Kindergarten and First Grade Immunization Assessment, 2022-2023

Executive summary

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Schools in California are required to report student immunization status to the California Department of Public Health (CDPH) every year. This report summarizes California student immunization rates reported at kindergarten and at first grade in the 2022-2023 school year.

Schools reported immunization status for 540,864 kindergarten students and 443,051 first grade students in 2022-2023. The proportion of students reported as having received all required immunizations was 94.1% among kindergarteners and 96.1% among first graders. Reported rates for specific immunizations remained high among kindergarteners in 2022-2023: 95.6% for required vaccine doses of Diphtheria, Tetanus and Pertussis (DTP), 96.1% for Varicella, 96.3% for Polio, 96.5% for Measles, Mumps and Rubella (MMR), and 97.3% for Hepatitis B. Permanent medical exemptions remain low, with 0.2% of kindergarteners and first graders reported as having a permanent medical exemption to one or more required immunizations.

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

Introduction

This report summarizes immunization status of kindergarten and first grade students reported by schools in the 2022-2023 school year. All schools with kindergartens in California are required to report annually on student compliance with immunization requirements per California Health and Safety Code Sections 120325-120375. In 2021-2022 and 2022-2023, schools were also required to report for first grade students to follow immunization trends during the COVID-19 pandemic. Kindergarten student enrollment dropped by 10% from 2019-2020 to 2021-2022 and subsequently increased 5% from 2021-2022 to 2022-2023 according to the California Department of Education (CDE). Policies that likely affected school immunizations and reporting during the pandemic included school closures, shifts from in-person to virtual and hybrid learning, and changes to independent study programs during 2021-2022 and 2022-2023.

Over the past decade, California laws have modified:

- Medical exemptions to required immunizations: Since 2021, per Senate Bills (SB) 276 and SB 714, new medical exemptions for school and child care entry must be issued through CAIR-ME, an electronic statewide database, by physicians and surgeons licensed with the Medical Board or Osteopathic Medical Board of California and meet criteria for appropriate exemptions from the Centers for Disease Control and Prevention, Advisory Committee on Immunization Practices, and American Academy of Pediatrics.
- Personal beliefs exemptions (PBEs): PBEs have not been permitted since 2016 per SB 277.
- Required doses: Since 2019, students entering kindergarten are required to receive two rather than one dose of Varicella (chickenpox) vaccine due to changes in the California Code of Regulations.

Methods

During the winter of 2022-2023, schools registered with the California Department of Education reported to CDPH on immunization data of enrolled kindergarteners. Schools reporting kindergarten enrollment in 2022-2023 were also required to report the immunization status of first grade students, similar to 2021-2022.

Based on their immunization status, students were classified by school staff into the following categories:

- Received <u>all required immunizations</u>, 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'];
 - 4 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'].
 - o 3 or more of Hepatitis B (Hep B) vaccine: ['3+ Hep B'], and
 - 2 or more of Varicella (Var): ['2+ Var']. History of chickenpox disease is currently required to be reported as a permanent medical exemption. From 2000-2019, the requirement was for 1 or more doses of Varicella vaccine or a history documented by a physician of having had disease.
- Conditional entrants who had:
 - Not received all required doses but were not overdue for required doses, or
 - o A temporary medical exemption to one or more required immunizations.

Conditional entrants are required to receive additional doses after entry.

- Have a <u>permanent medical exemption</u> (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.
 - o 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.

Schools are still required to request, maintain, and report records of immunizations that have been received for these students. Students in these settings were classified in this category if they lacked required immunizations and did not meet the criteria for other categories.

• Children <u>overdue</u> for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

<u>Personal beliefs exemptions</u> (PBEs) have no longer been an option for children entering kindergarten since the 2016-2017 school year under SB 277.

Starting in the 2016-2017 school year, any immunizations received by children with PBEs, PMEs, or other exemptions for different immunizations are reported in the completion rates of each specific required immunization series (e.g., 4+ DTP, 2+ MMR, etc.).

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

Results

In 2022-2023, 7,990 schools reported immunization status on 540,864 kindergarten students, and 7,759 schools reported on 443,051 first grade students (Tables 1 and 2). Similar to previous years, public schools accounted for the majority of schools reporting kindergarten education (6,191 public schools; 77% of all schools) and kindergarten students (495,722 public students; 92% of all students). The number of schools reporting kindergarten classes increased by 2% between 2021-2022 and 2022-2023, with a 7% increase in reported students. Among nonreporting schools, most (106 out of 116) were private schools.

<u>All required immunizations</u>: Among the 540,864 reported kindergarten students in 2022-2023, 94.1% had received all required immunizations, an increase of 0.1 percentage points from 2021-2022 and 1.3 percentage points from 2020-2021 (Table 1 and Figure 1). All required immunizations for reported first grade students also increased, from 96.0% in 2021-2022 to 96.1% in 2022-2023.

<u>Specific immunization series</u>: Completion rates for specific immunization series among kindergarteners in 2022-2023 were: 95.6% for DTP, 96.1% for Varicella, 96.3% for Polio, 96.5% for MMR, and 97.3% for Hep B. These immunization rates in 2022-2023 were similar to or increased from 2021-2022, with the exception of DTP which decreased by 0.1 percentage point (Table 1 and Figure 2).

The kindergarten student MMR rate was 96.5% in 2022-2023, an increase of 0.2 percentage points from 96.3% in 2021-2022, and similar to the pre-pandemic 2019-2020 rate of 96.5%. From 2021-2022 to 2022-2023, the kindergarten MMR rate increased in public schools from 96.4% to 96.6%, but decreased in private schools from 95.5% to 95.3%. Among first grade students, the MMR rate was 97.5% in 2021-2022 and in 2022-2023.

Permanent medical exemptions: Over the last four school years, the number of kindergarten students reported with PMEs has decreased from a high of 5,268 students (1.0% of all students) in 2019-2020 to 1,034 students (0.2% of all students) in 2022-2023 (Table 1 and Figure 3). Between 2019-2020 to 2022-2023, PMEs decreased from 0.8% to 0.1% among public school students and from 2.5% to 0.8% among private school students. Among first grade students, 0.2% were reported with PMEs in 2022-2023 compared to 0.4% in 2021-2022.

Overdue: Kindergarten students reported as overdue for immunizations decreased by 0.5 percentage points from 2.3% of all students in 2021-2022 to 1.8% in 2022-2023 (Table 1 and Figure 4). Among first grade students, 1.1% were reported as overdue in 2022-2023.

<u>Conditional entrants</u>: The proportion of kindergarteners reported as conditional entrants increased from 1.3% in 2021-2022 to 1.6% in 2022-2023 (Table 1 and Figure 4). Among first grade students, the proportion of conditional entrants also increased from 0.6% in 2021-2022 to 0.7% in 2022-2023.

The number of reported temporary medical exemptions has decreased over the last several years, from a high of 1,592 kindergarten students in 2017-2018 (0.3% of all students and 15% of conditional entrants) to 394 students in 2022-2023 (0.1% of all students and 4% of conditional entrants). Both public and private schools reported fewer temporary medical exemptions in 2022-2023 than in previous years.

Other students lacking required immunizations: The proportion of kindergarteners reported as lacking one or more required immunizations who attend a public independent study program with no classroom-based instruction, receive IEP services, or attend a home-based private school was 2.3% (12,403 students) in 2022-2023 (Table 1 and Figure 4). The number and proportion of kindergarten students in this category has steadily increased from 2,564 students (0.5% of all students) in 2016-2017 when SB 277 went into effect. Among first grade students, 1.9% were reported in this category in 2022-2023. Students reported as enrolled in public independent study programs accounted for 74% (9,211 out of 12,403) of kindergarten students reported in this category in 2022-2023.

County-level immunization rates: Immunization rates varied widely by individual counties, with lower rates in northern and central regions (Tables 3 and 4, Figures 5 and 6). In 2022-2023, 15 (26%) of 58 counties reported kindergarten all required immunization rates below 90%, compared to 13 (22%) counties in 2021-2022. Rates for completing all required vaccines were higher for first graders than kindergarteners, with 7 (12%) of 58 counties reporting first grade rates below 90% in 2021-2022 and 2022-2023.

Similar to prior years, three counties with a higher proportion of students in virtual schools, who are often exempt from immunization requirements, have reported amongst the lowest immunization rates in California: El Dorado (80.4%), Glenn (81.8%), and Sutter (75.9%). In Sutter County, 28.2% (636 out of 2,255) of kindergarten students were enrolled in public schools with partially, primarily or exclusively virtual programs, and the all required immunization rate at virtual schools in Sutter County was 23.9% as compared to 96.3% at primarily classroom-based schools.

MMR rates by county ranged from 78.7% to more than 99% for kindergarteners in 2022-2023, with a similar regional pattern as all required immunization rates. The number of counties reporting kindergarten MMR rates below 95% increased from 16 (28%) in 2021-2022 to 19 (33%) in 2022-2023, including 6 counties with rates lower than 90%. For first-grade students in 2022-2023, MMR rates by county ranged from 79.9% to more than 99%, with 12 (21%) counties with MMR rates lower than 95%.

Discussion

California schools continue to comply at high levels in reporting on immunization of their students. In 2022-2023, 99.8% of public schools and 94.4% of private schools reported the immunization status of their kindergarten students, including more than 99% (540,864 out of 541,132) of all students counted in <u>public</u> school and <u>private school enrollment</u> data.

The proportion of kindergarten students reported as receiving all required immunizations improved from 92.8% in 2020-2021 to 94.1% in 2022-2023, reflecting efforts to sustain routine immunization during the COVID-19 pandemic. After additional remediation prior to the start of first grade, the immunization rates of students in first grade were higher than those in kindergarten in both 2021-2022 and 2022-2023. The increase in all required immunizations in kindergarten students was associated with a decrease in those overdue for required immunizations from 4.0% in 2020-2021 to 1.8% in 2022-2023.

Rates for specific immunizations also improved over the two reporting years. California rates in 2022-2023 remain higher than national rates reported by <u>CDC</u>:

	MMR	DTP	Polio	Varicella
California	96.5%	95.6%	96.3%	96.1%
U.S.	93.1%	92.7%	93.1%	92.9%

MMR coverage in California kindergarteners has exceeded 95% since at least 2016-2017; reporting in prior years excluded MMR doses received by students with exemptions for other immunizations. Regional differences in immunization rates persist, with one-third of counties having reported MMR rates in kindergarten students below 95%, an approximate threshold necessary to prevent the transmission of measles.

Medical exemptions have decreased since implementation of CAIR-ME in 2021 per SB 276 and SB 714. In 2022-2023, 0.2% of kindergarten and first grade students were reported with PMEs, the lowest rate of PMEs since 2015-2016, when personal belief exemptions were still permitted prior to SB 277.

The largest segment of students who did not meet all required immunizations in 2022-2023 were the 2.3% reported in other categories of exemptions under criteria in SB 277, most of whom were reported as being enrolled in independent study programs. It is unclear to what degree the recent increases in this category reflect 2021-2022 and 2022-2023 policy changes to support options for independent study during the COVID-19 pandemic.

Overall state-wide immunization levels among kindergarten students remained high in 2022-2023, although much lower in some counties than the state average. Children in schools and communities with lower immunization rates remain at higher risk of contracting and transmitting vaccine preventable diseases. Efforts to monitor, support, and increase immunizations to protect students should continue in all communities.

Limitations

This report is subject to limitations that include:

- CDE data on enrollment in independent study courses are not yet available for the 2019-2023 school
 years to verify information reported by school on the number of students in independent study. Any
 misclassification of student status could lead to incorrectly applied school immunization requirements
 and bias the reported immunization rates in either direction.
- Completeness of immunization records and school reporting might have been reduced during the initial part of the COVID-19 pandemic and resulted in underestimates of immunization rates, especially during 2020-2021 and 2021-2022.
- CDPH does not know the immunization status of any kindergarten students attending schools that registered kindergarten with CDE but did not report. In 2022-2023, 116 California schools listed with CDE did not report on school immunizations, including 106 private schools and 10 public schools. Underreporting could have biased the reported immunization rates in either direction. The schools that did not report educate a very small proportion of all students.
- Similar to previous years, <u>CDE private school data</u> and thus immunization reporting to CDPH are limited to private schools with enrollment of 6 or more students. This data limitation may result in underestimates of private school enrollment, including for home schools, and overestimates of private school immunization rates.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, reported rates may overestimate levels of immunity.

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Figure 3. Percentage of Students with Permanent Medical Exemptions (PME) by School Type and by School Year, Kindergarten, 2013-2014 to 2022-2023, and First Grade, 2021-2022 to 2022-2023

Figure 4. Percentage of All Kindergarten and First Grade Students by Reported Admission Status by School Year, Top: Kindergarten, 2016-2017 to 2022-2023; Bottom: First Grade, 2021-2022 to 2022-2023

Figure 5. Map: Kindergarten and First Grade Students with All Required Immunizations, by County, Kindergarten and First Grade, 2021-2022 to 2022-2023

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Table 4. Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023, and First Grade, 2022-2023, by County

Download Data

Figure 1. Percentage of Students with All Required Immunizations by School Year, Kindergarten, 2013-2014 to 2022-2023 and First Grade, 2021-2022 to 2022-2023

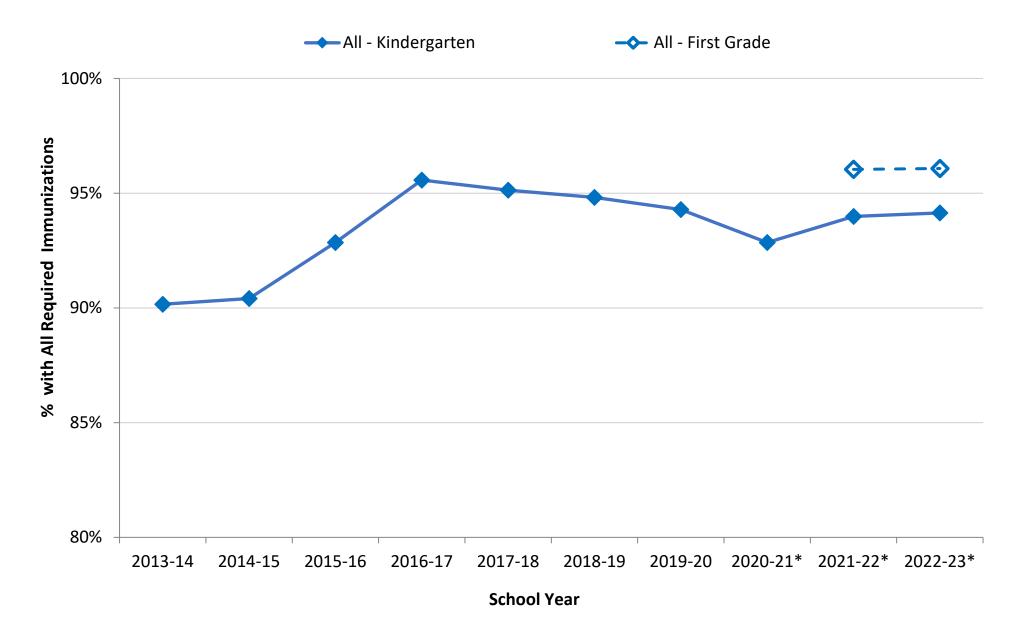


Figure 2. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2013-2014 to 2022-2023

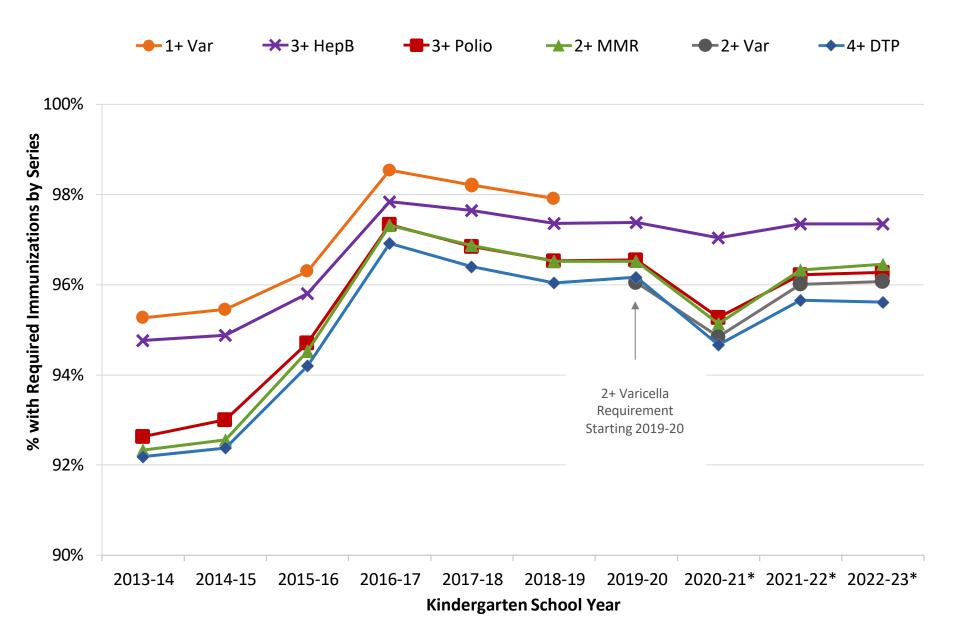
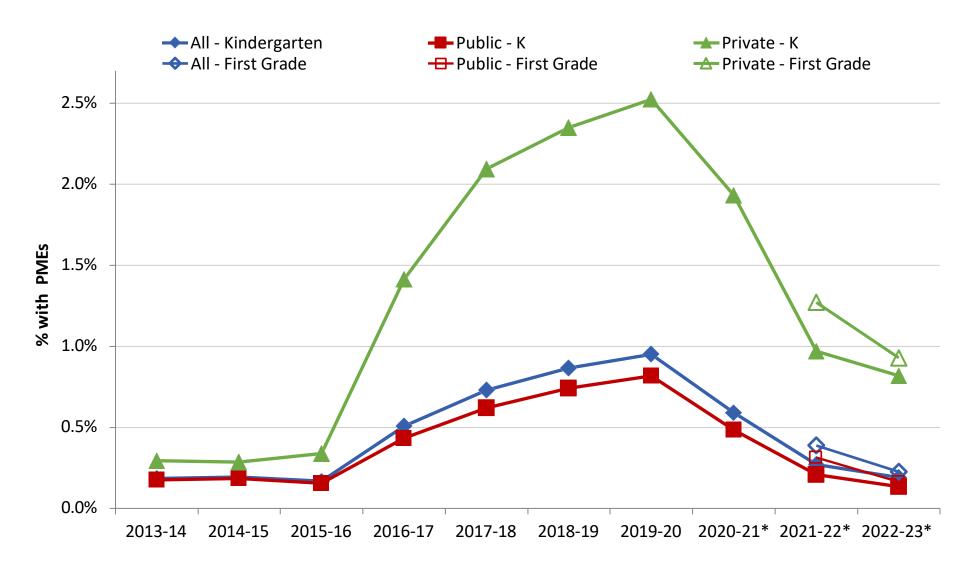


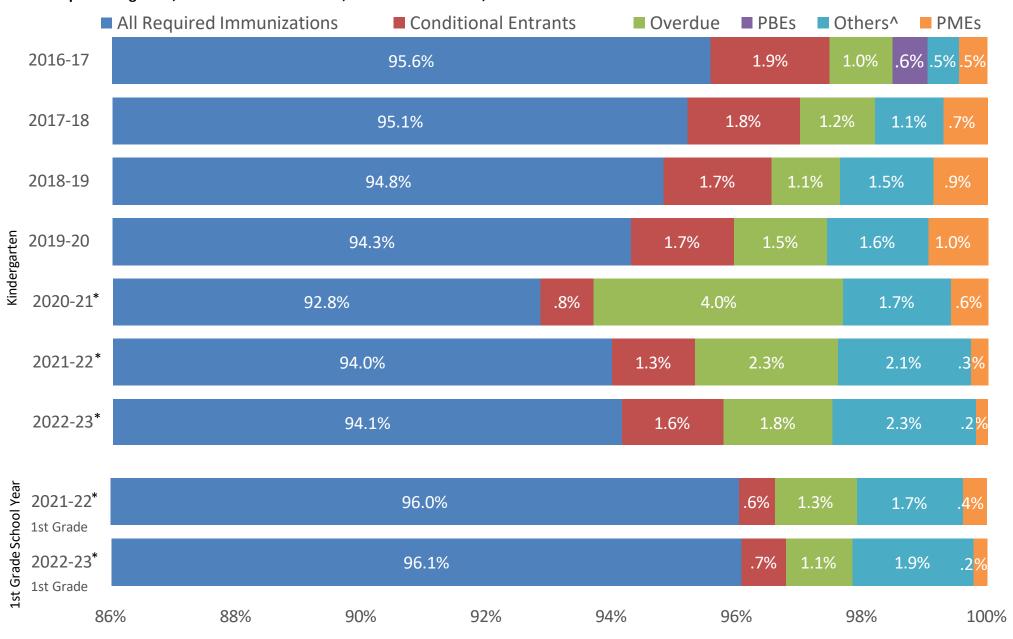
Figure 3. Percentage of Students with Permanent Medical Exemptions (PME) by School Type and by School Year, Kindergarten, 2013-2014 to 2022-2023, and First Grade, 2021-2022 to 2022-2023



School Year

^{*} COVID-19 pandemic.

Figure 4. Percentage of All Kindergarten and First Grade Students by Reported Admission Status by School Year, Top: Kindergarten, 2016-2017 to 2022-2023; Bottom: First Grade, 2021-2022 to 2022-2023



[^] Other children lacking required immunizations under criteria specified in SB 277.

^{*}Immunization and data collection potentially affected by the COVID-19 pandemic.

Figure 5. Kindergarten and First Grade Students with All Required Immunizations, by County Kindergarten and First Grade, 2021-2022 to 2022-2023 School Years

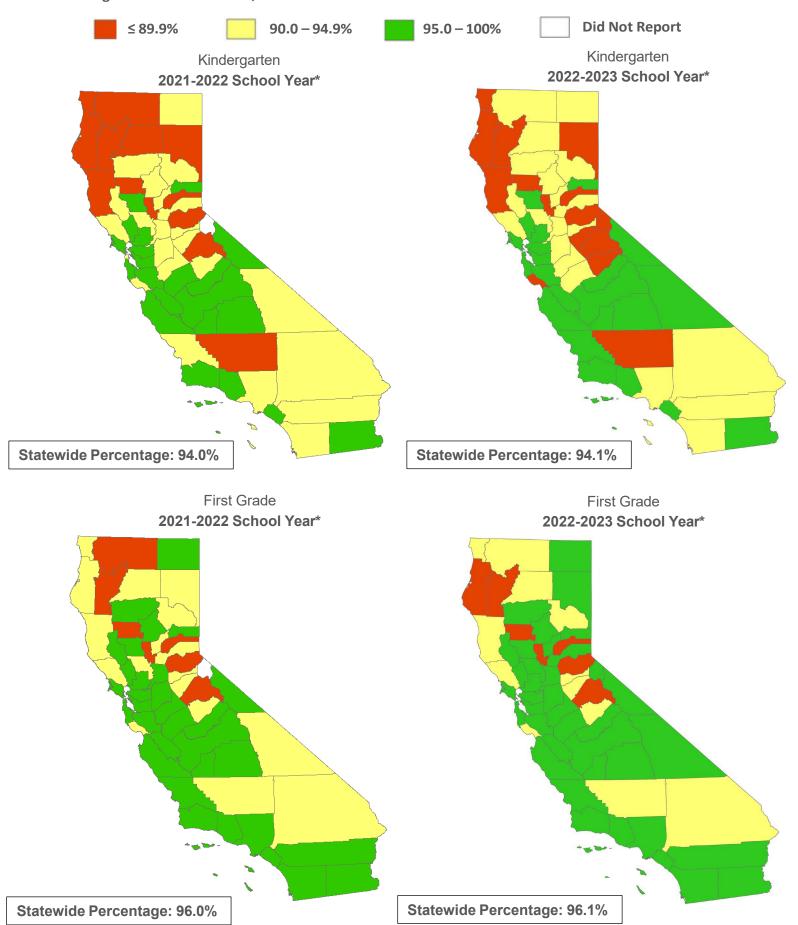


Figure 6. Kindergarten and First Grade Students with Two or More Doses of MMR Vaccine, by County Kindergarten and First Grade, 2021-2022 to 2022-2023 School Years

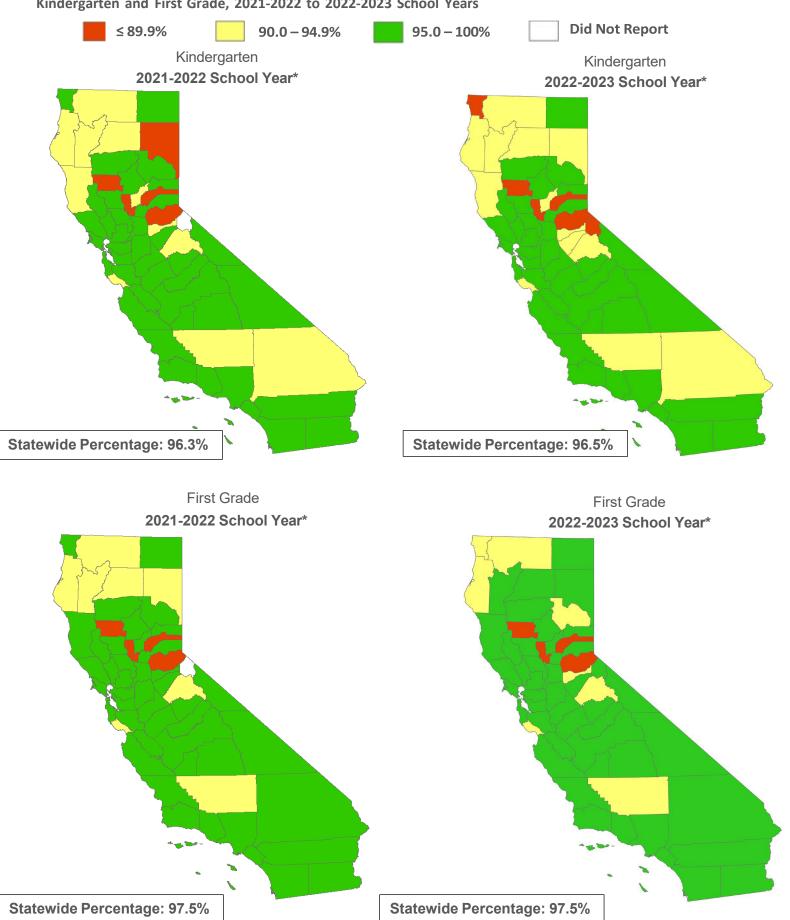


Table 1: Kindergarten Immunization Assessment Summary, 2020-2021 to 2022-2023 School Years

										а	ind 2020-	21
										2-Yea	ar Percer	ntage
		2022-2023			2021-2022		2020-2021			Point Change*		ige*
	All	Public	Private	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Kindergarten Students	7,990	6,191	1,799	7,824	6,131	1,693	7,749	6,070	1,679	3%	2%	7%
Number of Kindergarten Students	540,864	495,722	45,142	503,722	461,506	42,216	485,538	449,496	36,042	11%	10%	25%
All Required Immunizations	94.1%	94.2%	93.4%	94.0%	94.1%	93.1%	92.8%	92.9%	92.6%	1.3%	1.3%	0.8%
Conditional Entrants	1.6%	1.6%	1.8%	1.3%	1.3%	1.8%	0.8%	0.8%	1.7%	0.8%	0.8%	0.1%
Permanent Medical Exemptions	0.2%	0.1%	0.8%	0.3%	0.2%	1.0%	0.6%	0.5%	1.9%	-0.4%	-0.3%	-1.1%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking immunizations†	2.3%	2.4%	1.0%	2.1%	2.2%	0.9%	1.7%	1.8%	0.9%	0.6%	0.6%	0.1%
Overdue^	1.8%	1.6%	2.9%	2.3%	2.2%	3.3%	4.0%	4.1%	2.8%	-2.2%	-2.4%	0.1%
4+ DTP	95.6%	95.6%	95.4%	95.7%	95.7%	95.3%	94.7%	94.7%	94.6%	0.9%	1.0%	0.8%
3+ Polio	96.3%	96.3%	95.7%	96.2%	96.3%	95.6%	95.2%	95.3%	94.9%	1.0%	1.1%	0.8%
2+ MMR	96.5%	96.6%	95.3%	96.3%	96.4%	95.5%	95.1%	95.1%	94.7%	1.3%	1.4%	0.6%
3+ Hep B	97.3%	97.4%	97.2%	97.3%	97.4%	97.1%	97.0%	97.1%	96.3%	0.3%	0.3%	0.8%
2+ Varicella	96.1%	96.2%	95.0%	96.0%	96.1%	95.3%	94.8%	94.8%	94.6%	1.2%	1.3%	0.4%

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

Kindergarten: 2022-23

[†] 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.

Table 2: First Grade Immunization Assessment Summary, 2021-2022 to 2022-2023 School Years

2021-22 1-Year Percentage 2021-2022 2022-2023 Point Change* ΑII Αll Public Αll Public Private Public Private Private **Number of Schools Reporting Students** 7,759 6,124 1,635 7,598 6,064 1,534 2% 1% 7% Number of 1st Grade Students 443,051 406,996 36,055 431,819 398,465 33,354 3% 2% 8% All Required Immunizations 96.1% 96.2% 94.9% 96.0% 96.1% 94.9% 0.0% 0.0% 0.0% 0.1% **Conditional Entrants** 0.7% 0.7% 0.9% 0.6% 0.6% 0.8% 0.1% 0.0% **Permanent Medical Exemptions** 0.2% 0.2% 0.9% 0.4% -0.2% -0.2% -0.3% 0.3% 1.3% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% **Personal Belief Exemptions** 0.0% 0.0% 0.2% Others Lacking immunizations† 1.9% 2.0% 1.4% 1.7% 1.7% 1.2% 0.2% 0.3% Overdue[^] 1.3% 1.8% 0.0% 1.1% 1.0% 1.9% 1.3% -0.2% -0.3% 4+ DTP 97.0% 97.1% -0.1% -0.1% 0.0% 97.1% 96.4% 97.2% 96.4% 3+ Polio 97.4% 97.4% 96.5% 97.4% 97.5% 96.4% 0.0% 0.0% 0.1% 2+ MMR 97.5% 97.6% 96.5% 97.5% 97.6% 96.5% 0.0% 0.0% 0.0% 3+ Hep B 98.0% 98.0% 97.3% 98.0% 98.0% 97.1% 0.0% 0.0% 0.2% 2+ Varicella 97.2% 97.2% 96.1% 97.2% 97.3% 96.3% 0.0% 0.0% -0.1%

1st Grade 2022-23 and

^{*} 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

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Table 3. Total Enrollment and Admission Status of Kindergarten, 2019-2020 to 2022-2023, and First Grade, 2022-2023, By County*

			Total	Students with	Conditional	Students with a	Others Lacking	
	School	Grade	Students	All Required	Entrants	Permanent	Required	Overdue^
	Year	0.446		Immunizations		Exemption	Immunizations†	Danasat
Ctata Tatal	2022.22	1st Crada	Number	Percent 96.1%	Percent	Percent 0.2%	Percent	Percent
State Total		1st Grade	443,051		0.7%	0.2%	1.9%	1.1%
		Kindergarten	540,864	94.1%	1.6%		2.3%	1.8%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
		Kindergarten	485,538	92.8%	0.8%	0.6%	1.7%	4.0%
		Kindergarten	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
Alameda		1st Grade	17,071	97.1%	0.3%	0.3%	0.4%	1.9%
		Kindergarten	20,352	95.1%	0.8%	0.3%	0.6%	3.3%
		Kindergarten	19,422	95.1%	0.7%	0.4%	0.3%	3.6%
		Kindergarten	19,752	90.3%	0.6%	0.3%	0.7%	8.2%
		Kindergarten	21,622	96.5%	1.1%	0.7%	0.2%	1.6%
Alpine		1st Grade	9	*	*	*	*	*
	2022-23	Kindergarten	8	*	*	*	*	*
	2021-22	Kindergarten	**	*	*	*	*	*
		Kindergarten	**	*	*	*	*	*
	2019-20	Kindergarten	9	*	*	*	*	*
Amador		1st Grade	325	93.5%	1.8%	0.6%	1.5%	2.5%
		Kindergarten	418	90.9%	3.1%	0.5%	2.2%	3.3%
		Kindergarten	355	91.0%	0.3%	0.0%	1.4%	7.3%
		Kindergarten	367	93.2%	1.4%	1.9%	0.3%	3.3%
		Kindergarten	308	91.2%	4.2%	1.9%	0.6%	1.9%
Butte		1st Grade	2,144	97.1%	0.9%	0.2%	1.2%	0.5%
Dutte		Kindergarten	2,623	94.5%	3.0%	0.1%	1.5%	0.8%
		Kindergarten	2,590	94.2%	2.0%	0.2%	2.0%	1.6%
	-	Kindergarten	2,470	94.5%	1.4%	0.9%	1.5%	1.7%
		Kindergarten	2,742	95.1%	2.7%	0.8%	1.0%	0.4%
Calaveras	2019-20	1st Grade	355	94.9%	0.0%	0.3%	3.7%	1.1%
Calaveras								
		Kindergarten	517	89.2%	2.5%	0.2%	3.9%	4.3%
		Kindergarten	417	92.8%	1.2%	0.0%	4.1%	1.9%
		Kindergarten	362	90.9%	1.7%	0.6%	5.5%	1.4%
0.1		Kindergarten	455	93.8%	1.8%	1.5%	1.8%	1.1%
Colusa		1st Grade	332	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
		Kindergarten	414	97.6%	1.7%	0.2%	0.0%	0.5%
		Kindergarten	392	98.0%	1.0%	0.3%	0.5%	0.3%
		Kindergarten	346	94.5%	0.0%	0.0%	0.0%	5.5%
	2019-20	Kindergarten	372	96.8%	0.3%	0.0%	0.0%	3.0%
Contra Costa	2022-23	1st Grade	12,893	97.2%	0.8%	0.2%	0.4%	1.4%
	2022-23	Kindergarten	15,268	95.9%	1.1%	0.2%	0.6%	2.2%
	2021-22	Kindergarten	14,248	95.1%	1.0%	0.2%	0.8%	2.9%
		Kindergarten	14,400	94.8%	0.6%	0.5%	0.5%	3.6%
	2019-20	Kindergarten	15,692	96.2%	1.6%	0.8%	0.3%	1.2%
Del Norte	2022-23	1st Grade	301	92.7%	1.3%	1.3%	2.7%	2.0%
		Kindergarten	319	84.6%	6.0%	0.9%	6.9%	1.6%
		Kindergarten	351	88.6%	2.3%	1.4%	4.6%	3.1%
		Kindergarten	282	93.3%	0.7%	2.5%	2.1%	1.4%
		Kindergarten	394	97.0%	0.8%	0.0%	0.8%	1.5%
El Dorado		1st Grade	2,351	82.1%	0.6%	0.3%	16.3%	0.6%
50.000		Kindergarten	2,799	80.4%	1.5%	0.1%	16.5%	1.5%
		Kindergarten	2,733	78.2%	1.7%	0.4%	17.2%	2.5%
		-		78.2% 82.0%	1.8%	2.9%	11.6%	
		Kindergarten	2,373	82.0% 79.7%	2.2%	2.9% 4.3%		1.7%
Fracea		Kindergarten	2,909				13.5%	0.3%
Fresno		1st Grade	15,094	97.6%	0.4%	0.1%	1.4%	0.5%
		Kindergarten	18,033	96.4%	0.7%	0.1%	1.9%	1.0%
		Kindergarten	16,906	95.6%	0.9%	0.1%	2.0%	1.5%
		Kindergarten	16,220	97.3%	0.5%	0.1%	1.3%	0.7%
		Kindergarten	18,461	96.4%	1.0%	0.3%	1.6%	0.7%
Glenn		1st Grade	489	85.9%	0.2%	0.0%	12.9%	1.0%
		Kindergarten	632	81.8%	0.5%	0.0%	16.6%	1.1%
	2021-22	Kindergarten	572	85.1%	0.5%	0.0%	13.1%	1.2%
		Kindergarten	544	88.4%	0.6%	0.2%	8.8%	2.0%
	2019-20	Kindergarten	576	86.1%	1.4%	0.7%	10.9%	0.9%

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Table 3. Total Enrollment and Admission Status of Kindergarten, 2019-2020 to 2022-2023, and First Grade, 2022-2023, By County*

			Total	Students with	Conditional	Students with a	Others Lacking	
	School	Grade	Students	All Required	Entrants	Permanent	Required	Overdue^
	Year	Grade		Immunizations		Exemption	Immunizations†	
I I b . a l alk	2022 22	1-+ 6	Number	Percent	Percent	Percent	Percent	Percent
Humboldt	2022-23 2022-23	1st Grade	1,320	89.2%	1.9%	1.3%	3.2%	4.5% 7.0%
	2022-23	Kindergarten	1,646 1,526	86.3% 85.5%	2.9% 2.5%	0.5% 3.7%	3.3% 3.0%	7.0% 5.4%
	2021-22	Kindergarten	1,526	87.8%	1.0%	3.9%	2.0%	5.4%
	2020-21	Kindergarten Kindergarten	1,447	88.0%	2.7%	5.6%	0.7%	3.0%
Imperial	2019-20	1st Grade	2,561	96.9%	0.7%	0.4%	0.6%	1.3%
impenai	2022-23	Kindergarten	3,010	96.3%	1.6%	0.2%	0.4%	1.6%
	2021-22	Kindergarten	2,754	95.2%	1.1%	0.8%	1.0%	1.9%
	2020-21	Kindergarten	2,762	93.2%	1.4%	0.0%	0.7%	4.7%
	2019-20	Kindergarten	3,117	95.7%	2.5%	0.2%	0.4%	1.2%
Inyo	2022-23	1st Grade	184	95.1%	2.2%	0.0%	0.5%	2.2%
, -	2022-23	Kindergarten	258	96.1%	0.4%	0.0%	0.0%	3.5%
	2021-22	Kindergarten	151	91.4%	0.7%	0.7%	0.0%	7.3%
	2020-21	Kindergarten	187	96.3%	0.5%	0.0%	0.5%	2.7%
	2019-20	Kindergarten	271	97.0%	2.6%	0.4%	0.0%	0.0%
Kern	2022-23	1st Grade	15,064	91.3%	0.8%	0.3%	6.7%	1.0%
	2022-23	Kindergarten	18,181	88.5%	1.8%	0.3%	7.7%	1.7%
	2021-22	Kindergarten	16,369	88.2%	1.8%	0.6%	6.7%	2.7%
	2020-21	Kindergarten	15,354	88.0%	1.4%	0.5%	7.2%	3.0%
	2019-20	Kindergarten	18,327	88.6%	1.4%	0.7%	8.0%	1.3%
Kings	2022-23	1st Grade	2,171	97.4%	0.5%	0.0%	1.8%	0.2%
	2022-23	Kindergarten	2,726	96.4%	2.0%	0.0%	1.0%	0.6%
	2021-22	Kindergarten	2,458	96.1%	1.7%	0.1%	1.1%	0.9%
	2020-21	Kindergarten	2,341	97.8%	0.9%	0.3%	0.6%	0.5%
	2019-20	Kindergarten	2,576	96.9%	2.0%	0.2%	0.4%	0.4%
Lake	2022-23	1st Grade	784	95.7%	1.8%	0.1%	1.0%	1.4%
	2022-23	Kindergarten	960	92.4%	4.0%	0.0%	1.3%	2.4%
	2021-22	Kindergarten	886	93.9%	3.4%	0.0%	1.0%	1.7%
	2020-21	Kindergarten	768	91.7%	0.9%	0.8%	0.8%	5.9%
	2019-20	Kindergarten	796	90.8%	3.1%	0.8%	0.8%	4.5%
Lassen	2022-23	1st Grade	274	95.6%	1.5%	0.0%	2.2%	0.7%
	2022-23	Kindergarten	350	89.4%	4.6%	0.9%	3.1%	2.0%
	2021-22	Kindergarten	315	89.5%	0.6%	0.0%	3.2%	6.7%
	2020-21	Kindergarten	335	92.2%	1.8%	1.2%	1.5%	3.3%
	2019-20	Kindergarten	350	92.0%	5.4%	1.4%	0.9%	0.3%
Los Angeles	2022-23	1st Grade	98,270	96.4%	0.7%	0.2%	1.1%	1.5%
	2022-23	Kindergarten	125,282	94.3%	1.7%	0.2%	1.4%	2.4%
	2021-22	Kindergarten	116,937	94.3%	1.2%	0.2%	1.2%	3.0%
	2020-21	Kindergarten	114,141	91.6%	0.7%	0.4%	1.1%	6.2%
Madara	2019-20 2022-23	Kindergarten 1st Grade	133,622	94.5%	1.7%	0.6%	0.8%	2.4%
Madera	2022-23	Kindergarten	2,509 2,790	96.9% 95.6%	0.4% 1.4%	0.2% 0.0%	0.6% 0.8%	2.1% 2.2%
	2022-23	Kindergarten	2,790	95.6% 95.3%	1.4% 1.5%	0.0%	0.8%	2.2%
		Kindergarten	2,586	96.8%	0.4%	0.1%	0.8%	2.5% 1.9%
		Kindergarten	2,380	96.1%	1.5%	0.3%	0.8%	1.4%
Marin		1st Grade	2,727	98.2%	0.6%	0.4%	0.2%	0.6%
		Kindergarten	3,114	97.1%	1.3%	0.3%	0.1%	1.2%
	2021-22	Kindergarten	2,847	96.6%	1.8%	0.5%	0.1%	0.9%
	2020-21	Kindergarten	2,832	96.3%	0.7%	2.0%	0.1%	0.9%
	2019-20	Kindergarten	3,252	93.9%	2.3%	2.9%	0.3%	0.6%
Mariposa	2022-23	1st Grade	140	94.3%	0.7%	0.0%	0.7%	4.3%
	2022-23	Kindergarten	179	86.0%	5.6%	0.6%	0.6%	7.3%
	2021-22	Kindergarten	171	91.8%	4.1%	0.6%	0.0%	3.5%
	2020-21	Kindergarten	163	80.4%	4.3%	0.0%	5.5%	9.8%
	2019-20	Kindergarten	160	93.1%	5.6%	0.0%	1.3%	0.0%
Mendocino	2022-23	1st Grade	977	93.3%	1.0%	0.6%	0.3%	4.7%
	2022-23	Kindergarten	1,265	88.5%	3.0%	0.5%	0.9%	7.1%
	2021-22	Kindergarten	1,183	88.8%	2.6%	0.7%	0.7%	7.3%
	2020-21	Kindergarten	1,084	87.3%	4.5%	2.7%	0.6%	5.0%
	2019-20	Kindergarten	1,218	85.7%	7.2%	3.0%	0.6%	3.4%

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			Total	Students with	Conditional	Students with a	Others Lacking	
	School	Grade	Students	All Required	Entrants	Permanent	Required	Overdue^
	Year	Grade		Immunizations		Exemption	Immunizations†	
N 4 I	2022.22	1-+ 6	Number	Percent	Percent	Percent	Percent	Percent
Merced		1st Grade	4,409	96.6%	0.7%	0.1%	0.7%	2.0%
		Kindergarten	5,458	94.0%	1.9%	0.0%	1.2%	2.9%
		Kindergarten	5,007	95.4%	1.6%	0.0%	1.3%	1.7%
		Kindergarten	4,566	94.4%	1.1%	0.1%	0.6%	3.8%
N.A I	2019-20	Kindergarten	5,321	96.7%	1.6%	0.1%	0.6%	1.1%
Modoc		1st Grade	114	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
		Kindergarten	115	94.8%	4.3%	0.0%	0.0%	0.9%
		Kindergarten	102	94.1%	2.0%	0.0%	0.0%	3.9%
		Kindergarten	117	94.9%	0.9%	0.0%	0.0%	4.3%
		Kindergarten	120	95.8%	0.8%	0.8%	0.0%	2.5%
Mono	2022-23	1st Grade	117	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
		Kindergarten	162	97.5%	2.5%	0.0%	0.0%	0.0%
		Kindergarten	148	96.6%	2.7%	0.0%	0.7%	0.0%
		Kindergarten	124	96.8%	0.8%	0.0%	0.0%	2.4%
		Kindergarten	138	90.6%	5.1%	2.9%	0.0%	1.4%
Monterey		1st Grade	5,489	98.7%	0.4%	0.1%	0.1%	0.8%
		Kindergarten	6,236	96.8%	1.2%	0.0%	0.2%	1.6%
		Kindergarten	6,357	97.5%	0.8%	0.1%	0.2%	1.4%
		Kindergarten	6,220	97.4%	0.8%	0.4%	0.2%	1.2%
		Kindergarten	6,733	97.1%	1.4%	0.8%	0.1%	0.6%
Napa		1st Grade	1,428	97.0%	0.2%	0.2%	1.7%	0.9%
		Kindergarten	1,624	96.4%	0.7%	0.3%	0.9%	1.7%
		Kindergarten	1,581	96.5%	1.1%	0.3%	0.9%	1.1%
	2020-21	Kindergarten	1,596	95.7%	1.1%	0.9%	1.7%	0.6%
	2019-20	Kindergarten	1,746	96.6%	0.8%	1.4%	0.3%	0.9%
Nevada		1st Grade	771	87.4%	1.8%	2.1%	7.1%	1.6%
		Kindergarten	981	83.1%	4.2%	0.3%	9.2%	3.3%
		Kindergarten	927	82.4%	4.2%	2.7%	7.9%	2.8%
	2020-21	Kindergarten	834	81.9%	3.0%	9.0%	3.8%	2.3%
		Kindergarten	985	79.5%	3.4%	13.1%	3.0%	1.0%
Orange		1st Grade	32,202	97.3%	0.6%	0.2%	1.2%	0.6%
		Kindergarten	41,162	96.2%	1.2%	0.2%	1.4%	1.0%
		Kindergarten	38,034	96.0%	1.0%	0.3%	1.2%	1.4%
		Kindergarten	36,305	94.7%	0.9%	0.8%	0.8%	2.8%
	2019-20	Kindergarten	41,381	95.5%	1.5%	1.1%	0.8%	1.1%
Placer		1st Grade	5,305	95.2%	0.7%	0.9%	2.5%	0.7%
		Kindergarten	6,609	92.8%	2.7%	0.3%	2.7%	1.5%
		Kindergarten	6,549	92.9%	2.0%	0.8%	2.5%	1.8%
		Kindergarten	5,628	92.7%	1.8%	2.2%	0.7%	2.6%
	2019-20	Kindergarten	6,709	90.5%	2.4%	3.3%	1.3%	2.5%
Plumas		1st Grade	174	93.1%	1.1%	0.0%	4.6%	1.1%
	2022-23	Kindergarten	206	91.3%	4.4%	0.5%	2.4%	1.5%
		Kindergarten	202	91.1%	3.0%	0.5%	3.5%	2.0%
		Kindergarten	191	91.1%	0.5%	1.6%	5.8%	1.0%
		Kindergarten	208	92.3%	3.8%	1.4%	0.5%	1.9%
Riverside		1st Grade	31,192	96.1%	0.8%	0.3%	2.0%	0.9%
		Kindergarten	37,410	94.2%	1.8%	0.1%	2.5%	1.4%
		Kindergarten	33,796	93.8%	1.6%	0.2%	2.4%	2.1%
		Kindergarten	31,555	92.2%	0.7%	0.5%	2.8%	3.8%
	2019-20	Kindergarten	36,134	93.6%	1.9%	0.9%	2.6%	1.1%
Sacramento		1st Grade	18,587	95.3%	1.7%	0.4%	1.5%	1.0%
	2022-23	Kindergarten	21,018	92.7%	3.2%	0.3%	2.0%	1.8%
	2021-22	Kindergarten	19,897	92.7%	1.9%	0.3%	2.1%	3.0%
		Kindergarten	19,509	91.5%	1.1%	0.9%	2.0%	4.5%
		Kindergarten	21,495	93.3%	2.2%	1.6%	1.9%	1.0%
San Benito		1st Grade	880	98.3%	0.6%	0.3%	0.2%	0.6%
		Kindergarten	1,071	97.4%	1.7%	0.1%	0.4%	0.5%
		Kindergarten	983	97.0%	0.5%	0.2%	0.1%	2.1%
		Kindergarten	991	91.2%	1.4%	0.1%	0.0%	7.3%
		Kindergarten	1,099	96.3%	1.3%	0.5%	0.1%	1.8%

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			Total	Students with	Conditional	Students with a	Others Lacking	
	School	Grade		All Required		Permanent	Required	Overdue^
	Year	Grade	Students	Immunizations	Entrants	Exemption	Immunizations†	
			Number	Percent	Percent	Percent	Percent	Percent
San Bernardino	2022-23	1st Grade	29,355	94.7%	0.7%	0.1%	3.2%	1.3%
	2022-23	Kindergarten	34,094	92.1%	1.8%	0.1%	3.6%	2.4%
	2021-22	Kindergarten	32,198	92.1%	1.5%	0.2%	3.8%	2.4%
	2020-21	Kindergarten	30,438	90.4%	0.6%	0.3%	2.1%	6.6%
C D:	2019-20	Kindergarten	34,542	93.9%	1.8%	0.4%	2.5%	1.4%
San Diego	2022-23	1st Grade	37,321	95.4%	0.8%	0.1%	3.4% 4.3%	0.3%
	2022-23 2021-22	Kindergarten	45,295	93.4% 93.3%	1.6% 1.4%	0.1% 0.2%	4.5% 3.9%	0.5% 1.1%
	2021-22	Kindergarten Kindergarten	41,632 40,748	93.9%	1.0%	0.2%	3.3%	1.1%
	2019-20	Kindergarten	45,956	93.9%	1.5%	1.4%	3.6%	0.5%
San Francisco	2013-20	1st Grade	5,626	97.6%	0.3%	0.2%	0.0%	1.9%
San maneisco	2022-23	Kindergarten	6,394	96.9%	0.6%	0.2%	0.1%	2.3%
	2021-22	Kindergarten	6,068	94.5%	0.7%	0.4%	0.0%	4.4%
	2020-21	Kindergarten	6,325	92.0%	0.3%	0.5%	0.1%	7.1%
	2019-20	Kindergarten	6,963	95.3%	1.1%	0.7%	0.0%	2.8%
San Joaquin	2022-23	1st Grade	11,475	96.4%	0.5%	0.1%	2.1%	0.8%
oan souquii.		Kindergarten	12,246	94.5%	1.5%	0.1%	3.0%	1.0%
	2021-22	Kindergarten	11,902	94.9%	1.3%	0.1%	2.3%	1.3%
	2020-21	Kindergarten	10,791	95.1%	1.1%	0.3%	1.8%	1.7%
	2019-20	Kindergarten	12,320	95.0%	1.7%	0.4%	1.4%	1.4%
San Luis Obispo	2022-23	1st Grade	2,455	96.9%	0.9%	0.5%	1.0%	0.8%
	2022-23	Kindergarten	3,072	95.1%	1.6%	0.4%	1.7%	1.3%
	2021-22	Kindergarten	2,846	94.1%	2.0%	0.6%	1.0%	2.2%
	2020-21	Kindergarten	2,466	95.2%	1.3%	0.9%	0.8%	1.9%
	2019-20	Kindergarten	3,095	94.2%	1.8%	2.2%	0.8%	0.9%
San Mateo	2022-23	1st Grade	7,223	98.0%	0.2%	0.2%	0.7%	0.9%
	2022-23	Kindergarten	8,281	96.6%	0.6%	0.1%	0.9%	1.8%
	2021-22	Kindergarten	8,028	96.4%	0.6%	0.2%	0.6%	2.3%
	2020-21	Kindergarten	8,140	97.1%	0.6%	0.5%	0.3%	1.6%
	2019-20	Kindergarten	9,168	96.6%	1.3%	0.7%	0.1%	1.3%
Santa Barbara	2022-23	1st Grade	5,107	98.2%	0.6%	0.2%	0.7%	0.3%
	2022-23	Kindergarten	6,531	97.4%	1.2%	0.2%	0.9%	0.3%
	2021-22	Kindergarten	6,066	96.3%	1.1%	0.3%	1.1%	1.2%
	2020-21	Kindergarten	5,473	95.5%	0.7%	0.6%	0.9%	2.3%
	2019-20	Kindergarten	6,500	96.2%	1.4%	1.4%	0.4%	0.5%
Santa Clara	2022-23	1st Grade	19,266	98.5%	0.4%	0.2%	0.2%	0.7%
	2022-23	Kindergarten	23,575	97.3%	0.9%	0.3%	0.3%	1.3%
	2021-22	Kindergarten	21,901	96.5%	0.8%	0.2%	0.4%	2.0%
	2020-21	Kindergarten	21,759	96.0%	0.6%	0.3%	0.4%	2.6%
	2019-20	Kindergarten	24,963	96.4%	1.3%	0.7%	0.2%	1.4%
Santa Cruz	2022-23	1st Grade	2,922	92.4%	0.8%	0.3%	5.8%	0.7%
	2022-23	Kindergarten	3,345	89.3%	1.6%	0.3%	7.9%	0.9%
	2021-22	Kindergarten	3,307	91.1%	2.0%	0.3%	5.9%	0.8%
		Kindergarten	3,097	88.8%	1.1%	1.7%	6.3%	2.1%
Shacta		Kindergarten	3,415	89.3%	2.2%	2.8%	4.6%	1.2%
Shasta		1st Grade	2,139	92.8%	0.9%	1.0% 0.5%	4.3%	0.9%
	2022-23	Kindergarten	2,686	91.1% 89.5%	3.9%	1.0%	3.1% 3.7%	1.4% 2.7%
		Kindergarten	2,511		3.1%			
	2020-21 2019-20	Kindergarten Kindergarten	2,189 2,525	88.6% 89.5%	2.1% 3.2%	2.5% 2.7%	3.6% 2.9%	3.2% 1.7%
Sierra		1st Grade	2,525	89.5% ≥95.0%	3.2% 0.0%	2.7% 0.0%	2.9% 0.0%	1.7% ≤5.0%
SICITA	2022-23	Kindergarten	43	≥95.0% ≥95.0%	0.0%	0.0%	0.0%	≤5.0% ≤5.0%
		Kindergarten	32	≥95.0% ≥95.0%	0.0%	0.0%	0.0%	≤5.0% ≤5.0%
	2021-22	Kindergarten	23	≥95.0% ≥95.0%	0.0%	0.0%	0.0%	≤5.0% ≤5.0%
	2019-20	Kindergarten	25	≥95.0% ≥95.0%	0.0%	0.0%	0.0%	≤5.0% ≤5.0%
Siskiyou		1st Grade	382	295.0% 92.1%	1.0%	0.0%	4.5%	≤5.0% 2.4%
JIJRIYOU	2022-23	Kindergarten	542	91.0%	1.7%	0.2%	3.5%	3.7%
		Kindergarten	500	87.6%	5.2%	0.0%	4.6%	2.6%
	2021-22	Kindergarten	463	89.0%	1.5%	0.4%	6.7%	2.4%
		Kindergarten	530	94.9%	1.9%	1.1%	0.6%	1.5%

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 3. Total Enrollment and Admission Status of Kindergarten, 2019-2020 to 2022-2023, and First Grade, 2022-2023, By County*

			Total	Students with	Conditional	Students with a	Others Lacking	
	School	Grade		All Required		Permanent	Required	Overdue^
	Year	Grade	Students	Immunizations	Entrants	Exemption	Immunizations†	
			Number	Percent	Percent	Percent	Percent	Percent
Solano	2022-23	1st Grade	4,753	98.1%	0.5%	0.0%	0.4%	0.9%
	2022-23	Kindergarten	5,565	95.6%	2.4%	0.1%	0.6%	1.3%
	2021-22	Kindergarten	5,236	96.5%	1.9%	0.1%	0.5%	1.0%
	2020-21	Kindergarten	5,036	94.7%	1.0%	0.5%	0.5%	3.3%
	2019-20	Kindergarten	5,966	94.5%	1.5%	0.5%	0.1%	3.4%
Sonoma	2022-23	1st Grade	4,945	94.5%	0.8%	0.3%	3.3%	1.1%
	2022-23	Kindergarten	6,485	93.1%	1.8%	0.3%	2.8%	1.9%
	2021-22	Kindergarten	5,931	92.6%	1.6%	0.4%	2.6%	2.7%
	2020-21	Kindergarten	5,566	91.6%	1.1%	1.9%	0.8%	4.6%
	2019-20	Kindergarten	6,043	92.3%	2.1%	3.1%	0.7%	1.8%
Stanislaus	2022-23	1st Grade	7,828	95.9%	1.1%	0.1%	1.7%	1.2%
	2022-23	Kindergarten	9,509	94.3%	1.8%	0.1%	2.0%	1.8%
	2021-22	Kindergarten	8,707	94.0%	1.6%	0.1%	1.9%	2.4%
	2020-21	Kindergarten	8,619	94.5%	1.1%	0.5%	0.4%	3.6%
	2019-20	Kindergarten	9,366	95.7%	2.0%	0.7%	0.3%	1.4%
Sutter	2022-23	1st Grade	1,802	77.7%	0.7%	0.4%	21.0%	0.2%
	2022-23	Kindergarten	2,255	75.9%	1.5%	0.4%	21.5%	0.7%
	2021-22	Kindergarten	2,222	77.5%	1.5%	0.2%	19.7%	1.0%
	2020-21	Kindergarten	1,764	81.7%	0.6%	0.9%	15.1%	1.6%
	2019-20	Kindergarten	2,017	85.3%	0.6%	0.9%	13.0%	0.1%
Tehama	2022-23	1st Grade	808	97.8%	0.5%	0.2%	0.9%	0.6%
	2022-23	Kindergarten	929	93.0%	4.1%	0.1%	1.1%	1.7%
	2021-22	Kindergarten	962	94.6%	2.0%	0.1%	1.0%	2.3%
	2020-21	Kindergarten	838	95.1%	1.6%	0.2%	0.8%	2.3%
	2019-20	Kindergarten	1,073	93.6%	2.1%	0.7%	1.2%	2.4%
Trinity	2022-23	1st Grade	106	88.7%	7.5%	0.0%	0.9%	2.8%
,	2022-23	Kindergarten	145	86.2%	4.8%	0.0%	1.4%	7.6%
	2021-22	Kindergarten	117	89.7%	5.1%	0.0%	0.9%	4.3%
	2020-21	Kindergarten	134	85.8%	3.0%	4.5%	1.5%	5.2%
	2019-20	Kindergarten	138	87.0%	4.3%	5.1%	0.7%	2.9%
Tulare	2022-23	1st Grade	7,426	98.0%	0.3%	0.0%	1.4%	0.3%
	2022-23	Kindergarten	9,469	96.0%	1.1%	0.0%	2.0%	0.8%
	2021-22	Kindergarten	8,542	96.1%	1.0%	0.1%	1.7%	1.2%
	2020-21	Kindergarten	8,344	96.6%	0.4%	0.2%	1.3%	1.4%
	2019-20	Kindergarten	9,535	96.5%	1.2%	0.2%	1.8%	0.3%
Tuolumne	2019-20	1st Grade	439	88.6%	3.6%	0.9%	3.9%	3.0%
	2022-23	Kindergarten	616	85.6%	5.4%	0.5%	3.4%	5.2%
		Kindergarten	566	86.9%	2.1%	6.2%	2.1%	2.7%
	2021-22 2020-21	Kindergarten	474	81.9%	8.6%	2.3%	3.6%	3.6%
		Kindergarten	584	90.2%	3.6%	3.6%	1.4%	1.2%
Ventura	2019-20 2022-23	1st Grade	9,221	96.6%	0.5%	0.2%	1.7%	0.9%
		Kindergarten	12,137	95.0%	1.4%	0.2%	1.8%	1.6%
	2022-23	Kindergarten	10,540	95.1%	1.4%	0.2%	1.6%	1.7%
	2021-22	Kindergarten	10,410	94.9%	1.1%	0.7%	1.3%	2.1%
	2020-21	Kindergarten	11,466	95.5%	1.7%	1.1%	0.6%	1.1%
Yolo	2019-20	1st Grade	2,375	95.5%	1.8%	0.3%	2.0%	0.5%
	2022-23	Kindergarten	2,893	94.4%	2.2%	0.2%	2.2%	0.9%
	2022-23	Kindergarten	2,746	94.1%	0.9%	0.3%	2.4%	2.3%
	2021-22	Kindergarten	2,535	92.6%	0.9%	0.6%	2.4%	3.6%
	2020-21	Kindergarten	2,959	94.3%	2.0%	1.6%	0.9%	1.1%
Yuba	2019-20	1st Grade	1,255	95.6%	0.6%	0.1%	1.9%	1.1%
1 4 5 4	2022-23	Kindergarten	1,561	91.9%	1.9%	0.1%	2.6%	3.6%
	2022-23	Kindergarten	1,372	90.3%	4.7%	0.3%	2.3%	2.3%
	2021-22	Kindergarten	1,154	88.8%	0.9%	0.1%	3.0%	7.2%
	2020-21	Kindergarten	1,361	92.8%	2.4%	0.4%	2.1%	2.2%
	2019-20	Kindergarten	1,361	92.8%	2.4%	0.4%	2.1%	2.2%
	2019-20	Milueigaitell	1,301	32.0/0	4.4 /0	0.4/0	2.1/0	۷.۷/٥

^{*} 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%; 100-499 enrollees, values of 99% or higher are listed as ≥99%. ** Schools did not report.

[†] 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.

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 4: Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	НерВ 3+	Var 2+
	Teal		Number	Percent	Percent	Percent	Percent	Percent
State Total	2022-23	1st Grade	443,051	97.0%	97.4%	97.5%	98.0%	97.2%
State Total	2022-23	Kindergarten	540,864	95.6%	96.3%	96.5%	97.3%	96.1%
	2021-22	Kindergarten	503,722	95.7%	96.2%	96.3%	97.3%	96.0%
	2020-21	Kindergarten	485,538	94.7%	95.2%	95.1%	97.0%	94.8%
	2019-20	Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
Alameda	2022-23		17,071	98.1%	98.4%	98.4%	98.8%	97.9%
	2022-23	Kindergarten	20,352	96.8%	97.3%	97.2%	97.7%	96.7%
		Kindergarten	19,422	96.7%	97.2%	97.2%	97.8%	96.6%
		Kindergarten	19,752	92.0%	92.5%	92.6%	93.5%	92.2%
	2019-20	Kindergarten	21,622	98.1% *	98.4% *	98.5% *	98.7% *	97.7% *
Alpine	2022-23		9	*	*	*	*	*
	2022-23 2021-22	Kindergarten	8 **	*	*	*	*	*
	2021-22	Kindergarten Kindergarten	**	*	*	*	*	*
	2019-20		9	*	*	*	*	*
Amador	2019-20	1st Grade	325	95.4%	95.4%	94.8%	97.2%	95.4%
AIIIdUUI	2022-23		418	92.6%	94.3%	94.0%	96.2%	94.0%
		Kindergarten	355	91.5%	93.2%	94.1%	97.2%	93.5%
		Kindergarten	367	94.6%	94.8%	94.6%	96.7%	94.3%
	2019-20	Kindergarten	308	93.8%	95.1%	94.5%	94.8%	93.2%
Butte	2022-23		2,144	97.7%	98.1%	98.5%	98.2%	98.3%
Dutte	2022-23		2,623	95.7%	96.7%	97.8%	97.7%	97.3%
	2021-22	Kindergarten	2,590	95.9%	96.9%	97.9%	97.8%	97.2%
	2020-21	Kindergarten	2,470	96.0%	96.3%	97.0%	98.0%	97.0%
	2019-20	Kindergarten	2,742	96.5%	97.2%	97.5%	97.8%	97.2%
Calaveras	2022-23	1st Grade	355	95.5%	95.5%	96.1%	96.1%	96.3%
	2022-23		517	91.3%	92.1%	93.2%	95.0%	92.6%
		Kindergarten	417	93.8%	94.2%	96.4%	96.9%	95.9%
	2020-21	Kindergarten	362	92.8%	93.4%	92.8%	95.6%	92.3%
	2019-20	Kindergarten	455	95.4%	95.4%	95.6%	96.9%	94.9%
Colusa	2022-23	1st Grade	332	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	2022-23		414	98.3%	≥99.0%	≥99.0%	98.8%	98.3%
	2021-22	Kindergarten	392	98.5%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
		Kindergarten	346	97.1%	96.8%	96.5%	98.0%	96.5%
	2019-20	Kindergarten	372	≥99.0%	≥99.0%	≥99.0%	≥99.0%	97.6%
Contra Costa	2022-23 2022-23	1st Grade Kindergarten	12,893 15,268	98.1% 97.3%	98.5% 97.9%	98.6% 97.8%	98.9% 98.7%	98.1% 97.4%
		Kindergarten	14,248	96.9%	97.3%	97.5%	98.2%	97.0%
		Kindergarten	14,400	96.2%	96.7%	96.4%	98.2%	96.3%
	2019-20	Kindergarten	15,692	97.5%	97.8%	97.9%	98.5%	97.5%
Dol Norto	2022-23		301	93.0%	93.0%	93.7%	94.0%	93.7%
Del Norte		Kindergarten	319	86.8%	89.3%	89.0%	90.3%	89.3%
		Kindergarten	351	94.0%	95.4%	95.2%	97.2%	90.3%
	2020-21	Kindergarten	282	93.3%	94.0%	94.3%	96.5%	94.3%
	2019-20	Kindergarten	394	98.0%	≥99.0%	98.5%	98.7%	98.2%
El Dorado	2022-23	1st Grade	2,351	84.2%	84.4%	84.8%	87.4%	83.8%
		Kindergarten	2,799	82.2%	82.7%	82.8%	85.5%	82.5%
		Kindergarten	2,721	83.9%	84.0%	83.6%	87.0%	82.7%
		Kindergarten	2,373	84.7%	85.3%	84.8%	88.2%	85.0%
		Kindergarten	2,909	82.4%	83.3%	82.6%	86.6%	81.7%
Fresno		1st Grade	15,094	98.1%	98.2%	98.4%	98.7%	98.3%
	2022-23		18,033	97.0%	97.6%	97.6%	98.3%	97.4%
		Kindergarten	16,906 16,220	97.0%	97.4%	97.5%	98.0%	97.4%
		Kindergarten Kindergarten	16,220 18,461	97.9% 97.3%	98.3% 97.7%	98.3% 97.9%	98.8% 98.4%	98.2% 97.7%
	2019-20		18,461 489	97.3% 87.5%	97.7% 87.5%	97.9% 87.1%	98.4% 88.5%	97.7% 86.9%
Glenn		Kindergarten	632	83.7%	85.0%	83.5%	86.9%	83.4%
		Kindergarten	572	83.7 <i>%</i> 87.2%	88.1%	83.3% 87.4%	89.5%	86.2%
		Kindergarten	544	89.9%	89.9%	90.6%	92.3%	89.7%
	2019-20	Kindergarten	576	87.8%	88.5%	88.5%	90.8%	88.0%

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 4: Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County*

	School	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	НерВ 3+	Var 2+
	Year		Numahan	Doveout	Dougoust	Donoomt	Dougoust	Dorsont
Lluma la allala	2022-22	1st Grade	Number 1,320	Percent 92.1%	Percent 92.4%	Percent 92.8%	Percent 92.8%	Percent 92.9%
Humboldt	2022-23		1,646	90.8%	91.3%	91.4%	93.6%	90.9%
	2021-22	Kindergarten	1,526	91.1%	90.9%	91.5%	92.7%	91.6%
	2020-21	Kindergarten	1,447	92.7%	92.5%	92.6%	93.8%	92.0%
	2019-20	Kindergarten	1,715	92.2%	92.0%	92.3%	92.2%	91.5%
Imperial	2022-23	1st Grade	2,561	97.7%	98.2%	98.1%	99.5%	98.5%
Imperial	2022-23	Kindergarten	3,010	97.2%	98.3%	98.6%	99.4%	98.8%
	2021-22	Kindergarten	2,754	96.4%	97.4%	97.2%	99.2%	98.0%
	2020-21	Kindergarten	2,762	95.4%	97.1%	94.8%	98.3%	96.1%
	2019-20		3,117	97.9%	98.8%	98.0%	99.3%	97.9%
Inyo	2022-23	1st Grade	184	95.1%	95.7%	97.3%	98.9%	97.3%
, 0	2022-23		258	97.3%	97.3%	96.1%	≥99.0%	≥99.0%
	2021-22	Kindergarten	151	94.7%	94.0%	95.4%	98.0%	94.7%
	2020-21	Kindergarten	187	97.9%	98.4%	96.8%	98.9%	96.8%
	2019-20	Kindergarten	271	97.8%	98.5%	98.9%	98.9%	98.5%
Kern	2022-23		15,064	92.5%	93.0%	93.4%	94.5%	93.0%
		Kindergarten	18,181	90.1%	91.2%	91.9%	93.3%	91.4%
	2021-22		16,369	90.1%	91.3%	91.6%	93.7%	91.6%
		Kindergarten	15,354	89.9%	91.0%	90.9%	94.1%	90.4%
	2019-20	Kindergarten	18,327	93.6%	91.4%	91.3%	94.0%	90.8%
Kings	2022-23	1st Grade	2,171	97.6%	97.9%	98.1%	98.4%	97.9%
0-	2022-23	Kindergarten	2,726	96.9%	97.9%	98.6%	98.6%	98.5%
	2021-22	Kindergarten	2,458	96.9%	98.3%	98.1%	98.6%	97.8%
	2020-21	Kindergarten	2,341	98.4%	98.5%	98.6%	99.2%	98.6%
	2019-20	Kindergarten	2,576	97.8%	98.9%	99.1%	99.4%	98.7%
Lake	2022-23	1st Grade	784	96.8%	97.8%	97.8%	98.1%	97.2%
	2022-23	Kindergarten	960	94.4%	95.9%	96.8%	97.1%	96.0%
	2021-22	Kindergarten	886	95.4%	96.5%	97.0%	97.9%	97.4%
	2020-21	Kindergarten	768	93.6%	95.2%	95.6%	96.6%	95.2%
	2019-20	Kindergarten	796	92.7%	94.7%	95.4%	96.7%	95.1%
Lassen	2022-23		274	97.4%	97.4%	97.4%	97.1%	96.4%
	2022-23	Kindergarten	350	91.1%	92.9%	93.7%	94.6%	92.6%
	2021-22	Kindergarten	315	89.8%	90.5%	89.8%	91.1%	89.8%
	2020-21	Kindergarten	335	93.1%	94.6%	95.5%	95.2%	94.6%
	2019-20	Kindergarten	350	94.0%	96.3%	96.3%	96.3%	94.9%
Los Angeles	2022-23	1st Grade	98,270	97.8%	97.9%	98.1%	98.5%	97.6%
_	2022-23	Kindergarten	125,282	96.3%	96.7%	96.9%	97.9%	96.3%
	2021-22	Kindergarten	116,937	96.3%	96.6%	96.7%	98.0%	96.3%
	2020-21	Kindergarten	114,141	94.0%	94.5%	94.4%	97.3%	93.9%
	2019-20	Kindergarten	133,622	96.8%	97.1%	97.0%	98.2%	96.4%
Madera	2022-23	1st Grade	2,509	97.5%	98.6%	99.0%	98.9%	98.8%
		Kindergarten	2,790	96.3%	97.5%	98.0%	98.5%	98.0%
		Kindergarten	2,636	96.7%	97.3%	97.5%	97.8%	97.7%
		Kindergarten	2,586	97.4%	97.6%	97.8%	97.9%	97.6%
	2019-20	Kindergarten	2,727	97.2%	97.7%	98.0%	98.1%	97.8%
Marin		1st Grade	2,506	99.0%	99.2%	99.4%	99.6%	99.0%
		Kindergarten	3,114	98.2%	98.6%	99.0%	99.1%	98.7%
	2021-22		2,847	98.5%	98.6%	99.1%	98.5%	98.3%
		Kindergarten	2,832	97.4%	97.6%	97.7%	97.9%	97.2%
	2019-20		3,252	96.0%	96.6%	96.9%	96.8%	95.8%
Mariposa	2022-23		140	94.3%	95.7%	96.4%	96.4%	96.4%
	2022-23	Kindergarten	179	89.4%	93.3%	96.6%	95.5%	93.9%
		Kindergarten	171	93.6%	97.7%	97.7%	97.1%	95.3%
	2020-21		163	87.1%	89.0%	90.2%	92.0%	89.0%
	2019-20		160	95.0%	95.6%	95.6%	97.5%	95.6%
Mendocino	2022-23	1st Grade	977	95.3%	96.1%	96.2%	96.7%	94.7%
		Kindergarten	1,265	93.2%	93.8%	93.1%	94.5%	92.3%
		Kindergarten	1,183	92.1%	93.7%	93.7%	94.3%	92.6%
		Kindergarten	1,084	90.6%	91.4%	91.9%	92.7%	90.6%
	2019-20	Kindergarten	1,218	88.8%	89.9%	89.7%	89.7%	88.7%

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 4: Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	НерВ 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
Merced		1st Grade	4,409	97.1%	98.0%	98.3%	98.9%	97.8%
	2022-23	Kindergarten	5,458	95.2%	96.6%	96.8%	98.2%	96.6%
	2021-22	Kindergarten	5,007	96.7%	97.4%	97.4%	98.4%	97.2%
	2020-21 2019-20	Kindergarten	4,566	96.0%	96.5% 98.7%	96.8%	98.9%	96.4% 98.2%
Modoc	2019-20	Kindergarten 1st Grade	5,321 114	97.6% ≥99.0%	98.7% ≥99.0%	98.7% ≥99.0%	99.1% ≥99.0%	98.2% ≥99.0%
Widuoc	2022-23	Kindergarten	115	94.8%	≥99.0%	≥99.0%	98.3%	≥99.0%
	2021-22	Kindergarten	102	94.1%	98.0%	98.0%	≥99.0%	≥99.0%
	2020-21	Kindergarten	117	97.4%	96.6%	96.6%	≥99.0%	96.6%
	2019-20	Kindergarten	120	96.7%	96.7%	97.5%	≥99.0%	96.7%
Mono	2022-23	1st Grade	117	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	2022-23	Kindergarten	162	≥99.0%	≥99.0%	≥99.0%	98.8%	98.8%
	2021-22	Kindergarten	148	98.0%	98.0%	≥99.0%	98.0%	98.6%
	2020-21	Kindergarten	124	≥99.0%	≥99.0%	≥99.0%	≥99.0%	97.6%
	2019-20	Kindergarten	138	92.0%	90.6%	92.8%	92.0%	92.8%
Monterey	2022-23	1st Grade	5,489	99.2%	99.3%	99.4%	99.6%	99.1%
	2022-23 2021-22	Kindergarten Kindergarten	6,236 6,357	98.3% 98.6%	98.7% 98.7%	98.7% 98.8%	99.0% 99.2%	98.0% 98.5%
	2021-22	Kindergarten	6,220	98.4%	98.6%	98.8%	99.2%	98.6%
	2019-20	Kindergarten	6,733	98.2%	98.4%	98.6%	98.8%	98.2%
Napa	2022-23	1st Grade	1,428	97.6%	97.9%	97.8%	97.8%	97.6%
Ναρα	2022-23	Kindergarten	1,624	97.0%	98.0%	98.3%	98.2%	97.7%
	2021-22	Kindergarten	1,581	98.5%	98.0%	98.8%	99.2%	98.7%
	2020-21	Kindergarten	1,596	96.6%	96.5%	96.7%	96.9%	96.6%
	2019-20	Kindergarten	1,746	98.3%	98.3%	98.0%	97.8%	97.9%
Nevada	2022-23	1st Grade	771	89.0%	89.1%	89.6%	90.3%	89.9%
	2022-23	Kindergarten	981	86.2%	87.4%	88.8%	89.2%	88.4%
	2021-22	Kindergarten	927	86.3%	87.1%	86.9%	89.1%	86.9%
	2020-21 2019-20	Kindergarten Kindergarten	834 985	84.8% 83.5%	84.9% 83.1%	85.4% 83.2%	87.9% 83.6%	85.0% 81.5%
0,000,000	2019-20	1st Grade	32,202	98.1%	98.3%	98.4%	98.8%	98.1%
Orange	2022-23	Kindergarten	41,162	97.4%	97.8%	97.7%	98.6%	97.5%
	2021-22	Kindergarten	38,034	97.3%	97.8%	97.7%	98.7%	97.4%
	2020-21	Kindergarten	36,305	96.2%	96.9%	96.8%	98.3%	96.6%
	2019-20	Kindergarten	41,381	97.2%	97.5%	97.4%	98.1%	97.1%
Placer	2022-23	1st Grade	5,305	96.1%	96.3%	96.6%	96.5%	96.0%
	2022-23	Kindergarten	6,609	94.6%	95.3%	95.8%	96.1%	95.1%
	2021-22	Kindergarten	6,549	94.5%	95.1%	95.4%	96.0%	95.1%
	2020-21	Kindergarten	5,628	94.1%	94.9%	94.6%	96.0%	94.3%
	2019-20	Kindergarten	6,709	93.9%	94.5%	93.7%	95.0%	93.3%
Plumas	2022-23 2022-23	1st Grade Kindergarten	174 206	94.3% 94.2%	94.3% 94.7%	94.8% 96.6%	94.8% 97.1%	94.3% 95.6%
		Kindergarten	202	96.0%	95.5%	96.0%	96.5%	93.6%
		Kindergarten	191	93.7%	93.7%	94.8%	97.9%	93.7%
	2019-20	Kindergarten	208	96.2%	95.2%	96.6%	96.6%	93.8%
Riverside	2022-23	1st Grade	31,192	97.1%	97.6%	97.6%	98.1%	97.4%
Miverside	2022-23	Kindergarten	37,410	95.4%	96.4%	96.5%	97.3%	96.3%
	2021-22	Kindergarten	33,796	95.3%	96.2%	96.4%	97.4%	96.3%
	2020-21	Kindergarten	31,555	94.2%	95.1%	94.6%	97.1%	94.7%
	2019-20	Kindergarten	36,134	95.1%	95.7%	95.8%	96.1%	95.3%
Sacramento	2022-23	1st Grade	18,587	96.5%	97.4%	98.0%	98.0%	97.3%
	2022-23	Kindergarten	21,018	94.2%	95.8%	96.8%	97.0%	96.2%
	2021-22	Kindergarten	19,897	94.3%	95.5%	95.8%	96.5%	95.6%
	2020-21 2019-20	Kindergarten Kindergarten	19,509 21,495	93.7% 95.0%	94.6% 95.9%	94.5% 95.8%	96.3% 96.5%	94.2% 95.5%
C D!t	2019-20	1st Grade	21,495 880	98.9%	99.1%	99.0%	99.1%	98.8%
San Benito	2022-23	Kindergarten	1,071	98.0%	98.5%	98.8%	99.3%	98.6%
	2021-22	Kindergarten	983	98.0%	98.3%	98.9%	99.3%	98.8%
	2020-21	Kindergarten	991	93.8%	93.8%	93.8%	98.3%	95.8%
	2019-20	Kindergarten	1,099	97.8%	97.8%	97.4%	98.7%	97.9%

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 4: Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	НерВ 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
San Bernardino	2022-23	1st Grade	29,355	95.6%	96.1%	96.1%	96.9%	95.9%
	2022-23	Kindergarten	34,094	93.5%	94.6%	94.7%	96.1%	94.5%
	2021-22	Kindergarten	32,198	93.9%	94.8%	94.9%	96.1%	94.8%
	2020-21	Kindergarten	30,438	92.6%	93.2%	93.1%	96.2%	93.0%
	2019-20	Kindergarten	34,542	95.2%	96.0%	96.2%	97.5%	96.1%
San Diego	2022-23	1st Grade	37,321	96.2%	96.6%	96.6%	97.2%	96.4%
	2022-23	Kindergarten	45,295	94.5%	95.2%	95.3%	96.4%	95.1%
	2021-22	Kindergarten	41,632	94.7%	95.3%	95.3%	96.4%	94.9%
	2020-21		40,748	95.2%	95.6%	95.4%	96.7%	95.2%
	2019-20	U	45,956	94.5%	94.9%	94.8%	95.5%	94.4%
San Francisco	2022-23	1st Grade	5,626	98.6%	98.5%	98.7%	98.8%	98.3%
	2022-23	U	6,394	98.1%	98.2%	98.2%	98.6%	97.8%
	2021-22	Kindergarten	6,068	95.9%	96.3%	96.4%	97.0%	95.8%
		Kindergarten	6,325	94.2%	94.9%	95.1%	95.5%	94.8%
	2019-20	Kindergarten	6,963	97.3%	97.7%	97.6%	97.9%	96.9%
San Joaquin	2022-23		11,475	97.2%	97.5%	97.7%	98.2%	97.4%
		Kindergarten	12,246	95.7%	96.2%	96.4%	97.0%	96.1%
	2021-22		11,902	96.1%	96.6%	96.8%	97.8%	96.7%
	2020-21	Kindergarten	10,791	96.3%	97.3%	97.0%	98.4%	96.8%
	2019-20	Kindergarten	12,320	96.5%	97.5%	97.5%	98.5%	96.9%
San Luis Obispo	2022-23	1st Grade	2,455	97.7%	97.9%	97.8%	98.6%	97.6%
	2022-23	Kindergarten	3,072	96.0%	96.7%	96.7%	98.6%	96.8%
	2021-22	U	2,846	95.7%	96.3%	96.2%	97.8%	96.4%
	2020-21	Kindergarten	2,466	96.8%	96.8%	96.9%	98.3%	96.6%
	2019-20	Kindergarten	3,095	95.9%	96.3%	96.2%	97.2%	95.7%
San Mateo	2022-23	1st Grade	7,223	98.8%	98.9%	98.8%	98.9%	98.4%
		Kindergarten	8,281	97.8%	98.1%	98.0%	98.4%	97.4%
	2021-22	Kindergarten	8,028	97.8%	98.4%	98.2%	98.7%	97.5%
		Kindergarten	8,140	98.1%	98.5%	98.3%	99.1%	97.9%
	2019-20	Kindergarten	9,168	97.9%	98.1%	98.1%	98.6%	97.4%
Santa Barbara	2022-23		5,107	98.9%	99.0%	99.0%	99.2%	98.7%
		Kindergarten	6,531	98.2%	98.4%	98.5%	98.8%	98.3%
	2021-22 2020-21	U	6,066	97.6%	97.8%	98.0%	98.4%	97.5%
		Kindergarten	5,473	96.7%	97.4%	97.0%	98.1%	96.7%
	2019-20	Kindergarten	6,500	97.6%	98.0%	97.9%	98.2%	97.4%
Santa Clara	2022-23	1st Grade	19,266	99.1%	99.4%	99.4%	99.5%	99.1%
	2022-23 2021-22	Kindergarten	23,575 21,901	98.3%	98.8% 98.3%	98.7%	99.0% 98.7%	98.5%
	2021-22	Kindergarten	,	97.8% 97.3%	98.3%	98.1% 97.6%	98.6%	97.8% 97.1%
	2020-21	Kindergarten Kindergarten	21,759 24,963	97.5% 98.1%	98.5%	98.2%	98.8%	97.6%
	2013-20	1st Grade	2,922	94.0%	94.6%	94.8%	95.0%	94.1%
Santa Cruz		Kindergarten	3,345	91.5%	92.3%	92.5%	94.0%	91.9%
		Kindergarten	3,343	93.5%	93.3%	94.1%	94.6%	93.5%
		Kindergarten	3,097	93.3%	93.3%	94.1%	93.5%	93.5%
	2020-21	Kindergarten	3,415	93.3% 92.4%	92.4%	92.2%	93.5%	93.1%
Ch		1st Grade	2,139	94.3%	94.8%	95.0%	95.1%	94.6%
Shasta		Kindergarten	2,686	92.9%	93.7%	94.8%	95.8%	94.9%
	2022-23		2,511	91.0%	92.0%	92.6%	94.5%	92.9%
		Kindergarten	2,189	91.0%	92.3%	91.9%	94.7%	92.1%
	2019-20		2,525	93.1%	93.3%	93.8%	95.2%	92.9%
Ciarra	2013-20		30	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
Sierra	2022-23		43	≥95.0% ≥95.0%	≥95.0% ≥95.0%	≥95.0% ≥95.0%	≥95.0% ≥95.0%	≥95.0% ≥95.0%
		Kindergarten	32	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
		Kindergarten	23	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
		Kindergarten	25	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
Cickingu	2022-23		382	93.5%	94.0%	94.8%	93.7%	94.8%
Siskiyou		Kindergarten	542	93.2%	94.1%	93.7%	95.2%	93.7%
		Kindergarten	500	92.4%	93.0%	93.0%	93.8%	93.8%
		Kindergarten	463	91.1%	91.6%	90.7%	91.6%	91.8%
	2019-20		530	97.2%	97.4%	97.5%	97.7%	97.5%

Kindergarten and First Grade Immunization Assessment - California, 2022-2023 Table 4: Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	НерВ 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
Solano	2022-23	1st Grade	4,753	98.3%	98.7%	98.7%	99.1%	98.8%
	2022-23	Kindergarten	5,565	96.5%	97.8%	97.9%	98.3%	97.6%
	2021-22	Kindergarten	5,236	97.6%	98.2%	98.3%	98.7%	98.0%
	2020-21 2019-20	Kindergarten	5,036	96.4%	97.3%	96.7%	98.0%	96.5%
Sonoma	2019-20	Kindergarten 1st Grade	5,966 4,945	97.3% 95.5%	98.0% 95.7%	98.1% 95.9%	98.4% 96.1%	97.6% 95.5%
SUITUITIA	2022-23	Kindergarten	6,485	95.5%	95.7%	95.5%	95.9%	95.5% 95.1%
	2022-23	Kindergarten	5,931	94.6%	94.7%	95.0% 95.0%	95.8%	94.6%
	2021-22	Kindergarten	5,566	93.4%	93.9%	94.0%	96.1%	93.4%
	2019-20	Kindergarten	6,043	94.7%	94.8%	94.7%	95.3%	94.3%
Stanislaus	2022-23	1st Grade	7,828	96.6%	97.3%	97.5%	98.2%	97.3%
Stariisiaas	2022-23	Kindergarten	9509	95.6%	96.6%	96.8%	98.0%	96.3%
	2021-22	Kindergarten	8,707	95.3%	96.2%	96.3%	97.8%	96.1%
	2020-21	Kindergarten	8,619	95.5%	96.6%	96.2%	98.1%	95.7%
	2019-20	Kindergarten	9,366	96.7%	97.7%	97.8%	98.2%	97.6%
Sutter	2022-23	1st Grade	1,802	79.2%	79.7%	79.9%	83.6%	78.8%
	2022-23	Kindergarten	2,255	77.8%	79.0%	78.7%	83.7%	77.8%
	2021-22	Kindergarten	2,222	79.2%	80.0%	79.9%	84.4%	79.7%
	2020-21	Kindergarten	1,764	83.8%	84.6%	84.3%	88.7%	83.6%
	2019-20	Kindergarten	2,017	86.7%	87.3%	87.9%	89.8%	88.5%
Tehama	2022-23	1st Grade	808	98.6%	98.9%	99.0%	99.4%	98.4%
	2022-23	Kindergarten	929	95.0%	97.0%	96.8%	98.5%	96.1%
	2021-22	Kindergarten	962	96.0%	96.7%	97.2%	98.2%	96.4%
	2020-21	Kindergarten	838	96.1%	97.4%	97.4%	98.2%	97.3%
	2019-20	Kindergarten	1,073	95.4%	96.8%	96.6%	97.9%	95.6%
Trinity	2022-23	1st Grade	106	92.5%	91.5%	97.2%	93.4%	96.2%
	2022-23	Kindergarten	145	89.0%	89.7%	90.3%	93.8%	89.7%
	2021-22	Kindergarten	117	94.0%	93.2%	93.2%	92.3%	91.5%
	2020-21	Kindergarten	134	89.6%	89.6%	89.6%	90.3%	90.3%
Tulono	2019-20	Kindergarten	138	89.1%	87.7%	91.3%	92.0%	92.0%
Tulare	2022-23 2022-23	1st Grade	7,426 9,469	98.3%	98.6%	98.7%	99.0%	98.5% 97.4%
	2022-23	Kindergarten Kindergarten	9,469 8,542	96.7% 97.9%	97.3% 98.1%	97.7% 98.2%	98.3% 98.6%	97.4%
	2021-22	Kindergarten	8,344	97.5%	97.7%	97.8%	98.7%	97.7%
	2019-20	Kindergarten	9,535	97.3%	97.9%	97.9%	98.4%	97.7%
Tuolumne	2022-23	1st Grade	439	92.0%	91.1%	92.7%	94.1%	89.1%
	2022-23	Kindergarten	616	89.4%	90.3%	90.7%	93.5%	91.1%
	2021-22	Kindergarten	566	89.6%	92.4%	93.5%	94.5%	93.1%
	2020-21	Kindergarten	474	89.0%	90.1%	91.8%	92.8%	90.5%
	2019-20	Kindergarten	584	92.6%	93.8%	93.7%	95.0%	93.5%
Ventura	2022-23	1st Grade	9,221	97.6%	97.8%	97.8%	98.3%	97.5%
	2022-23	Kindergarten	12,137	96.4%	97.0%	96.9%	98.2%	96.5%
		Kindergarten	10,540	96.6%	97.1%	97.1%	98.0%	96.8%
		Kindergarten	10,410	96.3%	96.5%	96.6%	97.6%	96.4%
	2019-20	Kindergarten	11,466	96.9%	97.3%	97.3%	98.0%	96.7%
Yolo	2022-23	1st Grade	2,375	96.5%	96.8%	97.2%	97.5%	96.8%
		Kindergarten	2,893	95.1%	96.1%	96.4%	97.1%	96.0%
	2021-22	Kindergarten	2,746	95.4%	96.2%	95.8%	96.8%	95.5%
	2020-21	Kindergarten	2,535	94.6%	95.2%	95.3%	96.6%	95.2%
Viiha	2019-20	Kindergarten	2,959	96.1%	96.3%	96.6%	97.5%	96.0%
Yuba		1st Grade	1,255	96.6%	95.9%	96.8%	96.6%	96.7%
	2022-23	Kindergarten	1,561	92.5%	93.2%	93.8%	94.2%	93.3%
	2021-22	Kindergarten	1,372	92.7%	93.7%	93.2%	95.0%	93.4%
	2020-21	Kindergarten	1,154	93.0%	94.6%	93.9%	96.6%	91.7%
	2019-20	Kindergarten	1,361	95.2%	96.0%	95.6%	96.8%	95.4%
	2019-20	Kindergarten	1,361	95.2%	96.0%	95.6%	96.8%	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 \geq 95%; 50-99 enrollees, values of 98% or higher are listed as \geq 99%.

^{**} Schools did not report.