

2019-2020 7th Grade 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 align with longstanding national recommendations, starting in 2019 students entering 7th grade in California have been required to receive two doses 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 was 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 over the last few years. The proportion of students attending 7th grade in 2019-2020 reported to have received the tetanus, diphtheria and pertussis (Tdap) booster immunization was 97.3%, a 0.1 percentage point decrease from the 2018-2019 school year, a 1.1 percentage point decrease from the 2016-2017 school year, and a 0.8 percentage point increase over six years since 2013-2014.

Regarding the ongoing requirement for Tdap immunization, compared to 2018-2019, in 2019-2020 the proportion of 7th graders reported as:

- Lacking immunization for other reasons specified under SB 277 increased from 1.4% to 1.5%, with 1.0% reported as being enrolled in independent study programs.
- Having permanent medical exemptions remained at 0.4%.
- Conditional entrants because of a temporary medical exemption remained at 0.1%.
- Being overdue for immunization increased from 0.6% to 0.7%.

Regarding the new requirement for a second dose of Varicella vaccine, 97.1% of students were reported in 2019-2020 as having received two doses. The proportion of 7th graders in 2019-2020 reported as:

- Lacking immunization for other reasons specified under SB 277 was 1.0%, with 0.7% reported as being enrolled in independent study programs.
- Having permanent medical exemption was 0.9%, of which 0.4% were associated with a history of varicella disease.
- Conditional entrants was 0.1% or overdue was 0.7%, the same values as for Tdap immunization.

Because of SB 277, the proportion of 7th graders reported with PBEs for Tdap has remained at 0.0% since 2016-2017. Previously during measures specified in AB 2109, the rate of PBEs had decreased from 3.3% in 2013-2014 to 1.7% 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. The effects on the issuance of medical exemptions from legislation signed in 2019, SB 277 and SB 714, will be assessable after full implementation in 2021 and future years.

2019-2020 7th Grade Immunization Assessment – Technical Notes

Introduction

Each autumn all schools with 7th grades 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 schools with 7th grades, both statewide (Table 1, Figures 1-8) and by county (Tables 2-4, Figure 8).

To align with longstanding national recommendations, starting in 2019 changes to the [California Code of Regulations](#) have required students entering 7th grade in California to receive two doses 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 was 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).

Two additional bills signed in 2019, SB 277 and SB 714, base criteria for medical exemptions to required immunizations on national standards of care. The effects of these laws on the issuance of medical exemptions will be assessable after full implementation in 2021 and future years.

Methods

During the autumn of 2019, California schools registered with the California Department of Education reported data on 7th graders in the 2019-2020 school year to the California Department of Public Health (CDPH). Based on their reported immunization status, students were classified by school staff into the following categories:

- Students immunized with required vaccines:
 - 1 or more doses of Tetanus, diphtheria and pertussis booster (Tdap) vaccine
 - 2 or more doses of Varicella vaccine ['2+ Var'].
- Conditional entrants who had a temporary medical exemption (TME) to Tdap or Varicella vaccine or were not yet due for their second dose of Varicella vaccine.
- Students with a permanent medical exemption (PME) to either Tdap or Varicella vaccine. For Varicella vaccine, PME's were further distinguished between
 - Physician (MD/DO) verification of varicella disease
 - Medical reasons other than varicella disease
- Other students lacking required 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
 - An 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.
- Students overdue for required immunizations and subject to exclusion from school until the overdue requirement has been met.

Under SB 277, personal belief exemptions (PBEs) have no longer been an option for 7th graders since the 2016-2017 school year.

Due to rounding, total 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 7th graders in California whose immunization status was reported was 519,454 in 2018-2019 and 505,017 in 2019-2020 (Table 1). The number of schools that reported was 4,749 in 2018-2019 and 4,750 in 2019-2020, and the number of schools that did not report decreased from 263 to 207 (Tables 1 and 2). The number of public schools that reported increased from 2,989 in 2018-2019 to 3,014 in 2019-2020 (Tables 1 and 2). The number of private schools that reported was 1,760 in 2018-2019 and 1,736 in 2019-2020. Private schools accounted for 7% (35,952 / 505,017) of all 7th graders about whom data was reported in 2019-2020, 37% (1,736 / 4,750) of all schools that reported data on 7th graders and 80% (165/207) of schools that did not report.

Figures 1-3 and 8 show trends for 7th grade students in all, public or private schools reported as having: been immunized with Tdap; PBEs; and PME. Figures 4-8 display for recent school years the distribution of major reporting categories for students reported from: all schools; public schools; and private schools.

Immunized with Tdap: Of 505,017 7th graders whose schools reported their status in 2019-2020, 505,017 (97.3%) have been immunized with Tdap, a decrease from the previous school year of 0.1 percentage points (difference of unrounded values) and an increase over the six school years since 2013-2014 of 0.8 percentage points (Tables 1 and 3, Figures 1 and 4). For counties reporting at least 35 students, the highest rates of at least 99% were reported in Inyo, San Benito, Monterey, and Imperial counties (Table 3).

In 2019-2020 12 (21%) counties in California reported rates of 7th graders with Tdap of less than 95% compared to 13 (22%) of 58 counties in 2019-2020 (Table 3, Figure 8). 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).

% of Pupils Reported to Receive Tdap or Varicella					% of Pupils Reported to Attend Virtual Schools*
County	Vaccine	All Schools	Classroom-Based Schools	Virtual Schools	
El Dorado	Tdap	88.8%	96.5%	27.3%	11.2%
Sutter	Tdap	82.8%	88.6%	34.3%	10.7%
	Varicella	88.0%	92.3%	51.7%	10.7%

As in past years, a higher proportion of students in public compared to private schools were reported as being immunized with Tdap (97.6% vs. 94.1%; difference of 3.5 percentage points) (Table 1, Figures 6 and 7). This gap is 0.2 percentage points larger compared with 2018-2019 (97.7% vs. 94.4%).

Immunized with Varicella vaccine: 2019-2020 was the first school year that two or more doses of Varicella vaccine has been required for 7th graders in California. 97.1% were reported as having completed a two-dose series in 2019-2020 (Table 1). For counties reporting at least 35 students, the highest rates of at least 99% were reported in San Benito, Kings, Merced, and Tulare.

In 2019-2020, 16 (28%) counties in California reported rates of 7th graders with Varicella immunization less than 95% (Table 4, Figure 9). A higher proportion of students in public compared to private schools were reported as being immunized with Varicella (97.3% vs. 94.6%; difference of 2.7 percentage points) (Table 1).

Conditional entrants: Over the last four school years, the proportion of students reported as conditional entrants because of a temporary medical exemption for Tdap immunization has remained at 0.1% (Tables 1 and 3), whether in all schools or in public schools. The proportion of 7th graders reported as conditional entrants for Varicella immunization in 2019-2020 was 0.3% (Table 1), of which 0.1% were reported as having had a temporary medical exemption and 0.3% were not yet due for their second dose.

In 2019-2020, 0.4% of 7th graders in private schools were reported as conditional entrants for Tdap, compared with 0.6% in 2018-2019, while 0.7% of 7th graders in private schools were reported as conditional entrants for Varicella.

PMEs: The percentage of students with PMEs for Tdap decreased from 0.5% in 2018-2019 to 0.4% in 2019-2020 (Tables 1 and 3, Figures 3 and 4). In public schools, the number (but not the percentage) of students reported with PMEs for Tdap decreased from 1,942 (0.4%) to 1,769 (0.4%) (Figure 6), while for private schools, the number of students decreased from 536 (1.5%) to 483 (1.3%) (Figure 7).

The proportion of students reported with PMEs for Varicella was 0.9% (Tables 1 and 4), of whom 0.4% were reported as having had physician verification of varicella disease and 0.4% were reported as having had other reasons for their exemptions (Tables 1 and 4).

Other students lacking required immunizations: The proportion of 7th graders reported to be lacking Tdap immunization 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 increased for Tdap from 1.4% in 2018-2019 to 1.5% in 2019-2020 (Tables 1 and 3, Figure 4). Children reported as being enrolled in independent study programs continue to account for most students in this category (1.0%, or 5,222) (Table 1), and for the increase compared to the previous year (0.1 of the 0.1 percentage point increase). The proportion of students in this category increased from 1.3% to 1.5% in public schools (Table 1, Figure 6), and decreased from 2.0% to 1.8% in private schools (Figure 7).

The proportion of 7th graders in this category reported to be lacking two doses of Varicella vaccine was reported as 1.0% (Tables 1 and 4, Figure 5), including 1.0% in public schools (Table 1), and 1.7% in private schools.

Nearly 70% of the number of children enrolled in independent study programs and lacking immunizations were reported from schools based in 10 counties: San Diego, Kern, Los Angeles, San Bernardino, Riverside, Sacramento, Sutter, El Dorado, Orange, and Fresno. Some of these students are enrolled in virtual schools and reside in other counties.

Overdue: The percentage of students reported as being overdue for Tdap immunization (Tables 1 and 3, Figure 4) increased from 0.6% in 2018-2019 to 0.7% in 2019-2020, including 0.5% (2,528) in public schools (Figure 6) and 2.4% (852) in private schools (Figure 7).

The percentage of students reported as being overdue for Varicella immunization (Tables 1 and 4) was 0.7%, including 0.6% (3,022) in public schools and 1.3% (468) in private schools.

Combined categories: 7th graders who are required to receive immunization are reported in three categories: having been immunized; conditional entrants; and being overdue for required doses. After rounding, the 7th graders who were reported in the sum of these three categories:

- For Tdap, decreased by 0.1 percentage points from 98.2% in 2018-2019 to 98.1% in 2019-2020.
- For Varicella vaccine was also 98.1% in 2019-2020.

Conversely, the sum of 7th graders reported as not having to receive a required vaccine because of PME or for other criteria specified in SB 277 was 1.9% in 2019-2020 for either Tdap or Varicella vaccine.

Discussion

Reported immunization rates remain at high levels but have decreased over the last three school years. The proportion of students reported to enter 7th grade in California after receiving Tdap increased by 1.8 percentage points from 96.6% to 98.4% between the four school years from 2013-2014 to 2016-2017 and further decreased by 1.1 percentage points to 97.3% in 2019-2020. The number of 7th graders (505,017) whose status was reported in 2019-2020 remains at amongst the largest numbers since the Tdap requirement began in the 2011-2012 school year.

The total proportion of 7th graders reported in 2019-2020 as exempted from required immunizations was 1.9% for both Tdap and Varicella vaccine. However, the proportion lacking required immunizations under other criteria introduced in SB 277 was 0.5% higher for Tdap than Varicella vaccine (1.5% vs. 1.0%), while the proportion with PMEs was 0.5% higher for Varicella vaccine than Tdap (0.4% vs 0.9%). The proportion of 7th graders with a PME due to a history or varicella disease (0.4%) might represent much of the difference between the two vaccines. As CDPH receives aggregate counts from each school rather than records on each student, it is not clear how many pupils with PMEs to varicella vaccine:

- Because of a history of varicella disease were also exempted from Tdap vaccine because of criteria introduced in SB 277.
- For reasons other than a history of varicella disease (0.4% of cohort) also had a PME to Tdap (0.4%)

Future assessments will continue to follow the trends for these categories.

Most 7th graders exempted from Tdap vaccine because of criteria introduced in SB 277 (1.0% of 1.5% for Tdap, 0.7% of 1.0% for Varicella vaccine) continue to be reported as being enrolled in

independent study programs, representing an increase for Tdap from 2019-2020 of 0.1 percentage points.

Adolescents categorized at the beginning of the school year as overdue entrants for Tdap represented 0.7% of 7th graders reported in 2019-2020, compared with 0.4% in both 2016-2017 and 2015-2016. Ongoing efforts to educate schools and support immunization services might reduce the number of children in this category in the future.

Adolescents who have not been immunized remain at higher risk of contracting vaccine-preventable diseases. In 2019-2020, rates of immunization less than 95% were reported for Tdap in 12 (21%) counties in California and for Varicella vaccine in 16 (28%) counties. As an additional source of vulnerability, recent changes to California's school immunization laws have not been applicable to many high school students. Ongoing efforts to further improve adolescent immunization are warranted.

Limitations

This report is subject to limitations that include:

- 207 California schools that might have had students in 7th grade, including 165 private schools and 42 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of these schools enrolled 7th graders this year or the immunization status of any 7th graders enrolled there. Local health departments continue to work with schools to increase reporting.
- As in previous years, additional 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.
- 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 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 the 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.

Figures

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Figure 9. Map: 7th Grade Students with 2 or More Doses of Varicella Vaccine, by County, 2019-2020 School Years

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Table 3. Total Enrollment and Admission Status, Tdap Vaccine, 2019-2020 and 2018-2019, by County

Table 4. Total Enrollment and Admission Status, Varicella Vaccine, by County

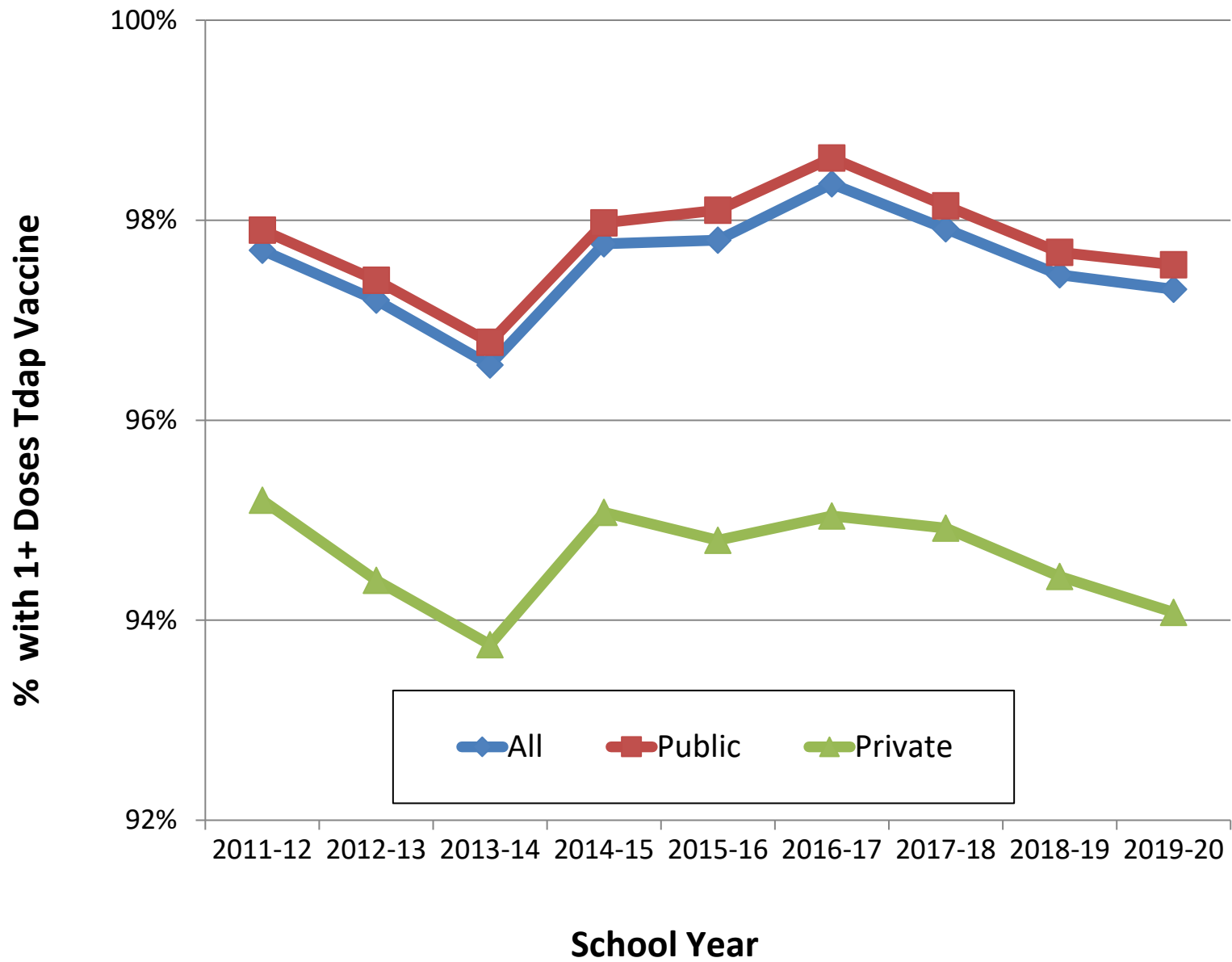


Figure 1. Percentage of 7th Grade Students with 1 or More Doses of Tdap Vaccine, by School Type and School Year, 2011-2012 to 2019-2020

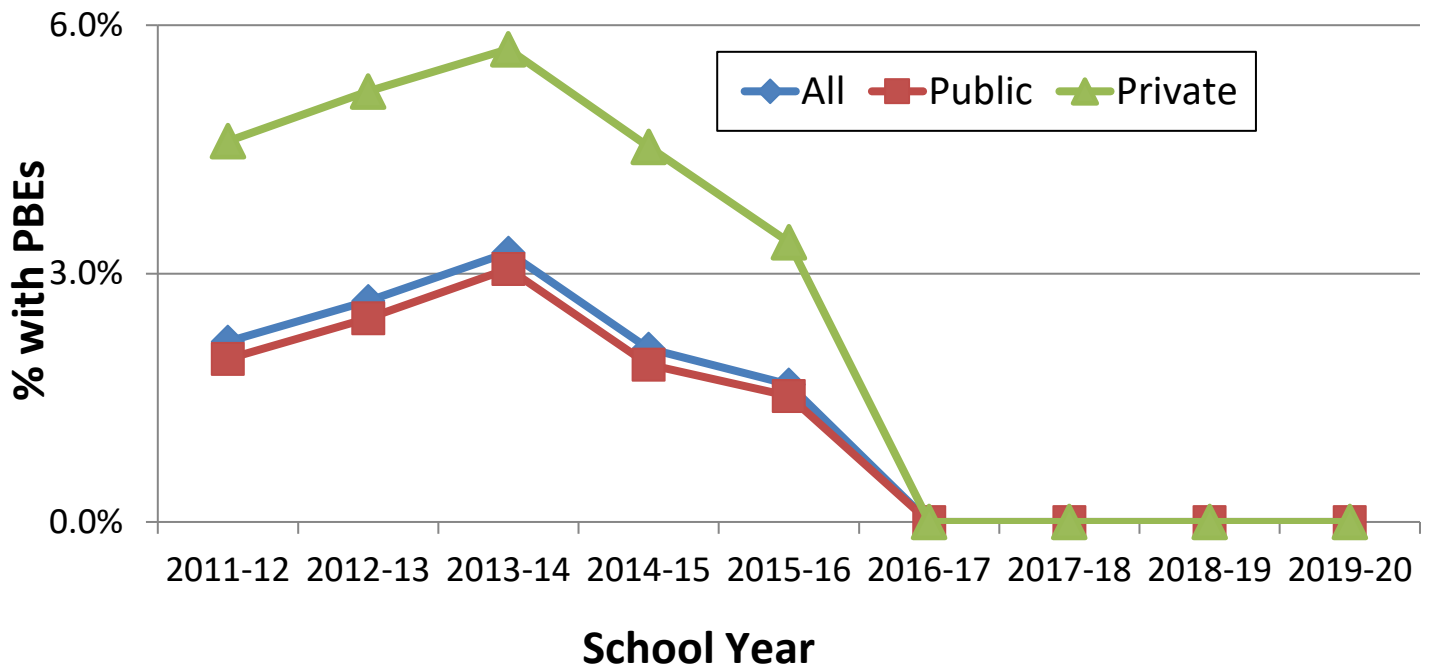


Figure 2. Percentage of 7th Grade Students with Personal Beliefs Exemptions (PBEs) to 1 or More Doses of Tdap Vaccine, by School Type and School Year, 2011-2012 to 2019-2020

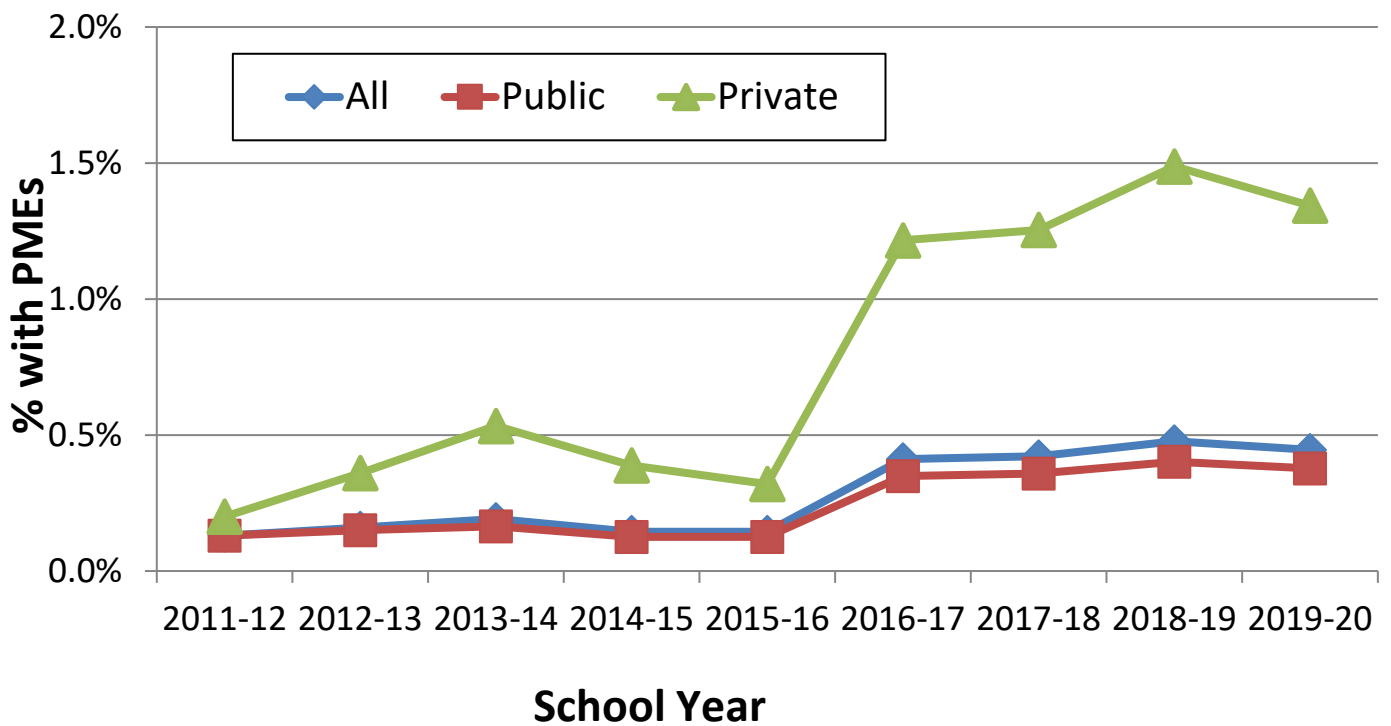
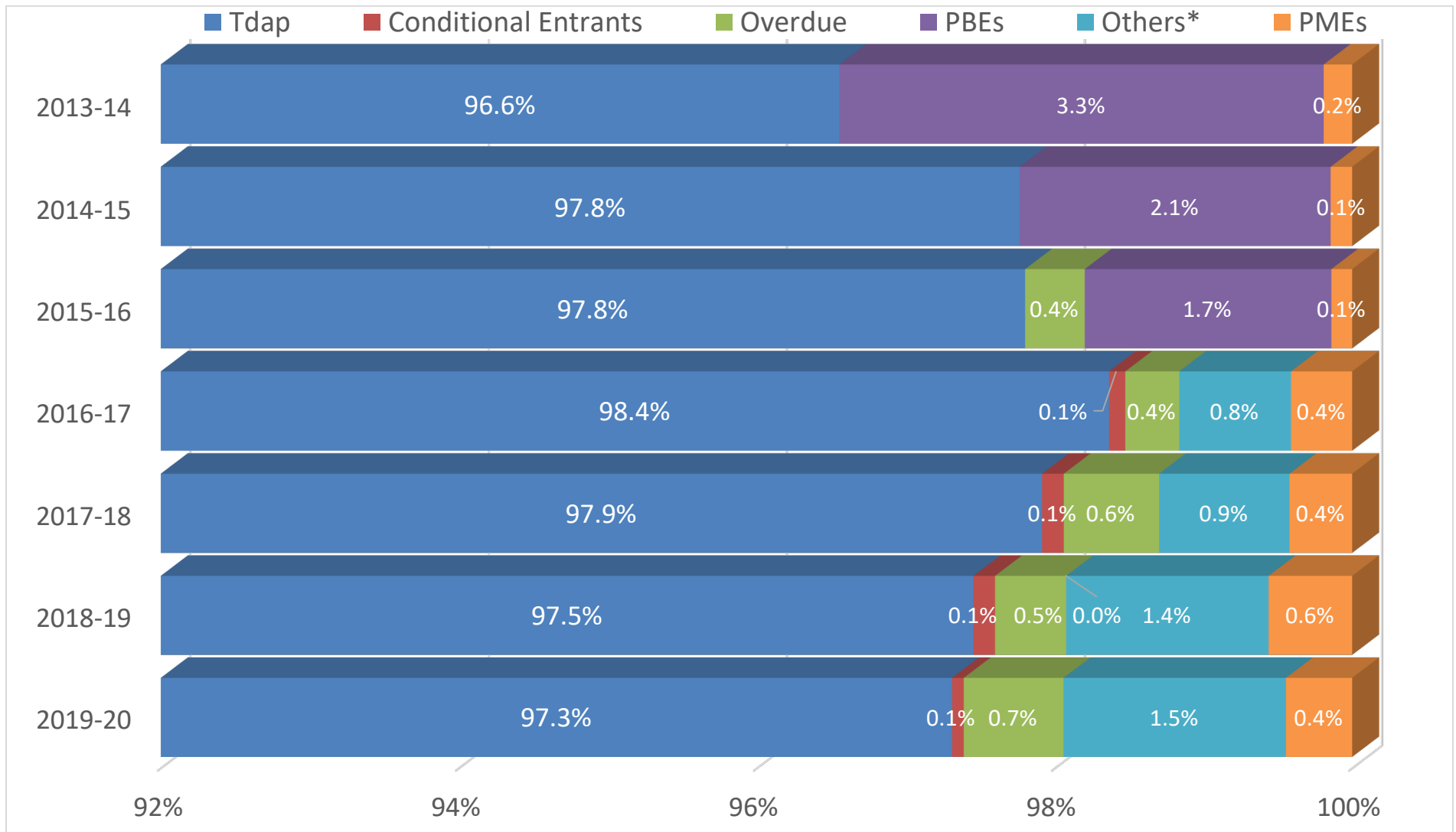


Figure 3. Percentage of 7th Grade Students with Permanent Medical Exemptions (PMEs) to 1 or More Doses of Tdap Vaccine, by School Type and School Year, 2011-2012 to 2019-2020



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

Figure 4. Percentage of All 7th Grade Students by Reported Admission Status Related to Tdap Vaccine by School Year, 2013-2014 to 2019-2020. In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. In the 2016-2017 school year and forward, entrants have been subject to SB 277.

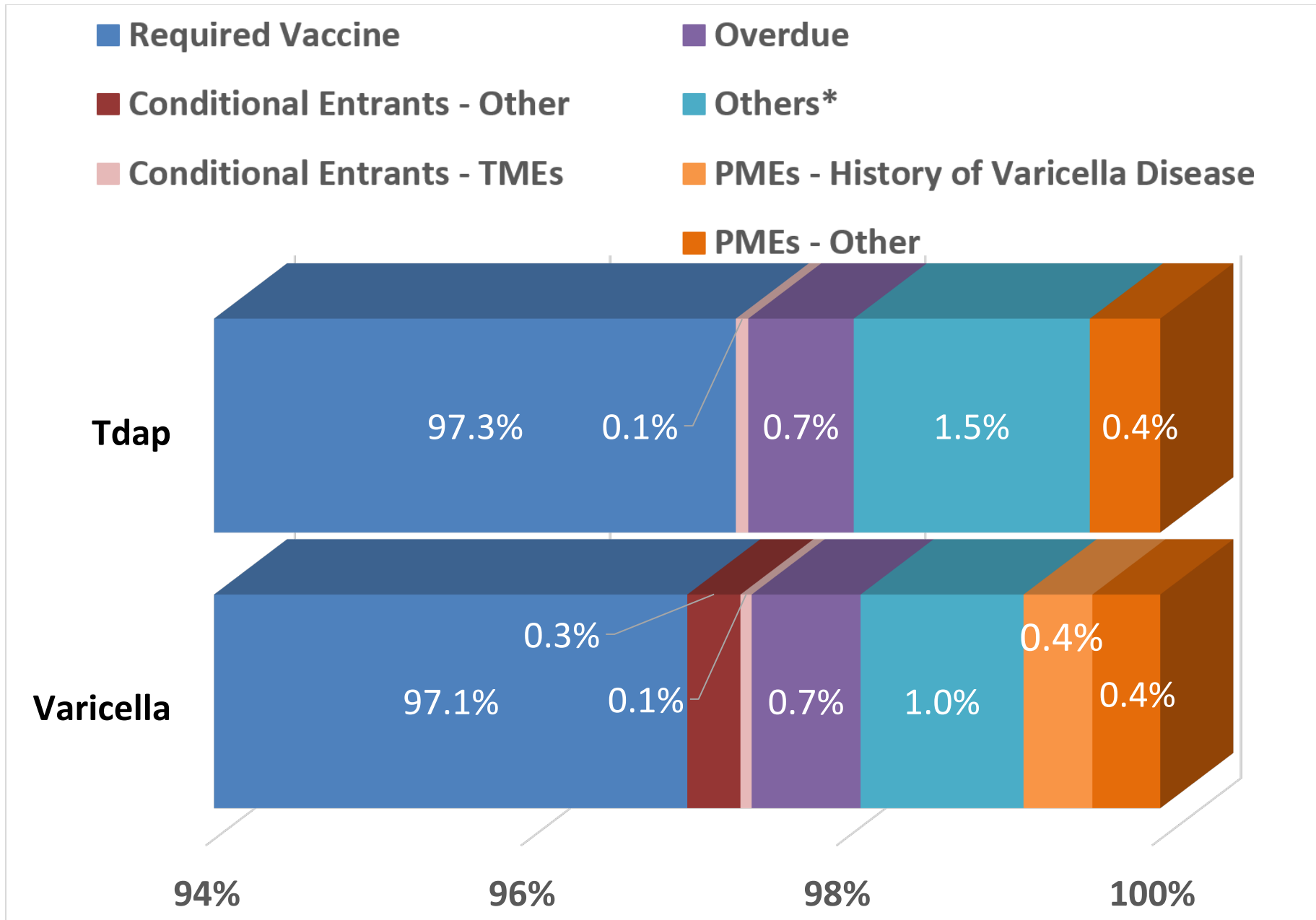
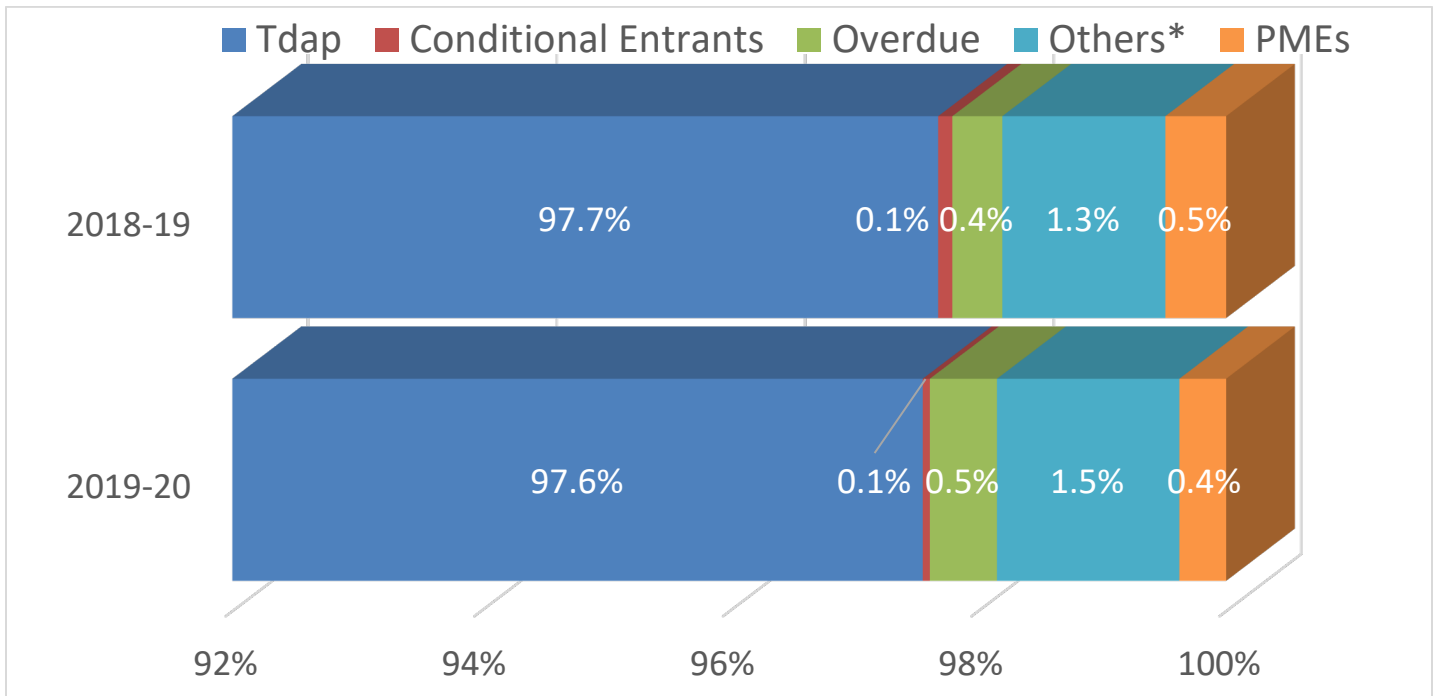
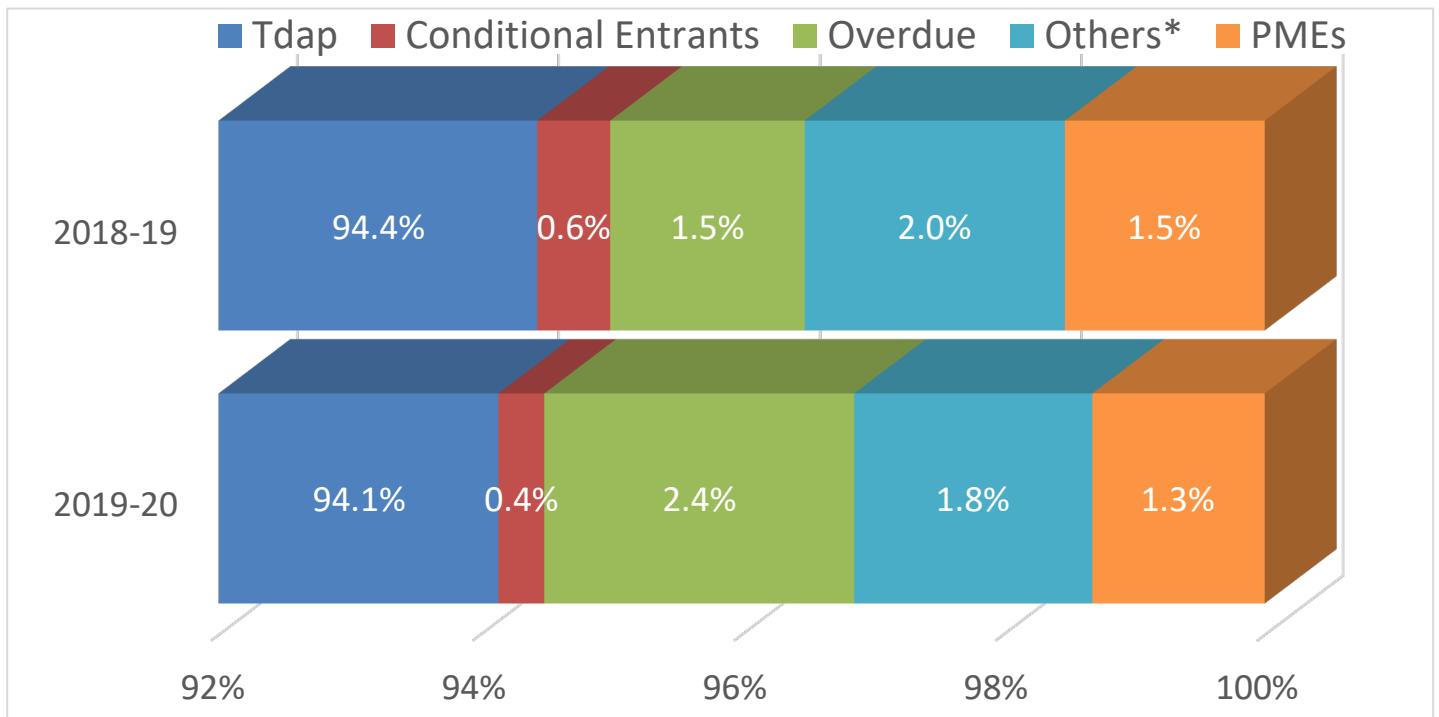


Figure 5. Percentage of All 7th Grade Students by Reported Admission Status by School Year, Tdap and Varicella Vaccine, 2019-2020



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

Figure 6. Percentage of Public School 7th Grade Students with 1 or More Doses of Tdap Vaccine, by Reported Admission Status by School Year, 2018-2019 and 2019-2020



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

Figure 7. Percentage of Private School 7th Grade Students with 1 or More Doses of Tdap Vaccine, by Reported Admission Status by School Year, 2018-2019 and 2019-2020

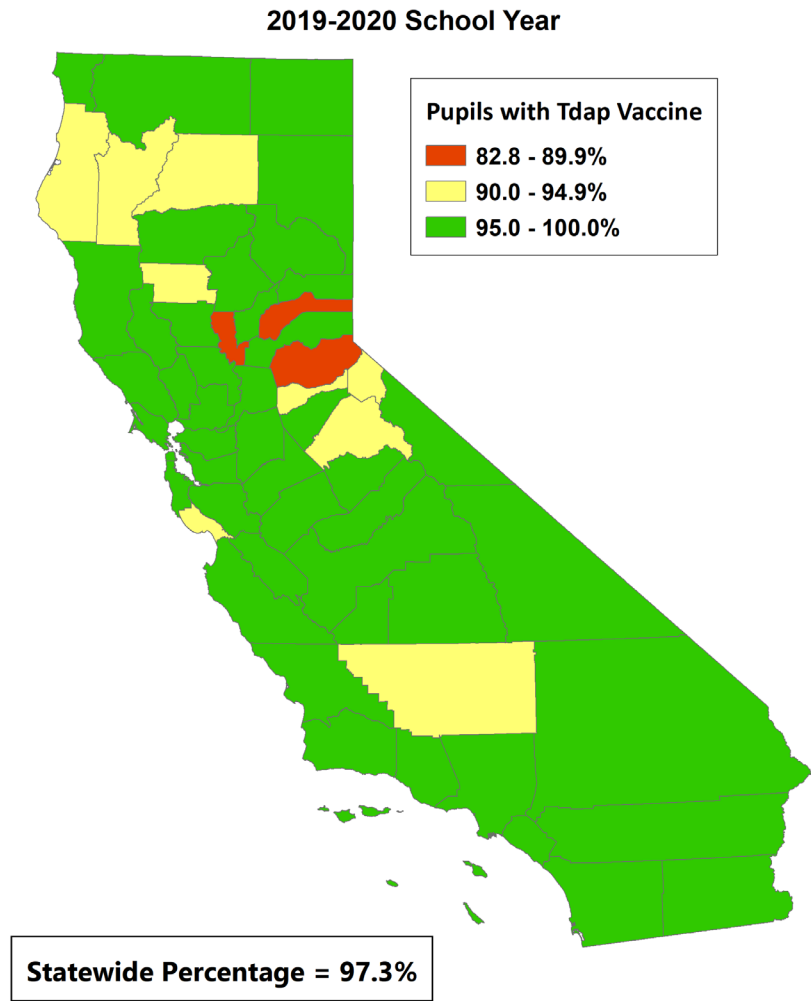
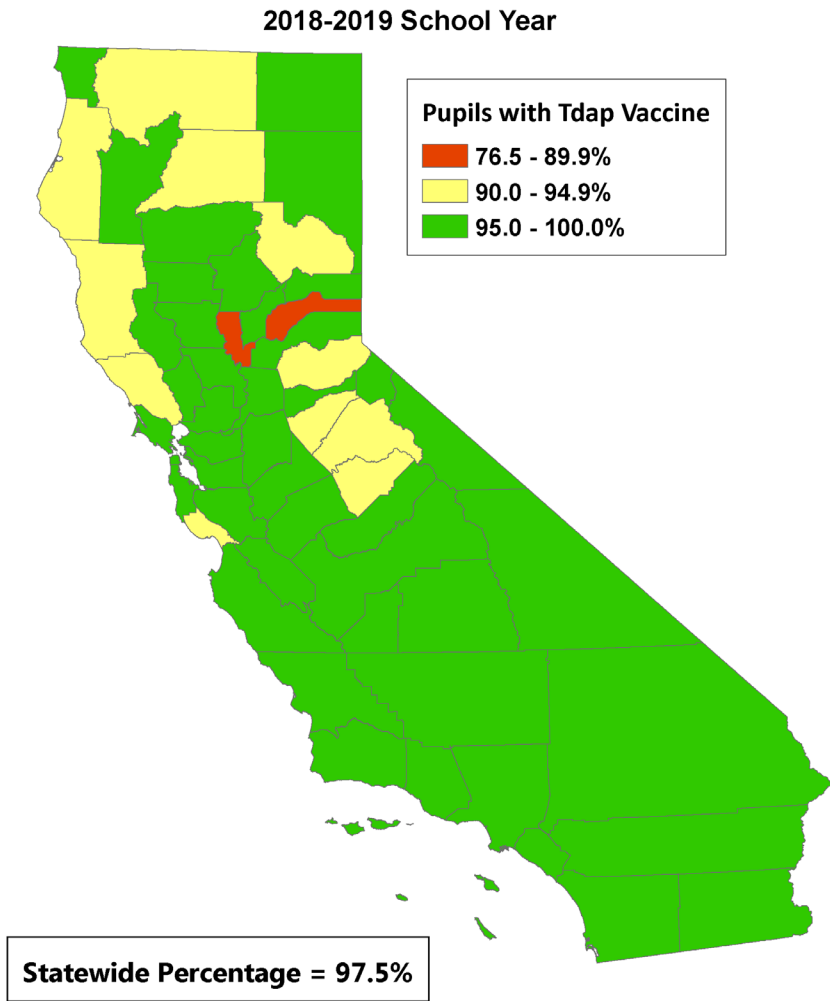


Figure 8. 7th Grade Students with 1 or More Doses of Tdap Vaccine, by County, 2018-2019 and 2019-2020 School Years

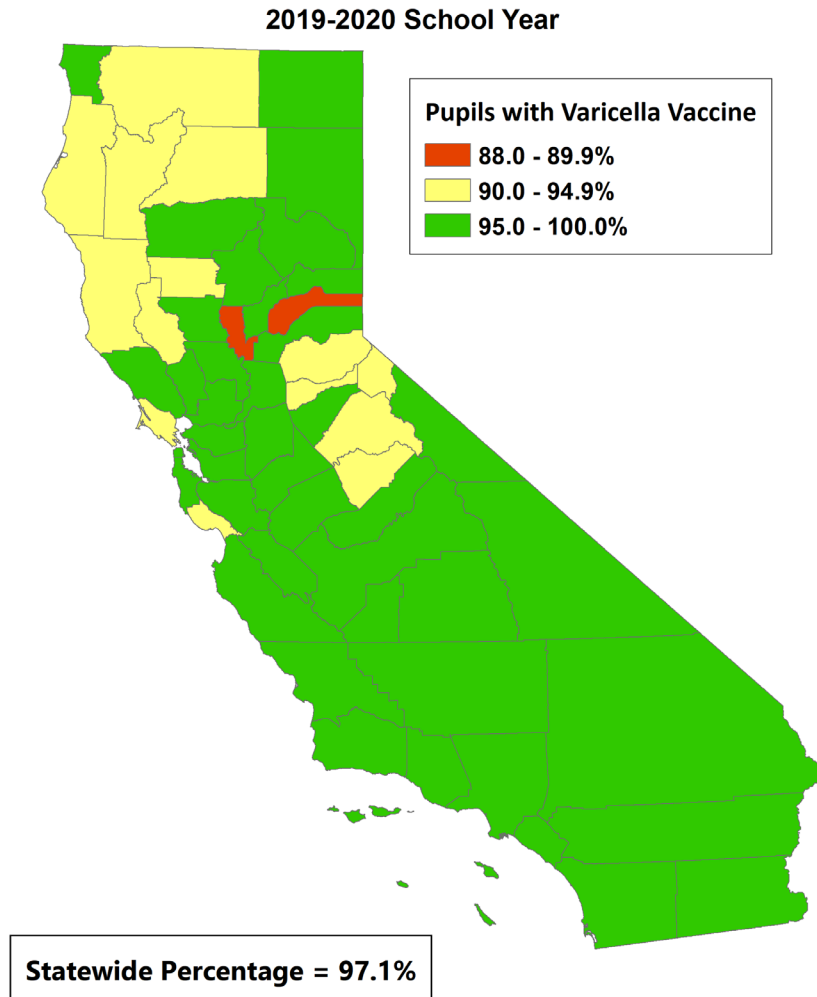


Figure 9. 7th Grade Students with 2 or More Doses of Varicella Vaccine, by County, 2019-2020 School Year

Table 1. 7th Grade 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	4,750	3,014	1,736	4,749	2,989	1,760			
Number of Students	505,017	469,065	35,952	519,454	483,429	36,025			
Received Tdap*	97.3%	97.6%	94.1%	97.5%	97.7%	94.4%	-0.1%	-0.1%	-0.4%
Conditional Entrants for Tdap	0.1%	0.1%	0.4%	0.1%	0.1%	0.6%	-0.1%	-0.1%	-0.2%
Permanent Medical Exemptions for Tdap	0.4%	0.4%	1.3%	0.5%	0.4%	1.5%	0.0%	0.0%	-0.1%
Personal Belief Exemptions for Tdap	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking Tdap	1.5%	1.5%	1.8%	1.4%	1.3%	2.0%	0.1%	0.2%	-0.1%
<i>Independent Study</i>	1.0%	1.1%	0.1%	1.0%	1.0%	0.0%	0.1%	0.1%	0.1%
<i>IEP Services</i>	0.3%	0.3%	0.5%	0.3%	0.3%	0.6%	0.0%	0.1%	-0.1%
<i>Home-Based Private</i>	0.1%	0.0%	1.3%	0.1%	0.0%	1.4%	0.0%	0.0%	-0.1%
Overdue for Tdap Vaccine	0.7%	0.5%	2.4%	0.6%	0.5%	1.5%	0.1%	0.0%	0.8%
Received 2+ Varicella**	97.1%	97.3%	94.6%						
Conditional Entrants for Varicella	0.3%	0.3%	0.7%						
Permanent Medical Exemptions for Varicella	0.9%	0.8%	1.8%						
<i>Medical Reason Other Than Varicella</i>	0.4%	0.4%	1.3%						
<i>MD/DO Verification of Varicella Disease</i>	0.4%	0.4%	0.5%						
Personal Belief Exemptions for Varicella	0.0%	0.0%	0.0%						
Others Lacking Varicella†	1.0%	1.0%	1.7%						
<i>Independent Study</i>	0.7%	0.7%	0.1%						
<i>IEP Services</i>	0.2%	0.2%	0.4%						
<i>Home-Based Private</i>	0.1%	0.0%	1.3%						
Overdue for 2 Doses of Varicella Vaccine	0.7%	0.6%	1.3%						

* Received pertussis-containing immunization on or after 7th birthday.

** Received 2 doses of varicella vaccine

7TH GRADE ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING
 BY COUNTY AND SCHOOL 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	4,957	4,750	95.8%	3,056	3,014	98.6%	1,901	1,736	91.3%
COUNTY									
ALAMEDA	184	182	98.9%	106	106	100.0%	78	76	97.4%
ALPINE	1	1	100.0%	1	1	100.0%	0	0	0.0%
AMADOR	3	3	100.0%	2	2	100.0%	1	1	100.0%
BUTTE	47	45	95.7%	38	37	97.4%	9	8	88.9%
CALAVERAS	9	5	55.6%	5	5	100.0%	4	0	0.0%
COLUSA	6	6	100.0%	5	5	100.0%	1	1	100.0%
CONTRA COSTA	151	138	91.4%	77	76	98.7%	74	62	83.8%
DEL NORTE	8	7	87.5%	6	6	100.0%	2	1	50.0%
EL DORADO	38	38	100.0%	26	26	100.0%	12	12	100.0%
FRESNO	113	113	100.0%	91	91	100.0%	22	22	100.0%
GLENN	14	14	100.0%	12	12	100.0%	2	2	100.0%
HUMBOLDT	50	50	100.0%	45	45	100.0%	5	5	100.0%
IMPERIAL	30	27	90.0%	22	22	100.0%	8	5	62.5%
INYO	8	7	87.5%	6	6	100.0%	2	1	50.0%
KERN	108	108	100.0%	84	84	100.0%	24	24	100.0%
KINGS	30	29	96.7%	24	24	100.0%	6	5	83.3%
LAKE	23	19	82.6%	17	16	94.1%	6	3	50.0%
LASSEN	12	12	100.0%	12	12	100.0%	0	0	0.0%
LOS ANGELES	1,117	1,011	90.5%	587	567	96.6%	530	444	83.8%
MADERA	34	28	82.4%	30	26	86.7%	4	2	50.0%
MARIN	52	51	98.1%	23	23	100.0%	29	28	96.6%
MARIPOSA	9	8	88.9%	8	8	100.0%	1	0	0.0%
MENDOCINO	27	24	88.9%	23	20	87.0%	4	4	100.0%
MERCED	48	39	81.3%	34	30	88.2%	14	9	64.3%
MODOC	4	4	100.0%	4	4	100.0%	0	0	0.0%
MONO	5	5	100.0%	4	4	100.0%	1	1	100.0%
MONTEREY	52	52	100.0%	36	36	100.0%	16	16	100.0%
NAPA	24	24	100.0%	11	11	100.0%	13	13	100.0%
NEVADA	24	24	100.0%	18	18	100.0%	6	6	100.0%

7TH GRADE ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING
 BY COUNTY AND SCHOOL 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	4,957	4,750	95.8%	3,056	3,014	98.6%	1,901	1,736	91.3%
COUNTY									
ORANGE	292	292	100.0%	135	135	100.0%	157	157	100.0%
PLACER	59	59	100.0%	44	44	100.0%	15	15	100.0%
PLUMAS	7	7	100.0%	5	5	100.0%	2	2	100.0%
RIVERSIDE	207	196	94.7%	132	132	100.0%	75	64	85.3%
SACRAMENTO	178	178	100.0%	115	115	100.0%	63	63	100.0%
SAN BENITO	20	20	100.0%	15	15	100.0%	5	5	100.0%
SAN BERNARDINO	220	220	100.0%	147	147	100.0%	73	73	100.0%
SAN DIEGO	378	378	100.0%	241	241	100.0%	137	137	100.0%
SAN FRANCISCO	104	101	97.1%	28	28	100.0%	76	73	96.1%
SAN JOAQUIN	159	159	100.0%	135	135	100.0%	24	24	100.0%
SAN LUIS OBISPO	33	33	100.0%	20	20	100.0%	13	13	100.0%
SAN MATEO	105	105	100.0%	50	50	100.0%	55	55	100.0%
SANTA BARBARA	61	61	100.0%	35	35	100.0%	26	26	100.0%
SANTA CLARA	217	217	100.0%	104	104	100.0%	113	113	100.0%
SANTA CRUZ	47	42	89.4%	26	25	96.2%	21	17	81.0%
SHASTA	68	68	100.0%	54	54	100.0%	14	14	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	55	46	83.6%	34	34	100.0%	21	12	57.1%
SONOMA	88	80	90.9%	57	54	94.7%	31	26	83.9%
STANISLAUS	70	70	100.0%	53	53	100.0%	17	17	100.0%
SUTTER	30	30	100.0%	26	26	100.0%	4	4	100.0%
TEHAMA	29	24	82.8%	24	22	91.7%	5	2	40.0%
TRINITY	8	8	100.0%	8	8	100.0%	0	0	0.0%
TULARE	95	89	93.7%	79	77	97.5%	16	12	75.0%
TUOLUMNE	17	16	94.1%	12	12	100.0%	5	4	80.0%
VENTURA	106	105	99.1%	60	60	100.0%	46	45	97.8%
YOLO	29	29	100.0%	21	21	100.0%	8	8	100.0%
YUBA	15	14	93.3%	13	13	100.0%	2	1	50.0%

7TH GRADE IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS, TDAP VACCINE, 2019-2020 AND 2018-2019, BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	ENTRANTS WITH TDAP VACCINE	CONDITIONAL ENTRANTS	ENTRANTS WITH PME	OTHERS LACKING TDAP VACCINE†	OVERDUE FOR TDAP VACCINE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	505,017	97.3%	0.1%	0.4%	1.5%	0.7%
	2018-19	519,454	97.5%	0.1%	0.5%	1.4%	0.6%
ALAMEDA	2019-20	18,849	98.0%	0.1%	0.3%	0.2%	1.5%
	2018-19	19,471	98.2%	0.1%	0.2%	0.4%	1.0%
ALPINE	2019-20	<35*	--*	--*	--*	--*	--*
	2018-19	<35*	--*	--*	--*	--*	--*
AMADOR	2019-20	325	94.2%	0.0%	1.8%	3.4%	0.6%
	2018-19	341	95.6%	0.6%	1.2%	1.2%	1.5%
BUTTE	2019-20	2,396	97.3%	0.2%	0.6%	1.3%	0.6%
	2018-19	2,617	96.5%	0.2%	0.9%	1.8%	0.5%
CALAVERAS	2019-20	403	95.0%	0.0%	1.5%	2.7%	0.7%
	2018-19	415	92.0%	0.7%	0.7%	5.8%	0.7%
COLUSA	2019-20	394	98.5%	0.0%	0.0%	0.0%	1.5%
	2018-19	399	98.5%	0.0%	0.0%	0.0%	1.5%
CONTRA COSTA	2019-20	14,765	98.3%	0.0%	0.3%	0.5%	0.8%
	2018-19	15,330	98.7%	0.2%	0.3%	0.6%	0.3%
DEL NORTE	2019-20	331	97.3%	0.0%	0.0%	0.3%	2.4%
	2018-19	351	97.7%	0.0%	0.6%	1.7%	0.0%
EL DORADO	2019-20	2,644	88.8%	0.7%	1.5%	8.9%	0.2%
	2018-19	2,392	94.3%	0.6%	1.4%	3.6%	0.2%
FRESNO	2019-20	15,839	98.3%	0.0%	0.1%	1.3%	0.2%
	2018-19	16,432	98.1%	0.1%	0.3%	1.1%	0.4%
GLENN	2019-20	442	94.3%	0.0%	0.0%	5.0%	0.7%
	2018-19	504	99.0%	0.0%	0.4%	0.0%	0.6%
HUMBOLDT	2019-20	1,380	90.7%	0.7%	3.2%	1.5%	3.9%
	2018-19	1,455	93.7%	0.3%	2.8%	0.8%	2.3%
IMPERIAL	2019-20	2,935	99.1%	0.1%	0.0%	0.2%	0.5%
	2018-19	3,092	99.1%	0.1%	0.3%	0.1%	0.4%
INYO	2019-20	213	98.6%	0.0%	0.9%	0.5%	0.0%
	2018-19	236	≥99.5%	≤0.5%	0.0%	0.0%	0.0%
KERN	2019-20	15,219	94.0%	0.0%	0.2%	5.2%	0.5%
	2018-19	15,588	96.1%	0.0%	0.2%	3.2%	0.4%

† 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 Tdap immunization.

* County reporting fewer than 35 children in 7th grade.

7TH GRADE IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS, TDAP VACCINE, 2019-2020 AND 2018-2019, BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	ENTRANTS WITH TDAP VACCINE	CONDITIONAL ENTRANTS	ENTRANTS WITH PME	OTHERS LACKING TDAP VACCINE†	OVERDUE FOR TDAP VACCINE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	505,017	97.3%	0.1%	0.4%	1.5%	0.7%
	2018-19	519,454	97.5%	0.1%	0.5%	1.4%	0.6%
KINGS	2019-20	2,294	98.7%	0.2%	0.0%	1.0%	0.1%
	2018-19	2,326	99.1%	0.0%	0.1%	0.0%	0.9%
LAKE	2019-20	736	95.4%	0.1%	1.1%	2.2%	1.2%
	2018-19	750	96.5%	0.1%	0.7%	1.9%	0.8%
LASSEN	2019-20	288	95.1%	0.0%	3.8%	1.0%	0.0%
	2018-19	286	95.5%	0.0%	0.3%	2.8%	1.4%
LOS ANGELES	2019-20	119,392	98.0%	0.1%	0.3%	0.9%	0.7%
	2018-19	120,491	97.8%	0.1%	0.3%	1.2%	0.6%
MADERA	2019-20	2,014	96.9%	0.0%	0.2%	1.1%	1.7%
	2018-19	2,656	96.6%	0.0%	0.2%	0.8%	2.4%
MARIN	2019-20	3,245	97.7%	0.4%	1.3%	0.3%	0.4%
	2018-19	3,289	97.7%	0.4%	0.9%	0.2%	0.7%
MARIPOSA	2019-20	130	98.5%	0.0%	0.8%	0.8%	0.0%
	2018-19	164	90.9%	1.2%	0.6%	6.1%	1.2%
MENDOCINO	2019-20	1,039	95.0%	0.5%	1.1%	1.6%	1.8%
	2018-19	1,045	92.8%	0.5%	2.3%	2.3%	2.1%
MERCED	2019-20	4,597	98.5%	0.0%	0.1%	0.9%	0.5%
	2018-19	5,104	98.8%	0.0%	0.1%	0.8%	0.2%
MODOC	2019-20	102	96.1%	0.0%	1.0%	0.0%	2.9%
	2018-19	128	98.4%	0.0%	1.6%	0.0%	0.0%
MONO	2019-20	125	97.6%	0.0%	2.4%	0.0%	0.0%
	2018-19	145	97.9%	0.0%	1.4%	0.0%	0.7%
MONTEREY	2019-20	6,397	99.2%	0.0%	0.4%	0.2%	0.3%
	2018-19	7,016	99.5%	0.1%	0.3%	0.1%	0.1%
NAPA	2019-20	1,682	98.5%	0.0%	0.3%	0.9%	0.4%
	2018-19	1,870	97.0%	0.2%	0.5%	1.6%	0.7%
NEVADA	2019-20	842	89.2%	0.7%	5.5%	4.3%	0.4%
	2018-19	821	89.8%	1.3%	3.7%	4.9%	0.4%
ORANGE	2019-20	39,699	97.9%	0.1%	0.5%	1.0%	0.5%
	2018-19	41,320	98.2%	0.2%	0.6%	0.7%	0.3%

† 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 Tdap immunization.

* County reporting fewer than 35 children in 7th grade.

7TH GRADE IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS, TDAP VACCINE, 2019-2020 AND 2018-2019, BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	ENTRANTS WITH TDAP VACCINE	CONDITIONAL ENTRANTS	ENTRANTS WITH PME	OTHERS LACKING TDAP VACCINE†	OVERDUE FOR TDAP VACCINE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	505,017	97.3%	0.1%	0.4%	1.5%	0.7%
	2018-19	519,454	97.5%	0.1%	0.5%	1.4%	0.6%
PLACER	2019-20	5,990	95.9%	0.1%	1.4%	2.0%	0.6%
	2018-19	6,145	96.2%	0.3%	1.4%	1.4%	0.7%
PLUMAS	2019-20	197	98.0%	0.0%	1.0%	1.0%	0.0%
	2018-19	180	94.4%	1.1%	2.8%	1.1%	0.6%
RIVERSIDE	2019-20	35,413	97.6%	0.0%	0.3%	1.5%	0.5%
	2018-19	35,923	98.7%	0.1%	0.4%	0.5%	0.4%
SACRAMENTO	2019-20	19,967	96.9%	0.1%	0.6%	2.1%	0.4%
	2018-19	20,558	96.5%	0.2%	0.7%	2.1%	0.5%
SAN BENITO	2019-20	955	99.7%	0.0%	0.2%	0.1%	0.0%
	2018-19	986	99.6%	0.0%	0.2%	0.0%	0.2%
SAN BERNARDINO	2019-20	32,605	96.6%	0.0%	0.2%	2.4%	0.8%
	2018-19	33,380	96.9%	0.0%	0.2%	2.1%	0.8%
SAN DIEGO	2019-20	41,159	96.2%	0.1%	0.7%	2.8%	0.2%
	2018-19	42,454	96.0%	0.1%	0.9%	2.6%	0.5%
SAN FRANCISCO	2019-20	6,118	96.7%	0.1%	0.3%	0.5%	2.4%
	2018-19	6,076	96.8%	0.1%	0.2%	0.4%	2.5%
SAN JOAQUIN	2019-20	12,155	97.6%	0.0%	0.2%	1.6%	0.5%
	2018-19	12,541	98.1%	0.1%	0.2%	1.0%	0.6%
SAN LUIS OBISPO	2019-20	3,151	97.3%	0.0%	1.0%	1.0%	0.7%
	2018-19	3,056	97.6%	0.1%	1.2%	0.9%	0.1%
SAN MATEO	2019-20	8,234	97.8%	0.1%	0.3%	0.5%	1.3%
	2018-19	8,618	98.4%	0.2%	0.3%	0.0%	1.0%
SANTA BARBARA	2019-20	5,670	98.1%	0.1%	0.9%	0.7%	0.2%
	2018-19	5,733	98.2%	0.2%	0.7%	0.8%	0.1%
SANTA CLARA	2019-20	22,852	98.7%	0.1%	0.3%	0.3%	0.6%
	2018-19	24,120	98.9%	0.2%	0.4%	0.2%	0.4%
SANTA CRUZ	2019-20	3,539	91.5%	0.0%	1.5%	6.3%	0.7%
	2018-19	3,620	91.6%	0.3%	1.4%	6.0%	0.7%
SHASTA	2019-20	2,130	93.3%	0.4%	1.7%	3.5%	1.0%
	2018-19	2,260	91.6%	0.8%	1.5%	5.1%	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 Tdap immunization.

* County reporting fewer than 35 children in 7th grade.

7TH GRADE IMMUNIZATION ASSESSMENT - CALIFORNIA, 2019-2020

TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS, TDAP VACCINE, 2019-2020 AND 2018-2019, BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	ENTRANTS WITH TDAP VACCINE	CONDITIONAL ENTRANTS	ENTRANTS WITH PME	OTHERS LACKING TDAP VACCINE†	OVERDUE FOR TDAP VACCINE^
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2019-20	505,017	97.3%	0.1%	0.4%	1.5%	0.7%
	2018-19	519,454	97.5%	0.1%	0.5%	1.4%	0.6%
SIERRA	2019-20	<35*	--*	--*	--*	--*	--*
	2018-19	<35*	--*	--*	--*	--*	--*
SISKIYOU	2019-20	499	96.8%	0.2%	0.6%	1.6%	0.8%
	2018-19	491	92.1%	1.2%	0.6%	5.1%	1.0%
SOLANO	2019-20	5,130	98.8%	0.0%	0.4%	0.1%	0.6%
	2018-19	5,169	99.4%	0.0%	0.2%	0.3%	0.1%
SONOMA	2019-20	5,422	95.9%	0.2%	1.4%	1.6%	0.9%
	2018-19	5,794	94.5%	0.3%	1.5%	2.1%	1.6%
STANISLAUS	2019-20	8,837	97.6%	0.0%	0.4%	0.3%	1.6%
	2018-19	9,003	97.5%	0.1%	0.3%	1.8%	0.3%
SUTTER	2019-20	1,927	82.8%	0.0%	0.4%	16.7%	0.2%
	2018-19	2,039	76.5%	0.1%	0.1%	20.8%	2.5%
TEHAMA	2019-20	870	98.0%	0.0%	0.7%	0.2%	1.0%
	2018-19	928	95.3%	0.3%	1.6%	1.0%	1.8%
TRINITY	2019-20	115	92.2%	0.0%	4.3%	2.6%	0.9%
	2018-19	164	95.7%	0.0%	4.3%	0.0%	0.0%
TULARE	2019-20	8,232	98.2%	0.0%	0.6%	0.9%	0.2%
	2018-19	8,183	99.3%	0.0%	0.1%	0.6%	0.0%
TUOLUMNE	2019-20	481	93.8%	0.2%	1.5%	3.3%	1.2%
	2018-19	543	90.6%	1.7%	1.7%	4.4%	1.7%
VENTURA	2019-20	11,004	97.0%	0.2%	0.8%	1.2%	0.8%
	2018-19	11,685	97.6%	0.1%	0.6%	1.3%	0.3%
YOLO	2019-20	2,416	96.9%	0.1%	0.7%	0.6%	1.7%
	2018-19	2,591	97.6%	1.4%	0.8%	0.1%	0.2%
YUBA	2019-20	1,194	96.9%	0.0%	0.2%	1.6%	1.3%
	2018-19	1,133	96.7%	0.0%	0.4%	1.9%	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 Tdap immunization.

* County reporting fewer than 35 children in 7th grade.

7TH GRADE ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, VARICELLA VACCINE,
 BY COUNTY

	TOTAL STUDENTS	ENTRANTS WITH VARICELLA VACCINE	CONDITIONAL ENTRANTS TO VARICELLA VACCINE	ENTRANTS WITH PME TO VARICELLA	OTHERS LACKING VARICELLA VACCINE†	OVERDUE FOR VARICELLA VACCINE^
	NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	505,026	97.1%	0.3%	0.9%	1.0%	0.7%
COUNTY						
ALAMEDA	18,849	97.1%	0.3%	0.7%	0.1%	1.8%
ALPINE	<35*	--*	--*	--*	--*	--*
AMADOR	325	92.3%	1.8%	2.2%	3.7%	0.0%
BUTTE	2,396	97.1%	0.5%	1.0%	0.7%	0.8%
CALAVERAS	403	97.0%	0.0%	1.5%	1.0%	0.5%
COLUSA	394	96.7%	0.0%	0.8%	0.0%	2.5%
CONTRA COSTA	14,765	97.9%	0.3%	0.9%	0.4%	0.5%
DEL NORTE	331	97.6%	0.3%	0.0%	0.3%	1.8%
EL DORADO	2,644	91.7%	0.8%	1.6%	5.4%	0.5%
FRESNO	15,839	98.5%	0.2%	0.4%	0.7%	0.2%
GLENN	442	94.8%	0.2%	0.5%	3.8%	0.7%
HUMBOLDT	1,380	92.5%	1.7%	3.4%	0.7%	1.7%
IMPERIAL	2,935	98.2%	0.5%	0.3%	0.1%	0.9%
INYO	213	97.2%	0.5%	1.9%	0.5%	0.0%
KERN	15,219	95.4%	0.2%	0.4%	3.5%	0.5%
KINGS	2,294	99.4%	0.2%	0.0%	0.3%	0.1%
LAKE	736	94.8%	0.7%	2.2%	1.0%	1.4%
LASSEN	288	95.1%	0.0%	4.2%	0.7%	0.0%
LOS ANGELES	119,392	97.4%	0.3%	0.7%	0.7%	0.9%
MADERA	2,014	97.4%	0.1%	0.3%	0.7%	1.4%
MARIN	3,245	94.9%	1.1%	3.3%	0.3%	0.4%
MARIPOSA	130	94.6%	3.1%	1.5%	0.8%	0.0%
MENDOCINO	1,039	94.1%	1.1%	1.6%	1.3%	1.9%
MERCED	4,597	99.1%	0.3%	0.2%	0.2%	0.2%
MODOC	102	96.1%	1.0%	1.0%	0.0%	2.0%
MONO	125	97.6%	0.0%	2.4%	0.0%	0.0%
MONTEREY	6,397	98.6%	0.3%	0.7%	0.1%	0.4%
NAPA	1,682	97.3%	0.2%	1.2%	1.0%	0.3%
NEVADA	842	88.6%	1.5%	6.3%	3.0%	0.6%

† 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 Varicella vaccine.

* County reporting fewer than 35 children in 7th grade.

7TH GRADE ASSESSMENT - CALIFORNIA, 2019-2020
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, VARICELLA VACCINE,
 BY COUNTY

	TOTAL STUDENTS	ENTRANTS WITH VARICELLA VACCINE	CONDITIONAL ENTRANTS TO VARICELLA VACCINE	ENTRANTS WITH PME TO VARICELLA	OTHERS LACKING VARICELLA VACCINE†	OVERDUE FOR VARICELLA VACCINE^
	NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	505,026	97.1%	0.3%	0.9%	1.0%	0.7%
COUNTY						
ORANGE	39,699	97.5%	0.5%	1.0%	0.7%	0.3%
PLACER	5,990	95.0%	0.6%	1.8%	1.7%	0.9%
PLUMAS	197	96.4%	1.5%	2.0%	0.0%	0.0%
RIVERSIDE	35,413	97.3%	0.2%	0.6%	0.9%	0.9%
SACRAMENTO	19,967	96.5%	0.4%	1.1%	1.6%	0.3%
SAN BENITO	955	99.5%	0.1%	0.3%	0.1%	0.0%
SAN BERNARDINO	32,605	97.0%	0.2%	0.3%	1.8%	0.7%
SAN DIEGO	41,159	96.4%	0.4%	1.2%	1.9%	0.2%
SAN FRANCISCO	6,118	96.6%	0.4%	0.9%	0.2%	1.9%
SAN JOAQUIN	12,155	97.7%	0.1%	0.4%	1.1%	0.8%
SAN LUIS OBISPO	3,151	96.7%	0.3%	1.6%	0.5%	0.9%
SAN MATEO	8,234	98.0%	0.4%	1.0%	0.2%	0.4%
SANTA BARBARA	5,670	97.4%	0.5%	1.2%	0.5%	0.4%
SANTA CLARA	22,852	97.7%	0.3%	1.4%	0.3%	0.4%
SANTA CRUZ	3,539	93.9%	0.5%	2.5%	2.9%	0.3%
SHASTA	2,130	92.8%	1.0%	2.2%	2.6%	1.5%
SIERRA	<35*	--*	--*	--*	--*	--*
SISKIYOU	499	94.6%	1.6%	1.0%	1.6%	1.2%
SOLANO	5,130	97.8%	0.2%	0.4%	0.0%	1.5%
SONOMA	5,422	95.3%	0.8%	2.0%	1.0%	0.9%
STANISLAUS	8,846	97.2%	0.4%	0.8%	0.4%	1.3%
SUTTER	1,927	88.0%	0.2%	0.5%	11.2%	0.2%
TEHAMA	870	97.8%	0.3%	1.4%	0.2%	0.2%
TRINITY	115	92.2%	0.0%	4.3%	2.6%	0.9%
TULARE	8,232	99.1%	0.2%	0.2%	0.5%	0.1%
TUOLUMNE	481	94.0%	1.0%	1.7%	2.1%	1.2%
VENTURA	11,004	96.6%	0.5%	1.1%	1.0%	0.8%
YOLO	2,416	96.0%	0.4%	1.7%	0.6%	1.2%
YUBA	1,194	97.1%	0.2%	0.2%	0.4%	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 Tdap immunization.

* County reporting fewer than 35 children in 7th grade.