	0.2%	338	1.4%
SANTA CRUZ	3,415	3,049	89.3%	74	2.2%	94	2.8%	158	4.6%	40	1.2%
SHASTA	2,525	2,259	89.5%	82	3.2%	68	2.7%	72	2.9%	44	1.7%
SIERRA	25	--*	≥95%	--*	≤5%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	530	503	94.9%	10	1.9%	6	1.1%	3	0.6%	8	1.5%
SOLANO	5,966	5,638	94.5%	92	1.5%	29	0.5%	5	0.1%	202	3.4%
SONOMA	6,043	5,576	92.3%	127	2.1%	189	3.1%	43	0.7%	108	1.8%
STANISLAUS	9,366	8,961	95.7%	186	2.0%	62	0.7%	27	0.3%	130	1.4%
SUTTER	2,017	1,720	85.3%	13	0.6%	18	0.9%	263	13.0%	3	0.1%
TEHAMA	1,073	1,004	93.6%	23	2.1%	7	0.7%	13	1.2%	26	2.4%
TRINITY	138	120	87.0%	6	4.3%	7	5.1%	1	0.7%	4	2.9%
TULARE	9,535	9,205	96.5%	112	1.2%	23	0.2%	168	1.8%	27	0.3%
TUOLUMNE	584	527	90.2%	21	3.6%	21	3.6%	8	1.4%	7	1.2%
VENTURA	11,466	10,951	95.5%	198	1.7%	125	1.1%	69	0.6%	123	1.1%
YOLO	2,959	2,791	94.3%	60	2.0%	48	1.6%	27	0.9%	33	1.1%
YUBA	1,361	1,263	92.8%	33	2.4%	6	0.4%	29	2.1%	30	2.2%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2019-2020 AND 2018-2019,
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATION	CONDITIONAL ENTRANTS	STUDENTS WITH PME	OTHERS LACKING REQUIRED	OVERDUE [^]
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
	2018-19	555,735	94.8%	1.7%	0.8%	1.5%	1.1%
ALAMEDA	2019-20	21,622	96.5%	1.1%	0.7%	0.2%	1.6%
	2018-19	21,818	96.6%	1.1%	0.6%	0.2%	1.5%
ALPINE	2019-20	9	--*	--*	--*	--*	--*
	2018-19	10	--*	--*	--*	--*	--*
AMADOR	2019-20	308	91.2%	4.2%	1.9%	0.6%	1.9%
	2018-19	279	91.8%	3.9%	1.1%	2.9%	0.4%
BUTTE	2019-20	2,742	95.1%	2.7%	0.8%	1.0%	0.4%
	2018-19	2,822	94.2%	2.6%	1.2%	1.6%	0.4%
CALAVERAS	2019-20	455	93.8%	1.8%	1.5%	1.8%	1.1%
	2018-19	437	90.2%	3.2%	2.7%	3.9%	0.0%
COLUSA	2019-20	372	96.8%	0.3%	0.0%	0.0%	3.0%
	2018-19	360	97.5%	2.5%	0.0%	0.0%	0.0%
CONTRA COSTA	2019-20	15,692	96.2%	1.6%	0.8%	0.3%	1.2%
	2018-19	15,192	96.4%	1.6%	0.9%	0.3%	0.8%
DEL NORTE	2019-20	394	97.0%	0.8%	0.0%	0.8%	1.5%
	2018-19	382	94.2%	1.8%	1.0%	2.1%	0.8%
EL DORADO	2019-20	2,909	79.7%	2.2%	4.3%	13.5%	0.3%
	2018-19	2,453	87.8%	3.2%	3.8%	5.1%	0.1%
FRESNO	2019-20	18,461	96.4%	1.0%	0.3%	1.6%	0.7%
	2018-19	18,758	96.6%	1.4%	0.3%	1.3%	0.5%
GLENN	2019-20	576	86.1%	1.4%	0.7%	10.9%	0.9%
	2018-19	540	96.3%	0.9%	0.6%	0.0%	2.2%
HUMBOLDT	2019-20	1,715	88.0%	2.7%	5.6%	0.7%	3.0%
	2018-19	1,708	88.2%	3.1%	5.8%	1.4%	1.5%
IMPERIAL	2019-20	3,117	95.7%	2.5%	0.2%	0.4%	1.2%
	2018-19	3,134	97.3%	1.9%	0.2%	0.3%	0.4%
INYO	2019-20	271	97.0%	2.6%	0.4%	0.0%	0.0%
	2018-19	231	95.7%	4.3%	0.0%	0.0%	0.0%
KERN	2019-20	18,327	88.6%	1.4%	0.7%	8.0%	1.3%
	2018-19	18,110	91.1%	2.6%	0.3%	5.5%	0.5%
KINGS	2019-20	2,576	96.9%	2.0%	0.2%	0.4%	0.4%
	2018-19	2,686	97.5%	1.7%	0.2%	0.1%	0.5%
LAKE	2019-20	796	90.8%	3.1%	0.8%	0.8%	4.5%
	2018-19	848	92.3%	5.1%	1.4%	0.1%	1.1%
LASSEN	2019-20	350	92.0%	5.4%	1.4%	0.9%	0.3%
	2018-19	385	94.3%	2.6%	0.8%	2.3%	0.0%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2019-2020 AND 2018-2019,
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATION	CONDITIONAL ENTRANTS	STUDENTS WITH PME	OTHERS LACKING REQUIRED	OVERDUE [^]
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
	2018-19	555,735	94.8%	1.7%	0.8%	1.5%	1.1%
LOS ANGELES	2019-20	133,622	94.5%	1.7%	0.6%	0.8%	2.4%
	2018-19	136,039	94.5%	1.7%	0.6%	1.3%	1.9%
MADERA	2019-20	2,727	96.1%	1.5%	0.3%	0.8%	1.4%
	2018-19	2,762	95.5%	1.3%	0.4%	1.3%	1.4%
MARIN	2019-20	3,252	93.9%	2.3%	2.9%	0.3%	0.6%
	2018-19	3,170	94.3%	2.7%	2.6%	0.2%	0.3%
MARIPOSA	2019-20	160	93.1%	5.6%	0.0%	1.3%	0.0%
	2018-19	156	91.0%	6.4%	1.3%	1.3%	0.0%
MENDOCINO	2019-20	1,218	85.7%	7.2%	3.0%	0.6%	3.4%
	2018-19	1,204	85.0%	2.2%	4.2%	0.5%	8.1%
MERCED	2019-20	5,321	96.7%	1.6%	0.1%	0.6%	1.1%
	2018-19	5,240	97.5%	1.6%	0.2%	0.3%	0.4%
MODOC	2019-20	120	95.8%	0.8%	0.8%	0.0%	2.5%
	2018-19	111	99.1%	0.0%	0.0%	0.0%	0.9%
MONO	2019-20	138	90.6%	5.1%	2.9%	0.0%	1.4%
	2018-19	150	90.7%	4.0%	2.7%	0.0%	2.7%
MONTEREY	2019-20	6,733	97.1%	1.4%	0.8%	0.1%	0.6%
	2018-19	6,926	97.5%	1.2%	0.8%	0.0%	0.6%
NAPA	2019-20	1,746	96.6%	0.8%	1.4%	0.3%	0.9%
	2018-19	1,429	94.5%	2.9%	1.7%	0.5%	0.3%
NEVADA	2019-20	985	79.5%	3.4%	13.1%	3.0%	1.0%
	2018-19	990	80.3%	4.3%	10.6%	4.6%	0.1%
ORANGE	2019-20	41,381	95.5%	1.5%	1.1%	0.8%	1.1%
	2018-19	41,734	95.7%	1.8%	1.1%	0.7%	0.7%
PLACER	2019-20	6,709	90.5%	2.4%	3.3%	1.3%	2.5%
	2018-19	6,470	91.7%	2.9%	2.4%	0.9%	2.0%
PLUMAS	2019-20	208	92.3%	3.8%	1.4%	0.5%	1.9%
	2018-19	210	86.2%	7.1%	3.8%	2.9%	0.0%
RIVERSIDE	2019-20	36,134	93.6%	1.9%	0.9%	2.6%	1.1%
	2018-19	35,422	96.3%	1.7%	0.7%	0.5%	0.8%
SACRAMENTO	2019-20	21,495	93.3%	2.2%	1.6%	1.9%	1.0%
	2018-19	21,501	93.4%	2.5%	1.4%	1.8%	0.9%
SAN BENITO	2019-20	1,099	96.3%	1.3%	0.5%	0.1%	1.8%
	2018-19	1,052	97.0%	1.3%	0.2%	0.0%	1.5%
SAN BERNARDINO	2019-20	34,542	93.9%	1.8%	0.4%	2.5%	1.4%
	2018-19	33,920	95.1%	1.9%	0.4%	1.6%	0.8%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2019-2020 AND 2018-2019,
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATION	CONDITIONAL ENTRANTS	STUDENTS WITH PME	OTHERS LACKING REQUIRED	OVERDUE [^]
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
	2018-19	555,735	94.8%	1.7%	0.8%	1.5%	1.1%
SAN DIEGO	2019-20	45,956	93.0%	1.5%	1.4%	3.6%	0.5%
	2018-19	46,256	92.5%	1.7%	1.3%	4.0%	0.5%
SAN FRANCISCO	2019-20	6,963	95.3%	1.1%	0.7%	0.0%	2.8%
	2018-19	6,840	95.7%	1.0%	0.7%	0.0%	2.6%
SAN JOAQUIN	2019-20	12,320	95.0%	1.7%	0.4%	1.4%	1.4%
	2018-19	12,410	96.7%	1.4%	0.2%	1.2%	0.4%
SAN LUIS OBISPO	2019-20	3,095	94.2%	1.8%	2.2%	0.8%	0.9%
	2018-19	3,012	94.7%	1.8%	2.3%	0.8%	0.4%
SAN MATEO	2019-20	9,168	96.6%	1.3%	0.7%	0.1%	1.3%
	2018-19	9,275	96.6%	1.1%	0.5%	0.0%	1.7%
SANTA BARBARA	2019-20	6,500	96.2%	1.4%	1.4%	0.4%	0.5%
	2018-19	6,273	96.7%	1.2%	1.1%	0.7%	0.2%
SANTA CLARA	2019-20	24,963	96.4%	1.3%	0.7%	0.2%	1.4%
	2018-19	25,505	97.3%	1.0%	0.5%	0.2%	1.0%
SANTA CRUZ	2019-20	3,415	89.3%	2.2%	2.8%	4.6%	1.2%
	2018-19	3,579	90.9%	1.8%	2.7%	4.0%	0.6%
SHASTA	2019-20	2,525	89.5%	3.2%	2.7%	2.9%	1.7%
	2018-19	2,466	87.8%	3.7%	3.0%	3.5%	1.9%
SIERRA	2019-20	25	≥95%	≤5%	0.0%	0.0%	0.0%
	2018-19	36	97.2%	0.0%	0.0%	2.8%	0.0%
SISKIYOU	2019-20	530	94.9%	1.9%	1.1%	0.6%	1.5%
	2018-19	561	88.9%	3.2%	1.4%	5.0%	1.4%
SOLANO	2019-20	5,966	94.5%	1.5%	0.5%	0.1%	3.4%
	2018-19	5,933	97.5%	1.7%	0.4%	0.2%	0.2%
SONOMA	2019-20	6,043	92.3%	2.1%	3.1%	0.7%	1.8%
	2018-19	6,343	91.3%	2.4%	3.4%	1.5%	1.4%
STANISLAUS	2019-20	9,366	95.7%	2.0%	0.7%	0.3%	1.4%
	2018-19	9,346	95.9%	1.7%	0.7%	1.1%	0.6%
SUTTER	2019-20	2,017	85.3%	0.6%	0.9%	13.0%	0.1%
	2018-19	2,310	71.9%	0.6%	1.2%	25.5%	0.9%
TEHAMA	2019-20	1,073	93.6%	2.1%	0.7%	1.2%	2.4%
	2018-19	983	93.9%	3.0%	0.8%	1.5%	0.8%
TRINITY	2019-20	138	87.0%	4.3%	5.1%	0.7%	2.9%
	2018-19	124	91.1%	3.2%	3.2%	0.8%	1.6%
TULARE	2019-20	9,535	96.5%	1.2%	0.2%	1.8%	0.3%
	2018-19	9,105	98.1%	1.1%	0.2%	0.4%	0.2%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

^ Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2019-2020 AND 2018-2019,
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATION	CONDITIONAL ENTRANTS	STUDENTS WITH PME	OTHERS LACKING REQUIRED	OVERDUE [^]
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
	2018-19	555,735	94.8%	1.7%	0.8%	1.5%	1.1%
TUOLUMNE	2019-20	584	90.2%	3.6%	3.6%	1.4%	1.2%
	2018-19	614	87.5%	3.9%	3.3%	2.6%	2.8%
VENTURA	2019-20	11,466	95.5%	1.7%	1.1%	0.6%	1.1%
	2018-19	11,814	96.1%	1.5%	1.2%	0.7%	0.5%
YOLO	2019-20	2,959	94.3%	2.0%	1.6%	0.9%	1.1%
	2018-19	2,907	95.6%	2.9%	1.2%	0.2%	0.1%
YUBA	2019-20	1,361	92.8%	2.4%	0.4%	2.1%	2.2%
	2018-19	1,404	92.5%	2.1%	0.4%	1.6%	3.3%

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

[^] Overdue for one or more immunizations.

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	554,250	522,581	94.3%	555,735	526,923	94.8%	-0.5%	-4,342
COUNTY								
ALAMEDA	21,622	20,855	96.5%	21,818	21,078	96.6%	-0.2%	-223
ALPINE	9	<20*	--*	10	<20*	--*	--*	--*
AMADOR	308	281	91.2%	279	256	91.8%	-0.5%	25
BUTTE	2,742	2,609	95.1%	2,822	2,657	94.2%	1.0%	-48
CALAVERAS	455	427	93.8%	437	394	90.2%	3.7%	33
COLUSA	372	360	96.8%	360	351	97.5%	-0.7%	9
CONTRA COSTA	15,692	15,092	96.2%	15,192	14,644	96.4%	-0.2%	448
DEL NORTE	394	382	97.0%	382	360	94.2%	2.7%	22
EL DORADO	2,909	2,318	79.7%	2,453	2,153	87.8%	-8.1%	165
FRESNO	18,461	17,802	96.4%	18,758	18,113	96.6%	-0.1%	-311
GLENN	576	496	86.1%	540	520	96.3%	-10.2%	-24
HUMBOLDT	1,715	1,510	88.0%	1,708	1,507	88.2%	-0.2%	3
IMPERIAL	3,117	2,982	95.7%	3,134	3,049	97.3%	-1.6%	-67
INYO	271	263	97.0%	231	221	95.7%	1.4%	42
KERN	18,327	16,240	88.6%	18,110	16,495	91.1%	-2.5%	-255
KINGS	2,576	2,497	96.9%	2,686	2,620	97.5%	-0.6%	-123
LAKE	796	723	90.8%	848	783	92.3%	-1.5%	-60
LASSEN	350	322	92.0%	385	363	94.3%	-2.3%	-41
LOS ANGELES	133,622	126,230	94.5%	136,039	128,618	94.5%	-0.1%	-2,388
MADERA	2,727	2,622	96.1%	2,762	2,637	95.5%	0.7%	-15
MARIN	3,252	3,055	93.9%	3,170	2,989	94.3%	-0.3%	66
MARIPOSA	160	149	93.1%	156	142	91.0%	2.1%	7
MENDOCINO	1,218	1,044	85.7%	1,204	1,024	85.0%	0.7%	20
MERCED	5,321	5,143	96.7%	5,240	5,109	97.5%	-0.8%	34
MODOC	120	115	95.8%	111	110	99.1%	-3.3%	5
MONO	138	125	90.6%	150	136	90.7%	-0.1%	-11
MONTEREY	6,733	6,537	97.1%	6,926	6,750	97.5%	-0.4%	-213
NAPA	1,746	1,687	96.6%	1,429	1,350	94.5%	2.1%	337
NEVADA	985	783	79.5%	990	795	80.3%	-0.8%	-12

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KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	554,250	522,581	94.3%	555,735	526,923	94.8%	-0.5%	-4,342
COUNTY								
ORANGE	41,381	39,527	95.5%	41,734	39,951	95.7%	-0.2%	-424
PLACER	6,709	6,074	90.5%	6,470	5,936	91.7%	-1.2%	138
PLUMAS	208	192	92.3%	210	181	86.2%	6.1%	11
RIVERSIDE	36,134	33,827	93.6%	35,422	34,104	96.3%	-2.7%	-277
SACRAMENTO	21,495	20,057	93.3%	21,501	20,087	93.4%	-0.1%	-30
SAN BENITO	1,099	1,058	96.3%	1,052	1,020	97.0%	-0.7%	38
SAN BERNARDINO	34,542	32,441	93.9%	33,920	32,266	95.1%	-1.2%	175
SAN DIEGO	45,956	42,717	93.0%	46,256	42,807	92.5%	0.4%	-90
SAN FRANCISCO	6,963	6,637	95.3%	6,840	6,547	95.7%	-0.4%	90
SAN JOAQUIN	12,320	11,710	95.0%	12,410	12,005	96.7%	-1.7%	-295
SAN LUIS OBISPO	3,095	2,915	94.2%	3,012	2,852	94.7%	-0.5%	63
SAN MATEO	9,168	8,857	96.6%	9,275	8,958	96.6%	0.0%	-101
SANTA BARBARA	6,500	6,253	96.2%	6,273	6,069	96.7%	-0.5%	184
SANTA CLARA	24,963	24,068	96.4%	25,505	24,817	97.3%	-0.9%	-749
SANTA CRUZ	3,415	3,049	89.3%	3,579	3,252	90.9%	-1.6%	-203
SHASTA	2,525	2,259	89.5%	2,466	2,165	87.8%	1.7%	94
SIERRA	25	--*	≥95%	36	35	97.2%	--*	--*
SISKIYOU	530	503	94.9%	561	499	88.9%	6.0%	4
SOLANO	5,966	5,638	94.5%	5,933	5,786	97.5%	-3.0%	-148
SONOMA	6,043	5,576	92.3%	6,343	5,793	91.3%	0.9%	-217
STANISLAUS	9,366	8,961	95.7%	9,346	8,959	95.9%	-0.2%	2
SUTTER	2,017	1,720	85.3%	2,310	1,660	71.9%	13.4%	60
TEHAMA	1,073	1,004	93.6%	983	923	93.9%	-0.3%	81
TRINITY	138	120	87.0%	124	113	91.1%	-4.2%	7
TULARE	9,535	9,205	96.5%	9,105	8,936	98.1%	-1.6%	269
TUOLUMNE	584	527	90.2%	614	537	87.5%	2.8%	-10
VENTURA	11,466	10,951	95.5%	11,814	11,353	96.1%	-0.6%	-402
YOLO	2,959	2,791	94.3%	2,907	2,779	95.6%	-1.3%	12
YUBA	1,361	1,263	92.8%	1,404	1,299	92.5%	0.3%	-36

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2019-2020 AND 2018-2019,
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	554,250	9,188	1.7%	555,735	9,599	1.7%	-0.1%	-411
COUNTY								
ALAMEDA	21,622	237	1.1%	21,818	231	1.1%	0.0%	6
ALPINE	9	<20*	--*	10	<20*	--*	--*	--*
AMADOR	308	13	4.2%	279	11	3.9%	0.3%	2
BUTTE	2,742	74	2.7%	2,822	73	2.6%	0.1%	1
CALAVERAS	455	8	1.8%	437	14	3.2%	-1.4%	-6
COLUSA	372	1	0.3%	360	9	2.5%	-2.2%	-8
CONTRA COSTA	15,692	249	1.6%	15,192	247	1.6%	0.0%	2
DEL NORTE	394	3	0.8%	382	7	1.8%	-1.1%	-4
EL DORADO	2,909	65	2.2%	2,453	78	3.2%	-0.9%	-13
FRESNO	18,461	187	1.0%	18,758	256	1.4%	-0.4%	-69
GLENN	576	8	1.4%	540	5	0.9%	0.5%	3
HUMBOLDT	1,715	46	2.7%	1,708	53	3.1%	-0.4%	-7
IMPERIAL	3,117	79	2.5%	3,134	58	1.9%	0.7%	21
INYO	271	7	2.6%	231	10	4.3%	-1.7%	-3
KERN	18,327	251	1.4%	18,110	474	2.6%	-1.2%	-223
KINGS	2,576	51	2.0%	2,686	45	1.7%	0.3%	6
LAKE	796	25	3.1%	848	43	5.1%	-1.9%	-18
LASSEN	350	19	5.4%	385	10	2.6%	2.8%	9
LOS ANGELES	133,622	2,249	1.7%	136,039	2,252	1.7%	0.0%	-3
MADERA	2,727	40	1.5%	2,762	36	1.3%	0.2%	4
MARIN	3,252	75	2.3%	3,170	85	2.7%	-0.4%	-10
MARIPOSA	160	9	5.6%	156	10	6.4%	-0.8%	-1
MENDOCINO	1,218	88	7.2%	1,204	27	2.2%	5.0%	61
MERCED	5,321	83	1.6%	5,240	83	1.6%	0.0%	0
MODOC	120	1	0.8%	111	0	0.0%	0.8%	1
MONO	138	7	5.1%	150	6	4.0%	1.1%	1
MONTEREY	6,733	95	1.4%	6,926	81	1.2%	0.2%	14
NAPA	1,746	14	0.8%	1,429	42	2.9%	-2.1%	-28
NEVADA	985	33	3.4%	990	43	4.3%	-1.0%	-10

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2019-2020 AND 2018-2019,
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	554,250	9,188	1.7%	555,735	9,599	1.7%	-0.1%	-411
COUNTY								
ORANGE	41,381	622	1.5%	41,734	741	1.8%	-0.3%	-119
PLACER	6,709	162	2.4%	6,470	190	2.9%	-0.5%	-28
PLUMAS	208	8	3.8%	210	15	7.1%	-3.3%	-7
RIVERSIDE	36,134	673	1.9%	35,422	598	1.7%	0.2%	75
SACRAMENTO	21,495	464	2.2%	21,501	527	2.5%	-0.3%	-63
SAN BENITO	1,099	14	1.3%	1,052	14	1.3%	-0.1%	0
SAN BERNARDINO	34,542	617	1.8%	33,920	660	1.9%	-0.2%	-43
SAN DIEGO	45,956	697	1.5%	46,256	770	1.7%	-0.1%	-73
SAN FRANCISCO	6,963	77	1.1%	6,840	71	1.0%	0.1%	6
SAN JOAQUIN	12,320	214	1.7%	12,410	176	1.4%	0.3%	38
SAN LUIS OBISPO	3,095	57	1.8%	3,012	54	1.8%	0.0%	3
SAN MATEO	9,168	121	1.3%	9,275	105	1.1%	0.2%	16
SANTA BARBARA	6,500	94	1.4%	6,273	78	1.2%	0.2%	16
SANTA CLARA	24,963	313	1.3%	25,505	258	1.0%	0.2%	55
SANTA CRUZ	3,415	74	2.2%	3,579	66	1.8%	0.3%	8
SHASTA	2,525	82	3.2%	2,466	91	3.7%	-0.4%	-9
SIERRA	25	--*	≤5%	36	0	0.0%	--*	--*
SISKIYOU	530	10	1.9%	561	18	3.2%	-1.3%	-8
SOLANO	5,966	92	1.5%	5,933	103	1.7%	-0.2%	-11
SONOMA	6,043	127	2.1%	6,343	152	2.4%	-0.3%	-25
STANISLAUS	9,366	186	2.0%	9,346	162	1.7%	0.3%	24
SUTTER	2,017	13	0.6%	2,310	14	0.6%	0.0%	-1
TEHAMA	1,073	23	2.1%	983	29	3.0%	-0.8%	-6
TRINITY	138	6	4.3%	124	4	3.2%	1.1%	2
TULARE	9,535	112	1.2%	9,105	98	1.1%	0.1%	14
TUOLUMNE	584	21	3.6%	614	24	3.9%	-0.3%	-3
VENTURA	11,466	198	1.7%	11,814	179	1.5%	0.2%	19
YOLO	2,959	60	2.0%	2,907	83	2.9%	-0.8%	-23
YUBA	1,361	33	2.4%	1,404	30	2.1%	0.3%	3

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	554,250	5,268	1.0%	555,735	4,812	0.9%	0.1%	456
COUNTY								
ALAMEDA	21,622	141	0.7%	21,818	132	0.6%	0.0%	9
ALPINE	9	<20*	--*	10	<20*	--*	--*	--*
AMADOR	308	6	1.9%	279	3	1.1%	0.9%	3
BUTTE	2,742	21	0.8%	2,822	34	1.2%	-0.4%	-13
CALAVERAS	455	7	1.5%	437	12	2.7%	-1.2%	-5
COLUSA	372	0	0.0%	360	0	0.0%	0.0%	0
CONTRA COSTA	15,692	118	0.8%	15,192	132	0.9%	-0.1%	-14
DEL NORTE	394	0	0.0%	382	4	1.0%	-1.0%	-4
EL DORADO	2,909	125	4.3%	2,453	93	3.8%	0.5%	32
FRESNO	18,461	55	0.3%	18,758	52	0.3%	0.0%	3
GLENN	576	4	0.7%	540	3	0.6%	0.1%	1
HUMBOLDT	1,715	96	5.6%	1,708	99	5.8%	-0.2%	-3
IMPERIAL	3,117	6	0.2%	3,134	6	0.2%	0.0%	0
INYO	271	1	0.4%	231	0	0.0%	0.4%	1
KERN	18,327	128	0.7%	18,110	57	0.3%	0.4%	71
KINGS	2,576	6	0.2%	2,686	5	0.2%	0.0%	1
LAKE	796	6	0.8%	848	12	1.4%	-0.7%	-6
LASSEN	350	5	1.4%	385	3	0.8%	0.6%	2
LOS ANGELES	133,622	825	0.6%	136,039	783	0.6%	0.0%	42
MADERA	2,727	7	0.3%	2,762	12	0.4%	-0.2%	-5
MARIN	3,252	94	2.9%	3,170	82	2.6%	0.3%	12
MARIPOSA	160	0	0.0%	156	2	1.3%	-1.3%	-2
MENDOCINO	1,218	37	3.0%	1,204	50	4.2%	-1.1%	-13
MERCED	5,321	6	0.1%	5,240	8	0.2%	0.0%	-2
MODOC	120	1	0.8%	111	0	0.0%	0.8%	1
MONO	138	4	2.9%	150	4	2.7%	0.2%	0
MONTEREY	6,733	56	0.8%	6,926	52	0.8%	0.1%	4
NAPA	1,746	24	1.4%	1,429	25	1.7%	-0.4%	-1
NEVADA	985	129	13.1%	990	105	10.6%	2.5%	24

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	554,250	5,268	1.0%	555,735	4,812	0.9%	0.1%	456
COUNTY								
ORANGE	41,381	457	1.1%	41,734	456	1.1%	0.0%	1
PLACER	6,709	219	3.3%	6,470	155	2.4%	0.9%	64
PLUMAS	208	3	1.4%	210	8	3.8%	-2.4%	-5
RIVERSIDE	36,134	314	0.9%	35,422	232	0.7%	0.2%	82
SACRAMENTO	21,495	342	1.6%	21,501	309	1.4%	0.2%	33
SAN BENITO	1,099	6	0.5%	1,052	2	0.2%	0.4%	4
SAN BERNARDINO	34,542	147	0.4%	33,920	147	0.4%	0.0%	0
SAN DIEGO	45,956	658	1.4%	46,256	599	1.3%	0.1%	59
SAN FRANCISCO	6,963	52	0.7%	6,840	46	0.7%	0.1%	6
SAN JOAQUIN	12,320	48	0.4%	12,410	26	0.2%	0.2%	22
SAN LUIS OBISPO	3,095	68	2.2%	3,012	68	2.3%	-0.1%	0
SAN MATEO	9,168	64	0.7%	9,275	49	0.5%	0.2%	15
SANTA BARBARA	6,500	91	1.4%	6,273	72	1.1%	0.3%	19
SANTA CLARA	24,963	187	0.7%	25,505	129	0.5%	0.2%	58
SANTA CRUZ	3,415	94	2.8%	3,579	97	2.7%	0.0%	-3
SHASTA	2,525	68	2.7%	2,466	75	3.0%	-0.3%	-7
SIERRA	25	0	0.0%	36	0	0.0%	0.0%	0
SISKIYOU	530	6	1.1%	561	8	1.4%	-0.3%	-2
SOLANO	5,966	29	0.5%	5,933	22	0.4%	0.1%	7
SONOMA	6,043	189	3.1%	6,343	213	3.4%	-0.2%	-24
STANISLAUS	9,366	62	0.7%	9,346	66	0.7%	0.0%	-4
SUTTER	2,017	18	0.9%	2,310	28	1.2%	-0.3%	-10
TEHAMA	1,073	7	0.7%	983	8	0.8%	-0.2%	-1
TRINITY	138	7	5.1%	124	4	3.2%	1.8%	3
TULARE	9,535	23	0.2%	9,105	22	0.2%	0.0%	1
TUOLUMNE	584	21	3.6%	614	20	3.3%	0.3%	1
VENTURA	11,466	125	1.1%	11,814	140	1.2%	-0.1%	-15
YOLO	2,959	48	1.6%	2,907	35	1.2%	0.4%	13
YUBA	1,361	6	0.4%	1,404	6	0.4%	0.0%	0

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 8: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONS†
STATE TOTAL	554,250	8,986	1.6%	555,735	8,318	1.5%	0.1%	668
COUNTY								
ALAMEDA	21,622	36	0.2%	21,818	41	0.2%	0.0%	-5
ALPINE	9	<20*	--*	10	<20*	--*	--*	--*
AMADOR	308	2	0.6%	279	8	2.9%	-2.2%	-6
BUTTE	2,742	27	1.0%	2,822	46	1.6%	-0.6%	-19
CALAVERAS	455	8	1.8%	437	17	3.9%	-2.1%	-9
COLUSA	372	0	0.0%	360	0	0.0%	0.0%	0
CONTRA COSTA	15,692	45	0.3%	15,192	40	0.3%	0.0%	5
DEL NORTE	394	3	0.8%	382	8	2.1%	-1.3%	-5
EL DORADO	2,909	392	13.5%	2,453	126	5.1%	8.3%	266
FRESNO	18,461	294	1.6%	18,758	237	1.3%	0.3%	57
GLENN	576	63	10.9%	540	0	0.0%	10.9%	63
HUMBOLDT	1,715	12	0.7%	1,708	24	1.4%	-0.7%	-12
IMPERIAL	3,117	12	0.4%	3,134	10	0.3%	0.1%	2
INYO	271	0	0.0%	231	0	0.0%	0.0%	0
KERN	18,327	1,462	8.0%	18,110	996	5.5%	2.5%	466
KINGS	2,576	11	0.4%	2,686	2	0.1%	0.4%	9
LAKE	796	6	0.8%	848	1	0.1%	0.6%	5
LASSEN	350	3	0.9%	385	9	2.3%	-1.5%	-6
LOS ANGELES	133,622	1,048	0.8%	136,039	1,746	1.3%	-0.5%	-698
MADERA	2,727	21	0.8%	2,762	37	1.3%	-0.6%	-16
MARIN	3,252	10	0.3%	3,170	6	0.2%	0.1%	4
MARIPOSA	160	2	1.3%	156	2	1.3%	0.0%	0
MENDOCINO	1,218	7	0.6%	1,204	6	0.5%	0.1%	1
MERCED	5,321	33	0.6%	5,240	18	0.3%	0.3%	15
MODOC	120	0	0.0%	111	0	0.0%	0.0%	0
MONO	138	0	0.0%	150	0	0.0%	0.0%	0
MONTEREY	6,733	4	0.1%	6,926	3	0.0%	0.0%	1
NAPA	1,746	6	0.3%	1,429	7	0.5%	-0.1%	-1
NEVADA	985	30	3.0%	990	46	4.6%	-1.6%	-16

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 8: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2019-2020 AND 2018-2019, AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONS†
STATE TOTAL	554,250	8,986	1.6%	555,735	8,318	1.5%	0.1%	668
COUNTY								
ORANGE	41,381	338	0.8%	41,734	310	0.7%	0.1%	28
PLACER	6,709	88	1.3%	6,470	57	0.9%	0.4%	31
PLUMAS	208	1	0.5%	210	6	2.9%	-2.4%	-5
RIVERSIDE	36,134	932	2.6%	35,422	194	0.5%	2.0%	738
SACRAMENTO	21,495	407	1.9%	21,501	395	1.8%	0.1%	12
SAN BENITO	1,099	1	0.1%	1,052	0	0.0%	0.1%	1
SAN BERNARDINO	34,542	866	2.5%	33,920	559	1.6%	0.9%	307
SAN DIEGO	45,956	1,633	3.6%	46,256	1,843	4.0%	-0.4%	-210
SAN FRANCISCO	6,963	1	0.0%	6,840	0	0.0%	0.0%	1
SAN JOAQUIN	12,320	176	1.4%	12,410	154	1.2%	0.2%	22
SAN LUIS OBISPO	3,095	26	0.8%	3,012	25	0.8%	0.0%	1
SAN MATEO	9,168	10	0.1%	9,275	4	0.0%	0.1%	6
SANTA BARBARA	6,500	27	0.4%	6,273	44	0.7%	-0.3%	-17
SANTA CLARA	24,963	57	0.2%	25,505	45	0.2%	0.1%	12
SANTA CRUZ	3,415	158	4.6%	3,579	144	4.0%	0.6%	14
SHASTA	2,525	72	2.9%	2,466	87	3.5%	-0.7%	-15
SIERRA	25	0	0.0%	36	1	2.8%	-2.8%	-1
SISKIYOU	530	3	0.6%	561	28	5.0%	-4.4%	-25
SOLANO	5,966	5	0.1%	5,933	12	0.2%	-0.1%	-7
SONOMA	6,043	43	0.7%	6,343	98	1.5%	-0.8%	-55
STANISLAUS	9,366	27	0.3%	9,346	106	1.1%	-0.8%	-79
SUTTER	2,017	263	13.0%	2,310	588	25.5%	-12.4%	-325
TEHAMA	1,073	13	1.2%	983	15	1.5%	-0.3%	-2
TRINITY	138	1	0.7%	124	1	0.8%	-0.1%	0
TULARE	9,535	168	1.8%	9,105	35	0.4%	1.4%	133
TUOLUMNE	584	8	1.4%	614	16	2.6%	-1.2%	-8
VENTURA	11,466	69	0.6%	11,814	86	0.7%	-0.1%	-17
YOLO	2,959	27	0.9%	2,907	7	0.2%	0.7%	20
YUBA	1,361	29	2.1%	1,404	22	1.6%	0.6%	7

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2019-2020
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS†		OTHERS LACKING REQUIRED IMMUNIZATIONS†					
				INDEPENDENT STUDY		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	8,986	1.6%	7,018	1.3%	1,673	0.3%	295	0.1%
COUNTY									
ALAMEDA	21,622	36	0.2%	0	0.0%	34	0.2%	2	0.0%
ALPINE	9	<20*	--*	<20*	--*	<20*	--*	--*	--*
AMADOR	308	2	0.6%	0	0.0%	2	0.6%	0	0.0%
BUTTE	2,742	27	1.0%	23	0.8%	4	0.1%	0	0.0%
CALAVERAS	455	8	1.8%	6	1.3%	2	0.4%	0	0.0%
COLUSA	372	0	0.0%	0	0.0%	0	0.0%	0	0.0%
CONTRA COSTA	15,692	45	0.3%	15	0.1%	30	0.2%	0	0.0%
DEL NORTE	394	3	0.8%	3	0.8%	0	0.0%	0	0.0%
EL DORADO	2,909	392	13.5%	386	13.3%	6	0.2%	0	0.0%
FRESNO	18,461	294	1.6%	278	1.5%	15	0.1%	1	0.0%
GLENN	576	63	10.9%	63	10.9%	0	0.0%	0	0.0%
HUMBOLDT	1,715	12	0.7%	6	0.3%	5	0.3%	1	0.1%
IMPERIAL	3,117	12	0.4%	0	0.0%	12	0.4%	0	0.0%
INYO	271	0	0.0%	0	0.0%	0	0.0%	0	0.0%
KERN	18,327	1,462	8.0%	1,390	7.6%	70	0.4%	2	0.0%
KINGS	2,576	11	0.4%	7	0.3%	4	0.2%	0	0.0%
LAKE	796	6	0.8%	4	0.5%	2	0.3%	0	0.0%
LASSEN	350	3	0.9%	3	0.9%	0	0.0%	0	0.0%
LOS ANGELES	133,622	1,048	0.8%	473	0.4%	553	0.4%	22	0.0%
MADERA	2,727	21	0.8%	19	0.7%	2	0.1%	0	0.0%
MARIN	3,252	10	0.3%	0	0.0%	10	0.3%	0	0.0%
MARIPOSA	160	2	1.3%	1	0.6%	1	0.6%	0	0.0%
MENDOCINO	1,218	7	0.6%	5	0.4%	2	0.2%	0	0.0%
MERCED	5,321	33	0.6%	0	0.0%	33	0.6%	0	0.0%
MODOC	120	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONO	138	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONTEREY	6,733	4	0.1%	0	0.0%	4	0.1%	0	0.0%
NAPA	1,746	6	0.3%	0	0.0%	0	0.0%	6	0.3%
NEVADA	985	30	3.0%	25	2.5%	5	0.5%	0	0.0%

† Includes students reported as attending independent study who do not receive classroom-based instruction or receiving IEP services or home-based private schools.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2019-2020
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONS [†]		OTHERS LACKING REQUIRED IMMUNIZATIONS [†]					
				INDEPENDENT STUDY		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	8,986	1.6%	7,018	1.3%	1,673	0.3%	295	0.1%
COUNTY									
ORANGE	41,381	338	0.8%	130	0.3%	192	0.5%	16	0.0%
PLACER	6,709	88	1.3%	55	0.8%	33	0.5%	0	0.0%
PLUMAS	208	1	0.5%	0	0.0%	1	0.5%	0	0.0%
RIVERSIDE	36,134	932	2.6%	843	2.3%	64	0.2%	25	0.1%
SACRAMENTO	21,495	407	1.9%	257	1.2%	103	0.5%	47	0.2%
SAN BENITO	1,099	1	0.1%	1	0.1%	0	0.0%	0	0.0%
SAN BERNARDINO	34,542	866	2.5%	747	2.2%	104	0.3%	15	0.0%
SAN DIEGO	45,956	1,633	3.6%	1,489	3.2%	114	0.2%	30	0.1%
SAN FRANCISCO	6,963	1	0.0%	0	0.0%	1	0.0%	0	0.0%
SAN JOAQUIN	12,320	176	1.4%	48	0.4%	63	0.5%	65	0.5%
SAN LUIS OBISPO	3,095	26	0.8%	2	0.1%	24	0.8%	0	0.0%
SAN MATEO	9,168	10	0.1%	8	0.1%	2	0.0%	0	0.0%
SANTA BARBARA	6,500	27	0.4%	26	0.4%	1	0.0%	0	0.0%
SANTA CLARA	24,963	57	0.2%	0	0.0%	57	0.2%	0	0.0%
SANTA CRUZ	3,415	158	4.6%	141	4.1%	17	0.5%	0	0.0%
SHASTA	2,525	72	2.9%	58	2.3%	11	0.4%	3	0.1%
SIERRA	25	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	530	3	0.6%	3	0.6%	0	0.0%	0	0.0%
SOLANO	5,966	5	0.1%	5	0.1%	0	0.0%	0	0.0%
SONOMA	6,043	43	0.7%	20	0.3%	22	0.4%	1	0.0%
STANISLAUS	9,366	27	0.3%	10	0.1%	14	0.1%	3	0.0%
SUTTER	2,017	263	13.0%	219	10.9%	7	0.3%	37	1.8%
TEHAMA	1,073	13	1.2%	10	0.9%	3	0.3%	0	0.0%
TRINITY	138	1	0.7%	0	0.0%	1	0.7%	0	0.0%
TULARE	9,535	168	1.8%	160	1.7%	8	0.1%	0	0.0%
TUOLUMNE	584	8	1.4%	3	0.5%	2	0.3%	3	0.5%
VENTURA	11,466	69	0.6%	36	0.3%	19	0.2%	14	0.1%
YOLO	2,959	27	0.9%	24	0.8%	3	0.1%	0	0.0%
YUBA	1,361	29	2.1%	16	1.2%	11	0.8%	2	0.1%

† Includes students reported as attending independent study who do not receive classroom-based instruction or receiving IEP services or home-based private schools.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2019-2020 AND 2018-2019,
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	554,250	8,227	1.5%	555,735	6,083	1.1%	0.4%	2,144
COUNTY								
ALAMEDA	21,622	353	1.6%	21,818	336	1.5%	0.1%	17
ALPINE	9	<20*	--*	10	<20*	--*	--*	--*
AMADOR	308	6	1.9%	279	1	0.4%	1.6%	5
BUTTE	2,742	11	0.4%	2,822	12	0.4%	0.0%	-1
CALAVERAS	455	5	1.1%	437	0	0.0%	1.1%	5
COLUSA	372	11	3.0%	360	0	0.0%	3.0%	11
CONTRA COSTA	15,692	188	1.2%	15,192	129	0.8%	0.3%	59
DEL NORTE	394	6	1.5%	382	3	0.8%	0.7%	3
EL DORADO	2,909	9	0.3%	2,453	3	0.1%	0.2%	6
FRESNO	18,461	123	0.7%	18,758	100	0.5%	0.1%	23
GLENN	576	5	0.9%	540	12	2.2%	-1.4%	-7
HUMBOLDT	1,715	51	3.0%	1,708	25	1.5%	1.5%	26
IMPERIAL	3,117	38	1.2%	3,134	11	0.4%	0.9%	27
INYO	271	0	0.0%	231	0	0.0%	0.0%	0
KERN	18,327	246	1.3%	18,110	88	0.5%	0.9%	158
KINGS	2,576	11	0.4%	2,686	14	0.5%	-0.1%	-3
LAKE	796	36	4.5%	848	9	1.1%	3.5%	27
LASSEN	350	1	0.3%	385	0	0.0%	0.3%	1
LOS ANGELES	133,622	3,270	2.4%	136,039	2,640	1.9%	0.5%	630
MADERA	2,727	37	1.4%	2,762	40	1.4%	-0.1%	-3
MARIN	3,252	18	0.6%	3,170	8	0.3%	0.3%	10
MARIPOSA	160	0	0.0%	156	0	0.0%	0.0%	0
MENDOCINO	1,218	42	3.4%	1,204	97	8.1%	-4.6%	-55
MERCED	5,321	56	1.1%	5,240	22	0.4%	0.6%	34
MODOC	120	3	2.5%	111	1	0.9%	1.6%	2
MONO	138	2	1.4%	150	4	2.7%	-1.2%	-2
MONTEREY	6,733	41	0.6%	6,926	40	0.6%	0.0%	1
NAPA	1,746	15	0.9%	1,429	5	0.3%	0.5%	10
NEVADA	985	10	1.0%	990	1	0.1%	0.9%	9

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2019-2020 AND 2018-2019,
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2019-2020			2018-2019			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	554,250	8,227	1.5%	555,735	6,083	1.1%	0.4%	2,144
COUNTY								
ORANGE	41,381	437	1.1%	41,734	276	0.7%	0.4%	161
PLACER	6,709	166	2.5%	6,470	132	2.0%	0.4%	34
PLUMAS	208	4	1.9%	210	0	0.0%	1.9%	4
RIVERSIDE	36,134	388	1.1%	35,422	294	0.8%	0.2%	94
SACRAMENTO	21,495	225	1.0%	21,501	183	0.9%	0.2%	42
SAN BENITO	1,099	20	1.8%	1,052	16	1.5%	0.3%	4
SAN BERNARDINO	34,542	471	1.4%	33,920	288	0.8%	0.5%	183
SAN DIEGO	45,956	251	0.5%	46,256	237	0.5%	0.0%	14
SAN FRANCISCO	6,963	196	2.8%	6,840	176	2.6%	0.2%	20
SAN JOAQUIN	12,320	172	1.4%	12,410	49	0.4%	1.0%	123
SAN LUIS OBISPO	3,095	29	0.9%	3,012	13	0.4%	0.5%	16
SAN MATEO	9,168	116	1.3%	9,275	159	1.7%	-0.4%	-43
SANTA BARBARA	6,500	35	0.5%	6,273	10	0.2%	0.4%	25
SANTA CLARA	24,963	338	1.4%	25,505	256	1.0%	0.4%	82
SANTA CRUZ	3,415	40	1.2%	3,579	20	0.6%	0.6%	20
SHASTA	2,525	44	1.7%	2,466	48	1.9%	-0.2%	-4
SIERRA	25	0	0.0%	36	0	0.0%	0.0%	0
SISKIYOU	530	8	1.5%	561	8	1.4%	0.1%	0
SOLANO	5,966	202	3.4%	5,933	10	0.2%	3.2%	192
SONOMA	6,043	108	1.8%	6,343	87	1.4%	0.4%	21
STANISLAUS	9,366	130	1.4%	9,346	53	0.6%	0.8%	77
SUTTER	2,017	3	0.1%	2,310	20	0.9%	-0.7%	-17
TEHAMA	1,073	26	2.4%	983	8	0.8%	1.6%	18
TRINITY	138	4	2.9%	124	2	1.6%	1.3%	2
TULARE	9,535	27	0.3%	9,105	14	0.2%	0.1%	13
TUOLUMNE	584	7	1.2%	614	17	2.8%	-1.6%	-10
VENTURA	11,466	123	1.1%	11,814	56	0.5%	0.6%	67
YOLO	2,959	33	1.1%	2,907	3	0.1%	1.0%	30
YUBA	1,361	30	2.2%	1,404	47	3.3%	-1.1%	-17

^ Overdue for one or more immunizations.

* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,
 BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 2+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	532,988	96.2%	535,112	96.5%	534,929	96.5%	539,760	97.4%	532,349	96.0%
COUNTY											
ALAMEDA	21,622	21,208	98.1%	21,285	98.4%	21,301	98.5%	21,342	98.7%	21,127	97.7%
ALPINE	9	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	308	289	93.8%	293	95.1%	291	94.5%	292	94.8%	287	93.2%
BUTTE	2,742	2,646	96.5%	2,665	97.2%	2,674	97.5%	2,683	97.8%	2,666	97.2%
CALAVERAS	455	434	95.4%	434	95.4%	435	95.6%	441	96.9%	432	94.9%
COLUSA	372	369	99.2%	370	99.5%	369	99.2%	371	99.7%	363	97.6%
CONTRA COSTA	15,692	15,303	97.5%	15,346	97.8%	15,370	97.9%	15,464	98.5%	15,294	97.5%
DEL NORTE	394	386	98.0%	390	99.0%	388	98.5%	389	98.7%	387	98.2%
EL DORADO	2,909	2,397	82.4%	2,422	83.3%	2,404	82.6%	2,518	86.6%	2,377	81.7%
FRESNO	18,461	17,963	97.3%	18,034	97.7%	18,071	97.9%	18,163	98.4%	18,039	97.7%
GLENN	576	506	87.8%	510	88.5%	510	88.5%	523	90.8%	507	88.0%
HUMBOLDT	1,715	1,581	92.2%	1,578	92.0%	1,583	92.3%	1,582	92.2%	1,570	91.5%
IMPERIAL	3,117	3,050	97.9%	3,079	98.8%	3,056	98.0%	3,096	99.3%	3,051	97.9%
INYO	271	265	97.8%	267	98.5%	268	98.9%	268	98.9%	267	98.5%
KERN	18,327	17,149	93.6%	16,754	91.4%	16,726	91.3%	17,223	94.0%	16,632	90.8%
KINGS	2,576	2,520	97.8%	2,548	98.9%	2,552	99.1%	2,561	99.4%	2,542	98.7%
LAKE	796	738	92.7%	754	94.7%	759	95.4%	770	96.7%	757	95.1%
LASSEN	350	329	94.0%	337	96.3%	337	96.3%	337	96.3%	332	94.9%
LOS ANGELES	133,622	129,305	96.8%	129,772	97.1%	129,649	97.0%	131,279	98.2%	128,836	96.4%
MADERA	2,727	2,652	97.2%	2,663	97.7%	2,673	98.0%	2,675	98.1%	2,668	97.8%
MARIN	3,252	3,123	96.0%	3,140	96.6%	3,152	96.9%	3,147	96.8%	3,116	95.8%
MARIPOSA	160	152	95.0%	153	95.6%	153	95.6%	156	97.5%	153	95.6%
MENDOCINO	1,218	1,081	88.8%	1,095	89.9%	1,092	89.7%	1,092	89.7%	1,080	88.7%
MERCED	5,321	5,191	97.6%	5,254	98.7%	5,250	98.7%	5,275	99.1%	5,225	98.2%
MODOC	120	116	96.7%	116	96.7%	117	97.5%	119	99.2%	116	96.7%
MONO	138	127	92.0%	125	90.6%	128	92.8%	127	92.0%	128	92.8%
MONTEREY	6,733	6,613	98.2%	6,626	98.4%	6,641	98.6%	6,654	98.8%	6,611	98.2%
NAPA	1,746	1,716	98.3%	1,716	98.3%	1,711	98.0%	1,707	97.8%	1,709	97.9%
NEVADA	985	822	83.5%	819	83.1%	820	83.2%	823	83.6%	803	81.5%

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,
 BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 2+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	554,250	532,988	96.2%	535,112	96.5%	534,929	96.5%	539,760	97.4%	532,349	96.0%
COUNTY											
ORANGE	41,381	40,222	97.2%	40,341	97.5%	40,303	97.4%	40,613	98.1%	40,171	97.1%
PLACER	6,709	6,301	93.9%	6,337	94.5%	6,283	93.7%	6,375	95.0%	6,260	93.3%
PLUMAS	208	200	96.2%	198	95.2%	201	96.6%	201	96.6%	195	93.8%
RIVERSIDE	36,134	34,370	95.1%	34,591	95.7%	34,624	95.8%	34,737	96.1%	34,448	95.3%
SACRAMENTO	21,495	20,421	95.0%	20,622	95.9%	20,602	95.8%	20,752	96.5%	20,522	95.5%
SAN BENITO	1,099	1,075	97.8%	1,075	97.8%	1,070	97.4%	1,085	98.7%	1,076	97.9%
SAN BERNARDINO	34,542	32,895	95.2%	33,177	96.0%	33,221	96.2%	33,668	97.5%	33,179	96.1%
SAN DIEGO	45,956	43,421	94.5%	43,594	94.9%	43,556	94.8%	43,887	95.5%	43,376	94.4%
SAN FRANCISCO	6,963	6,778	97.3%	6,805	97.7%	6,793	97.6%	6,814	97.9%	6,748	96.9%
SAN JOAQUIN	12,320	11,890	96.5%	12,008	97.5%	12,008	97.5%	12,132	98.5%	11,941	96.9%
SAN LUIS OBISPO	3,095	2,968	95.9%	2,979	96.3%	2,978	96.2%	3,007	97.2%	2,961	95.7%
SAN MATEO	9,168	8,973	97.9%	8,995	98.1%	8,996	98.1%	9,038	98.6%	8,930	97.4%
SANTA BARBARA	6,500	6,341	97.6%	6,369	98.0%	6,364	97.9%	6,384	98.2%	6,333	97.4%
SANTA CLARA	24,963	24,494	98.1%	24,578	98.5%	24,503	98.2%	24,661	98.8%	24,372	97.6%
SANTA CRUZ	3,415	3,157	92.4%	3,155	92.4%	3,161	92.6%	3,178	93.1%	3,179	93.1%
SHASTA	2,525	2,350	93.1%	2,356	93.3%	2,368	93.8%	2,405	95.2%	2,345	92.9%
SIERRA	25	--*	≥95%	--*	≥95%	--*	≥95%	--*	≥95%	--*	≥95%
SISKIYOU	530	515	97.2%	516	97.4%	517	97.5%	518	97.7%	517	97.5%
SOLANO	5,966	5,807	97.3%	5,848	98.0%	5,850	98.1%	5,868	98.4%	5,820	97.6%
SONOMA	6,043	5,720	94.7%	5,728	94.8%	5,723	94.7%	5,758	95.3%	5,699	94.3%
STANISLAUS	9,366	9,054	96.7%	9,151	97.7%	9,162	97.8%	9,199	98.2%	9,143	97.6%
SUTTER	2,017	1,748	86.7%	1,760	87.3%	1,772	87.9%	1,812	89.8%	1,786	88.5%
TEHAMA	1,073	1,024	95.4%	1,039	96.8%	1,037	96.6%	1,051	97.9%	1,026	95.6%
TRINITY	138	123	89.1%	121	87.7%	126	91.3%	127	92.0%	127	92.0%
TULARE	9,535	9,281	97.3%	9,332	97.9%	9,337	97.9%	9,385	98.4%	9,317	97.7%
TUOLUMNE	584	541	92.6%	548	93.8%	547	93.7%	555	95.0%	546	93.5%
VENTURA	11,466	11,115	96.9%	11,157	97.3%	11,156	97.3%	11,238	98.0%	11,084	96.7%
YOLO	2,959	2,845	96.1%	2,849	96.3%	2,858	96.6%	2,886	97.5%	2,842	96.0%
YUBA	1,361	1,296	95.2%	1,306	96.0%	1,301	95.6%	1,317	96.8%	1,299	95.4%

* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.