

**APPENDIX A**

ORDER OF THE UNITED STATES COURT OF APPEALS FOR THE  
NINTH CIRCUIT DENYING INJUNCTION PENDING APPEAL, *WE  
THE PATRIOTS USA, Inc., et al. v. VENTURA UNIFIED SCHOOL  
DISTRICT, et al.*, No. 25-5239 (C.A.9, Sept. 9, 2025).

UNITED STATES COURT OF APPEALS  
FOR THE NINTH CIRCUIT

FILED

SEP 9 2025

MOLLY C. DWYER, CLERK  
U.S. COURT OF APPEALS

WE THE PATRIOTS USA, INC. and JANE  
DOE, on her own behalf and on behalf of  
Child 1,

Plaintiffs - Appellants,

v.

VENTURA UNIFIED SCHOOL  
DISTRICT; et al.,

Defendants - Appellees.

No. 25-5239

D.C. No.

2:25-cv-04659-AB-JC

Central District of California,  
Los Angeles

ORDER

Before: R. NELSON, SUNG, and H.A. THOMAS, Circuit Judges.

The motion (Docket Entry No. 15) for injunctive relief is denied. *See Feldman v. Ariz. Sec’y of State*, 843 F.3d 366, 367 (9th Cir. 2016) (“The standard for evaluating an injunction pending appeal is similar to that employed by district courts in deciding whether to grant a preliminary injunction.”); *see also Winter v. Natural Res. Def. Council, Inc.*, 555 U.S. 7, 20 (2008) (defining standard for preliminary injunction in district court). The request for judicial notice (Docket Entry No. 25) is denied as moot.

The existing briefing schedule remains in effect.

**APPENDIX B**

IN CHAMBERS ORDER OF THE UNITED STATES DISTRICT  
COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA DENYING  
RENEWED APPLICATION FOR TEMPORARY RESTRAINING  
ORDER AND PRELIMINARY INJUNCTION, *WE THE PATRIOTS  
USA, Inc., et al. v. VENTURA UNIFIED SCHOOL DISTRICT, et al.*,  
No. 2:25-cv-04659-AB-AJ (Aug. 15, 2025).

UNITED STATES DISTRICT COURT  
CENTRAL DISTRICT OF CALIFORNIA

CIVIL MINUTES - GENERAL

Case No.: 2:25-cv-04659-AB-JC

Date: August 15, 2025

Title: *We The Patriots USA, Inc., et al. v. Ventura Unified School District et al.*

Present: The Honorable **ANDRÉ BIROTTE JR., United States District Judge**

Evelyn Chun  
Deputy Clerk

N/A  
Court Reporter

Attorney(s) Present for Plaintiff(s):  
None Appearing

Attorney(s) Present for Defendant(s):  
None Appearing

**Proceedings: [In Chambers] ORDER DENYING RENEWED APPLICATION FOR A TEMPORARY RESTRAINING ORDER AND PRELIMINARY INJUNCTION [Dkt. No. 50]**

Before the Court is Plaintiffs We The Patriots USA, Inc., Jane Doe, and her child’s Renewed Emergency Application for Temporary Restraining Order and Preliminary Injunction (“Renewed TRO Appl.,” Dkt. No. 50). Defendant Erica Pan, in her official capacity as the Director of the California Department of Public Health (“CDPH”), filed an Objection (Dkt. No. 51). The Renewed TRO Application is **DENIED**.

**BACKGROUND**

On May 22, 2025, Plaintiffs filed their Complaint.<sup>1</sup> *See* Compl. (Dkt. No. 1). On May 24, 2025, Plaintiffs filed an Application for an Emergency TRO and a Preliminary Injunction seeking to enjoin the Defendants from enforcing California Health and Safety Code § 120335 against “Plaintiffs and all similarly situated parents and children who hold sincere religious beliefs that prevent them from

<sup>1</sup> Plaintiffs filed their Complaint on May 22, 2025 but have yet to serve the CDPH.

receiving the immunizations required by § 120335.” *See* TRO Appl. (Dkt. No. 12) at 2.

On June 17, 2025, the Court denied the TRO Application on the ground that “Plaintiffs have not addressed why, let alone established that, the urgent measure of a TRO is necessary to avoid any irreparable harm.” *See* Order (Dkt. No. 22) at 3.

On August 12, 2025, nearly two months after the Court denied their initial TRO Application, Plaintiffs filed their now-pending Renewed Emergency Application for Temporary Restraining Order and Preliminary Injunction requesting identical relief as their initial TRO Application. Plaintiffs purported to set their Renewed TRO Application for hearing on September 5, 2025. As with their initial TRO Application, Plaintiffs state that they “do not seek *ex parte* relief, but do seek expedited relief as soon as the Court can convene the parties for a hearing on their motion for a temporary restraining order.” *Id.* at 2:8-10. Plaintiffs state that the Court should afford an expedited hearing because the “school year starts on August 13, 2025 and [Plaintiff Jane Doe’s] son will be excluded without action from the Court.” *Id.* at 3:10-13.

## DISCUSSION

The Court incorporates by reference the legal standard that applies to TRO applications set forth in its Order denying Plaintiffs’ initial TRO Application.

Plaintiffs’ Renewed Emergency TRO Application fails for a litany of procedural violations set forth in the CDPH’s Objection.

First, Plaintiffs state that they do not seek *ex parte* relief, and instead only want an expedited hearing. But relief sought on an expedited basis is *ex parte* relief, and Plaintiffs have not complied with Local Rule 7-19.1’s *ex parte* notice requirements. Plaintiffs cannot have it both ways: they can either seek an expedited ruling and comply with Local Rule 7-19.1’s notice requirements for *ex parte* applications, or they can file a regularly-noticed motion. The Application as filed is an *ex parte* Application for a TRO.

Second, Plaintiffs failed to comply with Local Rule 65-1, which applies to TRO applications and requires the movant to file “a declaration setting forth the facts and certification required by F.R.Civ.P. 65(b)(1)(A) and (B), and a proposed order to show cause why a preliminary injunction should not issue.”

Third, insofar as Plaintiffs purport to notice their Renewed TRO Application for hearing on September 5, 2025, this is unavailing: *ex parte* applications are not set for hearing by the parties; alternatively, that hearing date would not allow the minimum 28-days' notice Local Rule 6-1 requires for regularly-noticed motions. *See* Standing Order (Dkt. No. 18), p. 5.

Fourth, Plaintiffs essentially seek reconsideration of the Court's order denying their initial TRO Application without addressing the standard for reconsideration.

Finally, the Renewed Emergency TRO Application also fails for the lack of a genuine emergency not of the Plaintiffs' own making: that Plaintiffs filed their Renewed TRO Application nearly 2 months after the Court denied their initial TRO Application, and only 1 day before the school year starts—the event that they say necessitates expedited relief—belies their characterization that their need for relief is an emergency.

And, because of all of the above, the Court declines on its own to set this matter for an expedited preliminary injunction hearing.

### **CONCLUSION**

Plaintiffs' Renewed Emergency Application for a Temporary Restraining Order and Preliminary Injunction (Dkt. No. 50) is therefore **DENIED**.

**SO ORDERED.**

**APPENDIX C**

IN CHAMBERS ORDER OF THE UNITED STATES DISTRICT  
COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA DENYING  
EMERGENCY APPLICATION FOR AN INJUNCTION PENDING  
APPEAL, *WE THE PATRIOTS USA, Inc., et al. v. VENTURA  
UNIFIED SCHOOL DISTRICT, et al.*, No. 2:25-cv-04659-AB-AJ (Aug.  
29, 2025).

UNITED STATES DISTRICT COURT  
CENTRAL DISTRICT OF CALIFORNIA

CIVIL MINUTES - GENERAL

Case No.: 2:25-cv-04659-AB-JC

Date: August 29, 2025

Title: *We The Patriots USA, Inc., et al. v. Ventura Unified School District, et al.*

Present: The Honorable **ANDRÉ BIROTTE JR., United States District Judge**

Evelyn Chun  
Deputy Clerk

N/A  
Court Reporter

Attorney(s) Present for Plaintiff(s):  
None Appearing

Attorney(s) Present for Defendant(s):  
None Appearing

**Proceedings: [In Chambers] ORDER DENYING PLAINTIFFS’  
EMERGENCY APPLICATION FOR AN INJUNCTION  
PENDING APPEAL [Dkt. No. 55]**

Before the Court is Plaintiffs We the Patriots USA, Inc., and Jane Doe’s (“Plaintiffs”) Emergency Application for an Injunction Pending Appeal (“Application,” Dkt. No. 55), filed on August 20, 2025. On August 22, 2025, Defendant CDPH filed an objection (Dkt. No. 59), Defendant Tony Thurmond in his official capacity as State Superintendent of Public Instruction (“Thurmond”) filed an opposition (Dkt. No. 60), and Defendants Ventura Unified School District and Antonio Castro in his official capacity (“VUSD”) filed an opposition (Dkt. No. 63). Defendants Erik Nasarenko and Sara Brucker filed a Notice of Neutrality (Dkt. No. 62).

The parties are familiar with the issues raised in this case and the procedural background so the Court’s order will be brief.

Plaintiffs We The Patriots USA, Inc. and Jane Doe seek “an injunction pending appeal enjoining the Defendants from preventing Jane Doe’s child from attending public school under Cal. Health and Safety Code § 120335 because of

his religious beliefs.” Appl. 2:1-4.

This is the third time in this case that Plaintiffs have sought an emergency injunction. The Court denied both prior applications, on June 22, 2025 and August 15, 2025, respectively. *See* Dkt. Nos. 22, 53.

On August 19, 2025, Plaintiffs appealed the second denial order to the Ninth Circuit. *See* Dkt. No. 54.

On August 20, 2015, Plaintiffs filed the present emergency application for a TRO and preliminary injunction pending appeal. The defendants filed the above-referenced responses.

Federal Rule of Civil Procedure 62(d) states:

(d) Injunction Pending an Appeal. While an appeal is pending from an interlocutory order or final judgment that grants, continues, modifies, refuses, dissolves, or refuses to dissolve or modify an injunction, the court may suspend, modify, restore, or grant an injunction on terms for bond or other terms that secure the opposing party’s rights.

The Ninth Circuit has held that this Rule “grants the district court no broader power than it has always inherently possessed to preserve the status quo during the pendency of an appeal; it ‘does not restore jurisdiction to the district court to adjudicate anew the merits of the case.’ [] Thus, any action taken pursuant to [this Rule] ‘may not materially alter the status of the case on appeal.’” *Natural Resources Defense Council, Inc. v. Southwest Marine Inc.*, 242 F.3d 1163, 1166 (9th Cir. 2001).

Here, Plaintiffs seek via an emergency injunction pending appeal the very injunction that the court previously denied twice. Plaintiff is now appealing one of those denial orders. Granting this Application would not preserve the status quo pending appeal; it would be a wholesale reversal of the status quo. The Court has no authority to do this.

The Application is therefore **DENIED**.

**SO ORDERED.**

**APPENDIX D**

IN CHAMBERS ORDER OF THE UNITED STATES DISTRICT  
COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA  
GRANTING MOTION FOR STAY PENDING OUTCOME OF  
SUBSTANTIALLY SIMILAR CASE, *WE THE PATRIOTS USA, Inc., et  
al. v. VENTURA UNIFIED SCHOOL DISTRICT, et al.*, No. 2:25-cv-  
04659-AB-AJ (Aug. 29, 2025).

UNITED STATES DISTRICT COURT  
CENTRAL DISTRICT OF CALIFORNIA

CIVIL MINUTES - GENERAL

Case No.: 2:25-cv-04659-AB-JC

Date: August 29, 2025

Title: *We The Patriots USA, Inc. v. Ventura Unified School District, et al.*

Present: The Honorable **ANDRÉ BIROTTE JR., United States District Judge**

Evelyn Chun  
Deputy Clerk

N/A  
Court Reporter

Attorney(s) Present for Plaintiff(s):  
None Appearing

Attorney(s) Present for Defendant(s):  
None Appearing

**Proceedings: [In Chambers] ORDER GRANTING DEFENDANT’S MOTION FOR STAY ACTION PENDING OUTCOME OF SUBSTANTIALLY SIMILAR CASE [Dkt. No. 24]**

Before the Court is Defendant California Department of Public Health’s (“Defendant” or “CDPH”) Motion to Stay Action Pending Outcome of Substantially Similar Case (“Mot.,” Dkt. No. 24). We the Patriots USA, Inc. and Jane Doe (collectively “Plaintiffs”) filed an opposition (“Opp.,” Dkt. No. 28). Defendant filed a reply (“Reply,” Dkt. No. 29). For the reasons stated below, the Court **GRANTS** Defendant’s Motion and **STAYS** this case pending the appeals in *Royce* and *Doescher*.<sup>1</sup>

**I. BACKGROUND**

This case is one of several ongoing lawsuits filed against the Director of the California Department of Public Health (“CDPH”) challenging California’s

<sup>1</sup> Plaintiffs have appealed the Court’s denial of their Renewed Application for a TRO. This motion is not related to the issues raised in the appeal, so the Court may have jurisdiction to rule on it, so the Court does so.

vaccine mandate for school-aged children. The plaintiffs in these cases allege that California’s compulsory vaccination law, California Health & Safety Code § 120335, violates the Free Exercise Clause of the First Amendment to the United States Constitution. Specifically, they allege that because the law bars unvaccinated children from attending public or private school, and because it does not allow for religious exemptions, it violates the free exercise rights of parents who allege that vaccinating their children violates their religious beliefs.

The CDPH now moves to stay this action pending the resolution of two previously-filed cases that it argues are substantially similar: *Royce v. Pan (Royce)*, No. 25-2504 (9th Cir., filed April 16, 2025); *Doescher v. Aragon (Doescher)*, No. 25-4531 (9th Cir., filed July 22, 2025).<sup>2</sup> In both cases, the district court granted the CDPH’s motion to dismiss on the ground that § 120335 was subject to rational basis review, and that it survived rational basis review because it is neutral, generally applicable, and is rationally related to the legitimate state interest of protecting the health and safety of students and the public at large. Both cases are now on appeal before the Ninth Circuit.

## II. LEGAL STANDARD

The first-to-file rule is a generally recognized principle of federal comity that “may be invoked ‘when a complaint involving the same parties and issues has already been filed in another district.’” *Alltrade, Inc. v. Uniweld Prods., Inc.*, 946 F.2d 622, 625 (9th Cir. 1991) (quoting *Pacesetter Sys., Inc. v. Medtronic, Inc.*, 678 F.2d 93, 95 (9th Cir. 1982)). “The doctrine allows district courts flexibility to dismiss, stay, or transfer a case to avoid duplicative litigation and to conserve judicial resources.” *Ortiz v. Walmart, Inc.*, 2020 WL 5835323, at \*2 (C.D. Cal. Sept. 18, 2020). The court should use its discretion to apply the first-to-file rule to “maximize ‘economy, consistency, and comity,’” and the rule “should not be disregarded lightly.” *Kohn Law Group, Inc. v. Auto Parts Mfg. Miss., Inc.*, 787 F.3d 1237, 1239-40 (9th Cir. 2015) (internal citations omitted).

In determining whether to apply the first-to-file rule, courts consider the following factors: (1) the chronology of the lawsuits; (2) the similarity of the parties; and (3) the similarity of the issues. *Kohn*, 787 F.3d at 1240.

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<sup>2</sup> When CDPH filed its Stay Motion, *Doescher* had not yet been appealed. However, the *Doescher* plaintiffs have since filed an appeal, so the Court refers to the 9th Circuit case.

### III. DISCUSSION

The Court finds that each of these factors is satisfied and concludes that staying this action pending *Royce* and *Doescher* will serve the purposes of the first to file rule. No factors counsel against entering a stay. Appellate decisions in the substantially-similar cases *Royce* and *Doescher* will likely impact the trajectory of this case, and may be dispositive. The Court will therefore grant CDPH's motion.<sup>3</sup>

#### A. Chronology of Lawsuits

Plaintiffs do not dispute that *Royce* and *Doescher* were filed before this case. Indeed, *Royce* was filed on October 31, 2023, *Doescher* was filed on December 22, 2023, and this case was filed on May 22, 2025. But Plaintiffs contend that this factor should carry little weight because Plaintiffs could not file suit until they had standing and their claim was ripe, which they argue happened December 12, 2024, after *Royce* and *Doescher* were filed. However, standing to sue and ripeness are not relevant to the straightforward question of which case was filed first. Contrary to Plaintiffs' impressions as reflected in the opposition, applying the first-to-file rule is not a matter of finding fault with the later-filing plaintiff; rather, the purpose of the rule is to promote judicial economy, efficiency, and comity by forestalling multiple courts presiding over substantially similar lawsuits at the same time.

#### B. Similarity of Parties

The parties are also similar. The rule "does not require exact identity of the parties," but rather only "substantial similarity." *Kohn*, 787 F.3d. at 1240 (citations omitted).

In all three cases, plaintiffs are the parents of school-aged children who are not permitted to attend California public or private schools because of their unvaccinated status. In all cases, the parents allege that they refuse to vaccinate their children because of their religious beliefs, and they allege that § 120335 violates their right to free exercise because it does not include an exemption for

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<sup>3</sup> The Court **GRANTS** the CDPH's request to take judicial notice of various public records, including filings in the *Royce* and *Doescher* matters. A court may judicially notice court documents that are already in the public record or have been filed in other courts. *See Reyn's Pasta Bella, LLC v. Visa USA Inc.*, 442 F.3d 741, 746 n.6 (9th Cir. 2006).

religious beliefs. And, in all three cases, the plaintiffs are suing the Director of the CDPH. These facts establish that the parties are substantially similar for purposes of the first-to-file rule.

The Court is not persuaded by Plaintiffs' contrary arguments. Primarily, they argue that the first-to-file does not apply because the only real common party among the suits is the Director of the CDPH, not the plaintiffs, who are different sets of parents and, in this case, the We the Patriots organization. This argument is unconvincing. The rule does not require the parties to be identical; rather, the question "is whether the parties represent the 'same interests' and whether the absence or addition of a party will have a 'bearing on the resolution of the dispute.'" *Fremont Emergency Servs. (Scherr), Ltd. v. UnitedHealthcare Ins. Co.*, No. 2:22-cv-01118-CDS-BNW, 2023 WL 8556229, at \*6 (D. Nev. Dec. 8, 2023), quoting *AquaConnect, Inc. v. SHI Int'l Corp.*, No. CV 19-05662-AB (JPR), 2019 WL 8883452, at \*3 (C.D. Cal. Dec. 16, 2019)). It is apparent that the plaintiffs in all three actions represent the same interests. The inclusion of the organization plaintiff and defendants other than the Director of the CDPH in this case does not introduce some incompatible interest that causes the parties to be different from those in *Royce* and *Doescher* in any legally significant way. Plaintiffs rely on *Church v. California Dept. of Managed Health Care*, 2016 WL 11621588, at \*6 (S.D. Cal. Apr. 15, 2016) for their argument that the plaintiffs are different because they are different parents, and because there is no privity or any legal relationship between them. But "substantial similarity" does not require privity or a legal relationship. As discussed, this Court, in its discretion, concludes that the parties are substantially similar within the meaning of the rule.

### **C. Similarity of the Issues**

The Court also concludes that the issues are similar. Suits involve substantially similar issues when there is "substantial overlap" between the suits. *Kohn*, 787 F.3d at 1241. "Substantial overlap" exists when both actions "involve closely related questions or common subject matter." *Centocor, Inc. v. MedImmune, Inc.*, 2002 WL 31465299, \*3 (N.D. Cal. Oct. 22, 2002).

Here, all three suits bring free exercise challenges to § 120335 based on the common allegation that the parent plaintiffs refuse to vaccinate their children based on their religious beliefs, and their children are therefore not permitted to attend public or private schools. All suits contend that unless the state grants them a religious belief exemption from § 120335—an exemption the legislature eliminated starting in 2016 when it passed SB 277 and repealed the personal

beliefs exemption—it violates their right to free exercise. The legislative history of the passage of SB 277 is relevant to all three cases. All three cases assert that § 120335 is neither neutral nor generally applicable, so strict scrutiny applies, and further allege that it is not narrowly tailored so it fails strict scrutiny. The district courts in *Royce* and *Doescher* rejected these arguments, and these issues are now before the Ninth Circuit; its decisions in *Royce* and *Doescher* will almost certainly bear on this case.

Plaintiff argues that this case is not similar to *Royce* or *Doescher* because this case involves a hybrid rights claim, which plaintiffs argue is strengthened by the Supreme Court’s recent decision in *Mahmoud v. Taylor*, 145 S.Ct. 233 (Jun. 27, 2025), and because the plaintiffs in this case make somewhat different arguments in comparing religious and secular exemptions. But these differences simply do not negate the substantial overlap in closely related questions and common subject matter between this case and *Royce* and *Doescher* such that the Ninth Circuit decisions in *Royce* and *Doescher* are very likely to narrow the issues in this case. In this circumstance, the values of judicial economy, consistency, and comity are maximized by staying this case pending *Royce* and *Doescher*.

#### **D. No Equitable Reasons Require a Denial of the Motion to Stay**

Plaintiff also seeks to avoid a stay based on equitable grounds. District courts may decline to apply the first-to-file rule for equitable reasons, which include “bad faith, anticipatory suit[s], and forum shopping,” *Alltrade*, 946 F.2d at 628, and the stage of litigation. See *Church of Scientology of Cal. v. U.S. Dep’t of Army*, 611 F.2d 738, 750 (9th Cir. 1979) (affirming rejection of first-to-file rule in part because the second-filed case had “already progressed to a judgment on the merits, an appeal, and a remand.”) None of these reasons applies here.

Instead of relying on recognized equitable exceptions, Plaintiffs argue that staying this case would be unfair because it would force Plaintiffs to wait for their important constitutional claims to be adjudicated while other cases go forward. But the first-to-file rule permits exactly this as long as the three criteria above are met.

In addition, as the Court noted in its prior orders denying Plaintiffs’ Applications for a TRO, Plaintiffs themselves appear to have delayed pursuing their rights in multiple ways, including, for example, by not explaining the urgency in their first TRO, and then by delaying about 2 more months before filing their renewed Application for a TRO the day before the school year was set to start. Furthermore, at the time the CDPH filed its reply to this stay motion on July 11, it

pointed out that Plaintiffs had yet to file proofs of service for its Complaint, which was filed on May 22, 2025. Plaintiffs finally filed proofs of service on August 11, 2025, showing that Plaintiffs served *some* of the defendants on August 8 and 11. Plaintiff has yet to file any proof of service for the CDPH, which appears to still be specially appearing.<sup>4</sup> Plaintiffs' laxity in serving the defendants in this case belies their argument that the delay inherent in staying this case would be unfair to them and is an equitable reason to deny the motion.

The Court concludes that no equitable reasons weight against a stay.

#### IV. CONCLUSION

For the reasons stated herein, the Court **GRANTS** Defendant's Motion.

The parties are **ORDERED** to file a Joint Status Report regarding the *Royce* and *Doescher* matters every 120 days. Each report must state on the cover page the due date for the next report. Because CDPH sought the stay, it is primarily responsible for preparing and filing the Joint Reports.

**The stay entered hereby does not apply to any appeal of any orders already entered in this case.**

**IS SO ORDERED.**

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<sup>4</sup> In a Motion to Dismiss (Dkt. No. 67) filed on August 29, 2025, 99 days after Plaintiffs filed suit, the CDPH says that Plaintiffs still have not served it with the Summons and Complaint in violation of Fed. R. Civ. P. 4(m) and this Court's standing order, and on that basis seek dismissal under Fed. R. Civ. P 41(b).

**APPENDIX E**

**DECLARATION OF PLAINTIFF JANE DOE**

UNITED STATES DISTRICT COURT  
CENTRAL DISTRICT OF CALIFORNIA

WE THE PATRIOTS USA, INC;  
JANE DOE, on her own behalf and on  
behalf of Child 1;

Plaintiff,

vs.

TONY THURMOND, in his official  
capacity only; ERICA PAN, in her  
official capacity only; VENTURA  
UNIFIED SCHOOL DISTRICT;  
ANTONIO CASTRO, in his official  
capacity only; ERIK NASARENKO, in  
his official capacity only; SARA  
BRUCKER, in her official capacity  
only;

Defendant.

**Declaration of Plaintiff Jane Doe**

Pursuant to 28 U.S.C. § 1746, the Plaintiff, [REDACTED] makes this unsworn declaration in support of her Renewed Emergency Motion for a Temporary Restraining Order and a Preliminary Injunction:

1. I am the Jane Doe plaintiff in this case.
2. Child 1 is my son and is a student in the Ventura Unified School District at a public school.
3. I am a practicing Christian who holds Judeo-Christian religious beliefs.

4. I hold the religious belief that abortion is sinful and that to benefit from an abortion – no matter how remote in time that abortion occurs – would be a sin before God.

5. I hold the religious belief that the human body is the temple of the Holy Spirit and that Christians have a religious duty before God to keep it pure and avoid any products that would harm or pollute it.

6. I am raising my son, Child 1, in accordance with these religious beliefs, and I believe I have a sacred and God-given obligation to do so.

7. To the best of my knowledge and understanding, all of the vaccinations required for immunization compliance under Section 120335 of the California Health and Safety Code are researched, developed, tested, and/or produced using cell lines artificially developed from aborted fetuses and because they contain products that could result in harm to a human recipient.

8. Because of my religious beliefs and my understanding of vaccinations currently available, I have never allowed Child 1 to receive any of the vaccinations required for school attendance by Section 120335 of the California Health and Safety Code.

9. On or around March 11, 2015, I received a “personal beliefs exemption” from the Ventura Unified School District (VUSD), which exempted Child 1 from California’s school immunization requirements.

10. This exemption was based on my religious beliefs.

11. In 2022, I began the process of obtaining homeoprophylaxis immunizations for Child 1 in an effort to demonstrate with California’s school immunization laws.

12. These homeoprophylaxis immunizations did not violate my religious beliefs.

13. I completed this process and submitted proof of it to VUSD in August 2022.

14. VUSD accepted the homeoprophylaxis proof of vaccination, admitted Child 1 to seventh grade, and allowed him to continue to attend school.

15. In December 2024, VUSD informed me that my son's immunization records were inadequate despite previously accepting the homeoprophylaxis proof of vaccination.

16. On December 12, 2024, VUSD sent me a letter informing me that my son would be excluded from instruction at its schools effective January 7, 2025 due to his immunization status.

17. My son's last full day of attendance was December 20, 2024.

18. On January 7, 2025, the Defendants in this case began excluding my son from instruction in the VUSD, despite him trying to attend.

19. On January 10, 2025, I resupplied VUSD with a record of homeoprophylaxis immunizations signed by my son's physician.

20. VUSD responded by stating that it was inadequate and demanded to see my son's physician's medical license.

21. On or about February 5, 2025, I submitted a notarized affidavit to VUSD affirming my religious objections to the immunization required for school attendance, along with a copy of the completed personal beliefs form that I had submitted to VUSD on March 11, 2015.

22. VUSD responded by providing me a notice of truancy on February 5, 2025.

23. On February 11, 2025, VUSD denied my religious exemption request.

24. On February 25, 2025, VUSD sent me a letter stating that my son was habitually truant and summoning me to a mandatory School Attendance Review Board (SARB) meeting on March 12, 2025.

25. I was led to believe that I would be meeting with two VUSD officials on March 12, 2025 to discuss a path forward for my son.

26. Instead, my husband and I walked into a formal proceeding comprised of approximately nine people without notice and without any warning that a county prosecutor (Sara Brucker) would be attending.

27. At the meeting, VUSD officials claimed that they were there to help, but they quickly turned the meeting over to Brucker.

28. Brucker provided my husband and me with a one-page sheet prepared by the Ventura County District Attorney's office that listed what we could be charged with for "not cooperating" by sending our son to school with the required immunizations.

29. A true and accurate copy of that one-page sheet is attached hereto as **Exhibit A**.

30. Brucker told us that the SARB meeting and the paperwork were part of a criminal citation process and that, while she did not intend to initiate that process immediately, she would do so if we did not cooperate.

31. Brucker then explained each potential charge and its consequences.

32. Brucker never issued *Miranda* warnings to my husband and me.

33. Brucker never told us that we could have time to contact an attorney.

34. Brucker never told us that we were free to leave at any time if we wanted.

35. Instead, I felt that, if we attempted to leave at any point before we were allowed to, Brucker would charge us.

36. The other VUSD officials then presented me with a "School Attendance Review Contract" that directed me to provide proof of immunization and ordered my husband and me to appear on April 21, 2025 to review the contract and report compliance.

37. At the April 21, 2025 SARB meeting, VUSD officials and Brucker threatened me again to try to get me to abandon my religious beliefs and vaccinate Child 1.

38. When we refused, Brucker ordered Office Matthew Thompson of the Ventura Police Department to issue a criminal citation to me, charging me with violating Section 48200 of the California Education Code.

39. My son has suffered tremendously as a result of his exclusion from school.

40. He struggles with social development because of his disabilities.

41. He was an honor roll student who regularly received “A” and “B” grades and was part of the concert band at his school.

42. VUSD has now awarded him “F” grades on all his coursework, and he has lost the opportunity to receive trumpet instruction, which was critical to his social development.

43. My husband and I cannot afford to send our son to a private school even if a private school could allow him to attend without immunization under California law.

44. My husband and I also work at jobs that require us to be away from home during the day, which leaves us unable to homeschool our son.

45. I want to send my son to school without abandoning my religious beliefs or being prosecuted for adhering to them.

46. I fear that I will continue to be prosecuted by VUSD and officials like Brucker if I do not abandon my religious beliefs.

47. August 13, 2025 is the first day of school in the Ventura Unified School District.

48. My son is currently enrolled, and I intend for him to receive education in a public school in the Ventura Unified School District for the 2025-2026 school year.

49. It is my understanding that my son will not be permitted to attend school at the Ventura Unified School District for the 2025-2026 school year

unless he receives the required vaccinations that are also religiously objectionable to us.

50. Permitting my son to receive the required school vaccinations will undermine the very religious practices and beliefs that I am teaching him by forcing me to give an impossible explanation to my son of why it was okay for me to violate our religious beliefs with respect to the sanctity of life to ensure that he could continue to go to school.

51. That explanation – regardless of how well I contort it – will be hypocritical and cause my son to question the sincerity, the truth, and the moral imperative of the religious beliefs that I seek to instill in him.

52. There are no good answers that I can give my son when he asks the question: “Why was it religiously appropriate for you to vaccinate me to go to school and benefit from abortion to send me to school, but it is not religiously appropriate to have anything to do with abortion?”

53. If I attempt to answer my son by saying that I was forced to by the state and that I will not be accountable before God, I will be lying to him, myself, and God, which I may not do.

54. My son will also know that I am lying to him, and he will question every other aspect of my faith that I am attempting to raise him in.

55. Permitting my son to receive the required school vaccinations will also undermine my religious teaching to him that respect for God’s law and His commands is not something that we only do when it is convenient for us.

56. A faithful Judeo-Christian believer who has accepted Christ and repented from sin understands that obeying God and His commandments is not something that he only does when it is convenient to do. It is something that the believer must do even when it will cost him everything.

57. If I permit my son to receive these vaccinations despite knowing their connection to the horrific act of abortion, my son will see an example in his

1 own mother that faith is only something that he should honor when it is  
2 convenient for him. That would undermine virtually everything I have taught  
3 him.

4 58. Lastly, if I engage in these lies and demonstrations of insincerity and  
5 sin before my son, my son will abandon the religious beliefs that I have sought to  
6 raise him in because he will see that those beliefs are worthless and unimportant.

7 59. I will be permanently deprived of the moral and religious authority  
8 as his mother to meaningfully instruct him in the religious beliefs that I have  
9 spent his entire life trying to teach him.

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I declare under penalty of perjury under the laws of the United States of  
America that the foregoing is true and correct.

Executed on August 11, 2025



# Exhibit A



OFFICE OF THE DISTRICT ATTORNEY

COUNTY OF VENTURA, STATE OF CALIFORNIA

**ERIK NASARENKO**  
District Attorney

**LEGALLY EXCUSED**

1. Dr.'s appt. w/Dr.'s note
2. Illness verified by school nurse
3. Death in the immediate family
4. Court appointments for student
5. Religious observance

**STUDENTS**

Charge: EC48262 = Habitual truant (Infraction)

Any or all of the following penalties:

- 1<sup>st</sup> offense = \$50 fine or 20 hours of community service
- 2<sup>nd</sup> offense = 24 hours of community service
- Deny/revoke work permit

**PARENTS**

Charge: EC48200 = Failure to compel attendance (Infraction)

Penalty:

- 1<sup>st</sup> offense = \$100 fine (EC48293)
- 2<sup>nd</sup> offense = \$250 fine (EC48293)
- 3<sup>rd</sup> offense = \$500 fine (EC48293)

**Possible additional penalty to parents:**

EC48268 = a parent may be ordered to deliver student to school every day for the rest of the school term. (EC48638 for Opportunity Schools).

**PC 272(a)(1) - Contributing to the delinquency of a minor (misdemeanor).**

Penalty = Probation terms, up to \$2,500 fine and/or up to 1 year in jail.

**PC 270.1(a) - Parent of a chronic truant grades K - 8 (misdemeanor).**

Penalty = Probation terms, up to \$2,000 fine and/or up to 1 year in jail.

**APPENDIX F**

**2015-2016 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## 2015- 2016 KINDERGARTEN IMMUNIZATION ASSESSMENT

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, IMMUNIZATION BRANCH

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### Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120335-120375). This report summarizes data for the 2015-2016 school year reported by public and private kindergartens statewide (Table 1, Figures 1-5) and by county (Tables 2-7).

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### Methods

Schools reported data to the California Department of Public Health (CDPH) in the autumn of 2015, prior to 2016 effective date for [Senate Bill \(SB\) 277](#) but during the second year of implementation of [Assembly Bill \(AB\) 2109](#).

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

- Fully vaccinated with all required immunizations<sup>1</sup>
- Conditional entrants, because either
  - Not fully-vaccinated but not currently overdue, or
  - Having a temporary medical exemption (TME) to vaccination
- Having a permanent medical exemption (PME) to vaccination
- Having a personal beliefs exemption (PBE). In 2014 and 2015, under the provisions of AB 2109 this required additional documentation from the parent or guardian of either:
  - Receiving information about immunizations and the diseases they prevent from an authorized health care practitioner or
  - Declaring a religious objection to seeking medical advice or treatment from authorized health care practitioners
- Overdue and subject to exclusion from school for non-compliance (new category for this year).

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### Results

8,467 (97%), of 8,752 schools in California with kindergartners submitted immunization assessment reports by December 15, 2015 (Table 2), in comparison to 7,738 (95%) of 8,170 schools that reported in 2014. Private schools accounted for 27% (2401/8752) of all kindergartens but 73% (209/285) of kindergartens that did not submit reports. Figures 1-5 show trends over the last 6-7 years for students in public and private schools reported as fully-vaccinated, conditional entrants, PBEs, PME, and fully-vaccinated by vaccine series.

**Fully vaccinated:** Of 551,123 kindergarten children whose schools reported their status, 511,708 (92.9%) had received all required immunizations,<sup>1</sup> an increase from the previous school year of 2.5 percentage points overall, 2.5 percentage points in public schools, and 1.6 percentage points in private schools (Table 1). Percentage point increases in completion rates for individual vaccines ranged from 0.9 percentage points for Varicella and Hep B to 1.9 percentage points for MMR (Table 1). The percentage of fully-vaccinated students increased in 46 (79%) of 58 counties (Table 4); Alameda County had the largest increase at 7.3% (Table 4).

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<sup>1</sup> 4 or more doses of Diphtheria, Tetanus, Pertussis (4+ DTP), 3+ Polio, 2+ MMR (Measles, Mumps, Rubella), 3+ Hep B (Hepatitis B), and 1+ Var (Varicella) or physician-documented varicella disease.

As in past years, a higher proportion of students in public compared to private schools were fully vaccinated (93.2% vs. 88.2%). Rates for receipt of individual vaccines also are higher in public schools; for MMR, 94.5% of students at public schools vs. 90.5% at private schools were fully vaccinated.

Conditional entrants: Compared to the 2014-2015 school year, the proportion of pupils reported as conditional entrants in California decreased by 2.5 percentage points, equal to the increase in the rate of fully-vaccinated students. The rate of conditional entrants decreased in both public (-2.5 percentage points) and private (-1.5 percentage points) schools. Schools in 48 (83%) of 58 counties reported a reduction in conditional entrants, the largest reduction (-9.3 percentage points) occurring in Calaveras County (Table 5).

PBEs: Among kindergarteners, 2.38% had PBEs in 2015-2016, reduced from 2.54% (-0.16 percentage points) in 2014-2015 and 3.15% (-0.61 percentage points) in 2013-2014. After these declines, the PBE rate is now similar to the rate in 2011-2012 (2.32%). In 2015-2016, PBE rates declined over one year by 0.4 percentage points in private schools and 0.15 percentage points in public schools. The rates of PBEs continue to vary by county, with a range of 0% - 18.4% (Table 3).

PMEs: The percentage of students with PMEs was 0.17%, compared to 0.19% in 2014-15 (Table 1).

Overdue: In fall 2015, nearly 1,000 students (0.18%) were reported as being overdue for one or more immunizations (Table 3) and so subject to exclusion until all requirements are met.

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## Discussion

The proportion of students entering kindergarten after receiving all required immunizations increased by 2.5 percentage points to 92.9% in the 2015-2016 school year, an increase matched by a 2.5 percentage point reduction in those reported as conditional entrants. Rates of PMEs and PBEs were no higher in 2015-2016 than the prior year.

A recent CDPH analysis of a sampling of California kindergartens suggests that fewer than 10% of children previously reported as conditional entrants truly fulfilled criteria for conditional entrance based on the [Conditional Admission Immunization Schedule](#) (CDPH, unpublished data). Incorporating pilot efforts by the Alameda County Public Health Department, in 2015 CDPH assisted local health departments in educating school staff on the proper use of conditional entrance criteria. In addition, schools were alerted that the required annual financial and compliance audits of local education agencies for the 2015-2016 school year will scrutinize reimbursement for attendance at schools with higher rates of conditional entrance. Under these interventions, Alameda County had the largest increase of any county in the rate of fully-immunized students (7.3 percentage points) and reported a comparable reduction in the rate of conditional entrants (-7.2 percentage points).

With the additional measures required under AB 2109 for requesting PBEs during 2014 and 2015, the rate of PBEs decreased from 3.15% in 2013-2014 to 2.38% in 2015-2016. Under SB 277, chaptered and 2015 and effective in 2016, PBEs will no longer be available for children entering a kindergarten program in California (See [ShotsForSchool.org](#) for additional information).

In addition to efforts taken to promote compliance of with immunization laws, additional factors may have contributed to increased vaccination rates among kindergarten students in 2015-16. The measles outbreak spreading from Disneyland in December 2014 to 12 CA counties (as well as 6 other states and 2 other countries), may have raised awareness of the risks of vaccine-preventable diseases and the benefits of immunization.

Despite improvements in vaccination rates, a number of schools and communities remain at risk of contagion. For example, in 2015-16, 20 (34%) of 58 counties in California have rates of fully immunized kindergarteners that are below 90% (Table 4). Furthermore, 31 (53%) counties have fewer than 95% of

kindergarteners reported as having two doses of MMR, an approximate threshold necessary to prevent the transmission of measles.

### **Limitations**

This report is subject to limitations that include:

- 285 schools with kindergartens did not report their data.
- Any immunizations received by children with PBEs or PME to other immunizations are not currently reported in the rates of students who have received all doses of specific vaccines, so completion rates may be underestimated.
- The timing of immunization is often not included in the assessment criteria; if doses were given at clinically inappropriate ages or intervals, the rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would decrease estimates of immunization coverage, while any improvements over time in completion would increase estimates.

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*For media inquiries, please contact CDPH Office of Public Affairs via e-mail [cdphpress@cdph.ca.gov](mailto:cdphpress@cdph.ca.gov) or phone 916-440-7259*

Table 1. Immunization Status, Vaccine-specific Coverage Rates, and 1-Year Percentage Point Change in CA Kindergartens, 2014-16 School Year\*

	2015-16			2014-15			1 YR Change		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools	8,467	6,275	2,192	7,738	5,895	1,843			
Number of Students	551,123	508,458	42,665	535,234	494,636	40,598			
All Required Immunizations	92.9%	93.2%	88.2%	90.4%	90.7%	86.6%	+2.5%	+2.5%	+1.6%
Conditional Entrants	4.4%	4.3%	6.4%	6.9%	6.8%	7.8%	-2.5%	-2.5%	-1.4%
Permanent Medical Exemptions	0.17%	0.15%	0.34%	0.19%	0.19%	0.29%	-0.02%	-0.04%	-0.05%
Overdue <sup>^</sup>	0.18%	0.18%	0.14%	-	-	-	-	-	-
Personal Belief Exemptions	2.37%	2.16%	4.93%	2.54%	2.31%	5.33%	-0.16%	-0.15%	-0.40%
Pre-January 2014	-	-	-	0.38%	0.27%	1.67%			
Health Care Practitioner Counseled	1.81%	1.64%	3.93%	1.64%	1.54%	2.85%			
Religious	0.56%	0.52%	1.00%	0.52%	0.50%	0.81%			
4+ DTP	94.2%	94.5%	90.4%	92.4%	92.6%	89.2%	+1.8%	+1.9%	+1.2%
3+ Polio	94.7%	95.0%	90.7%	93.0%	93.3%	89.5%	+1.7%	+1.7%	+1.2%
2+ MMR	94.5%	94.9%	90.5%	92.6%	92.9%	88.8%	+1.9%	+2.0%	+1.7%
3+ Hep B	95.8%	96.1%	92.8%	94.9%	95.1%	92.0%	+0.9%	+1.0%	+0.8%
1+ Vari (or physician-documented disease)	96.3%	96.6%	93.2%	95.4%	95.7%	92.5%	+0.9%	+0.9%	+0.7%

\*Individual antigen status is unavailable for students with PBEs and PME's. Therefore, fully-vaccinated and individual antigen immunization coverage may be underestimated.

<sup>^</sup> 'Overdue' were students subject to exclusion from school.

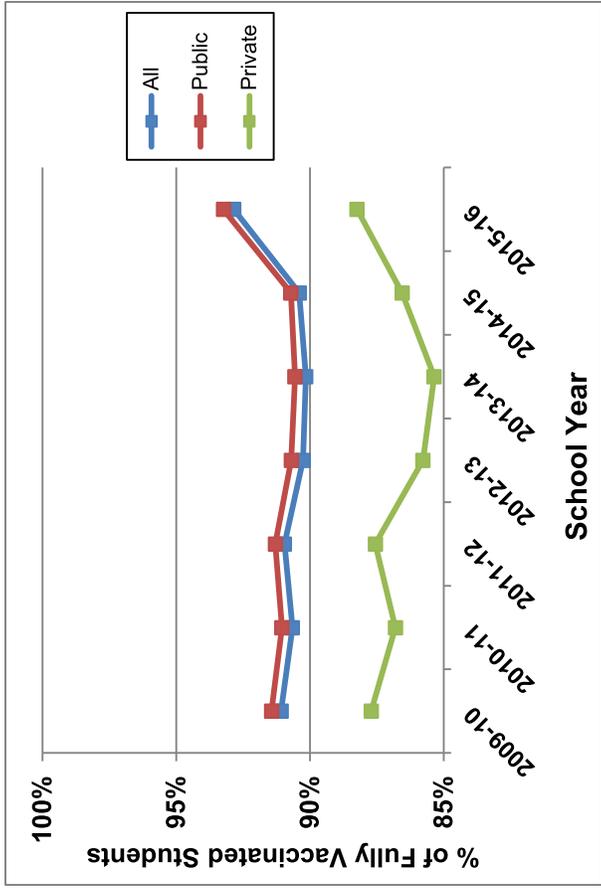


Figure 1. Percentage of Fully Vaccinated Kindergarten Students, by School Type and School Year, 2009-10 to 2015-16



Figure 2. Percentage of Kindergarten 'Conditional' Entrants, by School Type and School Year, 2010-11 to 2015-16

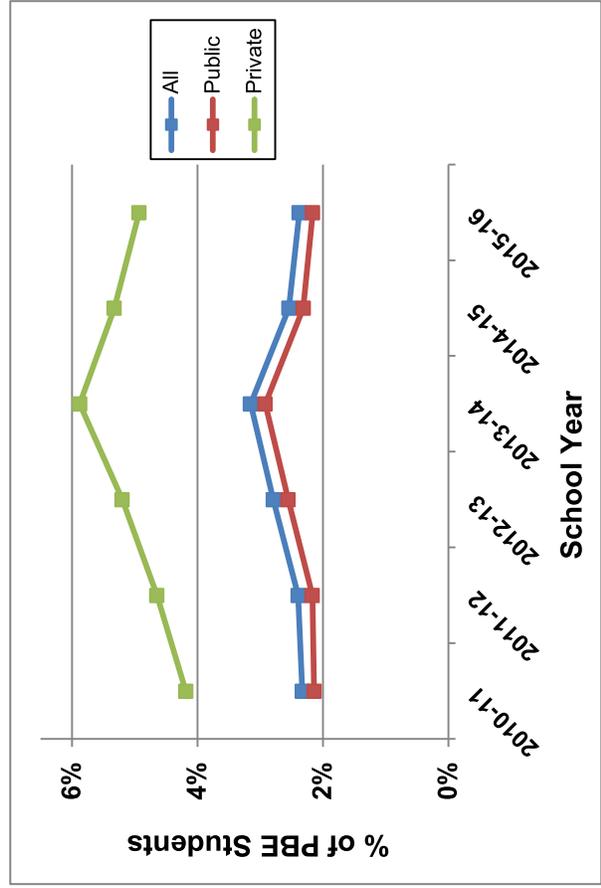


Figure 3. Percentage of Kindergarten PBEs, by School Type and School Year, 2010-11 to 2015-16

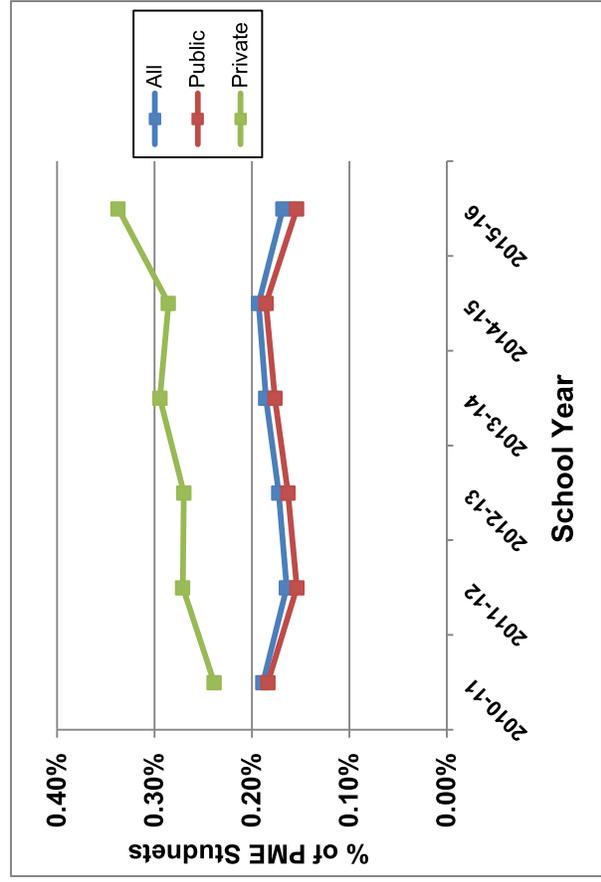


Figure 4. Percentage of Kindergarten PMEs, by School Type and School Year, 2010-11 to 2015-16

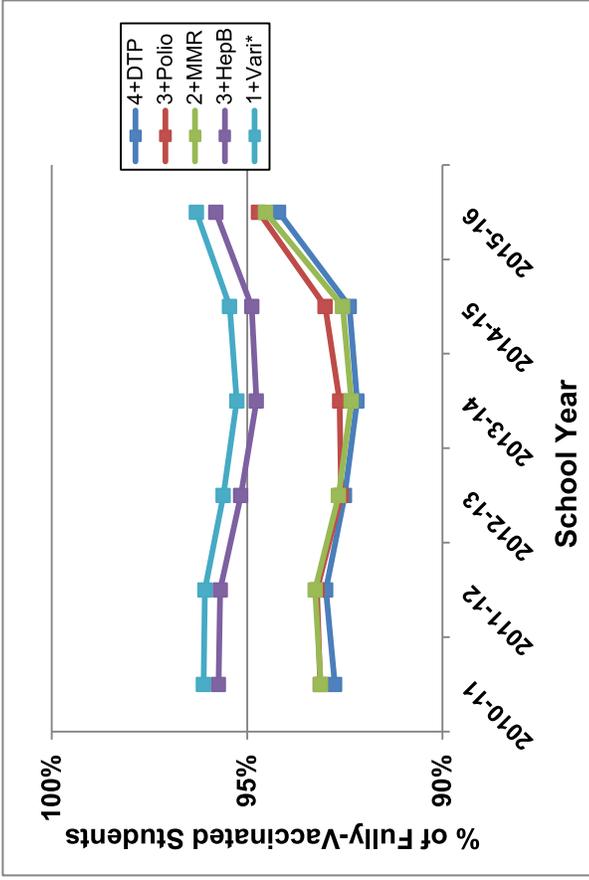


Figure 5. Percentage of Fully Vaccinated Kindergarten Students, by Vaccine Type and School Year, 2010-11 to 2015-16

TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING BY SCHOOL TYPE, BY COUNTY

	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	8,752	8,467	96.7%	6,351	6,275	98.8%	2,401	2,192	91.3%			
COUNTY	339	322	95.0%	234	228	97.4%	105	94	89.5%			
ALAMEDA	1	1	100.0%	1	1	100.0%	0	0	0.0%			
ALPINE	8	8	100.0%	8	8	100.0%	0	0	0.0%			
AMADOR	68	67	98.5%	56	56	100.0%	12	11	91.7%			
BUTTE	14	13	92.9%	13	13	100.0%	1	0	0.0%			
CALAVERAS	8	8	100.0%	7	7	100.0%	1	1	100.0%			
COLUSA	247	243	98.4%	169	168	99.4%	78	75	96.2%			
CONTRA COSTA	12	12	100.0%	11	11	100.0%	1	1	100.0%			
DEL NORTE	47	47	100.0%	38	38	100.0%	9	9	100.0%			
EL DORADO	249	247	99.2%	217	217	100.0%	32	30	93.8%			
FRESNO	13	13	100.0%	11	11	100.0%	2	2	100.0%			
GLENN	65	65	100.0%	56	56	100.0%	9	9	100.0%			
HUMBOLDT	47	47	100.0%	41	41	100.0%	6	6	100.0%			
IMPERIAL	11	11	100.0%	11	11	100.0%	0	0	0.0%			
INYO	200	195	97.5%	163	162	99.4%	37	33	89.2%			
KERN	44	44	100.0%	38	38	100.0%	6	6	100.0%			
KINGS	24	22	91.7%	19	18	94.7%	5	4	80.0%			
LAKE	16	15	93.8%	16	15	93.8%	0	0	0.0%			
LASSEN	2,043	1,867	91.4%	1,360	1,318	96.9%	683	549	80.4%			
LOS ANGELES	49	44	89.8%	42	39	92.9%	7	5	71.4%			
MADERA	80	80	100.0%	50	50	100.0%	30	30	100.0%			
MARIN	12	12	100.0%	11	11	100.0%	1	1	0.0%			
MARIPOSA	39	38	97.4%	33	32	97.0%	6	6	100.0%			
MENDOCINO	73	62	84.9%	58	55	94.8%	15	7	46.7%			
MERCED	11	11	100.0%	9	9	100.0%	2	2	100.0%			
MODOC	6	6	100.0%	5	5	100.0%	1	1	100.0%			
MONO	97	97	100.0%	82	82	100.0%	15	15	100.0%			
MONTEREY	41	41	100.0%	26	26	100.0%	15	15	100.0%			
NAPA												

TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING BY SCHOOL TYPE, BY COUNTY

	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	8,752	8,467	96.7%	6,351	6,275	98.8%	2,401	2,192	91.3%			
COUNTY												
NEVADA	29	27	93.1%	23	23	100.0%	6	4	66.7%			
ORANGE	649	649	100.0%	405	405	100.0%	244	244	100.0%			
PLACER	102	100	98.0%	86	85	98.8%	16	15	93.8%			
PLUMAS	9	8	88.9%	6	6	100.0%	3	2	66.7%			
RIVERSIDE	419	419	100.0%	306	306	100.0%	113	113	100.0%			
SACRAMENTO	321	300	93.5%	246	239	97.2%	75	61	81.3%			
SAN BENITO	24	21	87.5%	19	16	84.2%	5	5	100.0%			
SAN BERNARDINO	472	472	100.0%	362	362	100.0%	110	110	100.0%			
SAN DIEGO	683	683	100.0%	501	501	100.0%	182	182	100.0%			
SAN FRANCISCO	159	158	99.4%	77	77	100.0%	82	81	98.8%			
SAN JOAQUIN	199	199	100.0%	170	170	100.0%	29	29	100.0%			
SAN LUIS OBISPO	66	63	95.5%	48	48	100.0%	18	15	83.3%			
SAN MATEO	170	170	100.0%	112	112	100.0%	58	58	100.0%			
SANTA BARBARA	106	104	98.1%	79	79	100.0%	27	25	92.6%			
SANTA CLARA	405	405	100.0%	264	264	100.0%	141	141	100.0%			
SANTA CRUZ	68	65	95.6%	47	47	100.0%	21	18	85.7%			
SHASTA	76	73	96.1%	61	60	98.4%	15	13	86.7%			
SIERRA	3	3	100.0%	3	3	100.0%	0	0	0.0%			
SISKIYOU	36	36	100.0%	32	32	100.0%	4	4	100.0%			
SOLANO	78	72	92.3%	60	58	96.7%	18	14	77.8%			
SONOMA	149	149	100.0%	117	117	100.0%	32	32	100.0%			
STANISLAUS	140	138	98.6%	119	119	100.0%	21	19	90.5%			
SUTTER	35	34	97.1%	31	31	100.0%	4	3	75.0%			
TEHAMA	34	32	94.1%	32	32	100.0%	2	0	0.0%			
TRINITY	15	15	100.0%	15	15	100.0%	0	0	0.0%			
TULARE	133	129	97.0%	120	118	98.3%	13	11	84.6%			
TUOLUMNE	24	23	95.8%	18	18	100.0%	6	5	83.3%			
VENTURA	210	209	99.5%	145	145	100.0%	65	64	98.5%			
YOLO	46	46	100.0%	35	35	100.0%	11	11	100.0%			
YUBA	28	27	96.4%	27	26	96.3%	1	1	100.0%			

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		ENTRANTS WITH ALL REQ. IMMUN.		CONDITIONAL ENTRANTS		ENTRANTS WITH PME		ENTRANTS WITH PBE		OVERDUE	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	551,123	92.8%	511,708	4.4%	24,424	4.4%	931	0.2%	13,086	2.4%	974	0.18%
COUNTY	21,644	95.9%	20,752	2.5%	534	2.5%	28	0.1%	263	1.2%	67	0.31%
ALAMEDA	6	100.0%	6	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.00%
ALPINE	307	87.3%	268	6.5%	20	6.5%	3	1.0%	10	3.3%	6	1.95%
AMADOR	2,936	90.4%	2,654	4.0%	118	4.0%	6	0.2%	156	5.3%	2	0.07%
BUTTE	419	88.3%	370	0.7%	3	0.7%	0	0.0%	44	10.5%	2	0.48%
CALAVERAS	408	99.8%	407	0.2%	1	0.2%	0	0.0%	0	0.0%	0	0.00%
COLUSA	15,398	95.1%	14,645	2.7%	415	2.7%	31	0.2%	304	2.0%	3	0.02%
CONTRA COSTA	344	88.4%	304	2.9%	10	2.9%	0	0.0%	30	8.7%	0	0.00%
DEL NORTE	2,246	90.4%	2,031	2.0%	46	2.0%	7	0.3%	161	7.2%	1	0.04%
EL DORADO	18,763	96.2%	18,043	2.7%	512	2.7%	14	0.1%	181	1.0%	13	0.07%
FRESNO	483	94.6%	457	2.1%	10	2.1%	1	0.2%	12	2.5%	3	0.62%
GLENN	1,741	82.0%	1,428	7.0%	121	7.0%	5	0.3%	181	10.4%	6	0.34%
HUMBOLDT	3,200	95.3%	3,051	3.9%	126	3.9%	5	0.2%	17	0.5%	1	0.03%
IMPERIAL	209	98.6%	206	0.5%	1	0.5%	0	0.0%	2	1.0%	0	0.00%
INYO	16,492	95.3%	15,715	2.9%	471	2.9%	26	0.2%	247	1.5%	33	0.20%
KERN	2,588	96.9%	2,507	2.0%	52	2.0%	3	0.1%	24	0.9%	2	0.08%
KINGS	804	92.9%	747	3.9%	31	3.9%	6	0.7%	20	2.5%	0	0.00%
LAKE	378	86.0%	325	3.7%	14	3.7%	3	0.8%	36	9.5%	0	0.00%
LASSEN	134,209	90.0%	120,794	8.2%	11,061	8.2%	169	0.1%	1,995	1.5%	190	0.14%
LOS ANGELES	2,797	95.9%	2,681	2.4%	68	2.4%	6	0.2%	40	1.4%	2	0.07%
MADERA	3,306	88.5%	2,926	5.3%	176	5.3%	8	0.2%	196	5.9%	0	0.00%
MARIN	157	81.5%	128	5.1%	8	5.1%	0	0.0%	21	13.4%	0	0.00%
MARIPOSA	1,191	87.4%	1,041	4.4%	52	4.4%	5	0.4%	85	7.1%	8	0.67%
MENDOCINO	5,016	96.5%	4,842	2.0%	102	2.0%	5	0.1%	39	0.8%	28	0.56%
MERCED	128	87.5%	112	10.2%	13	10.2%	0	0.0%	1	0.8%	2	1.56%
MODOC	144	88.2%	127	0.7%	1	0.7%	0	0.0%	16	11.1%	0	0.00%
MONO	6,960	94.7%	6,593	3.5%	245	3.5%	16	0.2%	98	1.4%	8	0.11%
MONTEREY	1,750	93.4%	1,635	3.1%	54	3.1%	3	0.2%	58	3.3%	0	0.00%
NAPA	896	77.1%	691	3.3%	30	3.3%	2	0.2%	165	18.4%	8	0.89%
NEVADA												

#1323

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		ENTRANTS WITH ALL REQ. IMMUN.		CONDITIONAL ENTRANTS		ENTRANTS WITH PME		ENTRANTS WITH PBE		OVERDUE	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	551,123	92.8%	511,708	4.4%	24,424	4.4%	931	0.2%	13,086	2.4%	974	0.18%
COUNTY												
ORANGE	42,007	92.5%	38,848	4.2%	1,749	4.2%	92	0.2%	1,270	3.0%	48	0.11%
PLACER	5,756	88.8%	5,113	5.1%	292	5.1%	8	0.1%	343	6.0%	0	0.00%
PLUMAS	188	86.2%	162	3.2%	6	3.2%	3	1.6%	17	9.0%	0	0.00%
RIVERSIDE	34,506	95.2%	32,857	2.4%	819	2.4%	71	0.2%	728	2.1%	31	0.09%
SACRAMENTO	20,649	88.5%	18,281	7.0%	1,453	7.0%	29	0.1%	838	4.1%	48	0.23%
SAN BENITO	908	96.0%	872	2.1%	19	2.1%	5	0.6%	11	1.2%	1	0.11%
SAN BERNARDINO	34,118	94.9%	32,378	2.7%	938	2.7%	55	0.2%	651	1.9%	96	0.28%
SAN DIEGO	45,646	93.5%	42,686	2.4%	1,088	2.4%	108	0.2%	1,631	3.6%	133	0.29%
SAN FRANCISCO	6,524	92.5%	6,035	5.9%	382	5.9%	10	0.2%	96	1.5%	1	0.02%
SAN JOAQUIN	12,201	95.9%	11,706	2.2%	267	2.2%	18	0.1%	159	1.3%	51	0.42%
SAN LUIS OBISPO	3,147	89.7%	2,824	4.4%	140	4.4%	5	0.2%	174	5.5%	4	0.13%
SAN MATEO	9,757	95.2%	9,285	3.0%	295	3.0%	14	0.1%	159	1.6%	4	0.04%
SANTA BARBARA	6,721	94.9%	6,381	1.4%	92	1.4%	7	0.1%	240	3.6%	1	0.01%
SANTA CLARA	26,269	94.8%	24,897	3.2%	842	3.2%	59	0.2%	437	1.7%	34	0.13%
SANTA CRUZ	3,567	87.5%	3,120	3.1%	110	3.1%	13	0.4%	313	8.8%	11	0.31%
SHASTA	2,232	84.0%	1,875	7.2%	160	7.2%	1	0.0%	187	8.4%	9	0.40%
SIERRA	27	100.0%	27	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.00%
SISKIYOU	488	83.8%	409	7.2%	35	7.2%	0	0.0%	38	7.8%	6	1.23%
SOLANO	5,592	94.8%	5,303	3.3%	185	3.3%	9	0.2%	84	1.5%	11	0.20%
SONOMA	6,757	92.1%	6,220	2.5%	169	2.5%	15	0.2%	327	4.8%	26	0.38%
STANISLAUS	9,397	94.9%	8,920	2.4%	221	2.4%	16	0.2%	215	2.3%	25	0.27%
SUTTER	1,909	90.0%	1,719	1.6%	31	1.6%	6	0.3%	150	7.9%	3	0.16%
TEHAMA	1,011	94.1%	951	2.7%	27	2.7%	4	0.4%	28	2.8%	1	0.10%
TRINITY	139	77.0%	107	8.6%	12	8.6%	0	0.0%	20	14.4%	0	0.00%
TULARE	9,267	97.1%	8,996	1.8%	171	1.8%	7	0.1%	83	0.9%	10	0.11%
TUOLUMNE	569	77.7%	442	13.9%	79	13.9%	1	0.2%	47	8.3%	0	0.00%
VENTURA	12,718	94.2%	11,975	2.9%	374	2.9%	20	0.2%	316	2.5%	33	0.26%
YOLO	2,725	91.7%	2,500	4.7%	128	4.7%	1	0.0%	95	3.5%	1	0.04%
YUBA	1,408	94.7%	1,333	3.2%	45	3.2%	2	0.1%	27	1.9%	1	0.07%

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 4: NUMBER AND PERCENTAGE OF FULLY VACCINATED STUDENTS, AND 1 YEAR PERCENTAGE POINT CHANGE  
 AND NUMBER OF FULLY VACCINATED STUDENTS COMPARED TO LAST YEAR, BY COUNTY

	2015-2016			2014-2015			1-YEAR CHANGE	
	TOTAL STUDENTS	NUMBER FULLY VACC	PERCENT	TOTAL	NUMBER FULLY VACC	PERCENT	PERCENT	NUMBER FULLY VACC
STATE TOTAL	551,123	511,708	92.9%	535,234	483,877	90.4%	+2.5%	27,831
COUNTY								
ALAMEDA	21,644	20,752	95.9%	20,801	18,427	88.6%	+7.3%	+2325
ALPINE	6	6	100.0%	0	0	0.0%	-	-
AMADOR	307	268	87.3%	268	246	91.8%	-4.5%	+22
BUTTE	2,936	2,654	90.4%	2,735	2,386	87.2%	+3.2%	+268
CALAVERAS	419	370	88.3%	408	333	81.6%	+6.7%	+37
COLUSA	408	407	99.8%	403	398	98.8%	+1.0%	+9
CONTRA COSTA	15,398	14,645	95.1%	14,651	13,747	93.8%	+1.3%	+898
DEL NORTE	344	304	88.4%	331	294	88.8%	-0.4%	+10
EL DORADO	2,246	2,031	90.4%	2,195	1,982	90.3%	+0.1%	+49
FRESNO	18,763	18,043	96.2%	17,965	17,095	95.2%	+1.0%	+948
GLENN	483	457	94.6%	312	301	96.5%	-1.9%	+156
HUMBOLDT	1,741	1,428	82.0%	1,613	1,221	75.7%	+6.3%	+207
IMPERIAL	3,200	3,051	95.3%	3,110	2,905	93.4%	+1.9%	+146
INYO	209	206	98.6%	243	233	95.9%	+2.7%	-27
KERN	16,492	15,715	95.3%	16,098	15,051	93.5%	+1.8%	+664
KINGS	2,588	2,507	96.9%	2,722	2,633	96.7%	+0.1%	-126
LAKE	804	747	92.9%	845	768	90.9%	+2.0%	-21
LASSEN	378	325	86.0%	358	300	83.8%	+2.2%	+25
LOS ANGELES	134,209	120,794	90.0%	130,146	111,884	86.0%	+4.0%	+8910
MADERA	2,797	2,681	95.9%	2,246	2,088	93.0%	+2.9%	+593
MARIN	3,306	2,926	88.5%	3,334	2,806	84.2%	+4.3%	+120
MARIPOSA	157	128	81.5%	168	134	79.8%	+1.8%	-6
MENDOCINO	1,191	1,041	87.4%	1,191	967	81.2%	+6.2%	+74
MERCED	5,016	4,842	96.5%	5,199	4,948	95.2%	+1.4%	-106
MODOC	128	112	87.5%	111	103	92.8%	-5.3%	+9
MONO	144	127	88.2%	148	128	86.5%	+1.7%	-1
MONTEREY	6,960	6,593	94.7%	6,984	6,178	88.5%	+6.3%	+415
NAPA	1,750	1,635	93.4%	1,921	1,796	93.5%	-0.1%	-161
NEVADA	896	691	77.1%	854	620	72.6%	+4.5%	+71

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 4: NUMBER AND PERCENTAGE OF FULLY VACCINATED STUDENTS, AND 1 YEAR PERCENTAGE POINT CHANGE  
 AND NUMBER OF FULLY VACCINATED STUDENTS COMPARED TO LAST YEAR, BY COUNTY

	2015-2016			2014-2015			1-YEAR CHANGE	
	TOTAL STUDENTS	NUMBER FULLY VACC	PERCENT	TOTAL	NUMBER FULLY VACC	PERCENT	PERCENT	NUMBER FULLY VACC
STATE TOTAL	551,123	511,708	92.9%	535,234	483,877	90.4%	+2.5%	27,831
COUNTY								
ORANGE	42,007	38,848	92.5%	42,076	37,891	90.1%	+2.4%	+957
PLACER	5,756	5,113	88.8%	5,524	4,773	86.4%	+2.4%	+340
PLUMAS	188	162	86.2%	149	126	84.6%	+1.6%	+36
RIVERSIDE	34,506	32,857	95.2%	34,377	32,439	94.4%	+0.9%	+418
SACRAMENTO	20,649	18,281	88.5%	19,527	17,065	87.4%	+1.1%	+1,216
SAN BENITO	908	872	96.0%	897	868	96.8%	+0.7%	+4
SAN BERNARDINO	34,118	32,378	94.9%	33,818	31,706	93.8%	+1.1%	+672
SAN DIEGO	45,646	42,686	93.5%	43,827	40,468	92.3%	+1.2%	+2,218
SAN FRANCISCO	6,524	6,035	92.5%	6,560	5,670	86.4%	+6.1%	+365
SAN JOAQUIN	12,201	11,706	95.9%	11,742	11,221	95.6%	+0.4%	+485
SAN LUIS OBISPO	3,147	2,824	89.7%	2,982	2,599	87.2%	+2.6%	+225
SAN MATEO	9,757	9,285	95.2%	9,343	8,740	93.5%	+1.6%	+545
SANTA BARBARA	6,721	6,381	94.9%	6,641	6,269	94.4%	+0.5%	+112
SANTA CLARA	26,269	24,897	94.8%	24,541	22,893	93.3%	+1.5%	+2,004
SANTA CRUZ	3,567	3,120	87.5%	3,680	3,082	83.8%	+3.7%	+38
SHASTA	2,232	1,875	84.0%	2,245	1,899	84.6%	-0.6%	-24
SIERRA	27	27	100.0%	28	28	100.0%	-	-
SISKIYOU	488	409	83.8%	510	422	82.7%	+1.1%	-13
SOLANO	5,592	5,303	94.8%	5,273	4,982	94.5%	+0.4%	+321
SONOMA	6,757	6,220	92.1%	6,552	5,900	90.0%	+2.0%	+320
STANISLAUS	9,397	8,920	94.9%	8,921	8,335	93.4%	+1.5%	+585
SUTTER	1,909	1,719	90.0%	1,852	1,675	90.4%	-0.4%	+44
TEHAMA	1,011	951	94.1%	987	926	93.8%	+0.2%	+25
TRINITY	139	107	77.0%	114	93	81.6%	-4.6%	+14
TULARE	9,267	8,996	97.1%	9,315	8,992	96.5%	+0.5%	+4
TUOLUMNE	569	442	77.7%	462	358	77.5%	+0.2%	+84
VENTURA	12,718	11,975	94.2%	12,163	10,955	90.1%	+4.1%	+1,020
YOLO	2,725	2,500	91.7%	2,504	2,318	92.6%	-0.8%	+182
YUBA	1,408	1,333	94.7%	1,264	1,212	95.9%	-1.2%	+121

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 5: NUMBER AND PERCENTAGE OF 'CONDITIONAL' STUDENTS, AND 1 YEAR PERCENTAGE POINT CHANGE  
 AND NUMBER OF 'CONDITIONAL' STUDENTS COMPARED TO LAST YEAR, BY COUNTY

	2015-2016			2014-2015			1-YEAR CHANGE	
	TOTAL	CONDITIONALS	PERCENT	TOTAL	CONDITIONALS	PERCENT	PERCENT	CONDITIONALS
STATE TOTAL	551,123	24,424	4.4%	535,234	36,731	6.9%	-2.5%	-12,307
COUNTY								
ALAMEDA	21,644	534	2.5%	20,801	2,014	9.7%	-7.2%	-1,480
ALPINE	6	0	0.0%	0	0	-	-	-
AMADOR	307	20	6.5%	268	15	5.6%	+0.9%	+5
BUTTE	2,936	118	4.0%	2,735	170	6.2%	-2.2%	-52
CALAVERAS	419	3	0.7%	408	41	10.0%	-9.3%	-38
COLUSA	408	1	0.2%	403	3	0.7%	-0.5%	-2
CONTRA COSTA	15,398	415	2.7%	14,651	602	4.1%	-1.4%	-187
DEL NORTE	344	10	2.9%	331	8	2.4%	+0.5%	+2
EL DORADO	2,246	46	2.0%	2,195	41	1.9%	+0.1%	+5
FRESNO	18,763	512	2.7%	17,965	658	3.7%	-1.0%	-146
GLENN	483	10	2.1%	312	7	2.2%	-0.1%	+3
HUMBOLDT	1,741	121	7.0%	1,613	210	13.0%	-6.0%	-89
IMPERIAL	3,200	126	3.9%	3,110	188	6.0%	-2.1%	-62
INYO	209	1	0.5%	243	5	2.1%	-1.6%	-4
KERN	16,492	471	2.9%	16,098	669	4.2%	-1.3%	-198
KINGS	2,588	52	2.0%	2,722	62	2.3%	-0.3%	-10
LAKE	804	31	3.9%	845	36	4.3%	-0.4%	-5
LASSEN	378	14	3.7%	358	30	8.4%	-4.7%	-16
LOS ANGELES	134,209	11,061	8.2%	130,146	15,983	12.3%	-4.1%	-4,922
MADERA	2,797	68	2.4%	2,246	108	4.8%	-2.4%	-40
MARIN	3,306	176	5.3%	3,334	307	9.2%	-3.9%	-131
MARIPOSA	157	8	5.1%	168	10	6.0%	-0.9%	-2
MENDOCINO	1,191	52	4.4%	1,191	146	12.3%	-7.9%	-94
MERCED	5,016	102	2.0%	5,199	198	3.8%	-1.8%	-96
MODOC	128	13	10.2%	111	5	4.5%	+5.7%	+8
MONO	144	1	0.7%	148	4	2.7%	-2.0%	-3
MONTEREY	6,960	245	3.5%	6,984	686	9.8%	-6.3%	-441
NAPA	1,750	54	3.1%	1,921	61	3.2%	-0.1%	-7
NEVADA	896	30	3.3%	854	46	5.4%	-2.0%	-16

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 5: NUMBER AND PERCENTAGE OF 'CONDITIONAL' STUDENTS, AND 1 YEAR PERCENTAGE POINT CHANGE  
 AND NUMBER OF 'CONDITIONAL' STUDENTS COMPARED TO LAST YEAR, BY COUNTY

	2015-2016			2014-2015			1-YEAR CHANGE	
	TOTAL	CONDITIONALS	PERCENT	TOTAL	CONDITIONALS	PERCENT	PERCENT	CONDITIONALS
	STATE TOTAL	551,123	24,424	4.4%	535,234	36,731	6.9%	-2.5%
COUNTY								
ORANGE	42,007	1,749	4.2%	42,076	2,806	6.7%	-2.5%	-1,057
PLACER	5,756	292	5.1%	5,524	286	5.2%	-0.1%	+6
PLUMAS	188	6	3.2%	149	13	8.7%	-5.5%	-7
RIVERSIDE	34,506	819	2.4%	34,377	1,025	3.0%	-0.6%	-206
SACRAMENTO	20,649	1,453	7.0%	19,527	1,536	7.9%	-0.8%	-83
SAN BENITO	908	19	2.1%	897	16	1.8%	+0.3%	+3
SAN BERNARDINO	34,118	938	2.7%	33,818	1,317	3.9%	-1.1%	-379
SAN DIEGO	45,646	1,088	2.4%	43,827	1,744	4.0%	-1.6%	-656
SAN FRANCISCO	6,524	382	5.9%	6,560	762	11.6%	-5.8%	-380
SAN JOAQUIN	12,201	267	2.2%	11,742	367	3.1%	-0.9%	-100
SAN LUIS OBISPO	3,147	140	4.4%	2,982	207	6.9%	-2.5%	-67
SAN MATEO	9,757	295	3.0%	9,343	412	4.4%	-1.4%	-117
SANTA BARBARA	6,721	92	1.4%	6,641	168	2.5%	-1.2%	-76
SANTA CLARA	26,269	842	3.2%	24,541	1,203	4.9%	-1.7%	-361
SANTA CRUZ	3,567	110	3.1%	3,680	243	6.6%	-3.5%	-133
SHASTA	2,232	160	7.2%	2,245	173	7.7%	-0.5%	-13
SIERRA	27	0	0.0%	28	0	0.0%	-	-
SISKIYOU	488	35	7.2%	510	57	11.2%	-4.0%	-22
SOLANO	5,592	185	3.3%	5,273	192	3.6%	-0.3%	-7
SONOMA	6,757	169	2.5%	6,552	275	4.2%	-1.7%	-106
STANISLAUS	9,397	221	2.4%	8,921	282	3.2%	-0.8%	-61
SUTTER	1,909	31	1.6%	1,852	63	3.4%	-1.8%	-32
TEHAMA	1,011	27	2.7%	987	19	1.9%	+0.7%	+8
TRINITY	139	12	8.6%	114	11	9.6%	-1.0%	+1
TULARE	9,267	171	1.8%	9,315	221	2.4%	-0.5%	-50
TUOLUMNE	569	79	13.9%	462	69	14.9%	-1.1%	+10
VENTURA	12,718	374	2.9%	12,163	825	6.8%	-3.8%	-451
YOLO	2,725	128	4.7%	2,504	103	4.1%	+0.6%	+25
YUBA	1,408	45	3.2%	1,264	23	1.8%	+1.4%	+22

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 6: NUMBER AND PERCENTAGE OF PBE STUDENTS AND PERCENTAGE POINT CHANGE COMPARED TO LAST YEAR,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH PBE						TOTAL PBE		PERCENTAGE POINT CHANGE
			PBE TYPE		RELIGIOUS		2015-16		2014-15		
	NUMBER	PERCENT	HEALTH CARE PRACTITIONER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	
STATE TOTAL	551,123		9,987	1.81%	3,099	0.56%	13,086	2.37%	2.54%	-0.17%	
COUNTY											
ALAMEDA	21644		214	0.99%	49	0.23%	263	1.22%	1.54%	-0.33%	
ALPINE	6		0	0.00%	0	0.00%	0	0.00%	0.00%	0.00%	
AMADOR	307		8	2.61%	2	0.65%	10	3.26%	2.61%	+0.65%	
BUTTE	2936		114	3.88%	42	1.43%	156	5.31%	5.96%	-0.65%	
CALAVERAS	419		28	6.68%	16	3.82%	44	10.50%	8.33%	+2.17%	
COLUSA	408		0	0.00%	0	0.00%	0	0.00%	0.50%	-0.50%	
CONTRA COSTA	15398		231	1.50%	73	0.47%	304	1.97%	1.90%	+0.07%	
DEL NORTE	344		13	3.78%	17	4.94%	30	8.72%	7.55%	+1.17%	
EL DORADO	2246		108	4.81%	53	2.36%	161	7.17%	7.61%	-0.44%	
FRESNO	18763		114	0.61%	67	0.36%	181	0.96%	1.03%	-0.07%	
GLENN	483		10	2.07%	2	0.41%	12	2.48%	0.96%	+1.52%	
HUMBOLDT	1741		142	8.16%	39	2.24%	181	10.40%	10.85%	-0.45%	
IMPERIAL	3200		10	0.31%	7	0.22%	17	0.53%	0.45%	+0.08%	
INYO	209		0	0.00%	2	0.96%	2	0.96%	2.06%	-1.10%	
KERN	16492		176	1.07%	71	0.43%	247	1.50%	1.77%	-0.27%	
KINGS	2588		21	0.81%	3	0.12%	24	0.93%	0.81%	-0.12%	
LAKE	804		16	1.99%	4	0.50%	20	2.49%	4.85%	-2.36%	
LASSEN	378		12	3.17%	24	6.35%	36	9.52%	7.82%	+1.70%	
LOS ANGELES	134,209		1485	1.11%	510	0.38%	1,995	1.49%	1.62%	-0.13%	
MADERA	2,797		27	0.97%	13	0.46%	40	1.43%	2.00%	-0.57%	
MARIN	3,306		195	5.90%	1	0.03%	196	5.93%	6.45%	-0.52%	
MARIPOSA	157		17	10.83%	4	2.55%	21	13.38%	14.29%	-0.91%	
MENDOCINO	1,191		63	5.29%	22	1.85%	85	7.14%	6.30%	-0.84%	
MERCED	5,016		25	0.50%	14	0.28%	39	0.78%	0.98%	-0.20%	
MODOC	128		0	0.00%	1	0.78%	1	0.78%	2.70%	-1.92%	
MONO	144		12	8.33%	4	2.78%	16	11.11%	10.81%	-0.30%	
MONTEREY	6,960		70	1.01%	28	0.40%	98	1.41%	1.60%	-0.19%	
NAPA	1,750		35	2.00%	23	1.31%	58	3.31%	3.18%	+0.14%	
NEVADA	896		151	16.85%	14	1.56%	165	18.42%	21.55%	-3.13%	

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 6: NUMBER AND PERCENTAGE OF PBE STUDENTS AND PERCENTAGE POINT CHANGE COMPARED TO LAST YEAR,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH PBE						TOTAL PBE		PERCENTAGE POINT CHANGE
			PBE TYPE		RELIGIOUS		2015-16		2014-15		
	NUMBER		HEALTH CARE PRACTITIONER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	
STATE TOTAL	551,123		9,987	1.81%	3,099	0.56%	13,086	2.37%	2.54%	-0.17%	
COUNTY											
ORANGE	42,007		1,072	2.55%	198	0.47%	1,270	3.02%	2.99%	+0.03%	
PLACER	5,756		264	4.59%	79	1.37%	343	5.96%	8.00%	-2.04%	
PLUMAS	188		17	9.04%	0	0.00%	17	9.04%	6.71%	+2.33%	
RIVERSIDE	34,506		589	1.71%	139	0.40%	728	2.11%	2.48%	-0.37%	
SACRAMENTO	20,649		564	2.73%	274	1.33%	838	4.06%	4.54%	-0.48%	
SAN BENITO	908		10	1.10%	1	0.11%	11	1.21%	1.23%	-0.01%	
SAN BERNARDINO	34,118		468	1.37%	183	0.54%	651	1.91%	2.18%	-0.27%	
SAN DIEGO	45,646		1,177	2.58%	454	0.99%	1,631	3.57%	3.46%	+0.11%	
SAN FRANCISCO	6,524		77	1.18%	19	0.29%	96	1.47%	1.80%	-0.33%	
SAN JOAQUIN	12,201		115	0.94%	44	0.36%	159	1.30%	1.13%	-0.17%	
SAN LUIS OBISPO	3,147		145	4.61%	29	0.92%	174	5.53%	5.53%	0.00%	
SAN MATEO	9,757		150	1.54%	9	0.09%	159	1.63%	1.85%	-0.22%	
SANTA BARBARA	6,721		178	2.65%	62	0.92%	240	3.57%	2.94%	-0.63%	
SANTA CLARA	26,269		323	1.23%	114	0.43%	437	1.66%	1.57%	-0.09%	
SANTA CRUZ	3,567		250	7.01%	63	1.77%	313	8.77%	9.35%	-0.57%	
SHASTA	2,232		145	6.50%	42	1.88%	187	8.38%	7.53%	-0.85%	
SIERRA	27		0	0.00%	0	0.00%	0	0.00%	0.00%	0.00%	
SISKIYOU	488		26	5.33%	12	2.46%	38	7.79%	6.08%	-1.71%	
SOLANO	5,592		77	1.38%	7	0.13%	84	1.50%	1.80%	-0.30%	
SONOMA	6,757		298	4.41%	29	0.43%	327	4.84%	5.54%	-0.70%	
STANISLAUS	9,397		162	1.72%	53	0.56%	215	2.29%	3.25%	-0.96%	
SUTTER	1,909		86	4.50%	64	3.35%	150	7.86%	5.83%	+2.02%	
TEHAMA	1,011		27	2.67%	1	0.10%	28	2.77%	4.15%	-1.38%	
TRINITY	139		15	10.79%	5	3.60%	20	14.39%	8.77%	+5.62%	
TULARE	9,267		70	0.76%	13	0.14%	83	0.90%	0.96%	-0.06%	
TUOLUMNE	569		27	4.75%	20	3.51%	47	8.26%	7.36%	-0.90%	
VENTURA	12,718		247	1.94%	69	0.54%	316	2.48%	3.05%	-0.57%	
YOLO	2,725		89	3.27%	6	0.22%	95	3.49%	3.23%	-0.25%	
YUBA	1,408		22	1.56%	5	0.36%	27	1.92%	2.22%	-0.30%	

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 7: NUMBER AND PERCENTAGE OF FULLY VACCINATED STUDENTS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
		NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	551,123	519,114	94.2%	521,935	94.7%	520,974	94.5%	527,991	95.8%	530,716	96.3%
COUNTY	21644	20,952	96.8%	21,018	97.1%	21,012	97.1%	21,074	97.4%	21,175	97.8%
ALAMEDA	6	6	100.0%	6	100.0%	6	100.0%	6	100.0%	6	100.0%
ALPINE	307	275	89.6%	276	89.9%	273	88.9%	286	93.2%	287	93.5%
AMADOR	2936	2,683	91.4%	2,706	92.2%	2,681	91.3%	2,734	93.1%	2,738	93.3%
BUTTE	419	371	88.5%	372	88.8%	372	88.8%	373	89.0%	373	89.0%
CALAVERAS	408	407	99.8%	407	99.8%	407	99.8%	408	100.0%	407	99.8%
COLUSA	15398	14,776	96.0%	14,811	96.2%	14,828	96.3%	14,926	96.9%	14,980	97.3%
CONTRA COSTA	344	306	89.0%	305	88.7%	306	89.0%	307	89.2%	309	89.8%
DEL NORTE	2246	2,042	90.9%	2,053	91.4%	2,054	91.5%	2,058	91.6%	2,071	92.2%
EL DORADO	18763	18,179	96.9%	18,264	97.3%	18,279	97.4%	18,425	98.2%	18,485	98.5%
FRESNO	483	459	95.0%	462	95.7%	460	95.2%	466	96.5%	466	96.5%
GLENN	1741	1,467	84.3%	1,467	84.3%	1,471	84.5%	1,489	85.5%	1,514	87.0%
HUMBOLDT	3200	3,095	96.7%	3,112	97.3%	3,094	96.7%	3,147	98.3%	3,155	98.6%
IMPERIAL	209	207	99.0%	207	99.0%	206	98.6%	207	99.0%	206	98.6%
INYO	16492	15,867	96.2%	15,995	97.0%	15,933	96.6%	16,063	97.4%	16,144	97.9%
KERN	2588	2,517	97.3%	2,542	98.2%	2,547	98.4%	2,550	98.5%	2,558	98.8%
KINGS	804	757	94.2%	757	94.2%	755	93.9%	770	95.8%	778	96.8%
LAKE	378	329	87.0%	331	87.6%	331	87.6%	334	88.4%	336	88.9%
LASSEN	134209	124,321	92.6%	125,031	93.2%	124,562	92.8%	127,894	95.3%	128,632	95.8%
LOS ANGELES	2,797	2,693	96.3%	2,717	97.1%	2,722	97.3%	2,732	97.7%	2,738	97.9%
MADERA	3,306	2,993	90.5%	3,011	91.1%	3,009	91.0%	3,033	91.7%	3,069	92.8%
MARIN	157	129	82.2%	133	84.7%	131	83.4%	134	85.4%	135	86.0%
MARIPOSA	1,191	1,054	88.5%	1,061	89.1%	1,071	89.9%	1,070	89.8%	1,081	90.8%
MENDOCINO	5,016	4,868	97.0%	4,883	97.3%	4,883	97.3%	4,911	97.9%	4,931	98.3%
MERCED	128	113	88.3%	116	90.6%	114	89.1%	120	93.8%	120	93.8%
MODOC	144	127	88.2%	127	88.2%	127	88.2%	128	88.9%	128	88.9%
MONO	6,960	6,661	95.7%	6,697	96.2%	6,704	96.3%	6,764	97.2%	6,790	97.6%
MONTEREY	1,750	1,654	94.5%	1,659	94.8%	1,651	94.3%	1,670	95.4%	1,686	96.3%
NAPA	896	701	78.2%	702	78.3%	701	78.2%	711	79.4%	709	79.1%
NEVADA											

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2015-2016  
 TABLE 7: NUMBER AND PERCENTAGE OF FULLY VACCINATED STUDENTS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
		NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	551,123	519,114	94.2%	521,935	94.7%	520,974	94.5%	527,991	95.8%	530,716	96.3%
COUNTY											
ORANGE	42,007	39,374	93.7%	39,621	94.3%	39,568	94.2%	40,130	95.5%	40,334	96.0%
PLACER	5,756	5,208	90.5%	5,242	91.1%	5,207	90.5%	5,307	92.2%	5,369	93.3%
PLUMAS	188	164	87.2%	163	86.7%	163	86.7%	168	89.4%	167	88.8%
RIVERSIDE	34,506	33,073	95.8%	33,285	96.5%	33,258	96.4%	33,433	96.9%	33,587	97.3%
SACRAMENTO	20,649	18,533	89.8%	18,815	91.1%	18,650	90.3%	19,354	93.7%	19,506	94.5%
SAN BENITO	908	878	96.7%	878	96.7%	875	96.4%	884	97.4%	887	97.7%
SAN BERNARDINO	34,118	32,592	95.5%	32,803	96.1%	32,757	96.0%	32,960	96.6%	33,112	97.1%
SAN DIEGO	45,646	43,078	94.4%	43,212	94.7%	43,184	94.6%	43,360	95.0%	43,596	95.5%
SAN FRANCISCO	6,524	6,120	93.8%	6,152	94.3%	6,165	94.5%	6,241	95.7%	6,270	96.1%
SAN JOAQUIN	12,201	11,810	96.8%	11,845	97.1%	11,828	96.9%	11,898	97.5%	11,934	97.8%
SAN LUIS OBISPO	3,147	2,859	90.8%	2,864	91.0%	2,891	91.9%	2,937	93.3%	2,949	93.7%
SAN MATEO	9,757	9,396	96.3%	9,452	96.9%	9,420	96.5%	9,477	97.1%	9,527	97.6%
SANTA BARBARA	6,721	6,435	95.7%	6,441	95.8%	6,428	95.6%	6,436	95.8%	6,469	96.3%
SANTA CLARA	26,269	25,181	95.9%	25,310	96.3%	25,285	96.3%	25,518	97.1%	25,615	97.5%
SANTA CRUZ	3,567	3,184	89.3%	3,185	89.3%	3,189	89.4%	3,171	88.9%	3,220	90.3%
SHASTA	2,232	1,898	85.0%	1,912	85.7%	1,914	85.8%	1,993	89.3%	2,008	90.0%
SIERRA	27	27	100.0%	27	100.0%	27	100.0%	27	100.0%	27	100.0%
SISKIYOU	488	418	85.7%	421	86.3%	417	85.5%	426	87.3%	425	87.1%
SOLANO	5,592	5,347	95.6%	5,388	96.4%	5,368	96.0%	5,429	97.1%	5,471	97.8%
SONOMA	6,757	6,297	93.2%	6,302	93.3%	6,317	93.5%	6,309	93.4%	6,357	94.1%
STANISLAUS	9,397	8,982	95.6%	9,009	95.9%	8,997	95.7%	9,089	96.7%	9,127	97.1%
SUTTER	1,909	1,726	90.4%	1,733	90.8%	1,732	90.7%	1,740	91.1%	1,748	91.6%
TEHAMA	1,011	959	94.9%	970	95.9%	965	95.5%	970	95.9%	971	96.0%
TRINITY	139	109	78.4%	109	78.4%	107	77.0%	113	81.3%	114	82.0%
TULARE	9,267	9,039	97.5%	9,081	98.0%	9,094	98.1%	9,129	98.5%	9,158	98.8%
TUOLUMNE	569	460	80.8%	466	81.9%	462	81.2%	500	87.9%	495	87.0%
VENTURA	12,718	12,066	94.9%	12,114	95.3%	12,114	95.3%	12,252	96.3%	12,291	96.6%
YOLO	2,725	2,541	93.2%	2,546	93.4%	2,549	93.5%	2,576	94.5%	2,599	95.4%
YUBA	1,408	1,351	96.0%	1,361	96.7%	1,353	96.1%	1,374	97.6%	1,376	97.7%

**APPENDIX G**

**2016-2017 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## 2016-2017 Kindergarten Immunization Assessment – Executive Summary California Department of Public Health, Immunization Branch

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Each autumn California schools are required to report to the California Department of Public Health (CDPH) the status of their students under state immunization requirement laws. In recent years there have been changes to these laws and how public health departments assist schools to implement them. In 2014 and 2015 Assembly Bill (AB) 2109 added requirements for exemptions to required immunizations based on personal beliefs. For the 2016-2017 school year, Senate Bill (SB) 277 no longer permits entrants to receive such personal beliefs exemptions (PBEs). During the 2015-2016 and 2016-2017 school years, many public health departments in California have assisted schools in correctly identifying and supporting eligible students, described as conditional entrants, who catch up with immunization requirements after entry.

Compared to the 2015-2016 school year, the proportion of students attending kindergarten in 2016-2017 reported to have received all required vaccines rose from 92.8% to 95.6%, a 2.8 percentage point increase over one year and a 5.2 percentage point increase over the two years since 2014-2015. The 2016-2017 rate of 95.6% is the highest reported for the current set of immunization requirements for kindergarten, which began in the 2001-2002 school year.

Completion rates for each specific immunization series also increased, in a range from 2.0 percentage points for Hepatitis B vaccine to 2.8 percentage points for measles, mumps and rubella (MMR) vaccine. Fourteen (24%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR vaccine, compared to 31 (53%) counties in 2015-2016.

The proportion of kindergarteners reported as conditional entrants declined from 4.4% in 2015-2016 to 1.9% in 2016-17, a 2.5 percentage point decrease over one year and a 5.0 percentage point decrease over the two years since 2014-2015. The present rate of 1.9% is the lowest reported for the current set of immunization requirements for kindergarten.

The proportion of kindergarteners reported with PBEs decreased in 2016-2017 from 2.4% to 0.6%: Under SB 277, PBEs have remained valid for children who entered multiyear kindergarten programs (e.g., transitional kindergarten) before 2016 and continue in kindergarten during 2016-2017. Previously under measures specified in AB 2109, the rate of PBEs had decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016.

The proportion of kindergarteners reported with permanent medical exemptions increased from 0.2%.to 0.5% in 2016-2017. Another 0.5% of kindergarteners were reported in a new category as lacking immunizations for other reasons specified under SB 277, including attending private home schools or qualified independent study programs. The percentage of students reported as being overdue for required immunizations increased from 0.2% to 1.0% in 2016-2017.

Possible explanations for the improvements in the reported immunization coverage of kindergarteners in California include, but are not limited to:

- Efforts by public health departments, schools, medical providers and partner organizations to help ensure that children meet school immunization requirements.
- Increased public awareness about the importance of immunizations in the aftermath of outbreaks of vaccine-preventable diseases.
- The recent laws, SB 277 and AB 2109.
- Audits of eligible schools in 2016 and 2017 for compliance with immunization laws.

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.

## 2016-2017 Kindergarten Immunization Assessment – Technical Notes

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### Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120325-120375). This report summarizes data for the 2016-2017 school year reported by public and private kindergartens statewide (Table 1, Figures 1-8) and by county (Tables 2-11).

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. 2016-2017 is the first school year that entrants have been subject to [Senate Bill \(SB\) 277](#), which no longer permits them to receive such personal beliefs exemptions (PBEs).

During the 2015-2016 and 2016-2017 school years, many public health departments in California have worked with schools to improve their application of the [Conditional Admission Immunization Schedule](#) for the conditional entrance of eligible students.

Many California schools offer a two-year kindergarten curriculum in which children as young as 4 years of age may receive an initial year of transitional kindergarten.

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### Methods

During the autumn of 2016, California schools registered with the California Department of Education reported data on kindergarteners in the 2016-2017 school year to the California Department of Public Health (CDPH). Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:
  - 4 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine
  - 3 or more of Polio vaccine
  - 2 or more of Measles, Mumps and Rubella (MMR) vaccine
  - 3 or more of Hepatitis B (Hep B) vaccine, and
  - 1 or more of Varicella (Var) vaccine or a history documented by a physician of having had chickenpox.
- Conditional entrants who had:
  - Not received all required doses but were not overdue for required doses, or
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Entered a multiyear kindergarten program prior to the 2016-2017 school year with a personal beliefs exemption (PBE) and continued in kindergarten during the 2016-2017 school year. Under SB 277, PBEs were no longer an option for children entering kindergarten in the 2016-2017 school year.
- Other students lacking immunizations, a new category. Under SB 277, entrants in the 2016-2017 school year are not required to have immunizations if they attend:
  - A home-based private school or
  - An independent study program and do not receive classroom-based instruction.

- Also, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.

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

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

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

Due to rounding, total figures may differ from the sums of their components.

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## Results

The number of kindergarteners in California whose immunization status was reported increased from 551,123 in the 2015-2016 school year to 562,924 in 2016-2017 (Table 1). The increase reflects reporting from public schools, as the number of students reported from private schools was 42,665 in 2015-2016 and 42,298 in 2016-2017. Although the number of public schools that reported each year was similar, the number of private schools that reported decreased from 1,902 in the 2015-2016 school year to 1,853 in 2016-2017 (Tables 1 and 2). Private schools account for 8% (42,298/562,924) of all kindergarteners about whom data was reported in 2016-2017, 24% (1,853/7,820) of all schools that reported data on kindergarteners and 81% (362/446) of schools that did not report.

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

All required immunizations: Of 562,924 kindergarteners whose schools reported their status, 537,991 (95.6%) had received all required immunizations, an increase from the previous school year of 2.8 percentage points (Table 1) and an increase over two school years of 5.2 percentage points (Figures 1, 6). Compared to the 2015-2016 school year, the percentage of students with all required immunizations increased in 50 (86%) of 58 counties (Table 5). For counties reporting at least 25 students, the highest rates were reported in Tulare (98.5%) and San Benito (98.1%) Counties (Tables 3-5). In 2016-2017, 9 (16%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90%, compared to 20 (34%) counties in 2015-2016 (Tables 4 and 5, Figure 9).

As in past years, a higher proportion of students in public compared to private schools were reported as having had all required immunizations (95.9% vs. 91.6%; difference of 4.3 percentage points) (Table 1, Figures 7 and 8). However, this gap is smaller in 2016-2017 than it was in 2015-2016 (93.2% vs. 88.2%; difference of 5.0 percentage points), as the one-year increase by 2.7 percentage points in public schools was not as large as the increase by 3.4 percentage points in private schools.

Specific immunizations: Completion rates for specific immunizations increased between 2.0 percentage points for Hep B to 2.8 percentage points for MMR (Tables 1 and 11, Figure 5).

Rates for receipt are higher in public schools; for MMR, 97.6% of students at public schools and 94.4% at private schools were reported as having received two doses, an increase from 2015-2016 respectively of 2.7 percentage points and 3.9 percentage points. In 2016-2017, 14 (24%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), compared to 31 (53%) counties in 2015-2016.

Conditional entrants: Over the last two school years, the proportion of students reported as conditional entrants decreased from 6.9% in 2014-2015 to 1.9% in 2016-2017 (Table 1, Figures 2 and 6). Compared to the 2015-2016 school year, the proportion of conditional entrants in 2016-2017 decreased by 2.5 percentage points. The rate of conditional entrants decreased in both public (-2.5 percentage points) and private (-2.9 percentage points) schools (Table 1). Of 58 counties, 43 (74%) reported overall reductions in conditional entrants, with the largest reductions reported for Tuolumne (-10.4 percentage points) and Los Angeles (-6.3 percentage points) Counties (Table 6). Of the 1.9% of students reported as conditional entrants in 2016-2017, 0.2% were reported as having had a temporary medical exemption.

PMEs: The percentage of students with PMEs increased from 0.2% in 2015-2016 to 0.5% in 2016-2017 (Tables 1 and 7, Figure 3). In public schools, the number of students reported with PMEs increased from 787 (0.2%) to 2,252 (0.4%) (Figure 7), while for private schools, the number of students increased from 144 (0.3%) to 598 (1.4%) (Figure 8).

PBEs: With the option of PBEs available to prior entrants but no longer to new entrants under SB 277, the percentage of kindergarteners with PBEs in 2016-2017 was 0.6%, compared to 2.4% (-1.8 percentage points) in 2015-2016 and 3.2% (-2.6 percentage points) in 2013-2014 (Figures 4 and 6, Table 8). In 2016-2017 PBE rates declined over one year by 3.5 percentage points (from 4.9% to 1.4%) in private schools and 1.7 percentage points (from 2.2% to 0.5%) in public schools (Table 1, Figures 7 and 8). The rates of PBEs continue to vary by county, with a range of 0% - 7% (Table 8).

Other students lacking required immunizations: In 2016-2017, 0.5% of kindergarteners were reported to be lacking one or more required immunizations and to attend an independent study program and do not receive classroom-based instruction, attend a home-based private school, or receive services in an IEP (Tables 1 and 9).

Overdue: The percentage of students reported as being overdue for one or more immunizations (Tables 1 and 3) increased from 0.2% in 2015-2016 to 1.0% in 2016-2017. (Table 1, Figure 6). In public schools the number of students reported as overdue increased from 915 (0.2%) to 4,950 (1.0%) (Figure 7). For private schools the number of students reported as overdue increased from 59 (0.1%) to 700 (1.7%) (Figure 8).

Combined categories: Kindergarteners who are required to receive all mandated vaccines are reported in three categories: having received all required vaccines; conditional entrants; and being overdue for required doses. The kindergarteners who were reported in the sum of these three categories increased by 1 percentage point from 97.5% in 2015-2016 to 98.5% in 2016-2017.

Conversely the sum of kindergarteners reported as not having to receive all required immunizations in elementary school because of PMEs, PBEs, or, starting in the 2016-2017 school year, for other criteria specified in SB 277, decreased by 1 percentage point from 2.5% in 2015-2016 to 1.5% in 2016-2017; the combined rate for public schools decreased from 2.3% to 1.4% and for private schools from 5.3% to 3.3%.

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## Discussion

When comparing the 2016-2017 school year to 2015-2016, the proportion of students reported to enter kindergarten in California after receiving all required immunizations increased by 2.8 percentage points to 95.6%, following an increase by 2.4 percentage points between the 2014-2015 and 2015-2016 school years. The 2016-2017 rate of 95.6% is the highest reported to CDPH since varicella vaccine became the most recent addition to the immunizations required for kindergarteners, which began in the 2001-2002 school year.

The 5.2 percentage point increase in the receipt of all required vaccines over the previous two school years is similar in magnitude to a 5.0 percentage point decrease in kindergarteners reported as conditional entrants. The proportion of conditional entrants has decreased by 2.5 percentage points each school year between 2014-2015 and 2016-2017. The current reported rate of conditional entrants, 1.9%, is the lowest reported for the current panel of required immunizations in place since the 2001-2002 school year.

Since 2015 local health departments and CDPH have intensified efforts to educate school staff on the proper use of conditional entrance criteria based on the [Conditional Admission Immunization Schedule](#). In addition, annual financial and compliance audits of local education agencies for the 2015-2016 and 2016-2017 school years have been inspecting reimbursement for attendance at schools with higher rates of conditional entrance. It is likely that these measures to promote compliance have contributed to the decreases in students reported as conditional entrants and the increases in those reported as having received all required vaccines. These changes might also be attributable to an increased awareness of the risks of vaccine-preventable diseases and benefits of immunization, triggered in part by the measles outbreak that spread from Disneyland in December 2014 to at least 7 additional states and 2 other countries<sup>1</sup>.

It is possible that children who in previous school years would have been inaccurately categorized as conditional entrants represent some of the 1.0% of entrants reported as overdue in 2016-2017. Many schools that in the 2016-2017 school year have reported children as being overdue for required immunizations instead reported in prior school years higher rates of conditional entrants; they have also reported low rates for the other categories of students without all required immunizations. The increase in overdue students (+0.8 percentage points) can account for no more than a third of the reduction in conditional entrants (-2.5 percentage points). Continued efforts to educate schools and support immunization services might further reduce the number of children who are categorized at the beginning of the future school years either as conditional entrants or overdue; in sum these categories account for 2.9% of kindergarteners reported in 2016-2017, a decrease from 4.6% reported in 2015-2016.

With the additional measures required under AB 2109 for requesting PBEs during 2014 and 2015, the rate of PBEs decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016. With the implementation of SB 277 and the cessation of PBEs for new (but not prior) entrants, the percentage of kindergarteners with PBEs in 2016-2017 has decreased to 0.6%. As children currently in kindergarten advance to higher grades, the proportion of kindergarteners with PBEs is expected to decrease to zero. In 2016-2017, 0.5% of kindergarteners were reported with PBEs, and another 0.5% lacked required immunizations under other criteria introduced in SB 277. With rounding, 1.5% of entrants were reported as not having had required immunizations

<sup>1</sup> [https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s\\_cid=mm6406a5\\_w](https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s_cid=mm6406a5_w)

because of PBEs, PME's or other criteria related to SB 277, decreased from 2.5% in 2015-2016. Future assessments will follow the trends for these measurements as kindergarteners no longer qualify for PBEs.

Despite the improvements in reported immunization rates, children in schools and communities with lower rates remain at higher risk of contracting and transmitting vaccine preventable diseases. In 2016-2017, 9 (16%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90% (Figure 9), compared to 20 (34%) in 2015-2016. The number of counties that report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), an approximate threshold necessary to prevent the transmission of measles, has decreased from 31 (53%) in 2015-2016 to 14 (24%) in 2016-2017. As an additional source of vulnerability, recent changes to California's school immunization laws did not apply to earlier cohorts of children who are no longer of school age. Unimmunized older children and adults were amongst those who caught measles in the Disneyland outbreak in 2014 and 2015. For these individuals, decisions that were made in previous decades to not immunize have had lingering consequences for themselves and their communities.

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## Limitations

This report is subject to limitations that include:

- 446 California elementary schools, including 362 private schools and 84 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of them enrolled kindergarteners this year or the immunization status of their kindergarteners.
- As in previous years, 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.
- Part of the relative improvements in the completion rates of specific vaccines may have been due to the inclusion in reporting this year of doses received by partially immunized children who had PBEs or PME's to other required immunizations. In reporting to CDPH during prior school years, doses received by children with exemptions were not included in completion rates for any specific vaccine. This may have resulted in underestimates of completion rates in prior years and overestimates of the increases in the completion rates for specific vaccines between 2016-2017 and prior years. The magnitude of the resultant increase to the rate of any immunization series in 2016-2017 resulting from this change in reporting could be no greater than 1.5%, the total of students reported in categories as not having to receive all required immunizations (PME's, PBE's or the new category of other criteria specified in SB 277). This reporting change should not have affected rates, or changes in rates, for the category of having received all required vaccines.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, the reported rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would underestimate immunization coverage. Any improvements over time in completion of records since the time of reporting would increase estimates of coverage.
- Changes over time in the quality of reporting by schools are another potential explanation for changes in immunization rates.

For further information, please contact the CDPH Immunization Branch at [SchoolAssessments@cdph.ca.gov](mailto:SchoolAssessments@cdph.ca.gov).

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

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

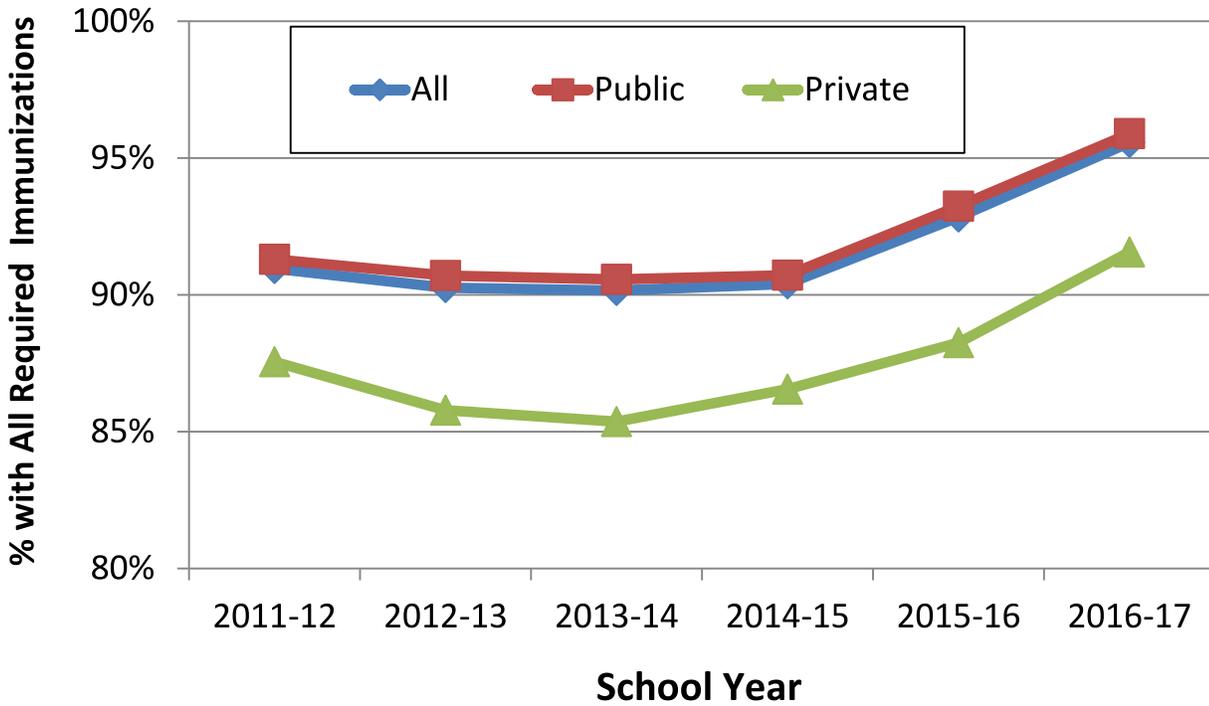


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2011-2012 to 2016-2017

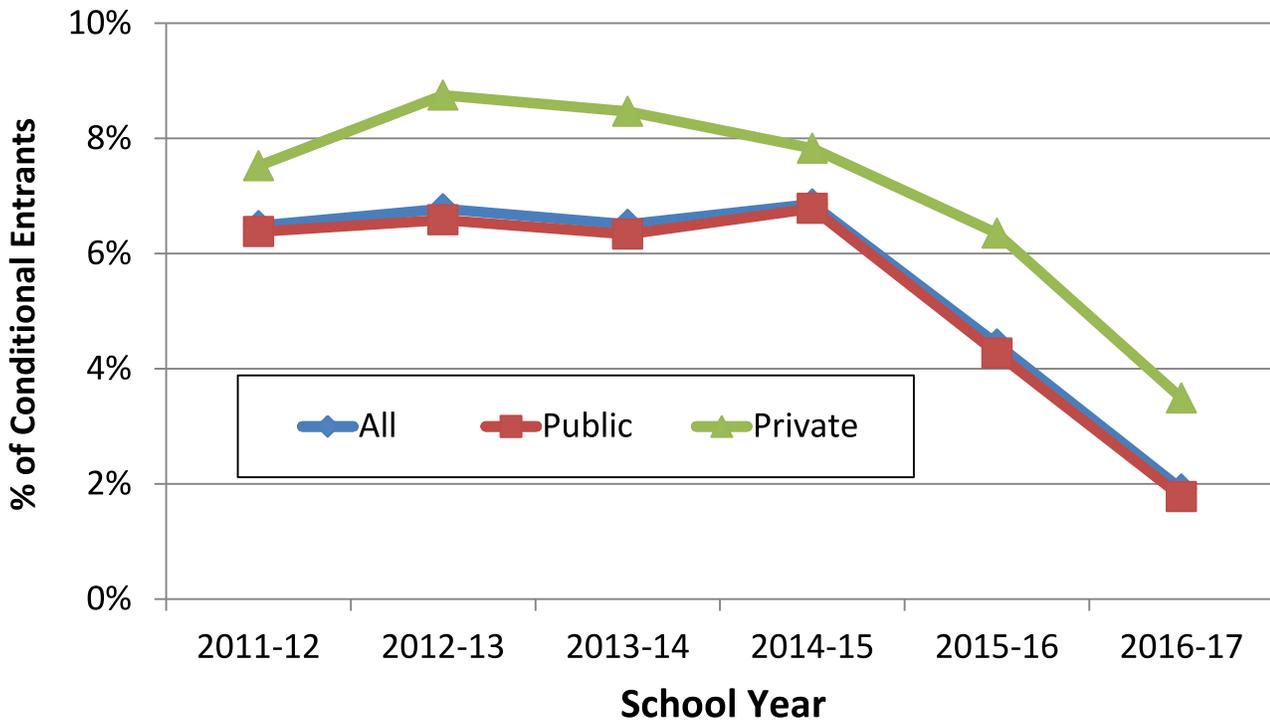


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2011-2012 to 2016-2017

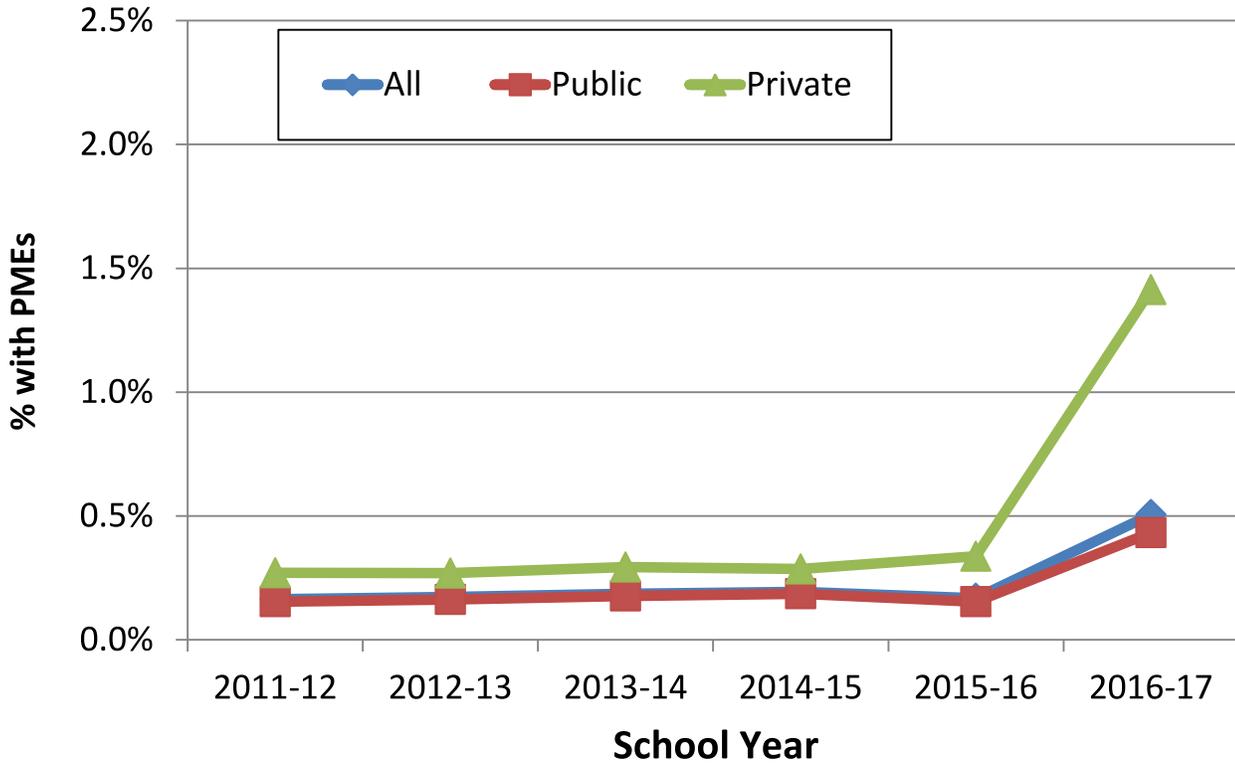


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2011-2012 to 2016-2017

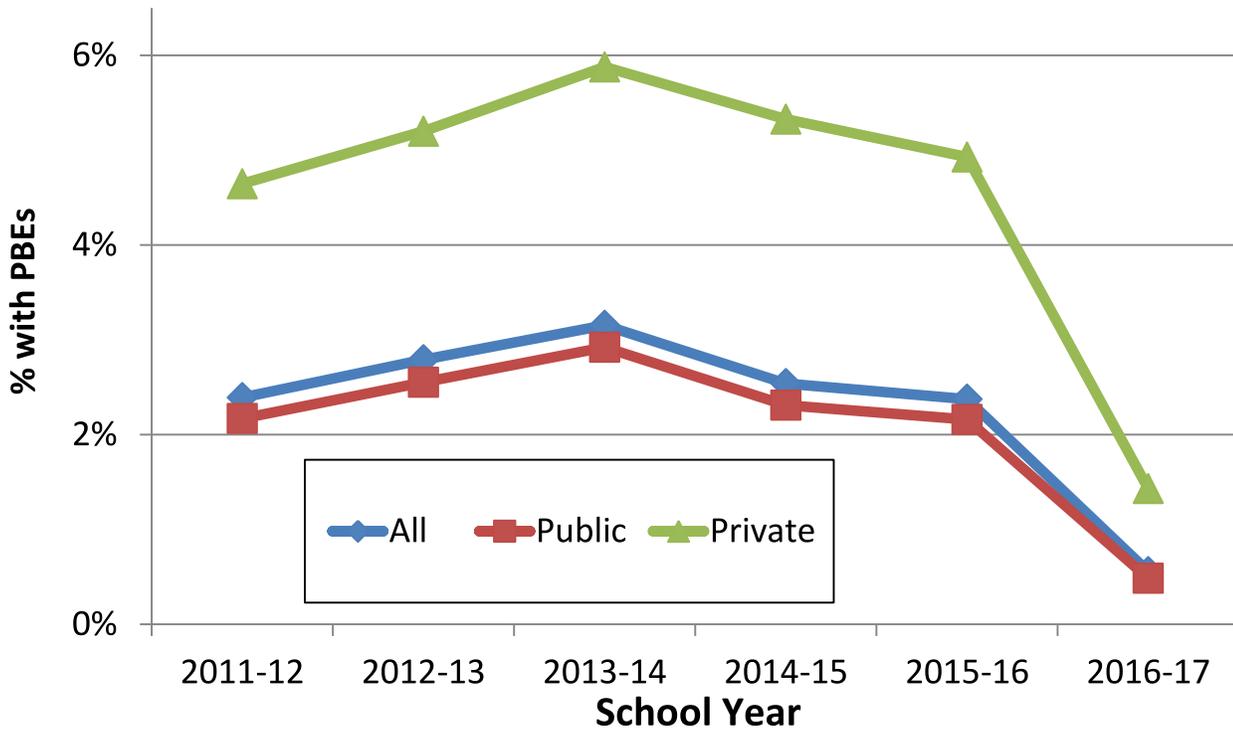


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2011-2012 to 2016-2017

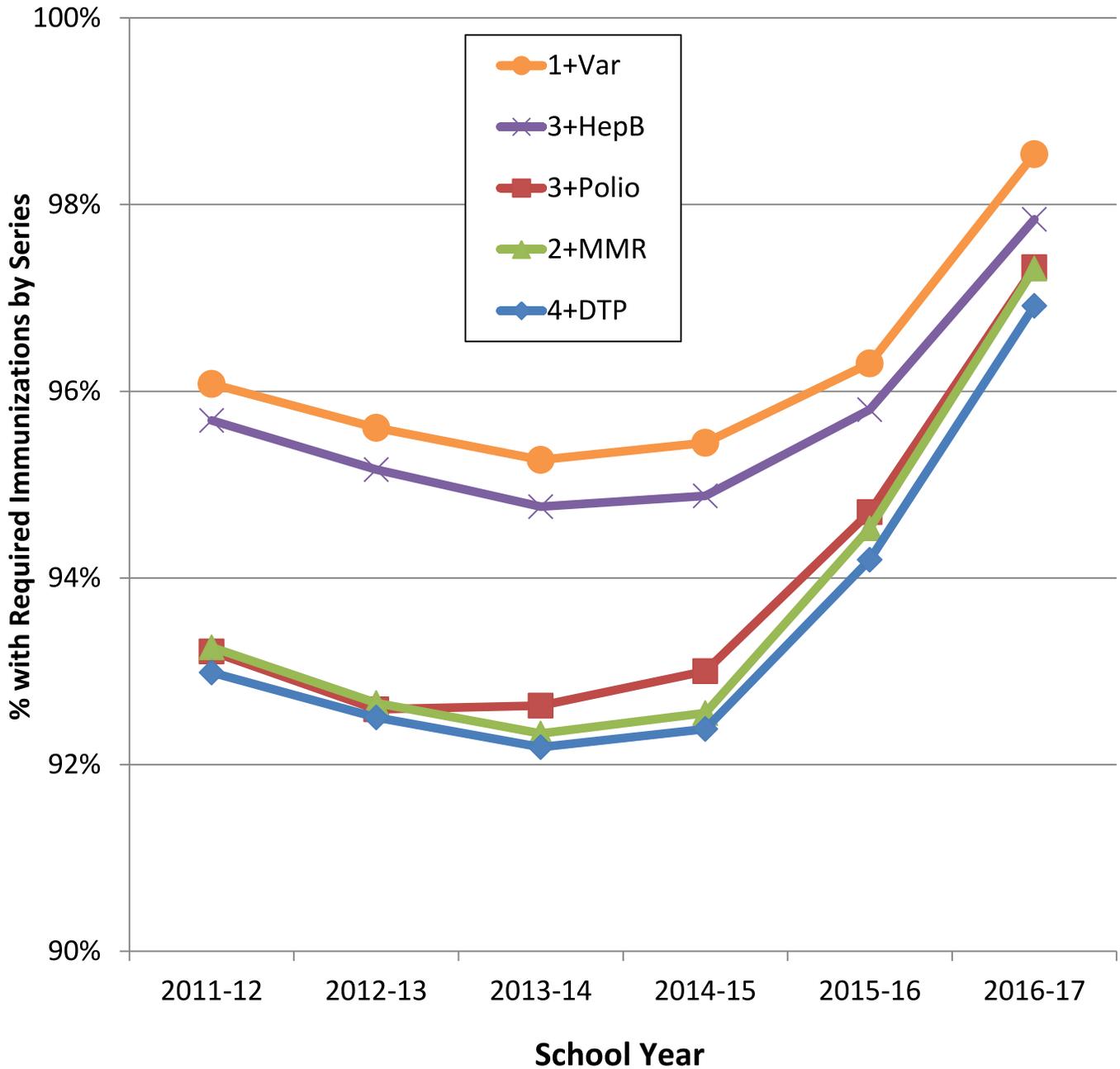
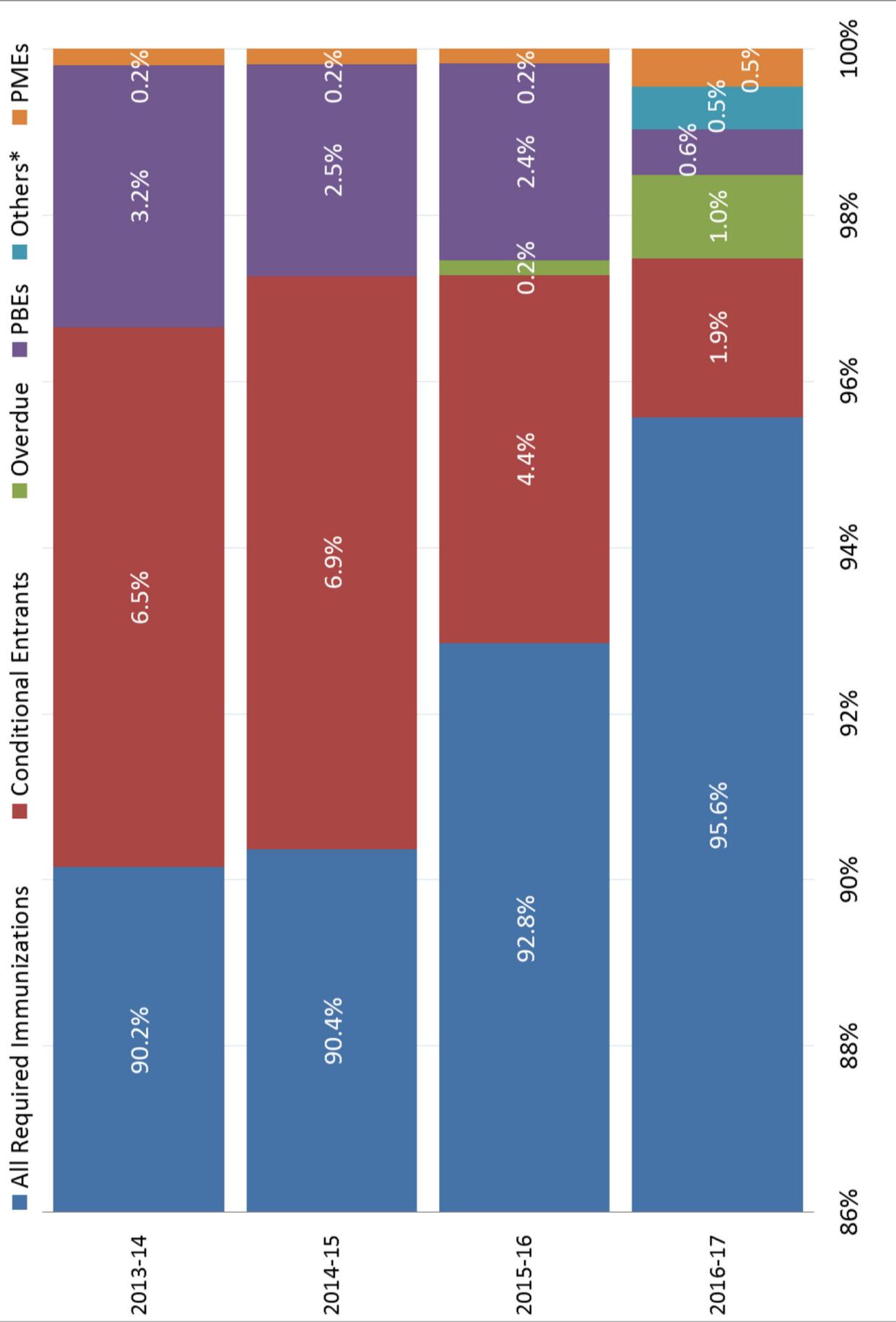
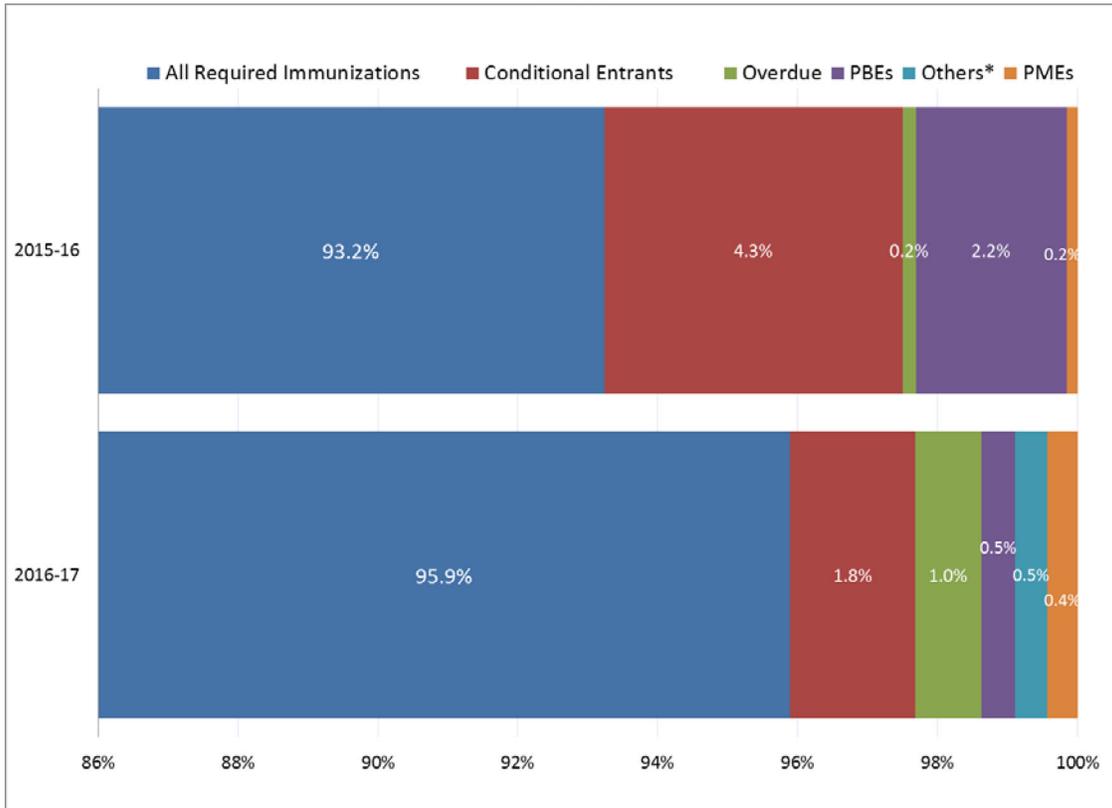


Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2011-2012 to 2016-2017



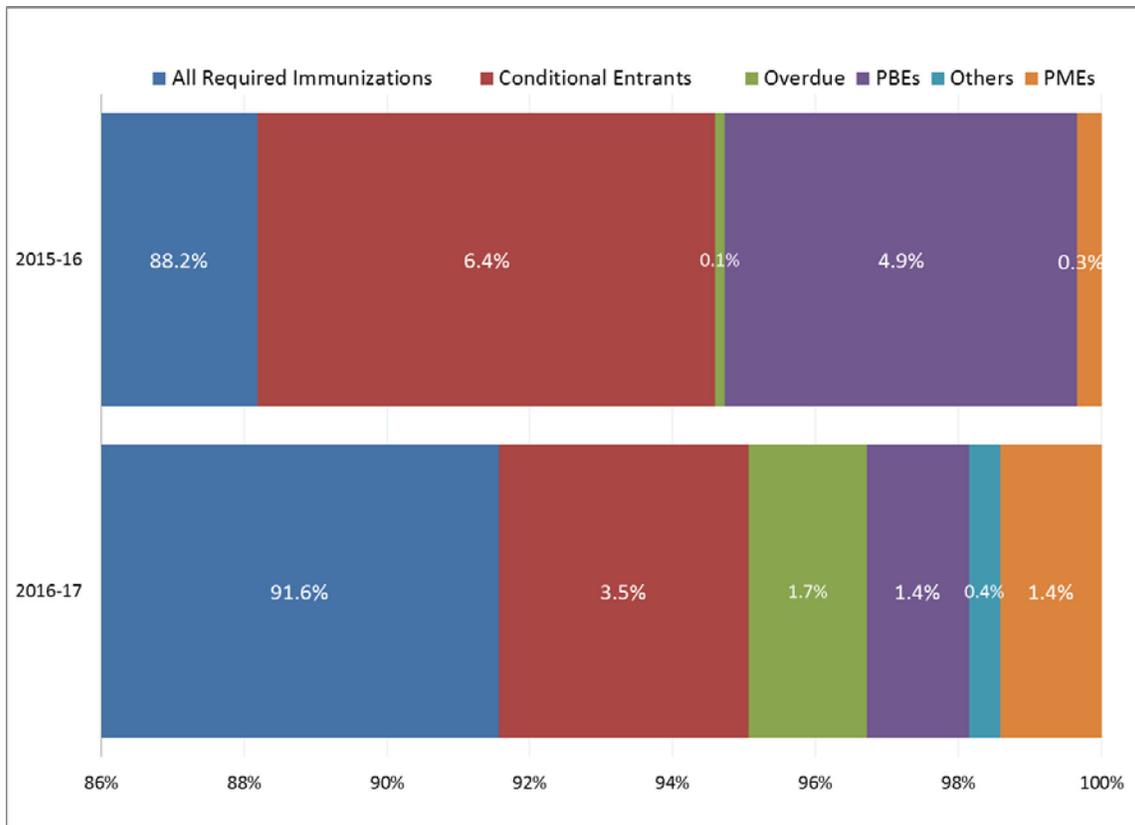
\*Other children lacking required immunizations under criteria specified in SB 277.

**Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2013-2014 to 2016-2017.** In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. In the 2016-2017 school year, entrants have been subject to SB 277.



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

**Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2015-2016 and 2016-2017**



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

**Figure 8. Percentage of Private School Kindergarten Students by Reported Admission Status by School Year, 2015-2016 and 2016-2017**

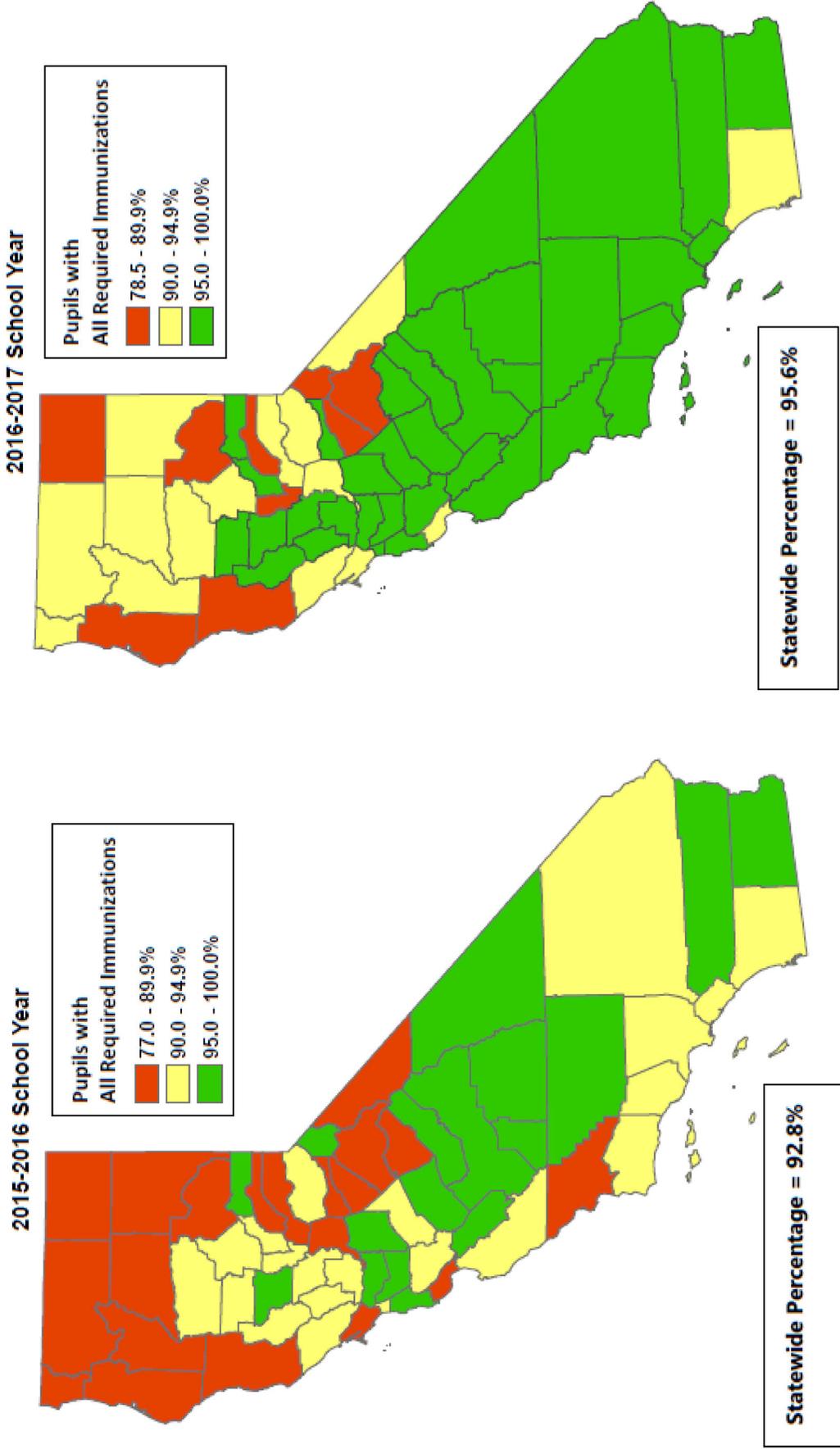


Figure 9. Kindergarten Students with All Required Immunizations, by County, 2015-2016 and 2016-2017 School Years

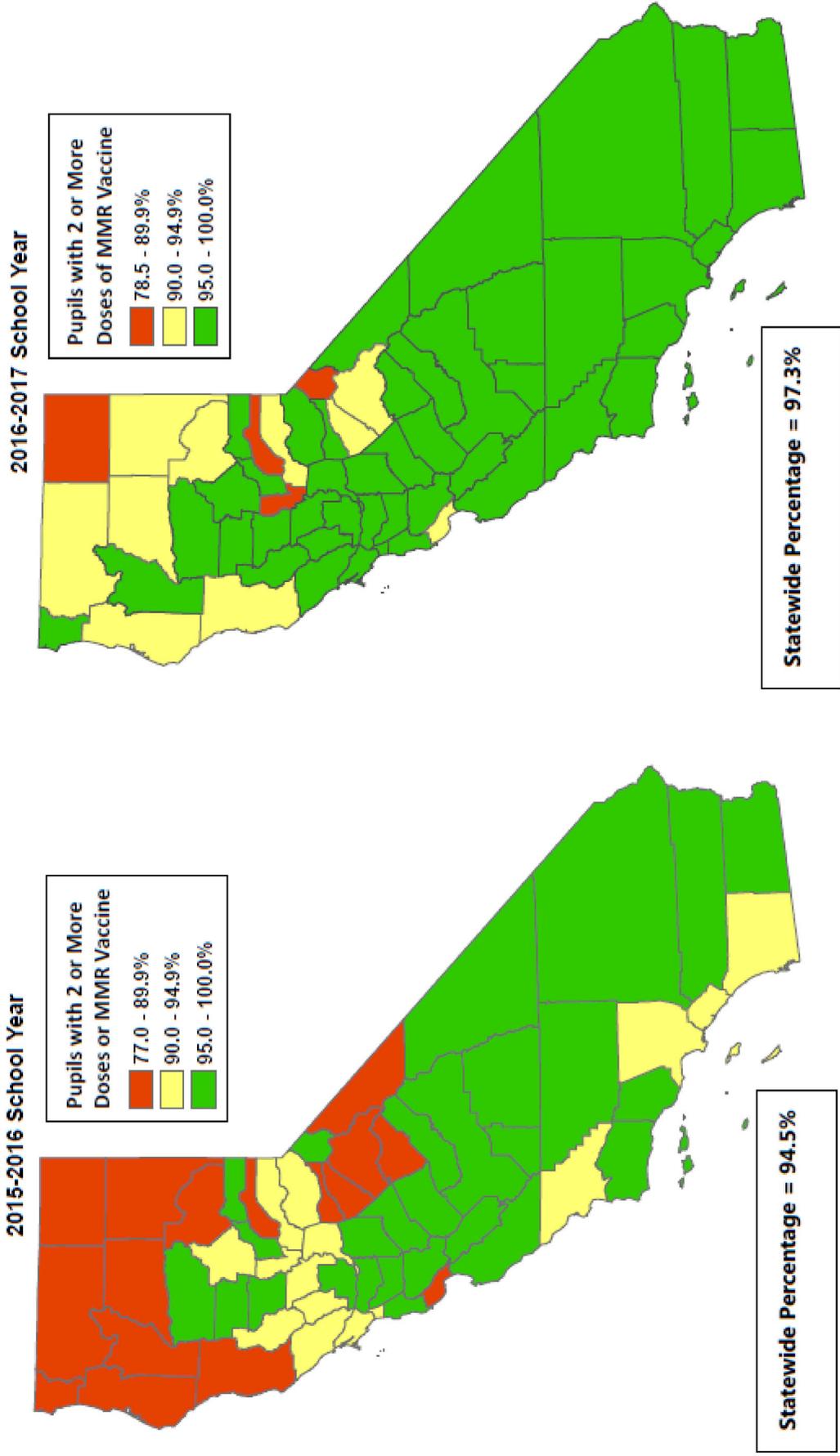


Figure 10. Kindergarten Students with 2 or More Doses of MMR Vaccine, by County, 2015-2016 and 2016-2017 School Years.

**Table 1: Kindergarten Immunization Assessment, 2015-2016 and 2016-2017 School Years**

	2016-17			2015-16			1-Year Percentage Point Change		
	All	Public	Private	All	Public	Private	All	Public	Private
	Number of Schools Reporting Kindergarten Students	7,820	5,967	1,853	7,873	5,971	1,902		
Number of Kindergarten Students	562,924	520,626	42,298	551,123	508,458	42,665			
All Required Immunizations	95.6%	95.9%	91.6%	92.8%	93.2%	88.2%	2.8%	2.7%	3.4%
Conditional Entrants	1.9%	1.8%	3.5%	4.4%	4.3%	6.4%	-2.5%	-2.5%	-2.9%
Permanent Medical Exemptions	0.5%	0.4%	1.4%	0.2%	0.2%	0.3%	0.3%	0.3%	1.1%
Personal Belief Exemptions	0.6%	0.5%	1.4%	2.4%	2.2%	4.9%	-1.8%	-1.7%	-3.5%
Others Lacking immunizations*	0.5%	0.5%	0.4%	(New category for 2016-2017)			0.5%	0.5%	0.4%
Overdue^	1.0%	1.0%	1.7%	0.2%	0.2%	0.1%	0.8%	0.8%	1.5%
4+ DTP	96.9%	97.1%	94.3%	94.2%	94.5%	90.4%	2.7%	2.6%	3.9%
3+ Polio	97.3%	97.6%	94.1%	94.7%	95.0%	90.7%	2.6%	2.6%	3.4%
2+ MMR	97.3%	97.6%	94.4%	94.5%	94.9%	90.5%	2.8%	2.7%	3.9%
3+ Hep B	97.8%	98.0%	95.4%	95.8%	96.1%	92.8%	2.0%	1.9%	2.6%
1+ Var (or physician-documented disease)	98.5%	98.7%	96.1%	96.3%	96.6%	93.2%	2.2%	2.1%	2.9%

\*Includes students reported as attending independent study without classroom-based instruction or home-based private schools or receiving IEP services.

^Overdue for one or more required immunizations.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,266	7,820	94.6%	6,051	5,967	98.6%	2,215	1,853	83.7%
COUNTY	341	316	92.7%	232	229	98.7%	109	87	79.8%
ALAMEDA	1	1	100.0%	1	1	100.0%	0	0	0.0%
ALPINE	7	6	85.7%	7	6	85.7%	0	0	0.0%
AMADOR	56	56	100.0%	48	48	100.0%	8	8	100.0%
BUTTE	13	11	84.6%	11	11	100.0%	2	0	0.0%
CALAVERAS	7	7	100.0%	6	6	100.0%	1	1	100.0%
COLUSA	228	223	97.8%	162	162	100.0%	66	61	92.4%
CONTRA COSTA	11	11	100.0%	10	10	100.0%	1	1	100.0%
DEL NORTE	41	41	100.0%	34	34	100.0%	7	7	100.0%
EL DORADO	228	228	100.0%	203	203	100.0%	25	25	100.0%
FRESNO	13	13	100.0%	11	11	100.0%	2	2	100.0%
GLENN	58	58	100.0%	51	51	100.0%	7	7	100.0%
HUMBOLDT	46	46	100.0%	39	39	100.0%	7	7	100.0%
IMPERIAL	6	6	100.0%	6	6	100.0%	0	0	0.0%
INYO	198	173	87.4%	156	148	94.9%	42	25	59.5%
KERN	38	38	100.0%	33	33	100.0%	5	5	100.0%
KINGS	17	16	94.1%	14	14	100.0%	3	2	66.7%
LAKE	15	14	93.3%	14	14	100.0%	1	0	0.0%
LASSEN	2,010	1,773	88.2%	1,325	1,286	97.1%	685	487	71.1%
LOS ANGELES	44	38	86.4%	39	36	92.3%	5	2	40.0%
MADERA	73	73	100.0%	47	47	100.0%	26	26	100.0%
MARIN	7	1	14.3%	7	1	14.3%	0	0	0.0%
MARIPOSA	31	29	93.5%	26	26	100.0%	5	3	60.0%
MENDOCINO	67	61	91.0%	55	55	100.0%	12	6	50.0%
MERCED	4	4	100.0%	4	4	100.0%	0	0	0.0%
MODOC	6	6	100.0%	5	5	100.0%	1	1	100.0%
MONO	97	94	96.9%	83	81	97.6%	14	13	92.9%
MONTEREY	39	39	100.0%	24	24	100.0%	15	15	100.0%
NAPA	24	23	95.8%	20	20	100.0%	4	3	75.0%
NEVADA									

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,266	7,820	94.6%	6,051	5,967	98.6%	2,215	1,853	83.7%
COUNTY	609	609	100.0%	397	397	100.0%	212	212	100.0%
ORANGE	93	88	94.6%	77	77	100.0%	16	11	68.8%
PLACER	9	7	77.8%	5	5	100.0%	4	2	50.0%
PLUMAS	393	371	94.4%	293	293	100.0%	100	78	78.0%
RIVERSIDE	317	291	91.8%	240	235	97.9%	77	56	72.7%
SACRAMENTO	21	21	100.0%	17	17	100.0%	4	4	100.0%
SAN BENITO	429	428	99.8%	349	349	100.0%	80	79	98.8%
SAN BERNARDINO	626	624	99.7%	477	477	100.0%	149	147	98.7%
SAN DIEGO	147	147	100.0%	76	76	100.0%	71	71	100.0%
SAN FRANCISCO	185	185	100.0%	160	160	100.0%	25	25	100.0%
SAN JOAQUIN	60	60	100.0%	45	45	100.0%	15	15	100.0%
SAN LUIS OBISPO	162	162	100.0%	110	110	100.0%	52	52	100.0%
SAN MATEO	101	101	100.0%	77	77	100.0%	24	24	100.0%
SANTA BARBARA	395	387	98.0%	262	262	100.0%	133	125	94.0%
SANTA CLARA	65	63	96.9%	46	46	100.0%	19	17	89.5%
SANTA CRUZ	67	62	92.5%	51	51	100.0%	16	11	68.8%
SHASTA	2	2	100.0%	2	2	100.0%	0	0	0.0%
SIERRA	26	26	100.0%	22	22	100.0%	4	4	100.0%
SISKIYOU	82	74	90.2%	62	62	100.0%	20	12	60.0%
SOLANO	131	129	98.5%	109	109	100.0%	22	20	90.9%
SONOMA	135	111	82.2%	119	105	88.2%	16	6	37.5%
STANISLAUS	35	35	100.0%	31	31	100.0%	4	4	100.0%
SUTTER	25	24	96.0%	22	22	100.0%	3	2	66.7%
TEHAMA	11	11	100.0%	11	11	100.0%	0	0	0.0%
TRINITY	124	115	92.7%	110	108	98.2%	14	7	50.0%
TULARE	18	18	100.0%	13	13	100.0%	5	5	100.0%
TUOLUMNE	199	193	97.0%	136	136	100.0%	63	57	90.5%
VENTURA	46	46	100.0%	34	34	100.0%	12	12	100.0%
YOLO	27	25	92.6%	25	24	96.0%	2	1	50.0%
YUBA									

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONST		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924	95.6%	537,967	95.6%	10,735	1.9%	2,850	0.5%	3,133	0.6%	2,564	0.5%	5,650	1.0%
COUNTY	21,910	97.2%	21,302	97.2%	278	1.3%	76	0.3%	32	0.1%	13	0.1%	209	1.0%
ALAMEDA	6	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
ALPINE	290	96.2%	279	96.2%	8	2.8%	0	0.0%	2	0.7%	1	0.3%	0	0.0%
AMADOR	2,814	94.1%	2,648	94.1%	63	2.2%	29	1.0%	17	0.6%	40	1.4%	17	0.6%
BUTTE	462	89.6%	414	89.6%	23	5.0%	3	0.6%	8	1.7%	14	3.0%	0	0.0%
CALAVERAS	411	97.1%	399	97.1%	4	1.0%	1	0.2%	0	0.0%	0	0.0%	7	1.7%
COLUSA	15,434	97.0%	14,976	97.0%	218	1.4%	68	0.4%	68	0.4%	29	0.2%	75	0.5%
CONTRA COSTA	401	92.8%	372	92.8%	13	3.2%	1	0.2%	0	0.0%	15	3.7%	0	0.0%
DEL NORTE	2,205	93.9%	2,071	93.9%	72	3.3%	31	1.4%	24	1.1%	4	0.2%	3	0.1%
EL DORADO	18,779	97.1%	18,241	97.1%	308	1.6%	33	0.2%	30	0.2%	44	0.2%	123	0.7%
FRESNO	481	97.3%	468	97.3%	8	1.7%	1	0.2%	2	0.4%	0	0.0%	2	0.4%
GLENN	1,799	86.7%	1,560	86.7%	109	6.1%	16	0.9%	30	1.7%	70	3.9%	14	0.8%
HUMBOLDT	3,254	97.4%	3,169	97.4%	32	1.0%	5	0.2%	3	0.1%	2	0.1%	43	1.3%
IMPERIAL	212	95.3%	202	95.3%	5	2.4%	2	0.9%	0	0.0%	0	0.0%	3	1.4%
INYO	16,497	95.1%	15,687	95.1%	423	2.6%	27	0.2%	223	1.4%	23	0.1%	114	0.7%
KERN	2,731	97.6%	2,665	97.6%	49	1.8%	5	0.2%	2	0.1%	1	0.0%	9	0.3%
KINGS	840	96.4%	810	96.4%	18	2.1%	6	0.7%	0	0.0%	4	0.5%	2	0.2%
LAKE	357	90.8%	324	90.8%	7	2.0%	5	1.4%	4	1.1%	17	4.8%	0	0.0%
LASSEN	140,269	95.0%	133,310	95.0%	2,752	2.0%	515	0.4%	657	0.5%	301	0.2%	2,734	1.9%
LOS ANGELES	2,835	96.0%	2,723	96.0%	41	1.4%	5	0.2%	2	0.1%	23	0.8%	41	1.4%
MADERA	3,245	93.2%	3,023	93.2%	99	3.1%	68	2.1%	40	1.2%	0	0.0%	15	0.5%
MARIN	19	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
MARIPOSA	1,195	88.7%	1,060	88.7%	102	8.5%	7	0.6%	13	1.1%	5	0.4%	8	0.7%
MENDOCINO	5,618	97.7%	5,486	97.7%	83	1.5%	8	0.1%	1	0.0%	16	0.3%	24	0.4%
MERCED	130	78.5%	102	78.5%	28	21.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MODOC	139	93.5%	130	93.5%	6	4.3%	2	1.4%	1	0.7%	0	0.0%	0	0.0%
MONO	7,221	97.5%	7,039	97.5%	87	1.2%	37	0.5%	17	0.2%	4	0.1%	37	0.5%
MONTEREY	1,702	96.2%	1,637	96.2%	23	1.4%	19	1.1%	11	0.6%	12	0.7%	0	0.0%
NAPA	944	80.9%	764	80.9%	44	4.7%	34	3.6%	66	7.0%	35	3.7%	1	0.1%
NEVADA														

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

<sup>^</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATION <sup>†</sup>		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924	95.6%	537,967	1.9%	10,735	0.5%	2,850	0.5%	3,133	0.6%	2,564	0.5%	5,650	1.0%
COUNTY	42,389	95.5%	40,490	2.0%	847	0.8%	348	0.6%	269	0.6%	179	0.4%	256	0.6%
ORANGE	5,847	92.4%	5,402	3.4%	197	1.1%	64	1.2%	69	1.2%	32	0.5%	83	1.4%
PLACER	166	89.8%	149	6.0%	10	3.0%	5	0.6%	1	0.6%	1	0.6%	0	0.0%
PLUMAS	36,132	96.3%	34,809	1.6%	568	0.4%	151	0.4%	95	0.3%	153	0.4%	356	1.0%
RIVERSIDE	21,993	94.0%	20,684	3.0%	653	0.6%	129	0.6%	127	0.6%	266	1.2%	134	0.6%
SACRAMENTO	967	98.1%	949	0.9%	9	0.3%	3	0.3%	0	0.0%	0	0.0%	6	0.6%
SAN BENITO	34,471	96.1%	33,135	1.9%	638	0.3%	105	0.3%	83	0.2%	179	0.5%	331	1.0%
SAN BERNARDINO	46,044	94.7%	43,613	1.7%	796	0.9%	404	1.4%	655	1.4%	329	0.7%	247	0.5%
SAN DIEGO	6,742	95.6%	6,445	1.8%	122	0.5%	33	0.3%	22	0.3%	0	0.0%	120	1.8%
SAN FRANCISCO	12,572	97.3%	12,232	1.4%	170	0.3%	32	0.2%	30	0.2%	68	0.5%	40	0.3%
SAN JOAQUIN	3,154	95.6%	3,015	2.5%	80	0.6%	19	0.6%	13	0.4%	18	0.6%	9	0.3%
SAN LUIS OBISPO	9,608	96.5%	9,275	1.8%	171	0.4%	34	0.4%	20	0.2%	4	0.0%	104	1.1%
SAN MATEO	6,674	96.4%	6,435	1.8%	119	0.6%	41	0.6%	47	0.7%	30	0.4%	2	0.0%
SANTA BARBARA	26,070	97.1%	25,305	1.3%	348	0.4%	108	0.4%	84	0.3%	18	0.1%	207	0.8%
SANTA CLARA	3,681	90.7%	3,338	2.7%	99	1.4%	53	1.2%	43	1.2%	134	3.6%	14	0.4%
SANTA CRUZ	2,386	92.2%	2,200	3.3%	79	1.2%	29	1.4%	34	1.4%	29	1.2%	15	0.6%
SHASTA	23	95.7%	22	4.3%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SIERRA	520	92.5%	481	2.1%	11	1.3%	7	1.0%	5	1.0%	15	2.9%	1	0.2%
SISKIYOU	5,919	96.7%	5,723	1.7%	102	0.3%	16	0.3%	16	0.3%	13	0.2%	49	0.8%
SOLANO	6,669	93.4%	6,231	2.7%	177	1.6%	109	1.4%	92	1.4%	21	0.3%	39	0.6%
SONOMA	9,166	96.5%	8,847	2.0%	185	0.4%	33	0.4%	38	0.4%	13	0.1%	50	0.5%
STANISLAUS	1,995	85.3%	1,701	0.9%	17	0.4%	8	0.4%	18	0.9%	245	12.3%	6	0.3%
SUTTER	1,024	93.4%	956	4.8%	49	0.8%	8	0.8%	5	0.5%	6	0.6%	0	0.0%
TEHAMA	144	91.0%	131	6.9%	10	0.0%	0	0.0%	0	0.0%	1	0.7%	2	1.4%
TRINITY	9,243	98.5%	9,104	0.9%	83	0.1%	10	0.1%	5	0.1%	26	0.3%	15	0.2%
TULARE	570	88.8%	506	3.5%	20	1.9%	11	1.9%	17	3.0%	6	1.1%	10	1.8%
TUOLUMNE	12,247	96.1%	11,774	1.5%	183	0.6%	77	0.6%	73	0.6%	87	0.7%	53	0.4%
VENTURA	2,830	96.6%	2,733	2.0%	58	0.3%	8	0.3%	17	0.6%	7	0.2%	7	0.2%
YOLO	1,478	96.1%	1,421	2.0%	30	0.1%	1	0.1%	2	0.1%	11	0.7%	13	0.9%

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2016-2017 AND 2015-2016,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		OVERDUE <sup>^</sup>	
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%	0.5%	0.2%	0.2%	0.5%	1.0%	0.2%	
	2015-16	551,123	92.8%	4.4%	0.2%	2.4%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	
COUNTY	2016-17	21,910	97.2%	1.3%	0.3%	0.1%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	1.0%	0.3%	
ALAMEDA	2015-16	21,644	95.9%	2.5%	0.1%	1.2%	0.1%	1.2%	0.1%	1.2%	0.1%	0.1%	0.3%	0.3%	
ALPINE	2016-17	6	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	
	2015-16	6	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	
AMADOR	2016-17	290	96.2%	2.8%	0.0%	0.7%	0.0%	0.7%	0.0%	0.7%	0.0%	0.3%	0.0%	0.0%	
	2015-16	307	87.3%	6.5%	1.0%	3.3%	1.0%	3.3%	1.0%	3.3%	1.0%	0.3%	2.0%	2.0%	
BUTTE	2016-17	2,814	94.1%	2.2%	1.0%	0.6%	1.0%	0.6%	1.0%	0.6%	1.4%	0.6%	0.6%	0.1%	
	2015-16	2,936	90.4%	4.0%	0.2%	5.3%	0.2%	5.3%	0.2%	5.3%	0.2%	1.4%	0.1%	0.1%	
CALAVERAS	2016-17	462	89.6%	5.0%	0.6%	1.7%	0.6%	1.7%	0.6%	1.7%	0.6%	3.0%	0.0%	0.0%	
	2015-16	419	88.3%	0.7%	0.0%	10.5%	0.0%	10.5%	0.0%	10.5%	0.0%	0.2%	0.5%	0.5%	
COLUSA	2016-17	411	97.1%	1.0%	0.2%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	1.7%	0.0%	
	2015-16	408	99.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
CONTRA COSTA	2016-17	15,434	97.0%	1.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.2%	0.2%	0.5%	0.0%	
	2015-16	15,398	95.1%	2.7%	0.2%	2.0%	0.2%	2.0%	0.2%	2.0%	0.2%	0.2%	0.0%	0.0%	
DEL NORTE	2016-17	401	92.8%	3.2%	0.2%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	3.7%	0.0%	0.0%	
	2015-16	344	88.4%	2.9%	0.0%	8.7%	0.0%	8.7%	0.0%	8.7%	0.0%	0.0%	0.0%	0.0%	
EL DORADO	2016-17	2,205	93.9%	3.3%	1.4%	1.1%	1.4%	1.1%	1.1%	1.1%	0.2%	0.2%	0.1%	0.0%	
	2015-16	2,246	90.4%	2.0%	0.3%	7.2%	0.3%	7.2%	0.3%	7.2%	0.2%	0.2%	0.0%	0.0%	
FRESNO	2016-17	18,779	97.1%	1.6%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.7%	0.1%	
	2015-16	18,763	96.2%	2.7%	0.1%	1.0%	0.1%	1.0%	0.1%	1.0%	0.2%	0.2%	0.1%	0.1%	
GLENN	2016-17	481	97.3%	1.7%	0.2%	0.4%	0.2%	0.4%	0.2%	0.4%	0.0%	0.0%	0.4%	0.6%	
	2015-16	483	94.6%	2.1%	0.2%	2.5%	0.2%	2.5%	0.2%	2.5%	0.0%	0.0%	0.6%	0.6%	
HUMBOLDT	2016-17	1,799	86.7%	6.1%	0.9%	1.7%	0.9%	1.7%	0.9%	1.7%	3.9%	3.9%	0.8%	0.3%	
	2015-16	1,741	82.0%	7.0%	0.3%	10.4%	0.3%	10.4%	0.3%	10.4%	0.1%	0.1%	0.3%	0.3%	
IMPERIAL	2016-17	3,254	97.4%	1.0%	0.2%	0.1%	0.2%	0.1%	0.2%	0.1%	0.5%	0.1%	1.3%	0.0%	
	2015-16	3,200	95.3%	3.9%	0.2%	0.5%	0.2%	0.5%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	
INYO	2016-17	212	95.3%	2.4%	0.9%	0.0%	0.9%	0.0%	0.9%	0.0%	0.0%	0.0%	1.4%	0.0%	
	2015-16	209	98.6%	0.5%	0.0%	1.0%	0.0%	1.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	
KERN	2016-17	16,497	95.1%	2.6%	0.2%	1.4%	0.2%	1.4%	0.2%	1.4%	0.1%	0.1%	0.7%	0.2%	
	2015-16	16,492	95.3%	2.9%	0.2%	1.5%	0.2%	1.5%	0.2%	1.5%	0.2%	0.2%	0.2%	0.2%	

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

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KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2016-2017 AND 2015-2016,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		OVERDUE <sup>^</sup>	
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	1.0%								
	2015-16	551,123	92.8%	4.4%	0.2%	2.4%	0.2%								0.2%
COUNTY	2016-17	2,731	97.6%	1.8%	0.2%	0.1%	0.3%								0.3%
KINGS	2015-16	2,588	96.9%	2.0%	0.1%	0.9%	0.1%								0.1%
	2016-17	840	96.4%	2.1%	0.7%	0.0%	0.2%								0.2%
LAKE	2015-16	804	92.9%	3.9%	0.7%	2.5%	0.0%								0.0%
	2016-17	357	90.8%	2.0%	1.4%	1.1%	0.0%								0.0%
LASSEN	2015-16	378	86.0%	3.7%	0.8%	9.5%	0.0%								0.0%
	2016-17	140,269	95.0%	2.0%	0.4%	0.5%	1.9%								1.9%
LOS ANGELES	2015-16	134,209	90.0%	8.2%	0.1%	1.5%	0.1%								0.1%
	2016-17	2,835	96.0%	1.4%	0.2%	0.1%	1.4%								1.4%
MADERA	2015-16	2,797	95.9%	2.4%	0.2%	1.4%	0.1%								0.1%
	2016-17	3,245	93.2%	3.1%	2.1%	1.2%	0.5%								0.5%
MARIN	2015-16	3,306	88.5%	5.3%	0.2%	5.9%	0.0%								0.0%
	2016-17	19	--*	--*	--*	--*	--*								--*
MARIPOSA	2015-16	157	81.5%	5.1%	0.0%	13.4%	0.0%								0.0%
	2016-17	1,195	88.7%	8.5%	0.6%	1.1%	0.7%								0.7%
MENDOCINO	2015-16	1,191	87.4%	4.4%	0.4%	7.1%	0.7%								0.7%
	2016-17	5,618	97.7%	1.5%	0.1%	0.0%	0.4%								0.4%
MERCED	2015-16	5,016	96.5%	2.0%	0.1%	0.8%	0.6%								0.6%
	2016-17	130	78.5%	21.5%	0.0%	0.0%	0.0%								0.0%
MODOC	2015-16	128	87.5%	10.2%	0.0%	0.8%	0.0%								1.6%
	2016-17	139	93.5%	4.3%	1.4%	0.7%	0.0%								0.0%
MONO	2015-16	144	88.2%	0.7%	0.0%	11.1%	0.0%								0.0%
	2016-17	7,221	97.5%	1.2%	0.5%	0.2%	0.5%								0.5%
MONTEREY	2015-16	6,960	94.7%	3.5%	0.2%	1.4%	0.1%								0.1%
	2016-17	1,702	96.2%	1.4%	1.1%	0.6%	0.0%								0.0%
NAPA	2015-16	1,750	93.4%	3.1%	0.2%	3.3%	0.0%								0.0%
	2016-17	944	80.9%	4.7%	3.6%	7.0%	0.1%								0.1%
NEVADA	2015-16	896	77.1%	3.3%	0.2%	18.4%	0.9%								0.9%
	2016-17	42,389	95.5%	2.0%	0.8%	0.6%	0.6%								0.6%
ORANGE	2015-16	42,007	92.5%	4.2%	0.2%	3.0%	0.1%								0.1%

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

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KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2016-2017 AND 2015-2016,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
			NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%						
	2015-16	551,123	92.8%	4.4%	0.2%	2.4%								0.2%
COUNTY	2016-17	5,847	92.4%	3.4%	1.1%	1.2%	0.5%	1.4%						1.4%
PLACER	2015-16	5,756	88.8%	5.1%	0.1%	6.0%								0.0%
	2016-17	166	89.8%	6.0%	3.0%	0.6%	0.6%	0.0%						0.0%
PLUMAS	2015-16	188	86.2%	3.2%	1.6%	9.0%								0.0%
	2016-17	36,132	96.3%	1.6%	0.4%	0.3%	0.4%	1.0%						1.0%
RIVERSIDE	2015-16	34,506	95.2%	2.4%	0.2%	2.1%								0.1%
	2016-17	21,993	94.0%	3.0%	0.6%	0.6%	0.6%	0.6%						0.6%
SACRAMENTO	2015-16	20,649	88.5%	7.0%	0.1%	4.1%								0.2%
	2016-17	967	98.1%	0.9%	0.3%	0.0%	0.0%	0.6%						0.6%
SAN BENITO	2015-16	908	96.0%	2.1%	0.6%	1.2%								0.1%
	2016-17	34,471	96.1%	1.9%	0.3%	0.2%	0.2%	1.0%						1.0%
SAN BERNARDINO	2015-16	34,118	94.9%	2.7%	0.2%	1.9%								0.3%
	2016-17	46,044	94.7%	1.7%	0.9%	1.4%								0.5%
SAN DIEGO	2015-16	45,646	93.5%	2.4%	0.2%	3.6%								0.3%
	2016-17	6,742	95.6%	1.8%	0.5%	0.3%	0.3%	1.8%						1.8%
SAN FRANCISCO	2015-16	6,524	92.5%	5.9%	0.2%	1.5%								0.0%
	2016-17	12,572	97.3%	1.4%	0.3%	0.2%	0.2%	0.3%						0.3%
SAN JOAQUIN	2015-16	12,201	95.9%	2.2%	0.1%	1.3%								0.4%
	2016-17	3,154	95.6%	2.5%	0.6%	0.4%	0.4%	0.3%						0.3%
SAN LUIS OBISPO	2015-16	3,147	89.7%	4.4%	0.2%	5.5%								0.1%
	2016-17	9,608	96.5%	1.8%	0.4%	0.2%	0.2%	1.1%						1.1%
SAN MATEO	2015-16	9,757	95.2%	3.0%	0.1%	1.6%								0.0%
	2016-17	6,674	96.4%	1.8%	0.6%	0.7%	0.7%	0.0%						0.0%
SANTA BARBARA	2015-16	6,721	94.9%	1.4%	0.1%	3.6%								0.0%
	2016-17	26,070	97.1%	1.3%	0.4%	0.3%	0.3%	0.8%						0.8%
SANTA CLARA	2015-16	26,269	94.8%	3.2%	0.2%	1.7%								0.1%
	2016-17	3,681	90.7%	2.7%	1.4%	1.2%	1.2%	0.4%						0.4%
SANTA CRUZ	2015-16	3,567	87.5%	3.1%	0.4%	8.8%								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 one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2016-2017 AND 2015-2016,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
		NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	1.0%	0.5%	0.6%	0.5%	1.0%	0.5%	0.5%	1.0%	
	2015-16	551,123	92.8%	4.4%	0.2%	2.4%	1.0%	2.4%	2.4%	2.9%	2.4%	2.4%	0.2%		
COUNTY SHASTA	2016-17	2,386	92.2%	3.3%	1.2%	1.4%	1.3%	1.2%	1.4%	2.9%	1.4%	1.2%	0.6%		
	2015-16	2,232	84.0%	7.2%	0.0%	8.4%	0.0%	0.0%	8.4%	7.8%	8.4%	1.2%	0.4%		
SIERRA	2016-17	23	95.7%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	2015-16	27	---	---	---	---	---	---	---	---	---	---	---		
SISKIYOU	2016-17	520	92.5%	2.1%	1.3%	1.0%	1.3%	1.3%	1.0%	1.0%	1.0%	2.9%	0.2%		
	2015-16	488	83.8%	7.2%	0.0%	7.8%	0.0%	0.0%	7.8%	7.8%	7.8%	2.9%	1.2%		
SOLANO	2016-17	5,919	96.7%	1.7%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.8%		
	2015-16	5,592	94.8%	3.3%	0.2%	1.5%	0.2%	0.2%	1.5%	1.5%	1.5%	0.2%	0.2%		
SONOMA	2016-17	6,669	93.4%	2.7%	1.6%	1.4%	1.6%	1.6%	1.4%	1.4%	1.4%	0.3%	0.6%		
	2015-16	6,757	92.1%	2.5%	0.2%	4.8%	0.2%	0.2%	4.8%	4.8%	4.8%	0.3%	0.4%		
STANISLAUS	2016-17	9,166	96.5%	2.0%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.1%	0.5%		
	2015-16	9,397	94.9%	2.4%	0.2%	2.3%	0.2%	0.2%	2.3%	2.3%	2.3%	0.1%	0.3%		
SUTTER	2016-17	1,995	85.3%	0.9%	0.4%	0.9%	0.4%	0.4%	0.9%	0.9%	0.9%	12.3%	0.3%		
	2015-16	1,909	90.0%	1.6%	0.3%	7.9%	0.3%	0.3%	7.9%	7.9%	7.9%	0.2%	0.2%		
TEHAMA	2016-17	1,024	93.4%	4.8%	0.8%	0.5%	0.8%	0.8%	0.5%	0.5%	0.5%	0.6%	0.0%		
	2015-16	1,011	94.1%	2.7%	0.4%	2.8%	0.4%	0.4%	2.8%	2.8%	2.8%	0.6%	0.1%		
TRINITY	2016-17	144	91.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	1.4%		
	2015-16	139	77.0%	8.6%	0.0%	14.4%	0.0%	0.0%	14.4%	14.4%	14.4%	0.7%	0.0%		
TULARE	2016-17	9,243	98.5%	0.9%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.3%	0.2%		
	2015-16	9,267	97.1%	1.8%	0.1%	0.9%	0.1%	0.1%	0.9%	0.9%	0.9%	0.3%	0.1%		
TUOLUMNE	2016-17	570	88.8%	3.5%	1.9%	3.0%	1.9%	1.9%	3.0%	3.0%	3.0%	1.1%	1.8%		
	2015-16	569	77.7%	13.9%	0.2%	8.3%	0.2%	0.2%	8.3%	8.3%	8.3%	0.7%	0.0%		
VENTURA	2016-17	12,247	96.1%	1.5%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.7%	0.4%		
	2015-16	12,718	94.2%	2.9%	0.2%	2.5%	0.2%	0.2%	2.5%	2.5%	2.5%	0.7%	0.3%		
YOLO	2016-17	2,830	96.6%	2.0%	0.3%	0.6%	0.3%	0.3%	0.6%	0.6%	0.6%	0.2%	0.2%		
	2015-16	2,725	91.7%	4.7%	0.0%	3.5%	0.0%	0.0%	3.5%	3.5%	3.5%	0.2%	0.0%		
YUBA	2016-17	1,478	96.1%	2.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.7%	0.9%		
	2015-16	1,408	94.7%	3.2%	0.1%	1.9%	0.1%	0.1%	1.9%	1.9%	1.9%	0.7%	0.1%		

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

\*\* Suppressed since one of the results is 100%.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	562,924	537,967	95.6%	551,123	511,702	92.8%	2.7%	26,265
COUNTY								
ALAMEDA	21,910	21,302	97.2%	21,644	20,752	95.9%	1.3%	550
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	290	279	96.2%	307	268	87.3%	8.9%	11
BUTTE	2,814	2,648	94.1%	2,936	2,654	90.4%	3.7%	-6
CALAVERAS	462	414	89.6%	419	370	88.3%	1.3%	44
COLUSA	411	399	97.1%	408	407	99.8%	-2.7%	-8
CONTRA COSTA	15,434	14,976	97.0%	15,398	14,645	95.1%	1.9%	331
DEL NORTE	401	372	92.8%	344	304	88.4%	4.4%	68
EL DORADO	2,205	2,071	93.9%	2,246	2,031	90.4%	3.5%	40
FRESNO	18,779	18,241	97.1%	18,763	18,043	96.2%	1.0%	198
GLENN	481	468	97.3%	483	457	94.6%	2.7%	11
HUMBOLDT	1,799	1,560	86.7%	1,741	1,428	82.0%	4.7%	132
IMPERIAL	3,254	3,169	97.4%	3,200	3,051	95.3%	2.0%	118
INYO	212	202	95.3%	209	206	98.6%	-3.3%	-4
KERN	16,497	15,687	95.1%	16,492	15,715	95.3%	-0.2%	-28
KINGS	2,731	2,665	97.6%	2,588	2,507	96.9%	0.7%	158
LAKE	840	810	96.4%	804	747	92.9%	3.5%	63
LASSEN	357	324	90.8%	378	325	86.0%	4.8%	-1
LOS ANGELES	140,269	133,310	95.0%	134,209	120,794	90.0%	5.0%	12,516
MADERA	2,835	2,723	96.0%	2,797	2,681	95.9%	0.2%	42
MARIN	3,245	3,023	93.2%	3,306	2,926	88.5%	4.7%	97
MARIPOSA	19	<20*	--*	157	128	81.5%	*--	*--
MENDOCINO	1,195	1,060	88.7%	1,191	1,041	87.4%	1.3%	19
MERCED	5,618	5,486	97.7%	5,016	4,842	96.5%	1.1%	644
MODOC	130	102	78.5%	128	112	87.5%	-9.0%	-10
MONO	139	130	93.5%	144	127	88.2%	5.3%	3
MONTEREY	7,221	7,039	97.5%	6,960	6,593	94.7%	2.8%	446
NAPA	1,702	1,637	96.2%	1,750	1,635	93.4%	2.8%	2
NEVADA	944	764	80.9%	896	691	77.1%	3.8%	73

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	562,924	537,967	95.6%	551,123	511,702	92.8%	2.7%	26,265
COUNTY								
ORANGE	42,389	40,490	95.5%	42,007	38,848	92.5%	3.0%	1,642
PLACER	5,847	5,402	92.4%	5,756	5,113	88.8%	3.6%	289
PLUMAS	166	149	89.8%	188	162	86.2%	3.6%	-13
RIVERSIDE	36,132	34,809	96.3%	34,506	32,857	95.2%	1.1%	1,952
SACRAMENTO	21,993	20,684	94.0%	20,649	18,281	88.5%	5.5%	2,403
SAN BENITO	967	949	98.1%	908	872	96.0%	2.1%	77
SAN BERNARDINO	34,471	33,135	96.1%	34,118	32,378	94.9%	1.2%	757
SAN DIEGO	46,044	43,613	94.7%	45,646	42,686	93.5%	1.2%	927
SAN FRANCISCO	6,742	6,445	95.6%	6,524	6,035	92.5%	3.1%	410
SAN JOAQUIN	12,572	12,232	97.3%	12,201	11,706	95.9%	1.4%	526
SAN LUIS OBISPO	3,154	3,015	95.6%	3,147	2,824	89.7%	5.9%	191
SAN MATEO	9,608	9,275	96.5%	9,757	9,285	95.2%	1.4%	-10
SANTA BARBARA	6,674	6,435	96.4%	6,721	6,381	94.9%	1.5%	54
SANTA CLARA	26,070	25,305	97.1%	26,269	24,897	94.8%	2.3%	408
SANTA CRUZ	3,681	3,338	90.7%	3,567	3,120	87.5%	3.2%	218
SHASTA	2,386	2,200	92.2%	2,232	1,875	84.0%	8.2%	325
SIERRA	23	22	95.7%	27	27	100.0%	-4.3%	-5
SISKIYOU	520	481	92.5%	488	409	83.8%	8.7%	72
SOLANO	5,919	5,723	96.7%	5,592	5,303	94.8%	1.9%	420
SONOMA	6,669	6,231	93.4%	6,757	6,220	92.1%	1.4%	11
STANISLAUS	9,166	8,847	96.5%	9,397	8,920	94.9%	1.6%	-73
SUTTER	1,995	1,701	85.3%	1,909	1,719	90.0%	-4.8%	-18
TEHAMA	1,024	956	93.4%	1,011	951	94.1%	-0.7%	5
TRINITY	144	131	91.0%	139	107	77.0%	14.0%	24
TULARE	9,243	9,104	98.5%	9,267	8,996	97.1%	1.4%	108
TUOLUMNE	570	506	88.8%	569	442	77.7%	11.1%	64
VENTURA	12,247	11,774	96.1%	12,718	11,975	94.2%	2.0%	-201
YOLO	2,830	2,733	96.6%	2,725	2,500	91.7%	4.8%	233
YUBA	1,478	1,421	96.1%	1,408	1,333	94.7%	1.5%	88

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	562,924	10,735	1.9%	551,123	24,424	4.4%	-2.5%	-13,689
COUNTY								
ALAMEDA	21,910	278	1.3%	21,644	534	2.5%	-1.2%	-256
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	290	8	2.8%	307	20	6.5%	-3.8%	-12
BUTTE	2,814	63	2.2%	2,936	118	4.0%	-1.8%	-55
CALAVERAS	462	23	5.0%	419	3	0.7%	4.3%	20
COLUSA	411	4	1.0%	408	1	0.2%	0.7%	3
CONTRA COSTA	15,434	218	1.4%	15,398	415	2.7%	-1.3%	-197
DEL NORTE	401	13	3.2%	344	10	2.9%	0.3%	3
EL DORADO	2,205	72	3.3%	2,246	46	2.0%	1.2%	26
FRESNO	18,779	308	1.6%	18,763	512	2.7%	-1.1%	-204
GLENN	481	8	1.7%	483	10	2.1%	-0.4%	-2
HUMBOLDT	1,799	109	6.1%	1,741	121	7.0%	-0.9%	-12
IMPERIAL	3,254	32	1.0%	3,200	126	3.9%	-3.0%	-94
INYO	212	5	2.4%	209	1	0.5%	1.9%	4
KERN	16,497	423	2.6%	16,492	471	2.9%	-0.3%	-48
KINGS	2,731	49	1.8%	2,588	52	2.0%	-0.2%	-3
LAKE	840	18	2.1%	804	31	3.9%	-1.7%	-13
LASSEN	357	7	2.0%	378	14	3.7%	-1.7%	-7
LOS ANGELES	140,269	2,752	2.0%	134,209	11,061	8.2%	-6.3%	-8,309
MADERA	2,835	41	1.4%	2,797	68	2.4%	-1.0%	-27
MARIN	3,245	99	3.1%	3,306	176	5.3%	-2.3%	-77
MARIPOSA	19	<20*	--*	157	8	5.1%	--*	--*
MENDOCINO	1,195	102	8.5%	1,191	52	4.4%	4.2%	50
MERCED	5,618	83	1.5%	5,016	102	2.0%	-0.6%	-19
MODOC	130	28	21.5%	128	13	10.2%	11.4%	15
MONO	139	6	4.3%	144	1	0.7%	3.6%	5
MONTEREY	7,221	87	1.2%	6,960	245	3.5%	-2.3%	-158
NAPA	1,702	23	1.4%	1,750	54	3.1%	-1.7%	-31
NEVADA	944	44	4.7%	896	30	3.3%	1.3%	14

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	562,924	10,735	1.9%	551,123	24,424	4.4%	-2.5%	-13,689
COUNTY								
ORANGE	42,389	847	2.0%	42,007	1,749	4.2%	-2.2%	-902
PLACER	5,847	197	3.4%	5,756	292	5.1%	-1.7%	-95
PLUMAS	166	10	6.0%	188	6	3.2%	2.8%	4
RIVERSIDE	36,132	568	1.6%	34,506	819	2.4%	-0.8%	-251
SACRAMENTO	21,993	653	3.0%	20,649	1,453	7.0%	-4.1%	-800
SAN BENITO	967	9	0.9%	908	19	2.1%	-1.2%	-10
SAN BERNARDINO	34,471	638	1.9%	34,118	938	2.7%	-0.9%	-300
SAN DIEGO	46,044	796	1.7%	45,646	1,088	2.4%	-0.7%	-292
SAN FRANCISCO	6,742	122	1.8%	6,524	382	5.9%	-4.0%	-260
SAN JOAQUIN	12,572	170	1.4%	12,201	267	2.2%	-0.8%	-97
SAN LUIS OBISPO	3,154	80	2.5%	3,147	140	4.4%	-1.9%	-60
SAN MATEO	9,608	171	1.8%	9,757	295	3.0%	-1.2%	-124
SANTA BARBARA	6,674	119	1.8%	6,721	92	1.4%	0.4%	27
SANTA CLARA	26,070	348	1.3%	26,269	842	3.2%	-1.9%	-494
SANTA CRUZ	3,681	99	2.7%	3,567	110	3.1%	-0.4%	-11
SHASTA	2,386	79	3.3%	2,232	160	7.2%	-3.9%	-81
SIERRA	23	1	4.3%	27	0	0.0%	4.3%	1
SISKIYOU	520	11	2.1%	488	35	7.2%	-5.1%	-24
SOLANO	5,919	102	1.7%	5,592	185	3.3%	-1.6%	-83
SONOMA	6,669	177	2.7%	6,757	169	2.5%	0.2%	8
STANISLAUS	9,166	185	2.0%	9,397	221	2.4%	-0.3%	-36
SUTTER	1,995	17	0.9%	1,909	31	1.6%	-0.8%	-14
TEHAMA	1,024	49	4.8%	1,011	27	2.7%	2.1%	22
TRINITY	144	10	6.9%	139	12	8.6%	-1.7%	-2
TULARE	9,243	83	0.9%	9,267	171	1.8%	-0.9%	-88
TUOLUMNE	570	20	3.5%	569	79	13.9%	-10.4%	-59
VENTURA	12,247	183	1.5%	12,718	374	2.9%	-1.4%	-191
YOLO	2,830	58	2.0%	2,725	128	4.7%	-2.6%	-70
YUBA	1,478	30	2.0%	1,408	45	3.2%	-1.2%	-15

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME	
STATE TOTAL	562,924	2,850	0.5%	551,123	931	0.2%	0.3%	1,919	
COUNTY									
ALAMEDA	21,910	76	0.3%	21,644	28	0.1%	0.2%	48	
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*	
AMADOR	290	0	0.0%	307	3	1.0%	-1.0%	-3	
BUTTE	2,814	29	1.0%	2,936	6	0.2%	0.8%	23	
CALAVERAS	462	3	0.6%	419	0	0.0%	0.6%	3	
COLUSA	411	1	0.2%	408	0	0.0%	0.2%	1	
CONTRA COSTA	15,434	68	0.4%	15,398	31	0.2%	0.2%	37	
DEL NORTE	401	1	0.2%	344	0	0.0%	0.2%	1	
EL DORADO	2,205	31	1.4%	2,246	7	0.3%	1.1%	24	
FRESNO	18,779	33	0.2%	18,763	14	0.1%	0.1%	19	
GLENN	481	1	0.2%	483	1	0.2%	0.0%	0	
HUMBOLDT	1,799	16	0.9%	1,741	5	0.3%	0.6%	11	
IMPERIAL	3,254	5	0.2%	3,200	5	0.2%	0.0%	0	
INYO	212	2	0.9%	209	0	0.0%	0.9%	2	
KERN	16,497	27	0.2%	16,492	26	0.2%	0.0%	1	
KINGS	2,731	5	0.2%	2,588	3	0.1%	0.1%	2	
LAKE	840	6	0.7%	804	6	0.7%	0.0%	0	
LASSEN	357	5	1.4%	378	3	0.8%	0.6%	2	
LOS ANGELES	140,269	515	0.4%	134,209	169	0.1%	0.2%	346	
MADERA	2,835	5	0.2%	2,797	6	0.2%	0.0%	-1	
MARIN	3,245	68	2.1%	3,306	8	0.2%	1.9%	60	
MARIPOSA	19	<20*	--*	157	0	0.0%	--*	--*	
MENDOCINO	1,195	7	0.6%	1,191	5	0.4%	0.2%	2	
MERCED	5,618	8	0.1%	5,016	5	0.1%	0.0%	3	
MODOC	130	0	0.0%	128	0	0.0%	0.0%	0	
MONO	139	2	1.4%	144	0	0.0%	1.4%	2	
MONTEREY	7,221	37	0.5%	6,960	16	0.2%	0.3%	21	
NAPA	1,702	19	1.1%	1,750	3	0.2%	0.9%	16	
NEVADA	944	34	3.6%	896	2	0.2%	3.4%	32	

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME	
STATE TOTAL	562,924	2,850	0.5%	551,123	931	0.2%	0.3%	1,919	
COUNTY									
ORANGE	42,389	348	0.8%	42,007	92	0.2%	0.6%	256	
PLACER	5,847	64	1.1%	5,756	8	0.1%	1.0%	56	
PLUMAS	166	5	3.0%	188	3	1.6%	1.4%	2	
RIVERSIDE	36,132	151	0.4%	34,506	71	0.2%	0.2%	80	
SACRAMENTO	21,993	129	0.6%	20,649	29	0.1%	0.4%	100	
SAN BENITO	967	3	0.3%	908	5	0.6%	-0.2%	-2	
SAN BERNARDINO	34,471	105	0.3%	34,118	55	0.2%	0.1%	50	
SAN DIEGO	46,044	404	0.9%	45,646	108	0.2%	0.6%	296	
SAN FRANCISCO	6,742	33	0.5%	6,524	10	0.2%	0.3%	23	
SAN JOAQUIN	12,572	32	0.3%	12,201	18	0.1%	0.1%	14	
SAN LUIS OBISPO	3,154	19	0.6%	3,147	5	0.2%	0.4%	14	
SAN MATEO	9,608	34	0.4%	9,757	14	0.1%	0.2%	20	
SANTA BARBARA	6,674	41	0.6%	6,721	7	0.1%	0.5%	34	
SANTA CLARA	26,070	108	0.4%	26,269	59	0.2%	0.2%	49	
SANTA CRUZ	3,681	53	1.4%	3,567	13	0.4%	1.1%	40	
SHASTA	2,386	29	1.2%	2,232	1	0.0%	1.2%	28	
SIERRA	23	0	0.0%	27	0	0.0%	0.0%	0	
SISKIYOU	520	7	1.3%	488	0	0.0%	1.3%	7	
SOLANO	5,919	16	0.3%	5,592	9	0.2%	0.1%	7	
SONOMA	6,669	109	1.6%	6,757	15	0.2%	1.4%	94	
STANISLAUS	9,166	33	0.4%	9,397	16	0.2%	0.2%	17	
SUTTER	1,995	8	0.4%	1,909	6	0.3%	0.1%	2	
TEHAMA	1,024	8	0.8%	1,011	4	0.4%	0.4%	4	
TRINITY	144	0	0.0%	139	0	0.0%	0.0%	0	
TULARE	9,243	10	0.1%	9,267	7	0.1%	0.0%	3	
TUOLUMNE	570	11	1.9%	569	1	0.2%	1.8%	10	
VENTURA	12,247	77	0.6%	12,718	20	0.2%	0.5%	57	
YOLO	2,830	8	0.3%	2,725	1	0.0%	0.2%	7	
YUBA	1,478	1	0.1%	1,408	2	0.1%	-0.1%	-1	

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE	PERCENT
STATE TOTAL	562,924	3,133	0.6%	551,123	13,086	2.4%	-1.8%	-9,953	
COUNTY									
ALAMEDA	21,910	32	0.1%	21,644	263	1.2%	-1.1%	-231	
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*	
AMADOR	290	2	0.7%	307	10	3.3%	-2.6%	-8	
BUTTE	2,814	17	0.6%	2,936	156	5.3%	-4.7%	-139	
CALAVERAS	462	8	1.7%	419	44	10.5%	-8.8%	-36	
COLUSA	411	0	0.0%	408	0	0.0%	0.0%	0	
CONTRA COSTA	15,434	68	0.4%	15,398	304	2.0%	-1.5%	-236	
DEL NORTE	401	0	0.0%	344	30	8.7%	-8.7%	-30	
EL DORADO	2,205	24	1.1%	2,246	161	7.2%	-6.1%	-137	
FRESNO	18,779	30	0.2%	18,763	181	1.0%	-0.8%	-151	
GLENN	481	2	0.4%	483	12	2.5%	-2.1%	-10	
HUMBOLDT	1,799	30	1.7%	1,741	181	10.4%	-8.7%	-151	
IMPERIAL	3,254	3	0.1%	3,200	17	0.5%	-0.4%	-14	
INYO	212	0	0.0%	209	2	1.0%	-1.0%	-2	
KERN	16,497	223	1.4%	16,492	247	1.5%	-0.1%	-24	
KINGS	2,731	2	0.1%	2,588	24	0.9%	-0.9%	-22	
LAKE	840	0	0.0%	804	20	2.5%	-2.5%	-20	
LASSEN	357	4	1.1%	378	36	9.5%	-8.4%	-32	
LOS ANGELES	140,269	657	0.5%	134,209	1,995	1.5%	-1.0%	-1,338	
MADERA	2,835	2	0.1%	2,797	40	1.4%	-1.4%	-38	
MARIN	3,245	40	1.2%	3,306	196	5.9%	-4.7%	-156	
MARIPOSA	19	<20*	--*	157	21	13.4%	--*	--*	
MENDOCINO	1,195	13	1.1%	1,191	85	7.1%	-6.0%	-72	
MERCED	5,618	1	0.0%	5,016	39	0.8%	-0.8%	-38	
MODOC	130	0	0.0%	128	1	0.8%	-0.8%	-1	
MONO	139	1	0.7%	144	16	11.1%	-10.4%	-15	
MONTEREY	7,221	17	0.2%	6,960	98	1.4%	-1.2%	-81	
NAPA	1,702	11	0.6%	1,750	58	3.3%	-2.7%	-47	
NEVADA	944	66	7.0%	896	165	18.4%	-11.4%	-99	

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE	PERCENT
STATE TOTAL	562,924	3,133	0.6%	551,123	13,086	2.4%	-1.8%	-9,953	-1.8%
COUNTY									
ORANGE	42,389	269	0.6%	42,007	1,270	3.0%	-2.4%	-1,001	-2.4%
PLACER	5,847	69	1.2%	5,756	343	6.0%	-4.8%	-274	-4.8%
PLUMAS	166	1	0.6%	188	17	9.0%	-8.4%	-16	-8.4%
RIVERSIDE	36,132	95	0.3%	34,506	728	2.1%	-1.8%	-633	-1.8%
SACRAMENTO	21,993	127	0.6%	20,649	838	4.1%	-3.5%	-711	-3.5%
SAN BENITO	967	0	0.0%	908	11	1.2%	-1.2%	-11	-1.2%
SAN BERNARDINO	34,471	83	0.2%	34,118	651	1.9%	-1.7%	-568	-1.7%
SAN DIEGO	46,044	655	1.4%	45,646	1,631	3.6%	-2.2%	-976	-2.2%
SAN FRANCISCO	6,742	22	0.3%	6,524	96	1.5%	-1.1%	-74	-1.1%
SAN JOAQUIN	12,572	30	0.2%	12,201	159	1.3%	-1.1%	-129	-1.1%
SAN LUIS OBISPO	3,154	13	0.4%	3,147	174	5.5%	-5.1%	-161	-5.1%
SAN MATEO	9,608	20	0.2%	9,757	159	1.6%	-1.4%	-139	-1.4%
SANTA BARBARA	6,674	47	0.7%	6,721	240	3.6%	-2.9%	-193	-2.9%
SANTA CLARA	26,070	84	0.3%	26,269	437	1.7%	-1.3%	-353	-1.3%
SANTA CRUZ	3,681	43	1.2%	3,567	313	8.8%	-7.6%	-270	-7.6%
SHASTA	2,386	34	1.4%	2,232	187	8.4%	-7.0%	-153	-7.0%
SIERRA	23	0	0.0%	27	0	0.0%	0.0%	0	0.0%
SISKIYOU	520	5	1.0%	488	38	7.8%	-6.8%	-33	-6.8%
SOLANO	5,919	16	0.3%	5,592	84	1.5%	-1.2%	-68	-1.2%
SONOMA	6,669	92	1.4%	6,757	327	4.8%	-3.5%	-235	-3.5%
STANISLAUS	9,166	38	0.4%	9,397	215	2.3%	-1.9%	-177	-1.9%
SUTTER	1,995	18	0.9%	1,909	150	7.9%	-7.0%	-132	-7.0%
TEHAMA	1,024	5	0.5%	1,011	28	2.8%	-2.3%	-23	-2.3%
TRINITY	144	0	0.0%	139	20	14.4%	-14.4%	-20	-14.4%
TULARE	9,243	5	0.1%	9,267	83	0.9%	-0.8%	-78	-0.8%
TUOLUMNE	570	17	3.0%	569	47	8.3%	-5.3%	-30	-5.3%
VENTURA	12,247	73	0.6%	12,718	316	2.5%	-1.9%	-243	-1.9%
YOLO	2,830	17	0.6%	2,725	95	3.5%	-2.9%	-78	-2.9%
YUBA	1,478	2	0.1%	1,408	27	1.9%	-1.8%	-25	-1.8%

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS<sup>†</sup>,  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		INDEPENDENT STUDY		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924	2,564	0.5%	1,684	0.3%	684	0.1%	196	0.0%			
COUNTY	21,910	13	0.1%	0	0.0%	13	0.1%	0	0.0%			
ALAMEDA	6	<20*	--*	<20*	--*	<20*	--*	<20*	--*			
ALPINE	290	1	0.3%	0	0.0%	1	0.3%	0	0.0%			
AMADOR	2,814	40	1.4%	32	1.1%	8	0.3%	0	0.0%			
BUTTE	462	14	3.0%	11	2.4%	3	0.6%	0	0.0%			
CALAVERAS	411	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
COLUSA	15,434	29	0.2%	10	0.1%	19	0.1%	0	0.0%			
CONTRA COSTA	401	15	3.7%	1	0.2%	14	3.5%	0	0.0%			
DEL NORTE	2,205	4	0.2%	2	0.1%	2	0.1%	0	0.0%			
EL DORADO	18,779	44	0.2%	18	0.1%	14	0.1%	12	0.1%			
FRESNO	481	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
GLENN	1,799	70	3.9%	67	3.7%	3	0.2%	0	0.0%			
HUMBOLDT	3,254	2	0.1%	0	0.0%	2	0.1%	0	0.0%			
IMPERIAL	212	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
INYO	16,497	23	0.1%	7	0.0%	14	0.1%	2	0.0%			
KERN	2,731	1	0.0%	1	0.0%	0	0.0%	0	0.0%			
KINGS	840	4	0.5%	4	0.5%	0	0.0%	0	0.0%			
LAKE	357	17	4.8%	17	4.8%	0	0.0%	0	0.0%			
LASSEN	140,269	301	0.2%	94	0.1%	179	0.1%	28	0.0%			
LOS ANGELES	2,835	23	0.8%	23	0.8%	0	0.0%	0	0.0%			
MADERA	3,245	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
MARIN	19	<20*	--*	<20*	--*	<20*	--*	<20*	--*			
MARIPOSA	1,195	5	0.4%	2	0.2%	3	0.3%	0	0.0%			
MENDOCINO	5,618	16	0.3%	0	0.0%	16	0.3%	0	0.0%			
MERCED	130	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
MODOC	139	0	0.0%	0	0.0%	0	0.0%	0	0.0%			
MONO	7,221	4	0.1%	1	0.0%	3	0.0%	0	0.0%			
MONTEREY	1,702	12	0.7%	0	0.0%	0	0.0%	12	0.7%			
NAPA	944	35	3.7%	35	3.7%	0	0.0%	0	0.0%			
NEVADA												

<sup>†</sup> Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private school instruction.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS<sup>†</sup>,  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		INDEPENDENT STUDY		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		IEP SERVICES		HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924		2,564	0.5%	1,684	0.3%	684	0.1%	196	0.0%		
COUNTY												
ORANGE	42,389		179	0.4%	58	0.1%	99	0.2%	22	0.1%		
PLACER	5,847		32	0.5%	23	0.4%	9	0.2%	0	0.0%		
PLUMAS	166		1	0.6%	1	0.6%	0	0.0%	0	0.0%		
RIVERSIDE	36,132		153	0.4%	101	0.3%	14	0.0%	38	0.1%		
SACRAMENTO	21,993		266	1.2%	192	0.9%	74	0.3%	0	0.0%		
SAN BENITO	967		0	0.0%	0	0.0%	0	0.0%	0	0.0%		
SAN BERNARDINO	34,471		179	0.5%	146	0.4%	18	0.1%	15	0.0%		
SAN DIEGO	46,044		329	0.7%	255	0.6%	50	0.1%	24	0.1%		
SAN FRANCISCO	6,742		0	0.0%	0	0.0%	0	0.0%	0	0.0%		
SAN JOAQUIN	12,572		68	0.5%	40	0.3%	23	0.2%	5	0.0%		
SAN LUIS OBISPO	3,154		18	0.6%	6	0.2%	9	0.3%	3	0.1%		
SAN MATEO	9,608		4	0.0%	2	0.0%	2	0.0%	0	0.0%		
SANTA BARBARA	6,674		30	0.4%	28	0.4%	2	0.0%	0	0.0%		
SANTA CLARA	26,070		18	0.1%	0	0.0%	18	0.1%	0	0.0%		
SANTA CRUZ	3,681		134	3.6%	125	3.4%	9	0.2%	0	0.0%		
SHASTA	2,386		29	1.2%	22	0.9%	6	0.3%	1	0.0%		
SIERRA	23		0	0.0%	0	0.0%	0	0.0%	0	0.0%		
SISKIYOU	520		15	2.9%	15	2.9%	0	0.0%	0	0.0%		
SOLANO	5,919		13	0.2%	0	0.0%	13	0.2%	0	0.0%		
SONOMA	6,669		21	0.3%	18	0.3%	3	0.0%	0	0.0%		
STANISLAUS	9,166		13	0.1%	3	0.0%	10	0.1%	0	0.0%		
SUTTER	1,995		245	12.3%	242	12.1%	3	0.2%	0	0.0%		
TEHAMA	1,024		6	0.6%	6	0.6%	0	0.0%	0	0.0%		
TRINITY	144		1	0.7%	1	0.7%	0	0.0%	0	0.0%		
TULARE	9,243		26	0.3%	24	0.3%	2	0.0%	0	0.0%		
TUOLUMNE	570		6	1.1%	2	0.4%	0	0.0%	4	0.7%		
VENTURA	12,247		87	0.7%	41	0.3%	16	0.1%	30	0.2%		
YOLO	2,830		7	0.2%	0	0.0%	7	0.2%	0	0.0%		
YUBA	1,478		11	0.7%	8	0.5%	3	0.2%	0	0.0%		

<sup>†</sup> Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private school instruction.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS<sup>†</sup> IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	PERCENT	OVERDUE <sup>†</sup>
STATE TOTAL	562,924	5,650	1.0%	551,123	974	0.2%	0.8%	4,676
COUNTY								
ALAMEDA	21,910	209	1.0%	21,644	67	0.3%	0.6%	142
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	290	0	0.0%	307	6	2.0%	-2.0%	-6
BUTTE	2,814	17	0.6%	2,936	2	0.1%	0.5%	15
CALAVERAS	462	0	0.0%	419	2	0.5%	-0.5%	-2
COLUSA	411	7	1.7%	408	0	0.0%	1.7%	7
CONTRA COSTA	15,434	75	0.5%	15,398	3	0.0%	0.5%	72
DEL NORTE	401	0	0.0%	344	0	0.0%	0.0%	0
EL DORADO	2,205	3	0.1%	2,246	1	0.0%	0.1%	2
FRESNO	18,779	123	0.7%	18,763	13	0.1%	0.6%	110
GLENN	481	2	0.4%	483	3	0.6%	-0.2%	-1
HUMBOLDT	1,799	14	0.8%	1,741	6	0.3%	0.4%	8
IMPERIAL	3,254	43	1.3%	3,200	1	0.0%	1.3%	42
INYO	212	3	1.4%	209	0	0.0%	1.4%	3
KERN	16,497	114	0.7%	16,492	33	0.2%	0.5%	81
KINGS	2,731	9	0.3%	2,588	2	0.1%	0.3%	7
LAKE	840	2	0.2%	804	0	0.0%	0.2%	2
LASSEN	357	0	0.0%	378	0	0.0%	0.0%	0
LOS ANGELES	140,269	2,734	1.9%	134,209	190	0.1%	1.8%	2544
MADERA	2,835	41	1.4%	2,797	2	0.1%	1.4%	39
MARIN	3,245	15	0.5%	3,306	0	0.0%	0.5%	15
MARIPOSA	19	<20*	--*	157	0	0.0%	--*	--*
MENDOCINO	1,195	8	0.7%	1,191	8	0.7%	0.0%	0
MERCED	5,618	24	0.4%	5,016	28	0.6%	-0.1%	-4
MODOC	130	0	0.0%	128	2	1.6%	-1.6%	-2
MONO	139	0	0.0%	144	0	0.0%	0.0%	0
MONTEREY	7,221	37	0.5%	6,960	8	0.1%	0.4%	29
NAPA	1,702	0	0.0%	1,750	0	0.0%	0.0%	0
NEVADA	944	1	0.1%	896	8	0.9%	-0.8%	-7

<sup>†</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS<sup>†</sup> IN 2016-2017 AND 2015-2016,  
 AND 1-YEAR CHANGE, BY COUNTY

	2016-2017			2015-2016			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	PERCENT	OVERDUE <sup>†</sup>
STATE TOTAL	562,924	5,650	1.0%	551,123	974	0.2%	0.8%	4,676
COUNTY								
ORANGE	42,389	256	0.6%	42,007	48	0.1%	0.5%	208
PLACER	5,847	83	1.4%	5,756	0	0.0%	1.4%	83
PLUMAS	166	0	0.0%	188	0	0.0%	0.0%	0
RIVERSIDE	36,132	356	1.0%	34,506	31	0.1%	0.9%	325
SACRAMENTO	21,993	134	0.6%	20,649	48	0.2%	0.4%	86
SAN BENITO	967	6	0.6%	908	1	0.1%	0.5%	5
SAN BERNARDINO	34,471	331	1.0%	34,118	96	0.3%	0.7%	235
SAN DIEGO	46,044	247	0.5%	45,646	133	0.3%	0.2%	114
SAN FRANCISCO	6,742	120	1.8%	6,524	1	0.0%	1.8%	119
SAN JOAQUIN	12,572	40	0.3%	12,201	51	0.4%	-0.1%	-11
SAN LUIS OBISPO	3,154	9	0.3%	3,147	4	0.1%	0.2%	5
SAN MATEO	9,608	104	1.1%	9,757	4	0.0%	1.0%	100
SANTA BARBARA	6,674	2	0.0%	6,721	1	0.0%	0.0%	1
SANTA CLARA	26,070	207	0.8%	26,269	34	0.1%	0.7%	173
SANTA CRUZ	3,681	14	0.4%	3,567	11	0.3%	0.1%	3
SHASTA	2,386	15	0.6%	2,232	9	0.4%	0.2%	6
SIERRA	23	0	0.0%	27	0	0.0%	0.0%	0
SISKIYOU	520	1	0.2%	488	6	1.2%	-1.0%	-5
SOLANO	5,919	49	0.8%	5,592	11	0.2%	0.6%	38
SONOMA	6,669	39	0.6%	6,757	26	0.4%	0.2%	13
STANISLAUS	9,166	50	0.5%	9,397	25	0.3%	0.3%	25
SUTTER	1,995	6	0.3%	1,909	3	0.2%	0.1%	3
TEHAMA	1,024	0	0.0%	1,011	1	0.1%	-0.1%	-1
TRINITY	144	2	1.4%	139	0	0.0%	1.4%	2
TULARE	9,243	15	0.2%	9,267	10	0.1%	0.1%	5
TUOLUMNE	570	10	1.8%	569	0	0.0%	1.8%	10
VENTURA	12,247	53	0.4%	12,718	33	0.3%	0.2%	20
YOLO	2,830	7	0.2%	2,725	1	0.0%	0.2%	6
YUBA	1,478	13	0.9%	1,408	1	0.1%	0.8%	12

<sup>†</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924		545,541	96.9%	547,872	97.3%	547,786	97.3%	550,755	97.8%	554,685	98.5%
COUNTY	21,910		21,527	98.3%	21,602	98.6%	21,611	98.6%	21,584	98.5%	21,787	99.4%
ALAMEDA	6		<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
ALPINE	290		283	97.6%	285	98.3%	285	98.3%	282	97.2%	287	99.0%
AMADOR	2,814		2,709	96.3%	2,735	97.2%	2,721	96.7%	2,720	96.7%	2,762	98.2%
BUTTE	462		422	91.3%	436	94.4%	428	92.6%	440	95.2%	441	95.5%
CALAVERAS	411		401	97.6%	404	98.3%	403	98.1%	403	98.1%	405	98.5%
COLUSA	15,434		15,131	98.0%	15,166	98.3%	15,174	98.3%	15,230	98.7%	15,294	99.1%
CONTRA COSTA	401		377	94.0%	382	95.3%	388	96.8%	394	98.3%	399	99.5%
DEL NORTE	2,205		2,106	95.5%	2,112	95.8%	2,119	96.1%	2,120	96.1%	2,140	97.1%
EL DORADO	18,779		18,354	97.7%	18,463	98.3%	18,496	98.5%	18,581	98.9%	18,657	99.4%
FRESNO	481		471	97.9%	475	98.8%	472	98.1%	475	98.8%	478	99.4%
GLENN	1,799		1,629	90.6%	1,631	90.7%	1,647	91.6%	1,631	90.7%	1,678	93.3%
HUMBOLDT	3,254		3,201	98.4%	3,205	98.5%	3,197	98.2%	3,235	99.4%	3,235	99.4%
IMPERIAL	212		205	96.7%	205	96.7%	206	97.2%	206	97.2%	208	98.1%
INYO	16,497		15,870	96.2%	16,024	97.1%	15,994	97.0%	16,061	97.4%	16,185	98.1%
KERN	2,731		2,671	97.8%	2,709	99.2%	2,713	99.3%	2,714	99.4%	2,722	99.7%
KINGS	840		819	97.5%	826	98.3%	821	97.7%	824	98.1%	827	98.5%
LAKEN	357		328	91.9%	331	92.7%	330	92.4%	336	94.1%	340	95.2%
LOS ANGELES	140,269		135,762	96.8%	136,262	97.1%	136,087	97.0%	137,675	98.2%	138,585	98.8%
MADERA	2,835		2,746	96.9%	2,762	97.4%	2,766	97.6%	2,783	98.2%	2,800	98.8%
MARIN	3,245		3,114	96.0%	3,107	95.7%	3,129	96.4%	3,085	95.1%	3,150	97.1%
MARIPOSA	19		<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
MENDOCINO	1,195		1,103	92.3%	1,101	92.1%	1,113	93.1%	1,142	95.6%	1,168	97.7%
MERCED	5,618		5,518	98.2%	5,549	98.8%	5,554	98.9%	5,575	99.2%	5,578	99.3%
MODOC	130		103	79.2%	110	84.6%	111	85.4%	114	87.7%	116	89.2%
MONO	139		134	96.4%	134	96.4%	134	96.4%	131	94.2%	134	96.4%
MONTEREY	7,221		7,109	98.4%	7,121	98.6%	7,115	98.5%	7,128	98.7%	7,148	99.0%
NAPA	1,702		1,652	97.1%	1,653	97.1%	1,659	97.5%	1,655	97.2%	1,665	97.8%
NEVADA	944		811	85.9%	810	85.8%	815	86.3%	804	85.2%	829	87.8%

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2016-2017  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	562,924		545,541	96.9%	547,872	97.3%	547,786	97.3%	550,755	97.8%	554,685	98.5%
COUNTY												
ORANGE	42,389		41,118	97.0%	41,256	97.3%	41,204	97.2%	41,499	97.9%	41,768	98.5%
PLACER	5,847		5,525	94.5%	5,539	94.7%	5,550	94.9%	5,577	95.4%	5,657	96.8%
PLUMAS	166		154	92.8%	154	92.8%	152	91.6%	157	94.6%	159	95.8%
RIVERSIDE	36,132		35,207	97.4%	35,410	98.0%	35,417	98.0%	35,545	98.4%	35,782	99.0%
SACRAMENTO	21,993		20,968	95.3%	21,153	96.2%	21,165	96.2%	21,340	97.0%	21,563	98.0%
SAN BENITO	967		957	99.0%	960	99.3%	953	98.6%	959	99.2%	960	99.3%
SAN BERNARDINO	34,471		33,519	97.2%	33,739	97.9%	33,724	97.8%	33,898	98.3%	34,123	99.0%
SAN DIEGO	46,044		44,180	96.0%	44,341	96.3%	44,418	96.5%	44,418	96.5%	44,801	97.3%
SAN FRANCISCO	6,742		6,542	97.0%	6,552	97.2%	6,543	97.0%	6,566	97.4%	6,630	98.3%
SAN JOAQUIN	12,572		12,299	97.8%	12,357	98.3%	12,362	98.3%	12,422	98.8%	12,455	99.1%
SAN LUIS OBISPO	3,154		3,059	97.0%	3,054	96.8%	3,074	97.5%	3,070	97.3%	3,096	98.2%
SAN MATEO	9,608		9,396	97.8%	9,445	98.3%	9,423	98.1%	9,469	98.6%	9,550	99.4%
SANTA BARBARA	6,674		6,523	97.7%	6,538	98.0%	6,537	97.9%	6,520	97.7%	6,587	98.7%
SANTA CLARA	26,070		25,596	98.2%	25,692	98.6%	25,637	98.3%	25,730	98.7%	25,848	99.1%
SANTA CRUZ	3,681		3,446	93.6%	3,431	93.2%	3,441	93.5%	3,425	93.0%	3,514	95.5%
SHASTA	2,386		2,244	94.0%	2,262	94.8%	2,263	94.8%	2,282	95.6%	2,295	96.2%
SIERRA	23		23	100.0%	22	95.7%	22	95.7%	23	100.0%	22	95.7%
SISKIYOU	520		482	92.7%	487	93.7%	486	93.5%	506	97.3%	488	93.8%
SOLANO	5,919		5,764	97.4%	5,807	98.1%	5,806	98.1%	5,830	98.5%	5,871	99.2%
SONOMA	6,669		6,378	95.6%	6,360	95.4%	6,382	95.7%	6,358	95.3%	6,462	96.9%
STANISLAUS	9,166		8,965	97.8%	9,004	98.2%	9,009	98.3%	9,046	98.7%	9,099	99.3%
SUTTER	1,995		1,738	87.1%	1,757	88.1%	1,741	87.3%	1,763	88.4%	1,783	89.4%
TEHAMA	1,024		992	96.9%	973	95.0%	991	96.8%	1,000	97.7%	978	95.5%
TRINITY	144		133	92.4%	136	94.4%	139	96.5%	138	95.8%	141	97.9%
TULARE	9,243		9,130	98.8%	9,165	99.2%	9,159	99.1%	9,178	99.3%	9,201	99.5%
TUOLUMINE	570		519	91.1%	520	91.2%	518	90.9%	523	91.8%	528	92.6%
VENTURA	12,247		11,926	97.4%	11,941	97.5%	11,956	97.6%	11,972	97.8%	12,052	98.4%
YOLO	2,830		2,766	97.7%	2,771	97.9%	2,773	98.0%	2,763	97.6%	2,793	98.7%
YUBA	1,478		1,436	97.2%	1,446	97.8%	1,453	98.3%	1,450	98.1%	1,461	98.8%

\* County reporting fewer than 20 children in kindergarten.

**APPENDIX H**

**2017-2018 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## 2017-2018 Kindergarten Immunization Assessment – Executive Summary California Department of Public Health, Immunization Branch

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Each autumn California schools are required to report to the California Department of Public Health (CDPH) the status of their students under state immunization requirement laws. In recent years there have been changes to these laws and how public health departments assist schools to implement them. In 2014 and 2015 Assembly Bill (AB) 2109 added requirements for exemptions to required immunizations based on personal beliefs. 2017-2018 is the second 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). Beginning in the 2015-2016 school year, many public health departments in California have assisted schools in correctly identifying and supporting eligible students, described as conditional entrants, who catch up with immunization requirements after entry.

The proportion of students attending kindergarten in 2017-2018 reported to have received all required vaccines is 95.1%, a 0.4 percentage point decrease (difference of unrounded values) from the 2016-2017 school year and a 4.7 percentage point increase over the three years since 2014-2015. The 2017-2018 rate of 95.1% is the second highest reported for the current set of immunization requirements for kindergarten, which began in the 2001-2002 school year.

Completion rates for each specific immunization series decreased between 0.2 percentage points for Hepatitis B to 0.5 percentage points for Diphtheria, Tetanus and Pertussis (DTP) vaccine and Polio vaccine. In 2017-2018, 16 (28%) counties report fewer than 95% of their kindergarteners as having had two doses of Measles, Mumps and Rubella (MMR) vaccine, compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

The proportion of kindergartners reported as conditional entrants declined from 1.9% in 2016-2017 to 1.8% in 2017-2018, a 0.1 percentage point decrease over one year and a 5.0 percentage point decrease over the three years since 2014-2015. The present rate of 1.8% is the lowest reported for the current set of immunization requirements for kindergarten.

Because of SB 277, the proportion of kindergartners reported with PBEs decreased in 2017-2018 from 0.6% to 0.0%. Previously during measures specified in AB 2109, the rate of PBEs had decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016.

Compared to 2016-2017, in 2017-2018 the proportion of kindergartners reported as:

- Having permanent medical exemptions increased from 0.5% to 0.7%.
- Lacking immunizations for other reasons specified under SB 277 increased from 0.5% to 1.1%, with 0.8% reported as being enrolled in independent study programs.
- Being overdue for required immunizations increased from 1.0% to 1.2%.

Possible explanations for the overall improvements in recent years in the reported immunization coverage of kindergarteners in California include, but are not limited to:

- Efforts by public health departments, schools, medical providers and partner organizations to help ensure that children meet school immunization requirements.
- Increased public awareness about the importance of immunizations in the aftermath of outbreaks of vaccine-preventable diseases.
- The recent laws, SB 277 and AB 2109.
- Review of eligible schools in 2016 and 2017 for compliance with immunization laws, as a component of comprehensive state-mandated financial audits of local education agencies.

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.

## 2017-2018 Kindergarten Immunization Assessment – Technical Notes

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### Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120325-120375). This report summarizes data for the 2017-2018 school year reported by public and private kindergartens statewide (Table 1, Figures 1-8) and by county (Tables 2-11).

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. 2017-2018 is the second full school year that entrants have been subject to [Senate Bill \(SB\) 277](#), which no longer permits them to receive such personal beliefs exemptions (PBEs).

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

Many California schools offer a multiyear kindergarten curriculum in which children as young as 4 years of age may receive an initial year of transitional kindergarten. Very few children attend more than two years of kindergarten under these programs.

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### Methods

During the autumn of 2017, California schools registered with the California Department of Education reported data on kindergarteners in the 2017-2018 school year to the California Department of Public Health (CDPH). Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:
  - 4 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine
  - 3 or more of Polio vaccine
  - 2 or more of Measles, Mumps and Rubella (MMR) vaccine
  - 3 or more of Hepatitis B (Hep B) vaccine, and
  - 1 or more of Varicella (Var) vaccine or a history documented by a physician of having had chickenpox.
- Conditional entrants who had:
  - Not received all required doses but were not overdue for required doses, or
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Entered a multiyear kindergarten program prior to 2016-2017 school year with a personal beliefs exemption (PBE) and continued in kindergarten during the 2017-2018 school year. Under SB 277, PBEs no longer have been an option for children who have entered kindergarten since the 2016-2017 school year.
- 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
  - 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.

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

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

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

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## Results

The number of kindergarteners in California whose immunization status was reported increased from 562,924 in 2016-2017 to 564,121 in the 2017-2018 school year (Table 1). The increase reflects reporting from public schools, as the number of students reported from private schools was 42,298 in 2016-2017 and 42,039 in 2017-2018. The number of schools that reported increased from 7,820 in 2016-2017 to 7,957 in 2017-2018, and the number of schools that did not report decreased from 446 to 238 (Tables 1 and 2). The number of public schools that reported increased from 5,967 in 2016-2017 to 6,074 in 2017-2018 (Tables 1 and 2). The number of private schools that reported increased from 1,853 in 2016-2017 to 1,883 in 2017-2018. Private schools account for 7% (42,039/564,121) of all kindergarteners about whom data was reported in 2017-2018, 24% (1,883/7,957) of all schools that reported data on kindergarteners and 81% (192/238) of schools that did not report.

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

All required immunizations: Of 564,121 kindergarteners whose schools reported their status, 536,642 (95.1%) had received all required immunizations, a decrease from the previous school year of 0.4 percentage points (Tables 1 and 5) and an increase over three school years of 4.7 percentage points (Figures 1 and 6). Compared to the 2016-2017 school year, the percentage of students with all required immunizations decreased by at least 1% in 22 (38%) of 58 counties and increased by at least 1% in 10 (17%) counties (Table 5). For counties reporting at least 25 students, the highest rates, at greater than 98%, were reported in Colusa, Glenn, San Benito, Tulare, Modoc and Inyo counties (Tables 3-5).

In 2017-2018 nine (16%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90%, the same number as in 2016-2017 (Tables 4 and 5, Figure 9). The rate in at least one of these, Sutter County, is influenced by online or virtual schools that are based in the county but that enroll children who reside mostly in other counties; many students in virtual schools qualify for exemptions from requirements under SB 277 (see

Methods and below). At traditional classroom-based schools in Sutter County, 97.5% (1,512/1,551) of kindergartens were reported as receiving all required immunizations, compared to 28.3% (170/601) enrolled at virtual schools based in the county and 78.2% (1,682/2,152) at all schools, traditional and virtual; of all students reported at kindergartens based in Sutter County, 28% (601/2,152) attend virtual schools.

As in past years, a higher proportion of students in public compared to private schools were reported as having had all required immunizations (95.3% vs. 92.9%; difference of 2.4 percentage points) (Table 1, Figures 7 and 8). However, this gap is smaller in 2017-2018 than it was in 2016-2017 (95.9% vs. 91.6%; difference of 4.3 percentage points), as there was a one-year decrease of 0.6 percentage points for students in public schools and an increase of 1.3 percentage points for those in private schools.

The effects of increased reporting were examined. For schools that reported both in 2016-2017 and 2017-2018, 95.2% of students are classified as having received all required vaccines, compared to 89.2% of students at schools that reported in 2017-2018 but not in 2016-2017.

Specific immunizations: Completion rates for specific immunizations varied between 96.4% for DTP vaccine and 98.2% for varicella vaccine (Tables 1 and 11, Figure 5). The rates decreased between 0.2 percentage points for Hep B vaccine to 0.5 percentage points for DTP and Polio vaccines. Rates for receipt remain higher in public schools; for MMR, 97.0% of students at public schools and 95.0% at private schools were reported as having received two doses, a change from 2015-2016 respectively of -0.6 percentage points and +0.6 percentage points. In 2017-2018, 16 (28%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

Conditional entrants: Over the last three school years, the proportion of students reported as conditional entrants decreased from 6.9% in 2014-2015 to 1.8% in 2017-2018 (Table 1, Figures 2 and 6). Compared to the 2016-2017 school year, the proportion of conditional entrants in 2017-2018 decreased by 0.1 percentage point. The rate of conditional entrants decreased in both public (-0.1 percentage points) and private (-0.2 percentage points) schools (Table 1). Of 58 counties, at least 22 (38%) reported overall reductions in the proportion of conditional entrants, with the largest reductions reported for Modoc (-20.7 percentage points) and Mendocino (-4.6 percentage points) counties (Table 6). Of the 1.8% of students reported as conditional entrants in 2017-2018, 0.3% were reported as having had a temporary medical exemption, compared to 0.2% in 2016-2017.

PMEs: The percentage of students with PMEs increased from 0.5% in 2016-2017 to 0.7% in 2017-2018 (Tables 1 and 7, Figure 3). In public schools, the number of students reported with PMEs increased from 2,252 (0.4%) to 3,230 (0.6%) (Figure 7), while for private schools, the number of students increased from 598 (1.4%) to 881 (2.1%) (Figure 8).

PBEs: With the option of PBEs available to prior entrants but no longer to new entrants under SB 277, the percentage of kindergarteners with PBEs in 2017-2018 is 0.0%, compared to 0.6% in 2016-2017, 2.4% in 2015-2016 and 3.2% in 2013-2014 (Figures 4 and 6, Table 8). Five children (0.0%, Table 3) were reported as being in a multiyear kindergarten program in 2017-2018 with a PBE and enrollment prior to 2016. In 2017-2018 PBE rates declined over one year by 1.4 percentage points in private schools and 0.5 percentage points in public schools (Table 1, Figures 7 and 8).

Other students lacking required immunizations: The proportion of kindergarteners reported to be lacking one or more required immunizations and to attend an independent study program and do not receive classroom-based instruction, attend a home-based private school, or receive services in an IEP (Tables 1 and 9) increased from 0.5% in 2016-2017 to 1.1% in 2017-2018. Children reported as being enrolled in independent study programs accounted for most students in this category (0.8% of 1.1%) and for most of the increase compared to the previous year (0.5 of the 0.6 percentage point increase). More than 90% of the increase in the number of children enrolled in independent study programs and lacking immunizations were reported from schools based in six counties: Los Angeles, San Diego, Sutter, Fresno, El Dorado and Placer. Some of these students reside in other counties and are enrolled in virtual schools.

Overdue: The percentage of students reported as being overdue for one or more immunizations (Tables 1 and 3) increased from 1.0% in 2016-2017 to 1.2% in 2017-2018 (Table 1, Figure 6). In public schools the number of students reported as overdue increased from 4,950 (1.0%) to 6,375 (1.2%) (Figure 7). For private schools the number of students reported as overdue decreased from 700 (1.7%) to 545 (1.3%) (Figure 8).

Combined categories: Kindergarteners who are required to receive all mandated vaccines are reported in three categories: having received all required vaccines; conditional entrants; and being overdue for required doses. The kindergarteners who were reported in the sum of these three categories decreased by 0.3 percentage points from 98.5% in 2016-2017 to 98.2% in 2017-2018.

Conversely the sum of kindergarteners reported as not having to receive all required immunizations in elementary school because of PMEs; PBEs; or for other criteria specified in SB 277, increased by 0.3 percentage point from 1.5% in 2016-2017 to 1.8% in 2017-2018; the combined rate for public schools increased from 1.4% to 1.8% and for private schools decreased from 3.3% to 2.6%.

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## Discussion

The rates for immunization categories reported for the 2017-2018 school year are more similar to those in 2016-2017 than to prior years. Compared to 2016-2017, the proportion of students reported to enter kindergarten in California in 2017-2018 after receiving all required immunizations decreased by 0.4 percentage points to 95.1%, following an increase by 5.2 percentage points between the two prior school years from 2014-2015 to 2016-2017. The 2017-2018 rate of 95.1% is the second highest reported to CDPH since varicella vaccine became the most recent addition to the immunizations required for kindergarteners, which began in the 2001-2002 school year. The number of kindergarteners (564,121) and public schools (6,074) whose status was reported in 2017-2018 are the largest reported during the period starting in 2001-2002. Inclusion of schools with lower immunization rates that did not report in 2016-2017 contributed to the small decrease in coverage reported in 2017-2018.

The proportion of conditional entrants decreased by 0.1 percentage point in 2017-2018 after a decrease of 5.0 percentage points in the two school years between 2014-2015 and 2016-2017. The current reported rate of conditional entrants, 1.8%, is the lowest reported for the current panel of required immunizations in place since the 2001-2002 school year.

Since 2015 local health departments and CDPH have intensified efforts to educate school staff on the proper use of conditional admission criteria based on the [Conditional Admission Immunization Schedule](#). In addition, state-mandated annual financial and compliance audits of

local education agencies for the 2015-2016 and 2016-2017 school years inspected reimbursement for attendance at schools with higher rates of conditional admission. It is likely that these measures to promote compliance have contributed to the decreases in students reported as conditional entrants. These changes might also be attributable to an increased awareness of the risks of vaccine-preventable diseases and benefits of immunization, triggered in part by the measles outbreak that began in December 2014<sup>1</sup>.

It is possible that children who in previous school years would have been inaccurately categorized as conditional entrants represent some of the 1.2% of entrants reported as overdue in 2017-2018. Continued efforts to educate schools and support immunization services might further reduce the number of children who in future years are categorized either as conditional entrants or overdue; in sum these categories account for 3.0% of kindergarteners reported in 2017-2018, similar to the rate of 2.9% reported in 2016-2017.

With the additional measures required under AB 2109 for requesting PBEs during 2014 and 2015, the rate of PBEs decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016. With the implementation of SB 277 and the cessation of PBEs for new (but not prior) entrants, the percentage of kindergarteners with PBEs in 2017-2018 has decreased to 0.0%. The residual number of five children in multiyear kindergarten programs reported as having a PBE in 2017-2018 (Table 3) is expected to fall to zero in future years.

The proportion of children reported in other categories of exemptions increased in 2017-2018, as 1.1% lacked required immunizations under other criteria introduced in SB 277. Most (0.8% out of 1.1%) of these children were reported as being enrolled in independent study programs, representing an increase of 0.5 percentage points from 2016-2017. Another 0.7% were reported as having PME, an increase of 0.2% from 2016-2017. In sum, 1.8% of entrants were reported as not having had required immunizations because of PBEs, PMEs or other criteria related to SB 277, compared to 1.5% in 2015-2016. Future assessments will continue to follow the trends for these measurements.

Children in schools and communities with lower immunization rates remain at higher risk of contracting and transmitting vaccine preventable diseases. In both the 2016-2017 and 2017-2018 school years, nine (16%) of 58 counties in California have had rates of kindergarteners with all required vaccines that are below 90% (Figure 9). 16 (28%) counties, compared to 14 (24%) in 2016-2017 and 31 (53%) in 2015-2016, report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), an approximate threshold necessary to prevent the transmission of measles. In addition, recent changes to California's school immunization laws did not apply to earlier cohorts of children who are no longer of school age. Unimmunized older children and adults were amongst those who caught measles during recent outbreaks in California. For these individuals, decisions that were made in previous decades to not immunize have had lingering consequences for themselves and their communities.

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## Limitations

This report is subject to limitations that include:

- 238 California elementary schools, including 192 private schools and 46 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of them enrolled kindergarteners this year or the immunization status of their kindergarteners.

<sup>1</sup> [https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s\\_cid=mm6406a5\\_w](https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s_cid=mm6406a5_w)

- As in previous years, private home schools that did not register with the California Department of Education may not have reported data to CDPH, which would result in continued underestimates of their enrollment.
- Eighteen schools, including at least eight virtual schools, registered with the California Department of Education as public schools, and which appear to enroll both public and private students, reported 378 students as attending home-based private schools. In this report these students are classified as attending public schools. Any misclassification of enrollment between public and private schools, or between independent study and home-based schools, has not affected the total of students in the category of other students lacking immunization, but has affected the subcategories.
- Part of the relative improvements in the completion rates of specific vaccines starting in the 2016-2017 school year may have been due to the inclusion in reporting of doses received by partially immunized children who had PBEs or PME to other required immunizations. In reporting to CDPH during prior school years, doses received by children with exemptions were not included in completion rates for any specific vaccine. This may have resulted in underestimates of completion rates for specific vaccines in prior years and overestimates of their increases between recent and prior years. The magnitude of the resultant increase to the rate of any immunization series in 2017-2018 resulting from this change in reporting could be no greater than 1.8%, the total of students reported in categories as not having to receive all required immunizations (PMEs, PBEs or other criteria specified in SB 277). This reporting change should not have affected rates, or changes in rates, for the category of having received all required vaccines.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, the reported rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would underestimate immunization coverage. Any improvements over time in completion of records since the time of reporting would increase estimates of coverage.
- Changes over time in the quality of reporting by schools are another potential explanation for changes in immunization rates.

*For further information, please contact CDPH Immunization Branch at [SchoolAssessments@cdph.ca.gov](mailto:SchoolAssessments@cdph.ca.gov).*

*For media inquiries, please contact CDPH Office of Public Affairs via e-mail [cdphpress@cdph.ca.gov](mailto:cdphpress@cdph.ca.gov) or phone 916-440-7259.*

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Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2011-2012 to 2017-2018

Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2011-2012 to 2017-2018

Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2011-2012 to 2017-2018

Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2014-2015 to 2017-2018

Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2016-2017 and 2017-2018

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Table 11. Number and Percentage of Students with Overdue Status in 2017-2018 and 2016-2017, and 1-Year Percentage Point Change, by County

Table 12. Number and Percentage of Students with Required Immunizations by Vaccine Series, by County

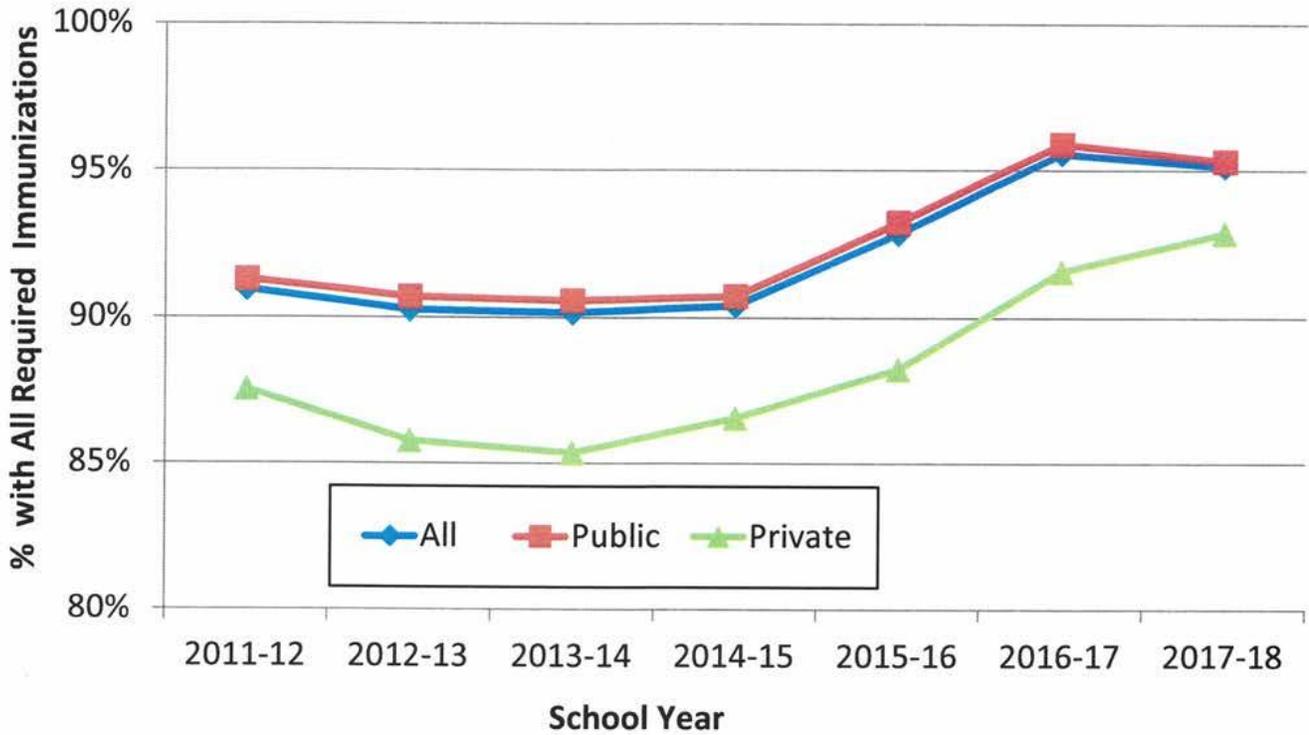


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2011-2012 to 2017-2018

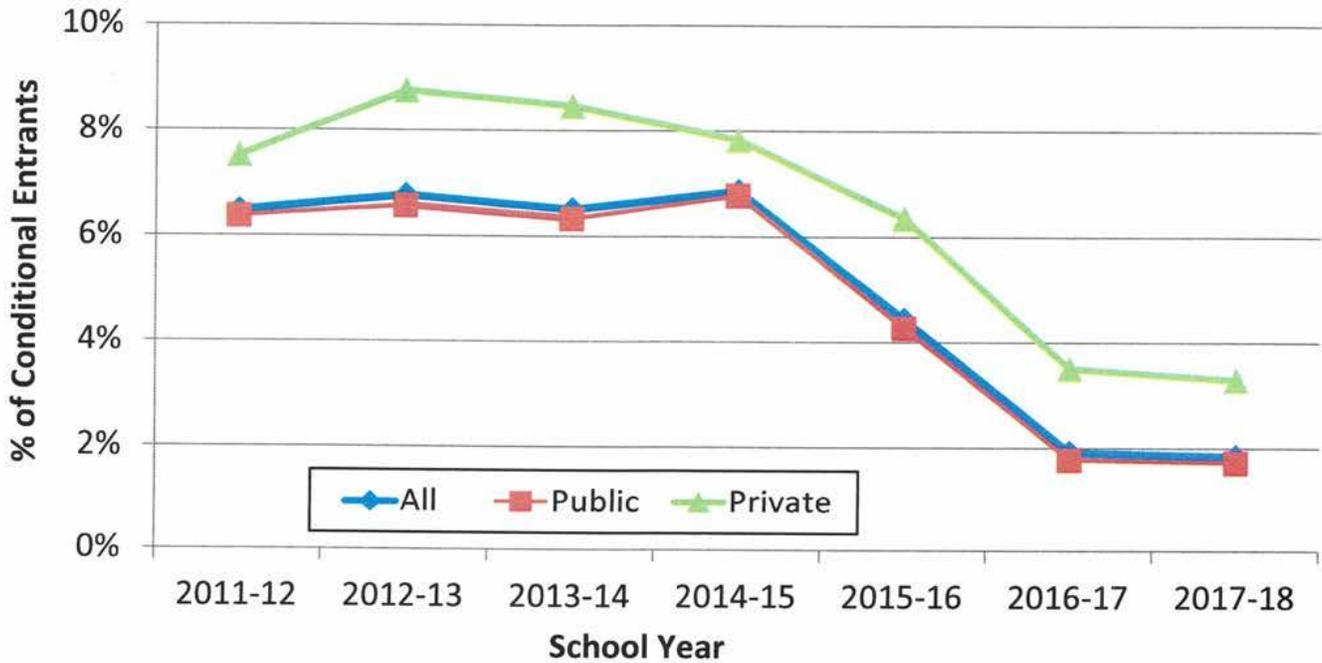


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2011-2012 to 2017-2018

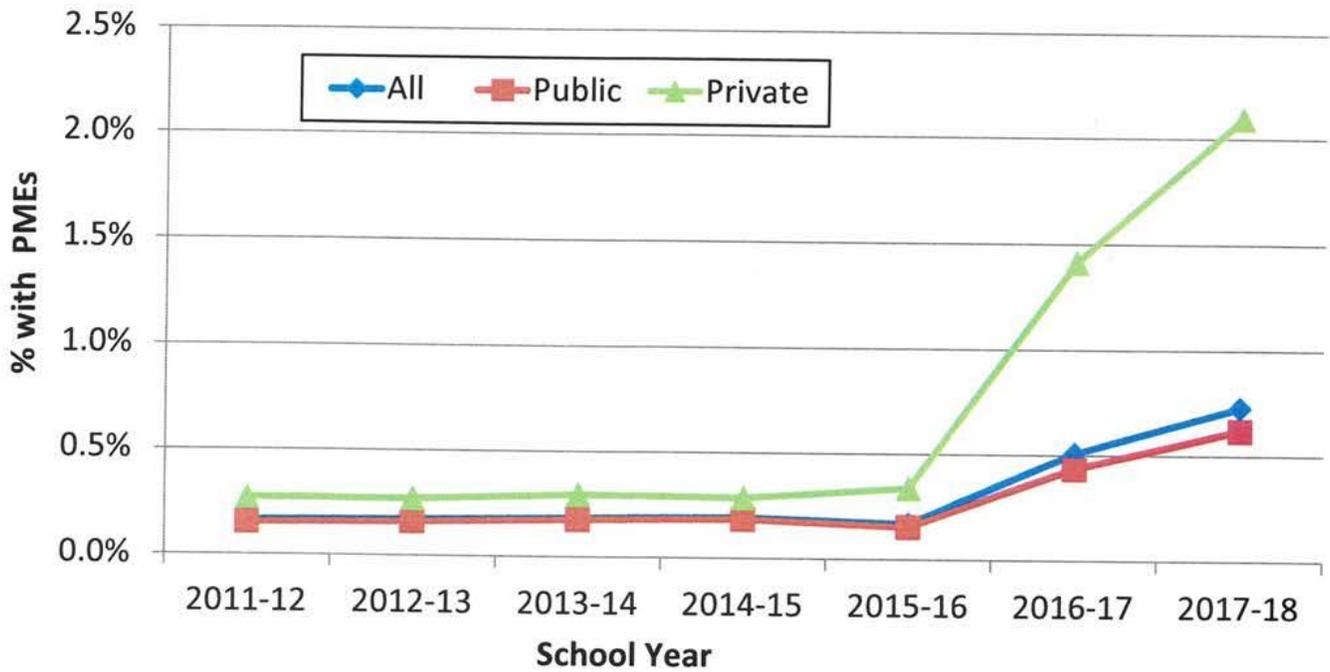


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2011-2012 to 2017-2018

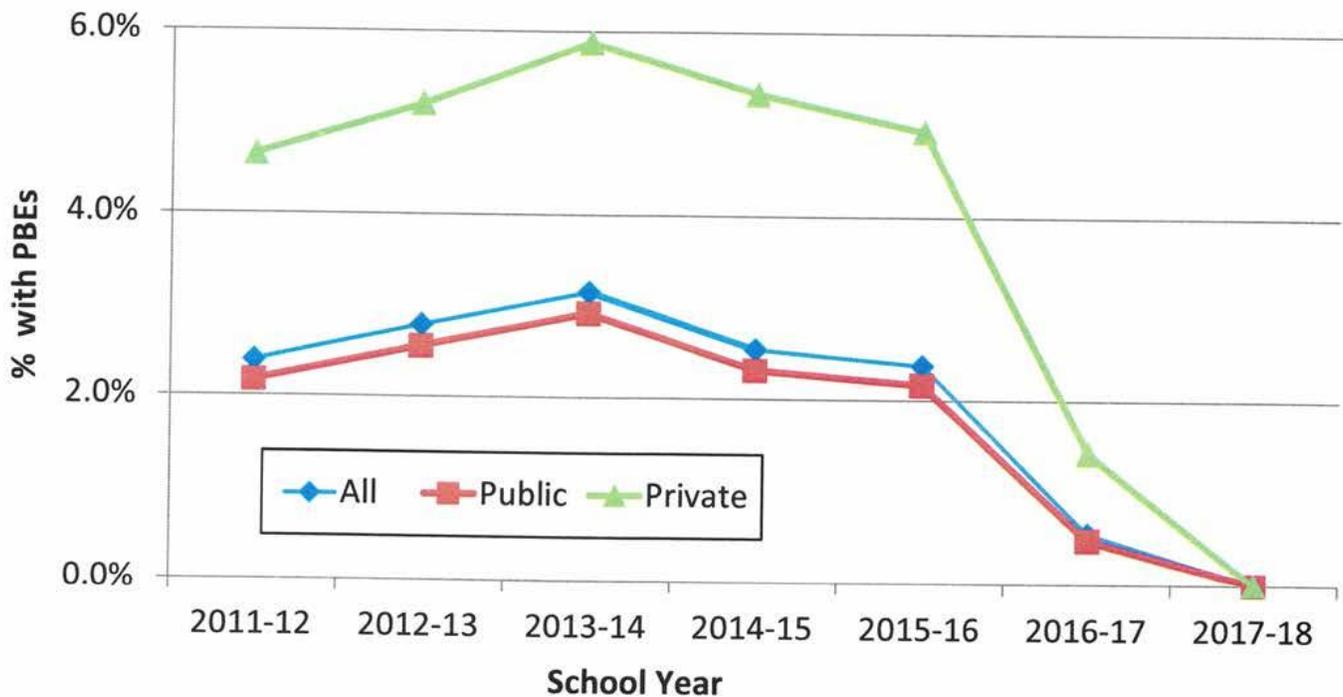


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2011-2012 to 2017-2018

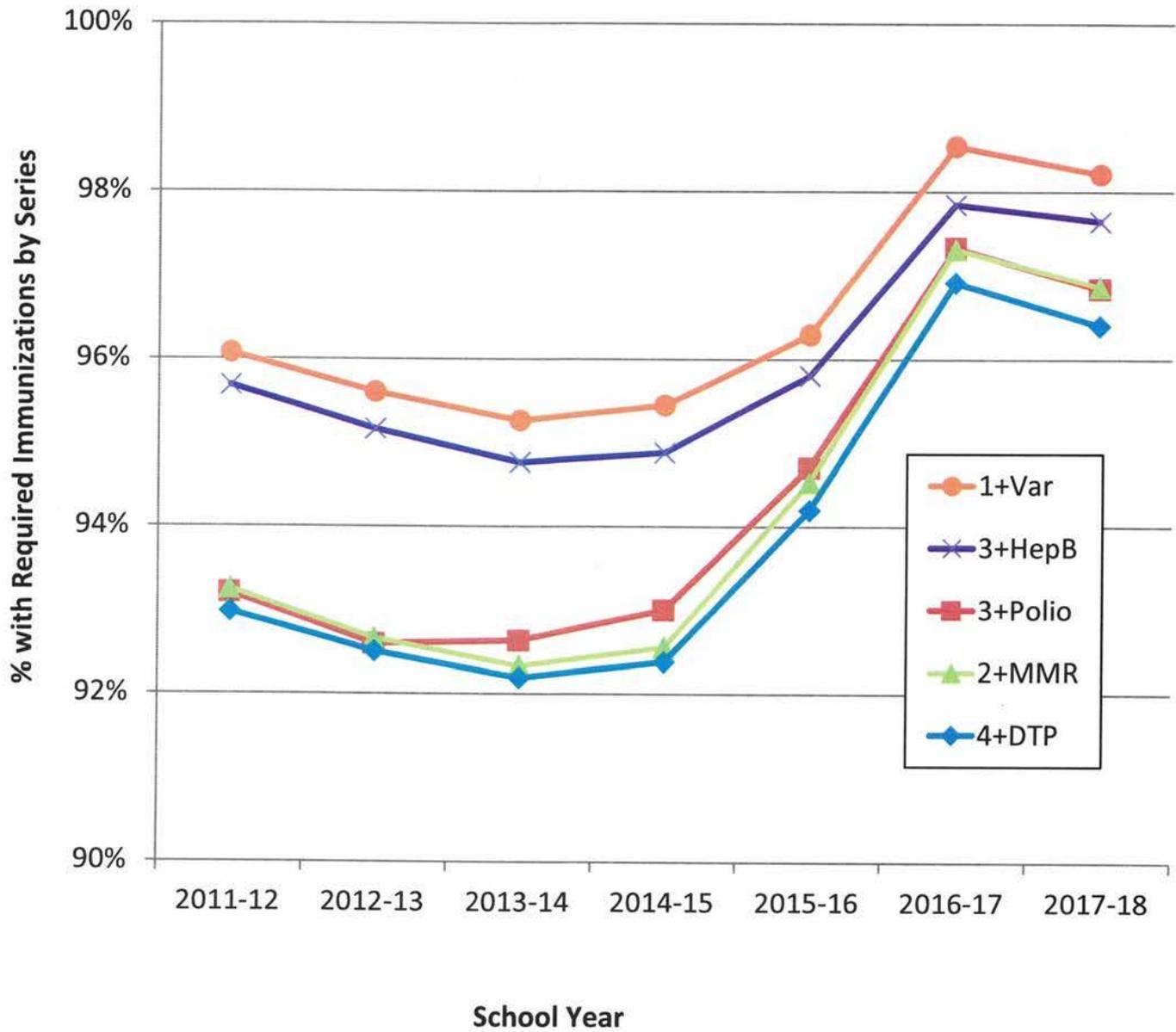
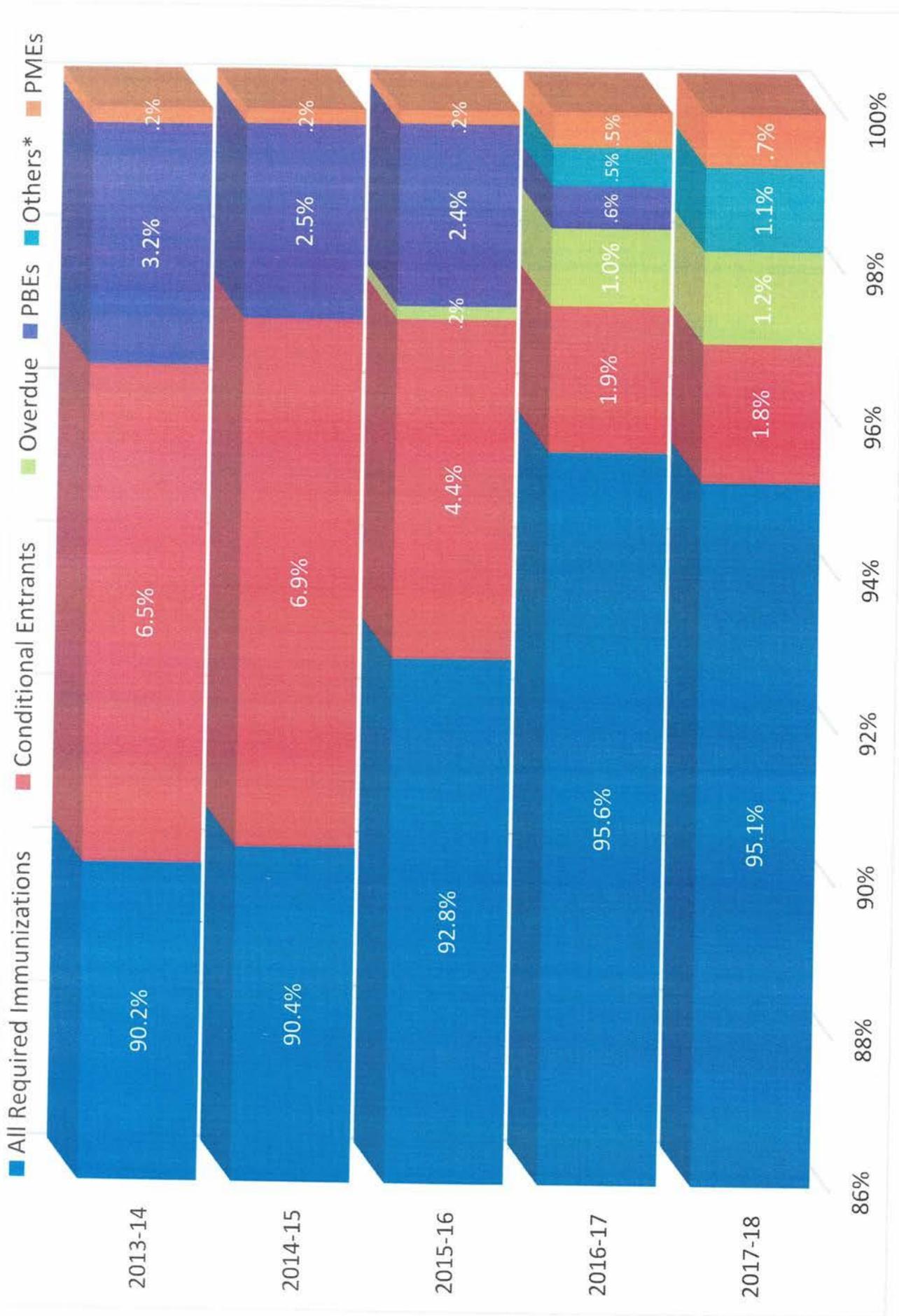
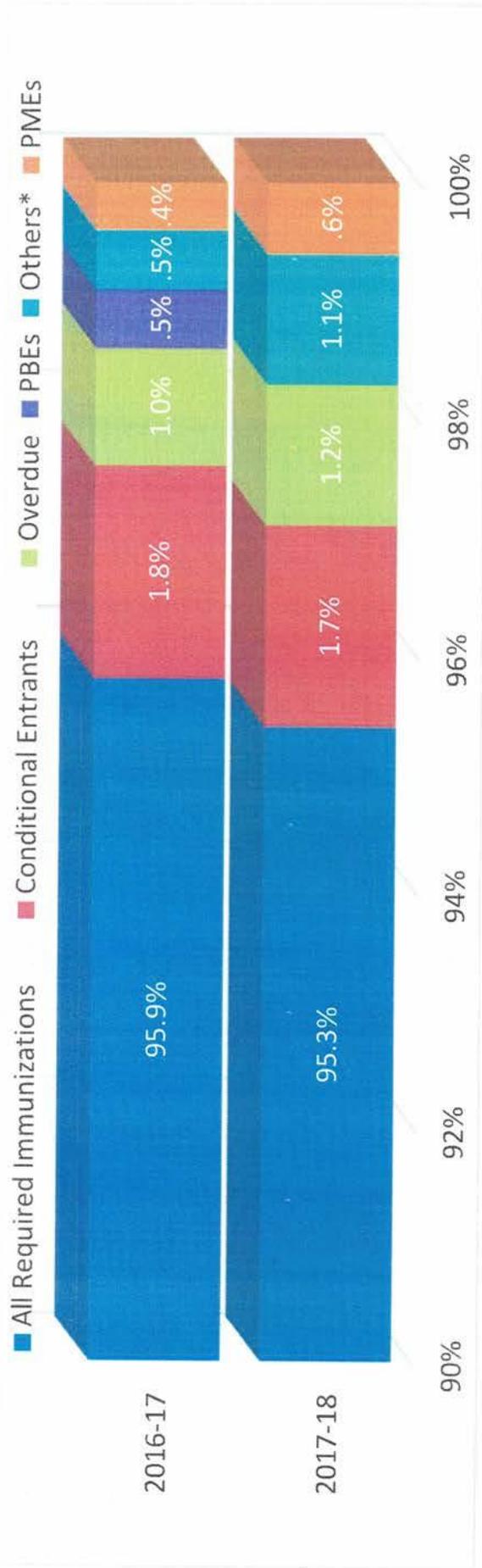


Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2011-2012 to 2017-2018

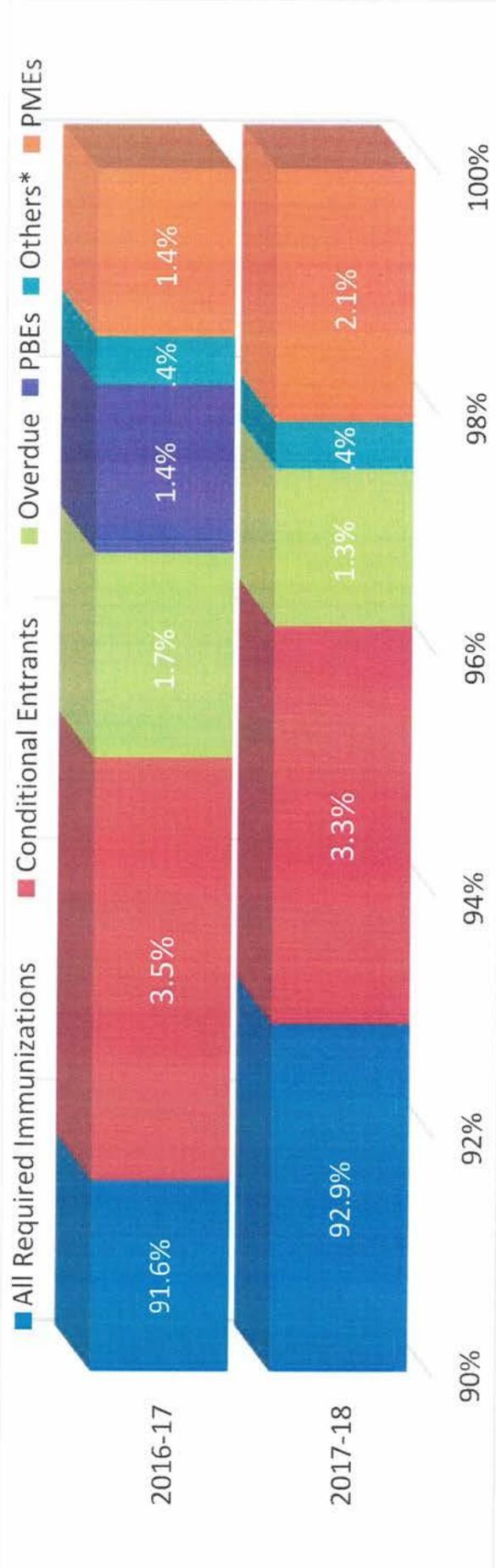


\*Other children lacking required immunizations under criteria specified in SB 277.

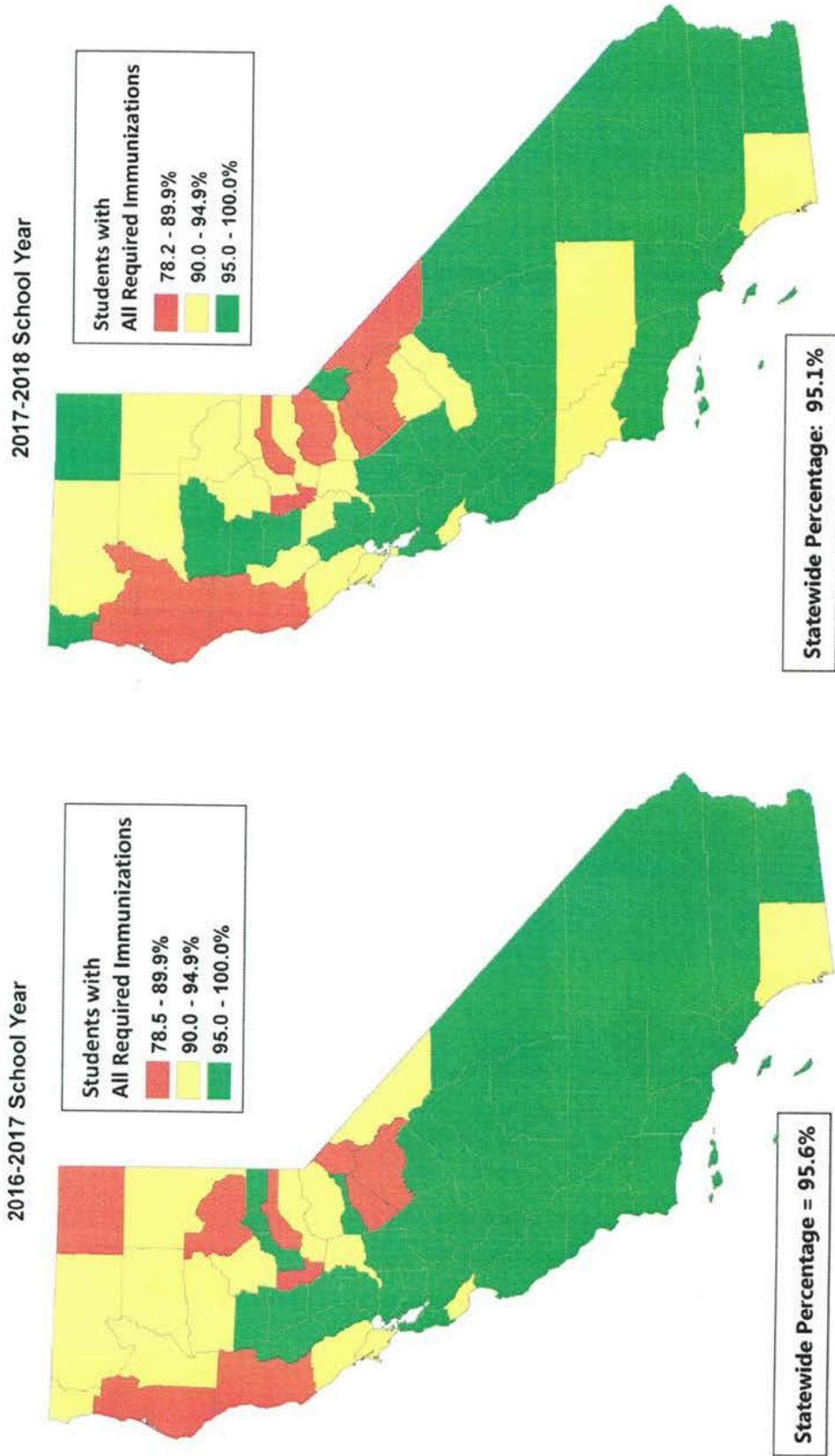
**Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2014-2015 to 2017-2018.** In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. Since the 2016-2017 school year, entrants have been subject to SB 277.



**Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2016-2017 and 2017-2018**



**Figure 8. Percentage of Private School Kindergarten Students by Reported Admission Status by School Year, 2016-2017 and 2017-2018**



**Figure 9. Kindergarten Students with All Required Immunizations, by County, 2016-2017 and 2017-2018 School Years**  
See pages 3 and 4 for additional information.

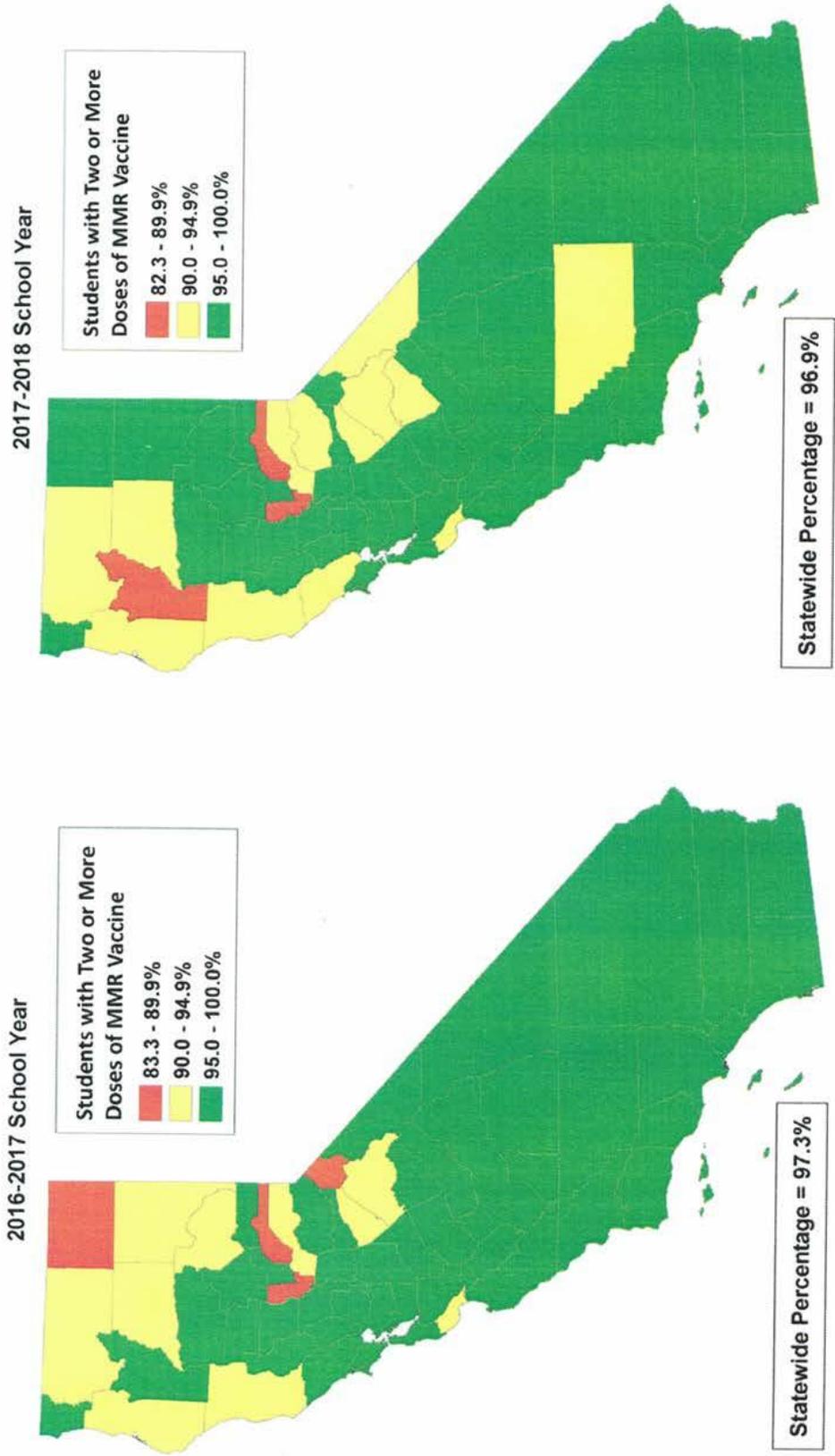


Figure 10. Kindergarten Students with Two or More Doses of MMR Vaccine, by County, 2016-2017 and 2017-2018 School Years

**Table 1: Kindergarten Immunization Assessment Summary, 2016-2017 and 2017-2018 School Years**

	2017-2018			2016-2017			1-Year Percentage Point Change*		
	All	Public	Private	All	Public	Private	All	Public	Private
	Number of Schools Reporting Kindergarten Students	7,957	6,074	1,883	7,820	5,967	1,853		
Number of Kindergarten Students	564,121	522,082	42,039	562,924	520,626	42,298			
All Required Immunizations	95.1%	95.3%	92.9%	95.6%	95.9%	91.6%	-0.4%	-0.6%	1.3%
Conditional Entrants	1.8%	1.7%	3.3%	1.9%	1.8%	3.5%	-0.1%	-0.1%	-0.2%
Permanent Medical Exemptions	0.7%	0.6%	2.1%	0.5%	0.4%	1.4%	0.2%	0.2%	0.7%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.6%	0.5%	1.4%	-0.6%	-0.5%	-1.4%
Others Lacking immunizations†	1.1%	1.1%	0.4%	0.5%	0.5%	0.4%	0.6%	0.7%	0.0%
Overdue^	1.2%	1.2%	1.3%	1.0%	1.0%	1.7%	0.2%	0.3%	-0.4%
4+ DTP	96.4%	96.5%	95.0%	96.9%	97.1%	94.3%	-0.5%	-0.6%	0.8%
3+ Polio	96.8%	97.0%	95.0%	97.3%	97.6%	94.1%	-0.5%	-0.6%	0.8%
2+ MMR	96.9%	97.0%	95.0%	97.3%	97.6%	94.4%	-0.4%	-0.5%	0.6%
3+ Hep B	97.6%	97.8%	96.2%	97.8%	98.0%	95.4%	-0.2%	-0.3%	0.8%
1+ Var (or physician-documented disease)	98.2%	98.3%	96.7%	98.5%	98.7%	96.1%	-0.3%	-0.4%	0.5%

\* 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.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING IN 2017-2018,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,195	7,957	97.1%	6,120	6,074	99.2%	2,075	1,883	90.7%
COUNTY									
ALAMEDA	328	319	97.3%	227	225	99.1%	101	94	93.1%
ALPINE	1	1	100.0%	1	1	100.0%	0	0	0.0%
AMADOR	8	8	100.0%	7	7	100.0%	1	1	100.0%
BUTTE	59	59	100.0%	48	48	100.0%	11	11	100.0%
CALAVERAS	15	11	73.3%	12	11	91.7%	3	0	0.0%
COLUSA	7	7	100.0%	6	6	100.0%	1	1	100.0%
CONTRA COSTA	223	223	100.0%	164	164	100.0%	59	59	100.0%
DEL NORTE	11	11	100.0%	10	10	100.0%	1	1	100.0%
EL DORADO	43	43	100.0%	38	38	100.0%	5	5	100.0%
FRESNO	226	226	100.0%	202	202	100.0%	24	24	100.0%
GLENN	14	14	100.0%	11	11	100.0%	3	3	100.0%
HUMBOLDT	59	59	100.0%	52	52	100.0%	7	7	100.0%
IMPERIAL	47	47	100.0%	40	40	100.0%	7	7	100.0%
INYO	7	6	85.7%	6	6	100.0%	1	0	0.0%
KERN	184	183	99.5%	159	159	100.0%	25	24	96.0%
KINGS	38	38	100.0%	32	32	100.0%	6	6	100.0%
LAKE	17	17	100.0%	15	15	100.0%	2	2	100.0%
LASSEN	14	13	92.9%	14	13	92.9%	0	0	0.0%
LOS ANGELES	1,993	1,841	92.4%	1,347	1,322	98.1%	646	519	80.3%
MADERA	44	39	88.6%	40	36	90.0%	4	3	75.0%
MARIN	73	73	100.0%	47	47	100.0%	26	26	100.0%
MARIPOSA	10	8	80.0%	8	8	100.0%	2	0	0.0%
MENDOCINO	34	33	97.1%	29	28	96.6%	5	5	100.0%
MERCED	63	62	98.4%	53	53	100.0%	10	9	90.0%
MODOC	5	5	100.0%	4	4	100.0%	1	1	100.0%
MONO	6	6	100.0%	5	5	100.0%	1	1	100.0%
MONTEREY	95	95	100.0%	81	81	100.0%	14	14	100.0%
NAPA	39	39	100.0%	23	23	100.0%	16	16	100.0%
NEVADA	26	26	100.0%	22	22	100.0%	4	4	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING IN 2017-2018,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,195	7,957	97.1%	6,120	6,074	99.2%	2,075	1,883	90.7%
COUNTY									
ORANGE	601	601	100.0%	405	405	100.0%	196	196	100.0%
PLACER	95	95	100.0%	81	81	100.0%	14	14	100.0%
PLUMAS	9	7	77.8%	6	5	83.3%	3	2	66.7%
RIVERSIDE	400	383	95.8%	301	300	99.7%	99	83	83.8%
SACRAMENTO	303	301	99.3%	242	242	100.0%	61	59	96.7%
SAN BENITO	21	21	100.0%	16	16	100.0%	5	5	100.0%
SAN BERNARDINO	428	428	100.0%	352	352	100.0%	76	76	100.0%
SAN DIEGO	618	618	100.0%	480	480	100.0%	138	138	100.0%
SAN FRANCISCO	152	150	98.7%	77	77	100.0%	75	73	97.3%
SAN JOAQUIN	186	186	100.0%	162	162	100.0%	24	24	100.0%
SAN LUIS OBISPO	62	60	96.8%	47	47	100.0%	15	13	86.7%
SAN MATEO	164	164	100.0%	112	112	100.0%	52	52	100.0%
SANTA BARBARA	104	101	97.1%	80	80	100.0%	24	21	87.5%
SANTA CLARA	388	388	100.0%	263	263	100.0%	125	125	100.0%
SANTA CRUZ	64	63	98.4%	45	45	100.0%	19	18	94.7%
SHASTA	67	63	94.0%	53	52	98.1%	14	11	78.6%
SIERRA	3	3	100.0%	3	3	100.0%	0	0	0.0%
SISKIYOU	26	26	100.0%	24	24	100.0%	2	2	100.0%
SOLANO	83	73	88.0%	62	61	98.4%	21	12	57.1%
SONOMA	131	131	100.0%	110	110	100.0%	21	21	100.0%
STANISLAUS	132	122	92.4%	115	109	94.8%	17	13	76.5%
SUTTER	34	33	97.1%	31	31	100.0%	3	2	66.7%
TEHAMA	26	25	96.2%	23	23	100.0%	3	2	66.7%
TRINITY	8	8	100.0%	8	8	100.0%	0	0	0.0%
TULARE	126	121	96.0%	113	111	98.2%	13	10	76.9%
TUOLUMNE	17	17	100.0%	12	12	100.0%	5	5	100.0%
VENTURA	187	186	99.5%	135	135	100.0%	52	51	98.1%
YOLO	46	46	100.0%	35	35	100.0%	11	11	100.0%
YUBA	25	25	100.0%	24	24	100.0%	1	1	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS IN 2017-2018,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS <sup>†</sup>		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	95.1%	536,642	95.1%	10,371	1.8%	4,111	0.7%	5	0.0%	6,072	1.1%	6,920	1.2%
COUNTY	22,307	97.1%	21,671	97.1%	259	1.2%	97	0.4%	0	0.0%	35	0.2%	245	1.1%
ALAMEDA	6	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
ALPINE	376	91.8%	345	91.8%	17	4.5%	6	1.6%	0	0.0%	4	1.1%	4	1.1%
AMADOR	2,899	94.5%	2,739	94.5%	72	2.5%	30	1.0%	0	0.0%	49	1.7%	9	0.3%
BUTTE	464	88.1%	409	88.1%	26	5.6%	13	2.8%	0	0.0%	15	3.2%	1	0.2%
CALAVERAS	414	98.6%	408	98.6%	4	1.0%	0	0.0%	0	0.0%	0	0.0%	2	0.5%
COLUSA	15,292	96.3%	14,728	96.3%	297	1.9%	73	0.5%	0	0.0%	42	0.3%	152	1.0%
CONTRA COSTA	368	97.8%	360	97.8%	6	1.6%	1	0.3%	0	0.0%	1	0.3%	0	0.0%
DEL NORTE	2,360	89.6%	2,114	89.6%	85	3.6%	47	2.0%	0	0.0%	113	4.8%	1	0.0%
EL DORADO	18,573	96.1%	17,845	96.1%	254	1.4%	44	0.2%	0	0.0%	178	1.0%	252	1.4%
FRESNO	510	98.4%	502	98.4%	3	0.6%	2	0.4%	0	0.0%	0	0.0%	3	0.6%
HUMBOLDT	1,762	88.4%	1,557	88.4%	53	3.0%	86	4.9%	0	0.0%	52	3.0%	14	0.8%
IMPERIAL	3,362	97.8%	3,287	97.8%	24	0.7%	6	0.2%	0	0.0%	8	0.2%	37	1.1%
INYO	221	98.2%	217	98.2%	2	0.9%	1	0.5%	0	0.0%	0	0.0%	1	0.5%
KERN	17,580	92.5%	16,267	92.5%	338	1.9%	69	0.4%	0	0.0%	77	0.4%	829	4.7%
KINGS	2,678	97.7%	2,616	97.7%	48	1.8%	3	0.1%	0	0.0%	0	0.0%	11	0.4%
LAKE	850	93.9%	798	93.9%	33	3.9%	10	1.2%	0	0.0%	6	0.7%	3	0.4%
LASSEN	326	94.8%	309	94.8%	12	3.7%	4	1.2%	0	0.0%	1	0.3%	0	0.0%
LOS ANGELES	140,822	95.0%	133,718	95.0%	2,390	1.7%	709	0.5%	2	0.0%	1,601	1.1%	2,402	1.7%
MADERA	2,778	94.6%	2,629	94.6%	42	1.5%	12	0.4%	0	0.0%	34	1.2%	61	2.2%
MARIN	3,259	94.0%	3,064	94.0%	109	3.3%	68	2.1%	0	0.0%	4	0.1%	14	0.4%
MARIPOSA	150	90.0%	135	90.0%	7	4.7%	2	1.3%	0	0.0%	3	2.0%	3	2.0%
MENDOCINO	1,305	86.8%	1,133	86.8%	52	4.0%	32	2.5%	0	0.0%	7	0.5%	81	6.2%
MERCED	5,421	96.6%	5,239	96.6%	84	1.5%	15	0.3%	0	0.0%	33	0.6%	50	0.9%
MODOC	115	98.3%	113	98.3%	1	0.9%	1	0.9%	0	0.0%	0	0.0%	0	0.0%
MONO	166	89.8%	149	89.8%	9	5.4%	7	4.2%	0	0.0%	0	0.0%	1	0.6%
MONTEREY	7,161	96.9%	6,939	96.9%	108	1.5%	50	0.7%	0	0.0%	7	0.1%	57	0.8%
NAPA	1,768	95.0%	1,680	95.0%	42	2.4%	31	1.8%	0	0.0%	6	0.3%	9	0.5%
NEVADA	913	81.7%	746	81.7%	39	4.3%	70	7.7%	0	0.0%	55	6.0%	3	0.3%

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

<sup>^</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS IN 2017-2018,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONST		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	95.1%	10,371	1.8%	4,111	0.7%	5	0.0%	6,072	1.1%	6,920	1.2%	6,920	1.2%
COUNTY														
ORANGE	42,375	95.7%	948	2.2%	384	0.9%	0	0.0%	235	0.6%	271	0.6%	271	0.6%
PLACER	6,296	92.3%	220	3.5%	127	2.0%	0	0.0%	89	1.4%	46	0.7%	46	0.7%
PLUMAS	193	91.2%	4	2.1%	9	4.7%	0	0.0%	3	1.6%	1	0.5%	1	0.5%
RIVERSIDE	35,453	96.5%	569	1.6%	208	0.6%	0	0.0%	146	0.4%	324	0.9%	324	0.9%
SACRAMENTO	21,508	93.5%	631	2.9%	235	1.1%	0	0.0%	343	1.6%	198	0.9%	198	0.9%
SAN BENITO	1,019	98.3%	9	0.9%	8	0.8%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN BERNARDINO	33,825	96.5%	560	1.7%	91	0.3%	0	0.0%	311	0.9%	225	0.7%	225	0.7%
SAN DIEGO	47,174	93.2%	899	1.9%	576	1.2%	0	0.0%	1,401	3.0%	331	0.7%	331	0.7%
SAN FRANCISCO	6,701	94.9%	119	1.8%	48	0.7%	0	0.0%	106	0.8%	178	2.7%	178	2.7%
SAN JOAQUIN	12,582	96.3%	179	1.4%	41	0.3%	0	0.0%	18	0.0%	138	1.1%	138	1.1%
SAN LUIS OBISPO	3,074	94.8%	78	2.5%	46	1.5%	0	0.0%	18	0.6%	19	0.6%	19	0.6%
SAN MATEO	9,361	96.9%	116	1.2%	44	0.5%	0	0.0%	8	0.1%	120	1.3%	120	1.3%
SANTA BARBARA	6,632	96.5%	101	1.5%	64	1.0%	2	0.0%	44	0.7%	19	0.3%	19	0.3%
SANTA CLARA	26,410	96.7%	322	1.2%	129	0.5%	0	0.0%	33	0.1%	397	1.5%	397	1.5%
SANTA CRUZ	3,565	90.4%	79	2.2%	95	2.7%	0	0.0%	145	4.1%	23	0.6%	23	0.6%
SHASTA	2,526	90.1%	130	5.1%	46	1.8%	0	0.0%	67	2.7%	7	0.3%	7	0.3%
SIERRA	39	94.9%	1	2.6%	1	2.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	564	90.2%	19	3.4%	6	1.1%	0	0.0%	22	3.9%	8	1.4%	8	1.4%
SOLANO	5,534	97.6%	92	1.7%	17	0.3%	0	0.0%	7	0.1%	18	0.3%	18	0.3%
SONOMA	6,645	91.8%	171	2.6%	181	2.7%	1	0.0%	117	1.8%	78	1.2%	78	1.2%
STANISLAUS	8,858	96.0%	182	2.1%	64	0.7%	0	0.0%	29	0.3%	80	0.9%	80	0.9%
SUTTER	2,152	78.2%	20	0.9%	11	0.5%	0	0.0%	426	19.8%	13	0.6%	13	0.6%
TEHAMA	1,033	95.7%	25	2.4%	7	0.7%	0	0.0%	8	0.8%	4	0.4%	4	0.4%
TRINITY	71	84.5%	3	4.2%	5	7.0%	0	0.0%	2	2.8%	1	1.4%	1	1.4%
TULARE	9,450	98.3%	84	0.9%	21	0.2%	0	0.0%	39	0.4%	20	0.2%	20	0.2%
TUOLUMNE	620	86.5%	41	6.6%	7	1.1%	0	0.0%	15	2.4%	21	3.4%	21	3.4%
VENTURA	12,056	95.9%	206	1.7%	120	1.0%	0	0.0%	101	0.8%	72	0.6%	72	0.6%
YOLO	2,779	94.5%	111	4.0%	29	1.0%	0	0.0%	2	0.1%	11	0.4%	11	0.4%
YUBA	1,420	92.0%	36	2.5%	2	0.1%	0	0.0%	24	1.7%	52	3.7%	52	3.7%

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE <sup>^</sup>	
			NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%						
COUNTY	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	1.0%							
ALAMEDA	2017-18	22,307	97.1%	1.2%	0.4%	0.0%	1.1%							
	2016-17	21,910	97.2%	1.3%	0.3%	0.1%	1.0%							
ALPINE	2017-18	6	--*	--*	--*	--*	--*							
	2016-17	6	--*	--*	--*	--*	--*							
AMADOR	2017-18	376	91.8%	4.5%	1.6%	0.0%	1.1%							
	2016-17	290	96.2%	2.8%	0.0%	0.7%	0.0%							
BUTTE	2017-18	2,899	94.5%	2.5%	1.0%	0.0%	0.3%							
	2016-17	2,814	94.1%	2.2%	1.0%	0.6%	0.0%							
CALAVERAS	2017-18	464	88.1%	5.6%	2.8%	0.0%	3.2%							
	2016-17	462	89.6%	5.0%	0.6%	1.7%	0.0%							
COLUSA	2017-18	414	98.6%	1.0%	0.0%	0.0%	0.5%							
	2016-17	411	97.1%	1.0%	0.2%	0.0%	1.7%							
CONTRA COSTA	2017-18	15,292	96.3%	1.9%	0.5%	0.0%	1.0%							
	2016-17	15,434	97.0%	1.4%	0.4%	0.4%	0.5%							
DEL NORTE	2017-18	368	97.8%	1.6%	0.3%	0.0%	0.0%							
	2016-17	401	92.8%	3.2%	0.2%	0.0%	0.0%							
EL DORADO	2017-18	2,360	89.6%	3.6%	2.0%	0.0%	0.0%							
	2016-17	2,205	93.9%	3.3%	1.4%	1.1%	0.1%							
FRESNO	2017-18	18,573	96.1%	1.4%	0.2%	0.0%	1.4%							
	2016-17	18,779	97.1%	1.6%	0.2%	0.2%	0.7%							
GLENN	2017-18	510	98.4%	0.6%	0.4%	0.0%	0.6%							
	2016-17	481	97.3%	1.7%	0.2%	0.4%	0.4%							
HUMBOLDT	2017-18	1,762	88.4%	3.0%	4.9%	0.0%	0.8%							
	2016-17	1,799	86.7%	6.1%	0.9%	1.7%	0.8%							
IMPERIAL	2017-18	3,362	97.8%	0.7%	0.2%	0.0%	1.1%							
	2016-17	3,254	97.4%	1.0%	0.2%	0.1%	1.3%							
INYO	2017-18	221	98.2%	0.9%	0.5%	0.0%	0.5%							
	2016-17	212	95.3%	2.4%	0.9%	0.0%	1.4%							
KERN	2017-18	17,580	92.5%	1.9%	0.4%	0.0%	4.7%							
	2016-17	16,497	95.1%	2.6%	0.2%	1.4%	0.7%							

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

<sup>^</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONST		OVERDUE^	
			NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%						
COUNTY	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%						
KINGS	2017-18	2,678	97.7%	1.8%	0.1%	0.0%	0.0%	0.4%						
	2016-17	2,731	97.6%	1.8%	0.2%	0.1%	0.0%	0.3%						
LAKE	2017-18	850	93.9%	3.9%	1.2%	0.0%	0.7%	0.4%						
	2016-17	840	96.4%	2.1%	0.7%	0.0%	0.5%	0.2%						
LASSEN	2017-18	326	94.8%	3.7%	1.2%	0.0%	0.3%	0.0%						
	2016-17	357	90.8%	2.0%	1.4%	1.1%	4.8%	0.0%						
LOS ANGELES	2017-18	140,822	95.0%	1.7%	0.5%	0.0%	1.1%	1.7%						
	2016-17	140,269	95.0%	2.0%	0.4%	0.5%	0.2%	1.9%						
MADERA	2017-18	2,778	94.6%	1.5%	0.4%	0.0%	1.2%	2.2%						
	2016-17	2,835	96.0%	1.4%	0.2%	0.1%	0.8%	1.4%						
MARIN	2017-18	3,259	94.0%	3.3%	2.1%	0.0%	0.1%	0.4%						
	2016-17	3,245	93.2%	3.1%	2.1%	1.2%	0.0%	0.5%						
MARIPOSA	2017-18	150	90.0%	4.7%	1.3%	0.0%	2.0%	2.0%						
	2016-17	19	--*	--*	--*	--*	--*	--*						
MENDOCINO	2017-18	1,305	86.8%	4.0%	2.5%	0.0%	0.5%	6.2%						
	2016-17	1,195	88.7%	8.5%	0.6%	1.1%	0.4%	0.7%						
MERCED	2017-18	5,421	96.6%	1.5%	0.3%	0.0%	0.6%	0.9%						
	2016-17	5,618	97.7%	1.5%	0.1%	0.0%	0.3%	0.4%						
MODOC	2017-18	115	98.3%	0.9%	0.9%	0.0%	0.0%	0.0%						
	2016-17	130	78.5%	21.5%	0.0%	0.0%	0.0%	0.0%						
MONO	2017-18	166	89.8%	5.4%	4.2%	0.0%	0.0%	0.6%						
	2016-17	139	93.5%	4.3%	1.4%	0.7%	0.0%	0.0%						
MONTEREY	2017-18	7,161	96.9%	1.5%	0.7%	0.0%	0.1%	0.8%						
	2016-17	7,221	97.5%	1.2%	0.5%	0.2%	0.1%	0.5%						
NAPA	2017-18	1,768	95.0%	2.4%	1.8%	0.0%	0.3%	0.5%						
	2016-17	1,702	96.2%	1.4%	1.1%	0.6%	0.7%	0.0%						
NEVADA	2017-18	913	81.7%	4.3%	7.7%	0.0%	6.0%	0.3%						
	2016-17	944	80.9%	4.7%	3.6%	7.0%	3.7%	0.1%						
ORANGE	2017-18	42,375	95.7%	2.2%	0.9%	0.0%	0.6%	0.6%						
	2016-17	42,389	95.5%	2.0%	0.8%	0.6%	0.4%	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 one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
			NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%						
COUNTY	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%						
PLACER	2017-18	6,296	92.3%	3.5%	2.0%	0.0%	1.4%	0.7%						
	2016-17	5,847	92.4%	3.4%	1.1%	1.2%	0.5%	1.4%						
PLUMAS	2017-18	193	91.2%	2.1%	4.7%	0.0%	1.6%	0.5%						
	2016-17	166	89.8%	6.0%	3.0%	0.6%	0.6%	0.0%						
RIVERSIDE	2017-18	35,453	96.5%	1.6%	0.6%	0.0%	0.4%	0.9%						
	2016-17	36,132	96.3%	1.6%	0.4%	0.3%	0.4%	1.0%						
SACRAMENTO	2017-18	21,508	93.5%	2.9%	1.1%	0.0%	1.6%	0.9%						
	2016-17	21,993	94.0%	3.0%	0.6%	0.6%	1.2%	0.6%						
SAN BENITO	2017-18	1,019	98.3%	0.9%	0.8%	0.0%	0.0%	0.0%						
	2016-17	967	98.1%	0.9%	0.3%	0.0%	0.0%	0.6%						
SAN BERNARDINO	2017-18	33,825	96.5%	1.7%	0.3%	0.0%	0.9%	0.7%						
	2016-17	34,471	96.1%	1.9%	0.3%	0.2%	0.5%	1.0%						
SAN DIEGO	2017-18	47,174	93.2%	1.9%	1.2%	0.0%	3.0%	0.7%						
	2016-17	46,044	94.7%	1.7%	0.9%	1.4%	0.7%	0.5%						
SAN FRANCISCO	2017-18	6,701	94.9%	1.8%	0.7%	0.0%	0.0%	2.7%						
	2016-17	6,742	95.6%	1.8%	0.5%	0.3%	0.0%	1.8%						
SAN JOAQUIN	2017-18	12,582	96.3%	1.4%	0.3%	0.0%	0.8%	1.1%						
	2016-17	12,572	97.3%	1.4%	0.3%	0.2%	0.5%	0.3%						
SAN LUIS OBISPO	2017-18	3,074	94.8%	2.5%	1.5%	0.0%	0.6%	0.6%						
	2016-17	3,154	95.6%	2.5%	0.6%	0.4%	0.6%	0.3%						
SAN MATEO	2017-18	9,361	96.9%	1.2%	0.5%	0.0%	0.1%	1.3%						
	2016-17	9,608	96.5%	1.8%	0.4%	0.2%	0.0%	1.1%						
SANTA BARBARA	2017-18	6,632	96.5%	1.5%	1.0%	0.0%	0.7%	0.3%						
	2016-17	6,674	96.4%	1.8%	0.6%	0.7%	0.4%	0.0%						
SANTA CLARA	2017-18	26,410	96.7%	1.2%	0.5%	0.0%	0.1%	1.5%						
	2016-17	26,070	97.1%	1.3%	0.4%	0.3%	0.1%	0.8%						
SANTA CRUZ	2017-18	3,565	90.4%	2.2%	2.7%	0.0%	4.1%	0.6%						
	2016-17	3,681	90.7%	2.7%	1.4%	1.2%	3.6%	0.4%						
SHASTA	2017-18	2,526	90.1%	5.1%	1.8%	0.0%	2.7%	0.3%						
	2016-17	2,386	92.2%	3.3%	1.2%	1.4%	1.2%	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 one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2017-2018 AND 2016-2017,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		STUDENTS WITH PBE		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE <sup>^</sup>	
			NUMBER	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2017-18	564,121	95.1%	1.8%	0.7%	0.0%	1.1%	1.2%						
COUNTY	2016-17	562,924	95.6%	1.9%	0.5%	0.6%	0.5%	1.0%						
SIERRA	2017-18	39	94.9%	2.6%	2.6%	0.0%	0.0%	0.0%						
	2016-17	23	95.7%	4.3%	0.0%	0.0%	0.0%	0.0%						
SISKIYOU	2017-18	564	90.2%	3.4%	1.1%	0.0%	3.9%	1.4%						
	2016-17	520	92.5%	2.1%	1.3%	1.0%	2.9%	0.2%						
SOLANO	2017-18	5,534	97.6%	1.7%	0.3%	0.0%	0.1%	0.3%						
	2016-17	5,919	96.7%	1.7%	0.3%	0.3%	0.2%	0.8%						
SONOMA	2017-18	6,645	91.8%	2.6%	2.7%	0.0%	1.8%	1.2%						
	2016-17	6,669	93.4%	2.7%	1.6%	1.4%	0.3%	0.6%						
STANISLAUS	2017-18	8,858	96.0%	2.1%	0.7%	0.0%	0.3%	0.9%						
	2016-17	9,166	96.5%	2.0%	0.4%	0.4%	0.1%	0.5%						
SUTTER	2017-18	2,152	78.2%	0.9%	0.5%	0.0%	19.8%	0.6%						
	2016-17	1,995	85.3%	0.9%	0.4%	0.9%	12.3%	0.3%						
TEHAMA	2017-18	1,033	95.7%	2.4%	0.7%	0.0%	0.8%	0.4%						
	2016-17	1,024	93.4%	4.8%	0.8%	0.5%	0.6%	0.0%						
TRINITY	2017-18	71	84.5%	4.2%	7.0%	0.0%	2.8%	1.4%						
	2016-17	144	91.0%	6.9%	0.0%	0.0%	0.7%	1.4%						
TULARE	2017-18	9,450	98.3%	0.9%	0.2%	0.0%	0.4%	0.2%						
	2016-17	9,243	98.5%	0.9%	0.1%	0.1%	0.3%	0.2%						
TUOLUMNE	2017-18	620	86.5%	6.6%	1.1%	0.0%	2.4%	3.4%						
	2016-17	570	88.8%	3.5%	1.9%	3.0%	1.1%	1.8%						
VENTURA	2017-18	12,056	95.9%	1.7%	1.0%	0.0%	0.8%	0.6%						
	2016-17	12,247	96.1%	1.5%	0.6%	0.6%	0.7%	0.4%						
YOLO	2017-18	2,779	94.5%	4.0%	1.0%	0.0%	0.1%	0.4%						
	2016-17	2,830	96.6%	2.0%	0.3%	0.6%	0.2%	0.2%						
YUBA	2017-18	1,420	92.0%	2.5%	0.1%	0.0%	1.7%	3.7%						
	2016-17	1,478	96.1%	2.0%	0.1%	0.1%	0.7%	0.9%						

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
<sup>^</sup> Overdue for one or more immunizations.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	564,121	536,642	95.1%	562,924	537,991	95.6%	-0.4%	-1,349
COUNTY								
ALAMEDA	22,307	21,671	97.1%	21,910	21,302	97.2%	-0.1%	369
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	345	91.8%	290	279	96.2%	-4.5%	66
BUTTE	2,899	2,739	94.5%	2,814	2,648	94.1%	0.4%	91
CALAVERAS	464	409	88.1%	462	414	89.6%	-1.5%	-5
COLUSA	414	408	98.6%	411	399	97.1%	1.5%	9
CONTRA COSTA	15,292	14,728	96.3%	15,434	14,976	97.0%	-0.7%	-248
DEL NORTE	368	360	97.8%	401	372	92.8%	5.1%	-12
EL DORADO	2,360	2,114	89.6%	2,205	2,071	93.9%	-4.3%	43
FRESNO	18,573	17,845	96.1%	18,779	18,241	97.1%	-1.1%	-396
GLENN	510	502	98.4%	481	468	97.3%	1.1%	34
HUMBOLDT	1,762	1,557	88.4%	1,799	1,560	86.7%	1.7%	-3
IMPERIAL	3,362	3,287	97.8%	3,254	3,169	97.4%	0.4%	118
INYO	221	217	98.2%	212	202	95.3%	2.9%	15
KERN	17,580	16,267	92.5%	16,497	15,687	95.1%	-2.6%	580
KINGS	2,678	2,616	97.7%	2,731	2,665	97.6%	0.1%	-49
LAKE	850	798	93.9%	840	810	96.4%	-2.5%	-12
LASSEN	326	309	94.8%	357	324	90.8%	4.0%	-15
LOS ANGELES	140,822	133,718	95.0%	140,269	133,310	95.0%	-0.1%	408
MADERA	2,778	2,629	94.6%	2,835	2,723	96.0%	-1.4%	-94
MARIN	3,259	3,064	94.0%	3,245	3,023	93.2%	0.9%	41
MARIPOSA	150	135	90.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	1,133	86.8%	1,195	1,060	88.7%	-1.9%	73
MERCED	5,421	5,239	96.6%	5,618	5,486	97.7%	-1.0%	-247
MODOC	115	113	98.3%	130	102	78.5%	19.8%	11
MONO	166	149	89.8%	139	130	93.5%	-3.8%	19
MONTEREY	7,161	6,939	96.9%	7,221	7,039	97.5%	-0.6%	-100
NAPA	1,768	1,680	95.0%	1,702	1,637	96.2%	-1.2%	43
NEVADA	913	746	81.7%	944	764	80.9%	0.8%	-18

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	564,121	536,642	95.1%	562,924	537,991	95.6%	-0.4%	-1,349
COUNTY								
ORANGE	42,375	40,537	95.7%	42,389	40,490	95.5%	0.1%	47
PLACER	6,296	5,814	92.3%	5,847	5,402	92.4%	0.0%	412
PLUMAS	193	176	91.2%	166	149	89.8%	1.4%	27
RIVERSIDE	35,453	34,206	96.5%	36,132	34,809	96.3%	0.1%	-603
SACRAMENTO	21,508	20,101	93.5%	21,993	20,684	94.0%	-0.6%	-583
SAN BENITO	1,019	1,002	98.3%	967	949	98.1%	0.2%	53
SAN BERNARDINO	33,825	32,638	96.5%	34,471	33,135	96.1%	0.4%	-497
SAN DIEGO	47,174	43,967	93.2%	46,044	43,613	94.7%	-1.5%	354
SAN FRANCISCO	6,701	6,356	94.9%	6,742	6,445	95.6%	-0.7%	-89
SAN JOAQUIN	12,582	12,118	96.3%	12,572	12,232	97.3%	-1.0%	-114
SAN LUIS OBISPO	3,074	2,913	94.8%	3,154	3,015	95.6%	-0.8%	-102
SAN MATEO	9,361	9,073	96.9%	9,608	9,275	96.5%	0.4%	-202
SANTA BARBARA	6,632	6,402	96.5%	6,674	6,435	96.4%	0.1%	-33
SANTA CLARA	26,410	25,529	96.7%	26,070	25,305	97.1%	-0.4%	224
SANTA CRUZ	3,565	3,223	90.4%	3,681	3,338	90.7%	-0.3%	-115
SHASTA	2,526	2,276	90.1%	2,386	2,200	92.2%	-2.1%	76
SIERRA	39	37	94.9%	23	22	95.7%	-0.8%	15
SISKIYOU	564	509	90.2%	520	481	92.5%	-2.3%	28
SOLANO	5,534	5,400	97.6%	5,919	5,723	96.7%	0.9%	-323
SONOMA	6,645	6,097	91.8%	6,669	6,231	93.4%	-1.7%	-134
STANISLAUS	8,858	8,503	96.0%	9,166	8,847	96.5%	-0.5%	-344
SUTTER	2,152	1,682	78.2%	1,995	1,701	85.3%	-7.1%	-19
TEHAMA	1,033	989	95.7%	1,024	956	93.4%	2.4%	33
TRINITY	71	60	84.5%	144	131	91.0%	-6.5%	-71
TULARE	9,450	9,286	98.3%	9,243	9,104	98.5%	-0.2%	182
TUOLUMNE	620	536	86.5%	570	506	88.8%	-2.3%	30
VENTURA	12,056	11,557	95.9%	12,247	11,774	96.1%	-0.3%	-217
YOLO	2,779	2,626	94.5%	2,830	2,733	96.6%	-2.1%	-107
YUBA	1,420	1,306	92.0%	1,478	1,421	96.1%	-4.2%	-115

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	564,121	10,371	1.8%	562,924	10,736	1.9%	-0.1%	-365
COUNTY								
ALAMEDA	22,307	259	1.2%	21,910	278	1.3%	-0.1%	-19
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	17	4.5%	290	8	2.8%	1.8%	9
BUTTE	2,899	72	2.5%	2,814	63	2.2%	0.2%	9
CALAVERAS	464	26	5.6%	462	23	5.0%	0.6%	3
COLUSA	414	4	1.0%	411	4	1.0%	0.0%	0
CONTRA COSTA	15,292	297	1.9%	15,434	218	1.4%	0.5%	79
DEL NORTE	368	6	1.6%	401	13	3.2%	-1.6%	-7
EL DORADO	2,360	85	3.6%	2,205	72	3.3%	0.3%	13
FRESNO	18,573	254	1.4%	18,779	308	1.6%	-0.3%	-54
GLENN	510	3	0.6%	481	8	1.7%	-1.1%	-5
HUMBOLDT	1,762	53	3.0%	1,799	109	6.1%	-3.1%	-56
IMPERIAL	3,362	24	0.7%	3,254	32	1.0%	-0.3%	-8
INYO	221	2	0.9%	212	5	2.4%	-1.5%	-3
KERN	17,580	338	1.9%	16,497	423	2.6%	-0.6%	-85
KINGS	2,678	48	1.8%	2,731	49	1.8%	0.0%	-1
LAKE	850	33	3.9%	840	18	2.1%	1.7%	15
LASSEN	326	12	3.7%	357	7	2.0%	1.7%	5
LOS ANGELES	140,822	2,390	1.7%	140,269	2,752	2.0%	-0.3%	-362
MADERA	2,778	42	1.5%	2,835	41	1.4%	0.1%	1
MARIN	3,259	109	3.3%	3,245	99	3.1%	0.3%	10
MARIPOSA	150	7	4.7%	19	<20*	--*	--*	--*
MENDOCINO	1,305	52	4.0%	1,195	102	8.5%	-4.6%	-50
MERCED	5,421	84	1.5%	5,618	83	1.5%	0.1%	1
MODOC	115	1	0.9%	130	28	21.5%	-20.7%	-27
MONO	166	9	5.4%	139	6	4.3%	1.1%	3
MONTEREY	7,161	108	1.5%	7,221	87	1.2%	0.3%	21
NAPA	1,768	42	2.4%	1,702	23	1.4%	1.0%	19
NEVADA	913	39	4.3%	944	44	4.7%	-0.4%	-5

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018		2016-2017		1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	564,121	10,371	1.8%	562,924	10,736	1.9%	-365
COUNTY							
ORANGE	42,375	948	2.2%	42,389	847	2.0%	101
PLACER	6,296	220	3.5%	5,847	197	3.4%	23
PLUMAS	193	4	2.1%	166	10	6.0%	-6
RIVERSIDE	35,453	569	1.6%	36,132	568	1.6%	1
SACRAMENTO	21,508	631	2.9%	21,993	653	3.0%	-22
SAN BENITO	1,019	9	0.9%	967	9	0.9%	0
SAN BERNARDINO	33,825	560	1.7%	34,471	638	1.9%	-78
SAN DIEGO	47,174	899	1.9%	46,044	796	1.7%	103
SAN FRANCISCO	6,701	119	1.8%	6,742	122	1.8%	-3
SAN JOAQUIN	12,582	179	1.4%	12,572	170	1.4%	9
SAN LUIS OBISPO	3,074	78	2.5%	3,154	80	2.5%	-2
SAN MATEO	9,361	116	1.2%	9,608	171	1.8%	-55
SANTA BARBARA	6,632	101	1.5%	6,674	119	1.8%	-18
SANTA CLARA	26,410	322	1.2%	26,070	348	1.3%	-26
SANTA CRUZ	3,565	79	2.2%	3,681	99	2.7%	-20
SHASTA	2,526	130	5.1%	2,386	79	3.3%	51
SIERRA	39	1	2.6%	23	1	4.3%	0
SISKIYOU	564	19	3.4%	520	11	2.1%	8
SOLANO	5,534	92	1.7%	5,919	102	1.7%	-10
SONOMA	6,645	171	2.6%	6,669	177	2.7%	-6
STANISLAUS	8,858	182	2.1%	9,166	185	2.0%	-3
SUTTER	2,152	20	0.9%	1,995	17	0.9%	3
TEHAMA	1,033	25	2.4%	1,024	49	4.8%	-24
TRINITY	71	3	4.2%	144	10	6.9%	-7
TULARE	9,450	84	0.9%	9,243	83	0.9%	1
TUOLUMINE	620	41	6.6%	570	20	3.5%	21
VENTURA	12,056	206	1.7%	12,247	183	1.5%	23
YOLO	2,779	111	4.0%	2,830	58	2.0%	53
YUBA	1,420	36	2.5%	1,478	30	2.0%	6

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	564,121	4,111	0.7%	562,924	2,850	0.5%	0.2%	0.2%	1,261
COUNTY									
ALAMEDA	22,307	97	0.4%	21,910	76	0.3%	0.1%	0.1%	21
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*	--*
AMADOR	376	6	1.6%	290	0	0.0%	1.6%	1.6%	6
BUTTE	2,899	30	1.0%	2,814	29	1.0%	0.0%	0.0%	1
CALAVERAS	464	13	2.8%	462	3	0.6%	2.2%	2.2%	10
COLUSA	414	0	0.0%	411	1	0.2%	-0.2%	-0.2%	-1
CONTRA COSTA	15,292	73	0.5%	15,434	68	0.4%	0.0%	0.0%	5
DEL NORTE	368	1	0.3%	401	1	0.2%	0.0%	0.0%	0
EL DORADO	2,360	47	2.0%	2,205	31	1.4%	0.6%	0.6%	16
FRESNO	18,573	44	0.2%	18,779	33	0.2%	0.1%	0.1%	11
GLENN	510	2	0.4%	481	1	0.2%	0.2%	0.2%	1
HUMBOLDT	1,762	86	4.9%	1,799	16	0.9%	4.0%	4.0%	70
IMPERIAL	3,362	6	0.2%	3,254	5	0.2%	0.0%	0.0%	1
INYO	221	1	0.5%	212	2	0.9%	-0.5%	-0.5%	-1
KERN	17,580	69	0.4%	16,497	27	0.2%	0.2%	0.2%	42
KINGS	2,678	3	0.1%	2,731	5	0.2%	-0.1%	-0.1%	-2
LAKE	850	10	1.2%	840	6	0.7%	0.5%	0.5%	4
LASSEN	326	4	1.2%	357	5	1.4%	-0.2%	-0.2%	-1
LOS ANGELES	140,822	709	0.5%	140,269	515	0.4%	0.1%	0.1%	194
MADERA	2,778	12	0.4%	2,835	5	0.2%	0.3%	0.3%	7
MARIN	3,259	68	2.1%	3,245	68	2.1%	0.0%	0.0%	0
MARIPOSA	150	2	1.3%	19	<20*	--*	--*	--*	--*
MENDOCINO	1,305	32	2.5%	1,195	7	0.6%	1.9%	1.9%	25
MERCED	5,421	15	0.3%	5,618	8	0.1%	0.1%	0.1%	7
MODOC	115	1	0.9%	130	0	0.0%	0.9%	0.9%	1
MONO	166	7	4.2%	139	2	1.4%	2.8%	2.8%	5
MONTEREY	7,161	50	0.7%	7,221	37	0.5%	0.2%	0.2%	13
NAPA	1,768	31	1.8%	1,702	19	1.1%	0.6%	0.6%	12
NEVADA	913	70	7.7%	944	34	3.6%	4.1%	4.1%	36

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	564,121	4,111	0.7%	562,924	2,850	0.5%	0.2%	1,261
COUNTY								
ORANGE	42,375	384	0.9%	42,389	348	0.8%	0.1%	36
PLACER	6,296	127	2.0%	5,847	64	1.1%	0.9%	63
PLUMAS	193	9	4.7%	166	5	3.0%	1.7%	4
RIVERSIDE	35,453	208	0.6%	36,132	151	0.4%	0.2%	57
SACRAMENTO	21,508	235	1.1%	21,993	129	0.6%	0.5%	106
SAN BENITO	1,019	8	0.8%	967	3	0.3%	0.5%	5
SAN BERNARDINO	33,825	91	0.3%	34,471	105	0.3%	0.0%	-14
SAN DIEGO	47,174	576	1.2%	46,044	404	0.9%	0.3%	172
SAN FRANCISCO	6,701	48	0.7%	6,742	33	0.5%	0.2%	15
SAN JOAQUIN	12,582	41	0.3%	12,572	32	0.3%	0.1%	9
SAN LUIS OBISPO	3,074	46	1.5%	3,154	19	0.6%	0.9%	27
SAN MATEO	9,361	44	0.5%	9,608	34	0.4%	0.1%	10
SANTA BARBARA	6,632	64	1.0%	6,674	41	0.6%	0.4%	23
SANTA CLARA	26,410	129	0.5%	26,070	108	0.4%	0.1%	21
SANTA CRUZ	3,565	95	2.7%	3,681	53	1.4%	1.2%	42
SHASTA	2,526	46	1.8%	2,386	29	1.2%	0.6%	17
SIERRA	39	1	2.6%	23	0	0.0%	2.6%	1
SISKIYOU	564	6	1.1%	520	7	1.3%	-0.3%	-1
SOLANO	5,534	17	0.3%	5,919	16	0.3%	0.0%	1
SONOMA	6,645	181	2.7%	6,669	109	1.6%	1.1%	72
STANISLAUS	8,858	64	0.7%	9,166	33	0.4%	0.4%	31
SUTTER	2,152	11	0.5%	1,995	8	0.4%	0.1%	3
TEHAMA	1,033	7	0.7%	1,024	8	0.8%	-0.1%	-1
TRINITY	71	5	7.0%	144	0	0.0%	7.0%	5
TULARE	9,450	21	0.2%	9,243	10	0.1%	0.1%	11
TUOLUMNE	620	7	1.1%	570	11	1.9%	-0.8%	-4
VENTURA	12,056	120	1.0%	12,247	77	0.6%	0.4%	43
YOLO	2,779	29	1.0%	2,830	8	0.3%	0.8%	21
YUBA	1,420	2	0.1%	1,478	1	0.1%	0.1%	1

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE	CHANGE
STATE TOTAL	564,121	5	0.0%	562,924	3,133	0.6%	-0.6%	-3,128	
COUNTY									
ALAMEDA	22,307	0	0.0%	21,910	32	0.1%	-0.1%	-32	
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*	
AMADOR	376	0	0.0%	290	2	0.7%	-0.7%	-2	
BUTTE	2,899	0	0.0%	2,814	17	0.6%	-0.6%	-17	
CALAVERAS	464	0	0.0%	462	8	1.7%	-1.7%	-8	
COLUSA	414	0	0.0%	411	0	0.0%	0.0%	0	
CONTRA COSTA	15,292	0	0.0%	15,434	68	0.4%	-0.4%	-68	
DEL NORTE	368	0	0.0%	401	0	0.0%	0.0%	0	
EL DORADO	2,360	0	0.0%	2,205	24	1.1%	-1.1%	-24	
FRESNO	18,573	0	0.0%	18,779	30	0.2%	-0.2%	-30	
GLENN	510	0	0.0%	481	2	0.4%	-0.4%	-2	
HUMBOLDT	1,762	0	0.0%	1,799	30	1.7%	-1.7%	-30	
IMPERIAL	3,362	0	0.0%	3,254	3	0.1%	-0.1%	-3	
INYO	221	0	0.0%	212	0	0.0%	0.0%	0	
KERN	17,580	0	0.0%	16,497	223	1.4%	-1.4%	-223	
KINGS	2,678	0	0.0%	2,731	2	0.1%	-0.1%	-2	
LAKE	850	0	0.0%	840	0	0.0%	0.0%	0	
LASSEN	326	0	0.0%	357	4	1.1%	-1.1%	-4	
LOS ANGELES	140,822	2	0.0%	140,269	657	0.5%	-0.5%	-655	
MADERA	2,778	0	0.0%	2,835	2	0.1%	-0.1%	-2	
MARIN	3,259	0	0.0%	3,245	40	1.2%	-1.2%	-40	
MARIPOSA	150	0	0.0%	19	<20*	--*	--*	--*	
MENDOCINO	1,305	0	0.0%	1,195	13	1.1%	-1.1%	-13	
MERCED	5,421	0	0.0%	5,618	1	0.0%	0.0%	-1	
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0	
MONO	166	0	0.0%	139	1	0.7%	-0.7%	-1	
MONTEREY	7,161	0	0.0%	7,221	17	0.2%	-0.2%	-17	
NAPA	1,768	0	0.0%	1,702	11	0.6%	-0.6%	-11	
NEVADA	913	0	0.0%	944	66	7.0%	-7.0%	-66	

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 8: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERSONAL BELIEFS EXEMPTION (PBE) IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PBE	PERCENT	TOTAL STUDENTS	PBE	PERCENT	PERCENT	NUMBER PBE	CHANGE
STATE TOTAL	564,121	5	0.0%	562,924	3,133	0.6%	-0.6%	-3,128	
COUNTY									
ORANGE	42,375	0	0.0%	42,389	269	0.6%	-0.6%	-269	
PLACER	6,296	0	0.0%	5,847	69	1.2%	-1.2%	-69	
PLUMAS	193	0	0.0%	166	1	0.6%	-0.6%	-1	
RIVERSIDE	35,453	0	0.0%	36,132	95	0.3%	-0.3%	-95	
SACRAMENTO	21,508	0	0.0%	21,993	127	0.6%	-0.6%	-127	
SAN BENITO	1,019	0	0.0%	967	0	0.0%	0.0%	0	
SAN BERNARDINO	33,825	0	0.0%	34,471	83	0.2%	-0.2%	-83	
SAN DIEGO	47,174	0	0.0%	46,044	655	1.4%	-1.4%	-655	
SAN FRANCISCO	6,701	0	0.0%	6,742	22	0.3%	-0.3%	-22	
SAN JOAQUIN	12,582	0	0.0%	12,572	30	0.2%	-0.2%	-30	
SAN LUIS OBISPO	3,074	0	0.0%	3,154	13	0.4%	-0.4%	-13	
SAN MATEO	9,361	0	0.0%	9,608	20	0.2%	-0.2%	-20	
SANTA BARBARA	6,632	2	0.0%	6,674	47	0.7%	-0.7%	-45	
SANTA CLARA	26,410	0	0.0%	26,070	84	0.3%	-0.3%	-84	
SANTA CRUZ	3,565	0	0.0%	3,681	43	1.2%	-1.2%	-43	
SHASTA	2,526	0	0.0%	2,386	34	1.4%	-1.4%	-34	
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0	
SISKIYOU	564	0	0.0%	520	5	1.0%	-1.0%	-5	
SOLANO	5,534	0	0.0%	5,919	16	0.3%	-0.3%	-16	
SONOMA	6,645	1	0.0%	6,669	92	1.4%	-1.4%	-91	
STANISLAUS	8,858	0	0.0%	9,166	38	0.4%	-0.4%	-38	
SUTTER	2,152	0	0.0%	1,995	18	0.9%	-0.9%	-18	
TEHAMA	1,033	0	0.0%	1,024	5	0.5%	-0.5%	-5	
TRINITY	71	0	0.0%	144	0	0.0%	0.0%	0	
TULARE	9,450	0	0.0%	9,243	5	0.1%	-0.1%	-5	
TUOLUMNE	620	0	0.0%	570	17	3.0%	-3.0%	-17	
VENTURA	12,056	0	0.0%	12,247	73	0.6%	-0.6%	-73	
YOLO	2,779	0	0.0%	2,830	17	0.6%	-0.6%	-17	
YUBA	1,420	0	0.0%	1,478	2	0.1%	-0.1%	-2	

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 9: NUMBER AND PERCENTAGE OF STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONST
STATE TOTAL	564,121	6,072	1.1%	562,924	2,564	0.5%	0.6%	3,508
COUNTY								
ALAMEDA	22,307	35	0.2%	21,910	13	0.1%	0.1%	22
ALPINE	6	0	0.0%	6	<20*	--*	--*	--*
AMADOR	376	4	1.1%	290	1	0.3%	0.7%	3
BUTTE	2,899	49	1.7%	2,814	40	1.4%	0.3%	9
CALAVERAS	464	15	3.2%	462	14	3.0%	0.2%	1
COLUSA	414	0	0.0%	411	0	0.0%	0.0%	0
CONTRA COSTA	15,292	42	0.3%	15,434	29	0.2%	0.1%	13
DEL NORTE	368	1	0.3%	401	15	3.7%	-3.5%	-14
EL DORADO	2,360	113	4.8%	2,205	4	0.2%	4.6%	109
FRESNO	18,573	178	1.0%	18,779	44	0.2%	0.7%	134
GLENN	510	0	0.0%	481	0	0.0%	0.0%	0
HUMBOLDT	1,762	52	3.0%	1,799	70	3.9%	-0.9%	-18
IMPERIAL	3,362	8	0.2%	3,254	2	0.1%	0.2%	6
INYO	221	0	0.0%	212	0	0.0%	0.0%	0
KERN	17,580	77	0.4%	16,497	23	0.1%	0.3%	54
KINGS	2,678	0	0.0%	2,731	1	0.0%	0.0%	-1
LAKE	850	6	0.7%	840	4	0.5%	0.2%	2
LASSEN	326	1	0.3%	357	17	4.8%	-4.5%	-16
LOS ANGELES	140,822	1,601	1.1%	140,269	301	0.2%	0.9%	1300
MADERA	2,778	34	1.2%	2,835	23	0.8%	0.4%	11
MARIN	3,259	4	0.1%	3,245	0	0.0%	0.1%	4
MARIPOSA	150	3	2.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	7	0.5%	1,195	5	0.4%	0.1%	2
MERCED	5,421	33	0.6%	5,618	16	0.3%	0.3%	17
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0
MONO	166	0	0.0%	139	0	0.0%	0.0%	0
MONTEREY	7,161	7	0.1%	7,221	4	0.1%	0.0%	3
NAPA	1,768	6	0.3%	1,702	12	0.7%	-0.4%	-6
NEVADA	913	55	6.0%	944	35	3.7%	2.3%	20

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 9: NUMBER AND PERCENTAGE OF STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONST
STATE TOTAL	564,121	6,072	1.1%	562,924	2,564	0.5%	0.6%	3,508
COUNTY								
ORANGE	42,375	235	0.6%	42,389	179	0.4%	0.1%	56
PLACER	6,296	89	1.4%	5,847	32	0.5%	0.9%	57
PLUMAS	193	3	1.6%	166	1	0.6%	1.0%	2
RIVERSIDE	35,453	146	0.4%	36,132	153	0.4%	0.0%	-7
SACRAMENTO	21,508	343	1.6%	21,993	266	1.2%	0.4%	77
SAN BENITO	1,019	0	0.0%	967	0	0.0%	0.0%	0
SAN BERNARDINO	33,825	311	0.9%	34,471	179	0.5%	0.4%	132
SAN DIEGO	47,174	1,401	3.0%	46,044	329	0.7%	2.3%	1072
SAN FRANCISCO	6,701	0	0.0%	6,742	0	0.0%	0.0%	0
SAN JOAQUIN	12,582	106	0.8%	12,572	68	0.5%	0.3%	38
SAN LUIS OBISPO	3,074	18	0.6%	3,154	18	0.6%	0.0%	0
SAN MATEO	9,361	8	0.1%	9,608	4	0.0%	0.0%	4
SANTA BARBARA	6,632	44	0.7%	6,674	30	0.4%	0.2%	14
SANTA CLARA	26,410	33	0.1%	26,070	18	0.1%	0.1%	15
SANTA CRUZ	3,565	145	4.1%	3,681	134	3.6%	0.4%	11
SHASTA	2,526	67	2.7%	2,386	29	1.2%	1.4%	38
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0
SISKIYOU	564	22	3.9%	520	15	2.9%	1.0%	7
SOLANO	5,534	7	0.1%	5,919	13	0.2%	-0.1%	-6
SONOMA	6,645	117	1.8%	6,669	21	0.3%	1.4%	96
STANISLAUS	8,858	29	0.3%	9,166	13	0.1%	0.2%	16
SUTTER	2,152	426	19.8%	1,995	245	12.3%	7.5%	181
TEHAMA	1,033	8	0.8%	1,024	6	0.6%	0.2%	2
TRINITY	71	2	2.8%	144	1	0.7%	2.1%	1
TULARE	9,450	39	0.4%	9,243	26	0.3%	0.1%	13
TUOLUMNE	620	15	2.4%	570	6	1.1%	1.4%	9
VENTURA	12,056	101	0.8%	12,247	87	0.7%	0.1%	14
YOLO	2,779	2	0.1%	2,830	7	0.2%	-0.2%	-5
YUBA	1,420	24	1.7%	1,478	11	0.7%	0.9%	13

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 10: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OTHERS LACKING REQUIRED IMMUNIZATIONS†				HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	INDEPENDENT STUDY		IEP SERVICES		NUMBER	PERCENT
					NUMBER	PERCENT	NUMBER	PERCENT		
STATE TOTAL	564,121	1.1%	6,072	1.1%	4,399	0.8%	1,133	0.2%	540	0.1%
COUNTY										
ALAMEDA	22,307	0.2%	35	0.2%	0	0.0%	35	0.2%	0	0.0%
ALPINE	6	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	376	1.1%	4	1.1%	0	0.0%	4	1.1%	0	0.0%
BUTTE	2,899	1.7%	49	1.7%	39	1.3%	9	0.3%	1	0.0%
CALAVERAS	464	3.2%	15	3.2%	15	3.2%	0	0.0%	0	0.0%
COLUSA	414	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
CONTRA COSTA	15,292	0.3%	42	0.3%	19	0.1%	23	0.2%	0	0.0%
DEL NORTE	368	0.3%	1	0.3%	1	0.3%	0	0.0%	0	0.0%
EL DORADO	2,360	4.8%	113	4.8%	109	4.6%	4	0.2%	0	0.0%
FRESNO	18,573	1.0%	178	1.0%	150	0.8%	23	0.1%	5	0.0%
GLENN	510	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
HUMBOLDT	1,762	3.0%	52	3.0%	48	2.7%	4	0.2%	0	0.0%
IMPERIAL	3,362	0.2%	8	0.2%	0	0.0%	8	0.2%	0	0.0%
INYO	221	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
KERN	17,580	0.4%	77	0.4%	8	0.0%	29	0.2%	40	0.2%
KINGS	2,678	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
LAKE	850	0.7%	6	0.7%	4	0.5%	2	0.2%	0	0.0%
LASSEN	326	0.3%	1	0.3%	0	0.0%	1	0.3%	0	0.0%
LOS ANGELES	140,822	1.1%	1,601	1.1%	1,192	0.8%	321	0.2%	88	0.1%
MADERA	2,778	1.2%	34	1.2%	13	0.5%	21	0.8%	0	0.0%
MARIN	3,259	0.1%	4	0.1%	0	0.0%	4	0.1%	0	0.0%
MARIPOSA	150	2.0%	3	2.0%	3	2.0%	0	0.0%	0	0.0%
MENDOCINO	1,305	0.5%	7	0.5%	5	0.4%	2	0.2%	0	0.0%
MERCED	5,421	0.6%	33	0.6%	0	0.0%	33	0.6%	0	0.0%
MODOC	115	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONO	166	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONTEREY	7,161	0.1%	7	0.1%	0	0.0%	0	0.0%	0	0.0%
NAPA	1,768	0.3%	6	0.3%	0	0.0%	0	0.0%	7	0.1%
NEVADA	913	6.0%	55	6.0%	47	5.1%	8	0.9%	6	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.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 10: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2017-2018  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OTHERS LACKING REQUIRED IMMUNIZATIONS†				HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	INDEPENDENT STUDY		IEP SERVICES		NUMBER	PERCENT
					NUMBER	PERCENT	NUMBER	PERCENT		
STATE TOTAL	564,121	1.1%	6,072	1.1%	4,399	0.8%	1,133	0.2%	540	0.1%
COUNTY										
ORANGE	42,375	0.6%	235	0.6%	94	0.2%	127	0.3%	14	0.0%
PLACER	6,296	1.4%	89	1.4%	75	1.2%	14	0.2%	0	0.0%
PLUMAS	193	1.6%	3	1.6%	3	1.6%	0	0.0%	0	0.0%
RIVERSIDE	35,453	0.4%	146	0.4%	79	0.2%	43	0.1%	24	0.1%
SACRAMENTO	21,508	1.6%	343	1.6%	236	1.1%	103	0.5%	4	0.0%
SAN BENITO	1,019	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN BERNARDINO	33,825	0.9%	311	0.9%	171	0.5%	50	0.1%	90	0.3%
SAN DIEGO	47,174	3.0%	1,401	3.0%	1,244	2.6%	80	0.2%	77	0.2%
SAN FRANCISCO	6,701	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN JOAQUIN	12,582	0.8%	106	0.8%	66	0.5%	30	0.2%	10	0.1%
SAN LUIS OBISPO	3,074	0.6%	18	0.6%	3	0.1%	14	0.5%	1	0.0%
SAN MATEO	9,361	0.1%	8	0.1%	4	0.0%	4	0.0%	0	0.0%
SANTA BARBARA	6,632	0.7%	44	0.7%	37	0.6%	2	0.0%	5	0.1%
SANTA CLARA	26,410	0.1%	33	0.1%	0	0.0%	31	0.1%	2	0.0%
SANTA CRUZ	3,565	4.1%	145	4.1%	136	3.8%	9	0.3%	0	0.0%
SHASTA	2,526	2.7%	67	2.7%	51	2.0%	11	0.4%	5	0.2%
SIERRA	39	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SISKIYOU	564	3.9%	22	3.9%	21	3.7%	1	0.2%	0	0.0%
SOLANO	5,534	0.1%	7	0.1%	6	0.1%	1	0.0%	0	0.0%
SONOMA	6,645	1.8%	117	1.8%	6	0.1%	10	0.2%	101	1.5%
STANISLAUS	8,858	0.3%	29	0.3%	0	0.0%	16	0.2%	13	0.1%
SUTTER	2,152	19.8%	426	19.8%	410	19.1%	9	0.4%	7	0.3%
TEHAMA	1,033	0.8%	8	0.8%	7	0.7%	1	0.1%	0	0.0%
TRINITY	71	2.8%	2	2.8%	0	0.0%	2	2.8%	0	0.0%
TULARE	9,450	0.4%	39	0.4%	30	0.3%	9	0.1%	0	0.0%
TUOLUMNE	620	2.4%	15	2.4%	7	1.1%	2	0.3%	6	1.0%
VENTURA	12,056	0.8%	101	0.8%	45	0.4%	22	0.2%	34	0.3%
YOLO	2,779	0.1%	2	0.1%	0	0.0%	2	0.1%	0	0.0%
YUBA	1,420	1.7%	24	1.7%	15	1.1%	9	0.6%	0	0.0%

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

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	564,121	6,920	1.2%	562,924	5,650	1.0%	0.2%	1,270
COUNTY								
ALAMEDA	22,307	245	1.1%	21,910	209	1.0%	0.1%	36
ALPINE	6	<20*	--*	6	<20*	--*	--*	--*
AMADOR	376	4	1.1%	290	0	0.0%	1.1%	4
BUTTE	2,899	9	0.3%	2,814	17	0.6%	-0.3%	-8
CALAVERAS	464	1	0.2%	462	0	0.0%	0.2%	1
COLUSA	414	2	0.5%	411	7	1.7%	-1.2%	-5
CONTRA COSTA	15,292	152	1.0%	15,434	75	0.5%	0.5%	77
DEL NORTE	368	0	0.0%	401	0	0.0%	0.0%	0
EL DORADO	2,360	1	0.0%	2,205	3	0.1%	-0.1%	-2
FRESNO	18,573	252	1.4%	18,779	123	0.7%	0.7%	129
GLENN	510	3	0.6%	481	2	0.4%	0.2%	1
HUMBOLDT	1,762	14	0.8%	1,799	14	0.8%	0.0%	0
IMPERIAL	3,362	37	1.1%	3,254	43	1.3%	-0.2%	-6
INYO	221	1	0.5%	212	3	1.4%	-1.0%	-2
KERN	17,580	829	4.7%	16,497	114	0.7%	4.0%	715
KINGS	2,678	11	0.4%	2,731	9	0.3%	0.1%	2
LAKE	850	3	0.4%	840	2	0.2%	0.1%	1
LASSEN	326	0	0.0%	357	0	0.0%	0.0%	0
LOS ANGELES	140,822	2,402	1.7%	140,269	2,734	1.9%	-0.2%	-332
MADERA	2,778	61	2.2%	2,835	41	1.4%	0.7%	20
MARIN	3,259	14	0.4%	3,245	15	0.5%	0.0%	-1
MARIPOSA	150	3	2.0%	19	<20*	--*	--*	--*
MENDOCINO	1,305	81	6.2%	1,195	8	0.7%	5.5%	73
MERCED	5,421	50	0.9%	5,618	24	0.4%	0.5%	26
MODOC	115	0	0.0%	130	0	0.0%	0.0%	0
MONO	166	1	0.6%	139	0	0.0%	0.6%	1
MONTEREY	7,161	57	0.8%	7,221	37	0.5%	0.3%	20
NAPA	1,768	9	0.5%	1,702	0	0.0%	0.5%	9
NEVADA	913	3	0.3%	944	1	0.1%	0.2%	2

^ Overdue for one or more immunizations.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS<sup>†</sup> IN 2017-2018 AND 2016-2017,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2017-2018			2016-2017			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	TOTAL STUDENTS	OVERDUE <sup>†</sup>	PERCENT	PERCENT	OVERDUE <sup>†</sup>
STATE TOTAL	564,121	6,920	1.2%	562,924	5,650	1.0%	0.2%	1,270
COUNTY								
ORANGE	42,375	271	0.6%	42,389	256	0.6%	0.0%	15
PLACER	6,296	46	0.7%	5,847	83	1.4%	-0.7%	-37
PLUMAS	193	1	0.5%	166	0	0.0%	0.5%	1
RIVERSIDE	35,453	324	0.9%	36,132	356	1.0%	-0.1%	-32
SACRAMENTO	21,508	198	0.9%	21,993	134	0.6%	0.3%	64
SAN BENITO	1,019	0	0.0%	967	6	0.6%	-0.6%	-6
SAN BERNARDINO	33,825	225	0.7%	34,471	331	1.0%	-0.3%	-106
SAN DIEGO	47,174	331	0.7%	46,044	247	0.5%	0.2%	84
SAN FRANCISCO	6,701	178	2.7%	6,742	120	1.8%	0.9%	58
SAN JOAQUIN	12,582	138	1.1%	12,572	40	0.3%	0.8%	98
SAN LUIS OBISPO	3,074	19	0.6%	3,154	9	0.3%	0.3%	10
SAN MATEO	9,361	120	1.3%	9,608	104	1.1%	0.2%	16
SANTA BARBARA	6,632	19	0.3%	6,674	2	0.0%	0.3%	17
SANTA CLARA	26,410	397	1.5%	26,070	207	0.8%	0.7%	190
SANTA CRUZ	3,565	23	0.6%	3,681	14	0.4%	0.3%	9
SHASTA	2,526	7	0.3%	2,386	15	0.6%	-0.4%	-8
SIERRA	39	0	0.0%	23	0	0.0%	0.0%	0
SISKIYOU	564	8	1.4%	520	1	0.2%	1.2%	7
SOLANO	5,534	18	0.3%	5,919	49	0.8%	-0.5%	-31
SONOMA	6,645	78	1.2%	6,669	39	0.6%	0.6%	39
STANISLAUS	8,858	80	0.9%	9,166	50	0.5%	0.4%	30
SUTTER	2,152	13	0.6%	1,995	6	0.3%	0.3%	7
TEHAMA	1,033	4	0.4%	1,024	0	0.0%	0.4%	4
TRINITY	71	1	1.4%	144	2	1.4%	0.0%	-1
TULARE	9,450	20	0.2%	9,243	15	0.2%	0.0%	5
TUOLUMNE	620	21	3.4%	570	10	1.8%	1.6%	11
VENTURA	12,056	72	0.6%	12,247	53	0.4%	0.2%	19
YOLO	2,779	11	0.4%	2,830	7	0.2%	0.1%	4
YUBA	1,420	52	3.7%	1,478	13	0.9%	2.8%	39

<sup>†</sup> Overdue for one or more immunizations.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 12: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	96.4%	543,839	96.4%	546,328	96.8%	546,451	96.9%	550,821	97.6%	554,016	98.2%
COUNTY												
ALAMEDA	22,307	98.0%	21,866	98.0%	21,951	98.4%	21,946	98.4%	21,995	98.6%	22,157	99.3%
ALPINE	6	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	376	93.4%	351	93.4%	357	94.9%	358	95.2%	359	95.5%	364	96.8%
BUTTE	2,899	96.3%	2,792	96.3%	2,804	96.7%	2,789	96.2%	2,822	97.3%	2,849	98.3%
CALAVERAS	464	89.7%	416	89.7%	423	91.2%	421	90.7%	425	91.6%	434	93.5%
COLUSA	414	98.6%	408	98.6%	408	98.6%	413	99.8%	≥413	>99%	≥413	>99%
CONTRA COSTA	15,292	97.7%	14,946	97.7%	14,978	97.9%	14,995	98.1%	15,087	98.7%	15,147	99.1%
DEL NORTE	368	97.8%	360	97.8%	361	98.1%	364	98.9%	362	98.4%	366	99.5%
EL DORADO	2,360	91.0%	2,147	91.0%	2,162	91.6%	2,165	91.7%	2,180	92.4%	2,209	93.6%
FRESNO	18,573	96.8%	17,986	96.8%	18,088	97.4%	18,124	97.6%	18,309	98.6%	18,359	98.8%
GLENN	510	98.6%	503	98.6%	504	98.8%	508	99.6%	505	99.0%	508	99.6%
HUMBOLDT	1,762	92.7%	1,633	92.7%	1,623	92.1%	1,622	92.1%	1,633	92.7%	1,654	93.9%
IMPERIAL	3,362	98.5%	3,310	98.5%	3,321	98.8%	3,305	98.3%	3,342	99.4%	3,347	99.6%
INYO	221	98.6%	218	98.6%	219	99.1%	218	98.6%	218	98.6%	219	99.1%
KERN	17,580	94.0%	16,517	94.0%	16,685	94.9%	16,673	94.8%	16,923	96.3%	17,014	96.8%
KINGS	2,678	98.0%	2,625	98.0%	2,656	99.2%	2,658	99.3%	2,660	99.3%	2,673	99.8%
LAKE	850	95.1%	808	95.1%	825	97.1%	825	97.1%	829	97.5%	838	98.6%
LASSEN	326	95.7%	312	95.7%	313	96.0%	312	95.7%	316	96.9%	318	97.5%
LOS ANGELES	140,822	96.4%	135,808	96.4%	136,321	96.8%	136,409	96.9%	137,773	97.8%	138,528	98.4%
MADERA	2,778	96.0%	2,668	96.0%	2,681	96.5%	2,695	97.0%	2,708	97.5%	2,731	98.3%
MARIN	3,259	96.5%	3,145	96.5%	3,136	96.2%	3,156	96.8%	3,143	96.4%	3,184	97.7%
MARIPOSA	150	91.3%	137	91.3%	139	92.7%	137	91.3%	139	92.7%	141	94.0%
MENDOCINO	1,305	89.0%	1,161	89.0%	1,162	89.0%	1,189	91.1%	1,192	91.3%	1,247	95.6%
MERCED	5,421	97.7%	5,298	97.7%	5,316	98.1%	5,304	97.8%	5,377	99.2%	5,385	99.3%
MODOC	115	≥99%	≥114	≥99%	≥114	≥99%	≥114	≥99%	≥114	≥99%	≥114	≥99%
MONO	166	94.0%	156	94.0%	155	93.4%	155	93.4%	154	92.8%	158	95.2%
MONTEREY	7,161	98.2%	7,034	98.2%	7,054	98.5%	7,044	98.4%	7,082	98.9%	7,108	99.3%
NAPA	1,768	96.3%	1,702	96.3%	1,721	97.3%	1,716	97.1%	1,718	97.2%	1,734	98.1%
NEVADA	913	84.2%	769	84.2%	785	86.0%	776	85.0%	789	86.4%	795	87.1%

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2017-2018  
 TABLE 12: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	564,121	96.4%	543,839	96.4%	546,328	96.8%	546,451	96.9%	550,821	97.6%	554,016	98.2%
COUNTY												
ORANGE	42,375	97.0%	41,120	97.0%	41,251	97.3%	41,227	97.3%	41,588	98.1%	41,814	98.7%
PLACER	6,296	94.4%	5,946	94.4%	5,970	94.8%	5,965	94.7%	6,022	95.6%	6,071	96.4%
PLUMAS	193	96.4%	186	96.4%	187	96.9%	186	96.4%	189	97.9%	191	99.0%
RIVERSIDE	35,453	97.5%	34,554	97.5%	34,755	98.0%	34,750	98.0%	34,916	98.5%	35,118	99.1%
SACRAMENTO	21,508	94.8%	20,380	94.8%	20,614	95.8%	20,642	96.0%	20,811	96.8%	21,006	97.7%
SAN BENITO	1,019	98.9%	1,008	98.9%	1,010	99.1%	1,008	98.9%	1,007	98.8%	1,011	99.2%
SAN BERNARDINO	33,825	97.3%	32,903	97.3%	33,094	97.8%	33,139	98.0%	33,271	98.4%	33,484	99.0%
SAN DIEGO	47,174	94.6%	44,643	94.6%	44,848	95.1%	44,832	95.0%	45,256	95.9%	45,595	96.7%
SAN FRANCISCO	6,701	96.0%	6,434	96.0%	6,434	96.0%	6,466	96.5%	6,484	96.8%	6,538	97.6%
SAN JOAQUIN	12,582	97.0%	12,210	97.0%	12,311	97.8%	12,299	97.8%	12,363	98.3%	12,441	98.9%
SAN LUIS OBISPO	3,074	96.0%	2,952	96.0%	2,950	96.0%	2,973	96.7%	2,990	97.3%	3,011	98.0%
SAN MATEO	9,361	97.8%	9,155	97.8%	9,181	98.1%	9,173	98.0%	9,253	98.8%	9,281	99.1%
SANTA BARBARA	6,632	97.6%	6,475	97.6%	6,496	97.9%	6,486	97.8%	6,512	98.2%	6,548	98.7%
SANTA CLARA	26,410	97.8%	25,816	97.8%	25,902	98.1%	25,857	97.9%	26,099	98.8%	26,142	99.0%
SANTA CRUZ	3,565	92.8%	3,310	92.8%	3,313	92.9%	3,294	92.4%	3,313	92.9%	3,368	94.5%
SHASTA	2,526	92.0%	2,325	92.0%	2,341	92.7%	2,348	93.0%	2,376	94.1%	2,407	95.3%
SIERRA	39	≥97%	≥38	≥97%	≥38	≥97%	≥38	≥97%	≥38	≥97%	≥38	≥97%
SISKIYOU	564	92.7%	523	92.7%	525	93.1%	525	93.1%	527	93.4%	533	94.5%
SOLANO	5,534	98.1%	5,430	98.1%	5,454	98.6%	5,462	98.7%	5,483	99.1%	5,510	99.6%
SONOMA	6,645	93.9%	6,238	93.9%	6,248	94.0%	6,251	94.1%	6,290	94.7%	6,330	95.3%
STANISLAUS	8,858	97.0%	8,588	97.0%	8,623	97.3%	8,616	97.3%	8,691	98.1%	8,675	97.9%
SUTTER	2,152	82.9%	1,783	82.9%	1,789	83.1%	1,771	82.3%	1,866	86.7%	1,881	87.4%
TEHAMA	1,033	96.6%	998	96.6%	1,002	97.0%	1,014	98.2%	1,013	98.1%	1,018	98.5%
TRINITY	71	87.3%	62	87.3%	62	87.3%	63	88.7%	64	90.1%	66	93.0%
TULARE	9,450	98.7%	9,326	98.7%	9,367	99.1%	9,353	99.0%	9,389	99.4%	9,401	99.5%
TUOLUMNE	620	89.2%	553	89.2%	557	89.8%	565	91.1%	574	92.6%	576	92.9%
VENTURA	12,056	97.0%	11,695	97.0%	11,714	97.2%	11,720	97.2%	11,784	97.7%	11,841	98.2%
YOLO	2,779	95.9%	2,666	95.9%	2,679	96.4%	2,676	96.3%	2,694	96.9%	2,726	98.1%
YUBA	1,420	93.4%	1,326	93.4%	1,344	94.6%	1,358	95.6%	1,383	97.4%	1,392	98.0%

\* County reporting fewer than 20 children in kindergarten.

**APPENDIX I**

**2018-2019 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## 2018-2019 Kindergarten Immunization Assessment – Executive Summary California Department of Public Health, Immunization Branch

Immunization requirements for school entry help protect children and communities from vaccine-preventable diseases. Each autumn California schools are required to report to the California Department of Public Health (CDPH) the status of their students under state immunization requirement laws. In recent years there have been changes to these laws and how public health departments assist schools to implement them. In 2014 and 2015 Assembly Bill (AB) 2109 added requirements for exemptions to required immunizations based on personal beliefs. 2018-2019 is the third 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). Beginning in the 2015-2016 school year, many public health departments in California have assisted schools in correctly identifying and supporting eligible students, described as conditional entrants, who catch up with immunization requirements after entry.

Reported immunization rates remain at high levels but have decreased over the last two years. The proportion of students attending kindergarten in 2018-2019 reported to have received all required vaccines is 94.8%, a 0.3 percentage point decrease from the 2017-2018 school year, a 0.8 percentage point decrease from the 2016-2017 school year, and a 4.6 percentage point increase over five years since 2013-2014. The 2018-2019 rate of 94.8% is the third highest reported for the current set of immunization requirements for kindergarten, which began in the 2001-2002 school year.

Completion rates for each specific immunization series decreased between 0.3 percentage points for Polio, Hepatitis B, and Varicella to 0.4 percentage points for Diphtheria, Tetanus and Pertussis (DTP) vaccine and Measles, Mumps and Rubella (MMR) vaccine. In 2018-2019, 17 (29%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR vaccine, compared to 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

The proportion of kindergartners reported as conditional entrants declined from 1.8% in 2017-2018 to 1.7% in 2018-2019, a 0.1 percentage point decrease over one year and a 5.2 percentage point decrease over the four years since 2014-2015. The present level of 1.7% is the lowest reported for the current set of immunization requirements for kindergarten.

Compared to 2017-2018, in 2018-2019 the proportion of kindergartners reported as:

- Having permanent medical exemptions increased from 0.7% to 0.9%.
- Lacking immunizations for other reasons specified under SB 277 increased from 1.1% to 1.5%, with 1.2% reported as being enrolled in independent study programs.
- Being overdue for required immunizations decreased from 1.2% to 1.1%.

Because of SB 277, the proportion of kindergartners reported with PBEs has remained at 0.0% since 2017-2018. Previously during measures specified in AB 2109, the rate of PBEs had decreased from 3.2% in 2013-2014 to 2.4% in 2015-2016.

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

## 2018-2019 Kindergarten Immunization Assessment – Technical Notes

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### Introduction

Each autumn all schools with kindergartens in California are required to report student compliance with California School Immunization Laws (California Health and Safety Code Sections 120325-120375). This report summarizes data for the 2018-2019 school year reported by public and private kindergartens statewide (Table 1, Figures 1-8) and by county (Tables 2-11).

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. 2018-2019 is the third full school year that entrants have been subject to [Senate Bill \(SB\) 277](#), which no longer permits them to receive such personal beliefs exemptions (PBEs).

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

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### Methods

During the autumn of 2018, California schools registered with the California Department of Education reported data on kindergarteners in the 2018-2019 school year to the California Department of Public Health (CDPH). Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:
  - 5 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine (4 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['4+DTP']
  - 3 or more of Polio vaccine (3 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['3+ Polio']
  - 2 or more of Measles-containing vaccine received on or after the first birthday, and 1 or more of Mumps, and Rubella vaccine, typically combined as Measles, Mumps and Rubella (MMR) vaccine: ['2+ MMR']
  - 3 or more of Hepatitis B (Hep B) vaccine: [3+ Hep B'], and
  - 1 or more of Varicella (Var) vaccine or a history documented by a physician of having had chickenpox: ['1+ Var'].
- Conditional entrants who had:
  - Not received all required doses but were not overdue for required doses, or
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
  - A home-based private school or
  - A public independent study program and do not receive classroom-based instruction.

- In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.

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

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

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

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

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

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## Results

The number of kindergarteners in California whose immunization status was reported decreased from 564,121 in 2017-2018 to 555,735 in the 2018-2019 school year (Table 1). This is consistent with [reported statewide declines in school enrollment](#), as the number of schools that reported increased marginally from 7,957 in 2017-2018 to 7,964 in 2018-2019, and the number of schools that did not report decreased from 238 to 236 (Tables 1 and 2). Private schools account for 8% (42,827/555,735) of all kindergarteners about whom data was reported in 2018-2019, 24% (1,896/7,964) of all schools that reported data on kindergarteners and 92% (217/236) of schools that did not report.

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

All required immunizations: Of 555,735 kindergarteners whose schools reported their status, 526,923 (94.8%) had received all required immunizations, a decrease from the previous school year of 0.3 percentage points (Tables 1 and 5) and an increase over the three school years since 2015-2016 of 2.0 percentage points (Figures 1 and 6). For counties reporting at least 25 students, the highest rates, at least 97.5%, are reported in Modoc, Tulare, Kings, Solano, Colusa, Merced and Monterey counties (Tables 3-5).

In 2018-2019 nine (16%) of 58 counties in California have rates of kindergarteners with all required vaccines that are below 90%, the same number as in 2017-2018 (Tables 4 and 5, Figure 9). The rate in at least one of these, Sutter County, is influenced by online or virtual schools that are based in the county but that enroll children who reside mostly in other counties; many students in virtual schools qualify for exemptions from requirements under SB 277 (see Methods and below). At traditional classroom-based schools in Sutter County, 97.6% (1,485/1,521) of kindergartens were reported as receiving all required immunizations, compared

to 22.2% (175/789) enrolled at virtual schools based in the county and 71.9% (1,660/2,310) at all schools, traditional and virtual; of all students reported at kindergartens based in Sutter County, 34.2% (789/2,310) are enrolled in virtual schools.

As in past years, a higher proportion of students in public compared to private schools were reported as having had all required immunizations (95.0% vs. 92.9%; difference of 2.1 percentage points) (Table 1, Figures 7 and 8). However, this gap is smaller in 2018-2019 than it was in 2017-2018 (95.3% vs. 92.9%; difference of 2.4 percentage points), as there was a one-year decrease of 0.3 percentage points for students in public schools and no change for those in private schools.

Specific immunization series: Completion rates for specific immunization series varied between 96.0% for DTP vaccine and 97.9% for varicella vaccine (Tables 1 and 11, Figure 5). The rates decreased between 0.3 percentage points for Polio, Hep B, and Varicella vaccine to 0.4 percentage points for DTP and MMR vaccines. Rates for receipt remain higher in public schools; for MMR, 96.6% of students at public schools and 95.0% at private schools are reported as having received two doses, a decrease from 2017-2018 respectively of 0.4 percentage points and 0.0 percentage points, and an increase compared to 2015-2016 respectively of 1.8 percentage points and 4.5 percentage points. In 2018-2019, 17 (29%) counties report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), compared to 16 (28%) counties in 2017-2018, 14 (24%) counties in 2016-2017 and 31 (53%) counties in 2015-2016.

Conditional entrants: Over the last four school years, the proportion of students reported as conditional entrants decreased from 6.9% in 2014-2015 to 1.7% in 2018-2019 (Table 1, Figures 2 and 6). Compared to the 2017-2018 school year, the proportion of conditional entrants in 2018-2019 decreased by 0.1 percentage point. The rate of conditional entrants decreased in both public (-0.1 percentage points) and private (-0.4 percentage points) schools (Table 1). Of 58 counties, at least 34 (59%) reported reductions in the proportion of conditional entrants, with the largest reductions reported for Tuolumne (-2.7% percentage points) and Sierra (-2.6% percentage points) counties (Table 6). Of the 1.7% of students reported as conditional entrants in 2018-2019, 0.3% (1,450) were reported as having had a temporary medical exemption, unchanged from 2017-2018.

PMEs: The percentage of students with PMEs increased from 0.7% in 2017-2018 to 0.9% in 2018-2019 (Tables 1 and 7, Figure 3). In public schools, the number of students reported with PMEs increased from 3,230 (0.6%) to 3,805 (0.7%) (Figure 7), while for private schools, the number of students increased from 881 (2.1%) to 1,007 (2.4%) (Figure 8).

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

Other students lacking required immunizations: The proportion of kindergarteners reported to be lacking one or more required immunizations and to attend an independent study program and do not receive classroom-based instruction, attend a home-based private school, or receive services in an IEP (Tables 1, 8 and 9) increased from 1.1% (6,072) in 2017-2018 to 1.5% (8,318) in 2018-2019. Children reported as being enrolled in public independent study programs accounted for most students in this category (1.2%, or 6,502) (Table 9), and for most of the increase compared to the previous year (0.39 of the 0.42 percentage point increase). More than 90% of the increase in the number of children enrolled in independent study programs and

lacking immunizations were reported from schools based in five counties: Kern, San Diego, San Bernardino, Sonoma, and Stanislaus. Some of these students are enrolled in virtual schools and reside in other counties.

Overdue: The percentage of students reported as being overdue for one or more immunizations (Tables 1 and 3) decreased from 1.2% in 2017-2018 to 1.1% in 2018-2019 (Table 1, Figure 6). In public schools the number of students reported as overdue decreased from 6,375 (1.2%) to 5,448 (1.1%) (Figure 7). For private schools the number of students reported as overdue increased from 545 (1.3%) to 635 (1.5%) (Figure 8).

Combined categories: Kindergarteners who are required to receive all mandated vaccines are reported in three categories: having received all required vaccines; conditional entrants; and being overdue for required doses. The kindergarteners who were reported in the sum of these three categories decreased by 0.6 percentage points from 98.2% in 2017-2018 to 97.6% in 2018-2019.

Conversely the sum of kindergarteners reported as not having to receive all required immunizations in elementary school because of PMEs; PBEs; or for other criteria specified in SB 277, increased by 0.6 percentage points from 1.8% in 2017-2018 to 2.4% in 2018-2019; the combined rate for public schools increased from 1.7% to 2.3% and for private schools increased from 2.6% to 2.8%. Over time the combined rate has been 3.3% in 2013-2014, 2.5% in 2015-2016, 1.5% in 2016-2017, and 2.4% in 2018-2019.

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## Discussion

Reported immunization rates remain at high levels but have decreased over the last two school years. Compared to 2017-2018, the proportion of students reported to enter kindergarten in California in 2018-2019 after receiving all required immunizations decreased by 0.3 percentage points to 94.8%, following an increase by 5.2 percentage points to 95.6% between the two school years from 2014-2015 to 2016-2017. The 2018-2019 rate of 94.8% is the third highest reported to CDPH since the 2001-2002 school year, when varicella vaccine became the most recent addition to the immunizations required for kindergarteners. The numbers of kindergarteners (555,735) and public schools (6,068) whose status was reported in 2018-2019 remain at amongst the highest levels since the 2001-2002 school year.

The proportion of conditional entrants decreased by 0.1 percentage point in 2018-2019 after a decrease of 5.1 percentage points in the three school years between 2014-2015 and 2017-2018. The current reported rate of conditional entrants, 1.7%, is the lowest reported for the current panel of required immunizations in place since the 2001-2002 school year.

Since 2015, local health departments and CDPH have intensified efforts to educate school staff on the proper use of conditional admission criteria based on the [Conditional Admission Immunization Schedule](#). In addition, state-mandated annual financial and compliance audits of local education agencies for the 2015-2016 and 2016-2017 school years inspected reimbursement for attendance at schools with higher rates of conditional admission. It is likely that these measures to promote compliance have contributed to the decreases in students reported as conditional entrants. These changes might also be attributable to an increased awareness of the risks of vaccine-preventable diseases and benefits of immunization, triggered in part by the measles outbreak that began in December 2014<sup>1</sup>.

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<sup>1</sup> [https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s\\_cid=mm6406a5\\_w](https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6406a5.htm?s_cid=mm6406a5_w)

It is possible that children who in previous school years would have been inaccurately categorized as conditional entrants represent some of the 1.1% of entrants reported as overdue in 2018-2019. Continued efforts to educate schools and support immunization services might further reduce the number of children who in future years are categorized either as conditional entrants or overdue; in sum these categories account for 2.8% of kindergarteners reported in 2018-2019, compared to 3.0% reported in 2017-2018.

The proportion of children reported in other categories of exemptions increased in 2018-2019, as 1.5% lacked required immunizations under other criteria introduced in SB 277. Most of these children were reported as being enrolled in independent study programs, representing an increase of 0.4 percentage points from 2017-2018. Another 0.9% were reported as having PME, an increase of 0.1% from 2017-2018. In sum, 2.4% of entrants were reported as not having had required immunizations because of P, P, or other criteria related to SB 277, compared to 1.8% in 2017-2018. Over the recent period of multiple changes in policies and laws in California; the combined rate has been 3.3% in 2013-2014, 2.6% in 2015-2016, 1.5% in 2016-2017, and 2.4% in 2018-2019. Future assessments will continue to monitor these categories.

Children in schools and communities with lower immunization rates remain at higher risk of contracting and transmitting vaccine preventable diseases. In both the 2017-2018 and 2018-2019 school years, nine (16%) of 58 counties in California have had rates of kindergarteners with all required vaccines that are below 90% (Figure 9). 17 (29%) counties, compared to 14 (24%) in 2016-2017 and 31 (53%) in 2015-2016, report fewer than 95% of their kindergarteners as having had two doses of MMR (Table 11, Figure 10), an approximate threshold necessary to prevent the transmission of measles. In addition, recent changes to California's school immunization laws did not apply to earlier cohorts of children who are no longer of school age. Unimmunized older children and adults were amongst those who caught measles during recent outbreaks in California. For these individuals, decisions that were made in previous decades to not immunize have had lingering consequences for themselves and their communities.

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## Limitations

This report is subject to limitations that include:

- 236 California elementary schools, including 217 private schools and 19 public schools, did not report their immunization data; in the absence of reporting, CDPH does not know how many of them enrolled kindergarteners this year or the immunization status of their kindergarteners.
- As in previous years, private home schools that did not register with the California Department of Education may not have reported data to CDPH, which would result in continued underestimates of their enrollment.
- Nineteen schools, including at least two virtual schools, that registered with the California Department of Education as being public schools, and which appear to enroll both public and private students, reported 75 students as attending home-based private schools. In this report these students are classified as attending public schools. Any misclassification of enrollment between public and private schools, or between independent study and home-based schools, has not affected the total of students in the category of other students lacking immunization, but has affected its subcategories.

- Part of the relative improvements in the completion rates of specific immunization series starting in the 2016-2017 school year may have been due to the inclusion in reporting of doses received by partially immunized children who had PBEs or PME to other required immunizations. In reporting to CDPH during prior school years, doses received by children with exemptions were not included in completion rates for any specific vaccine. This may have resulted in underestimates of completion rates for specific vaccines in prior years and overestimates of their increases between recent and prior years. The magnitude of the resultant increase to the rate of any immunization series in 2018-2019 resulting from this change in reporting could be no greater than 2.4%, the total of students reported in categories as not having to receive all required immunizations (PMEs or other criteria specified in SB 277). This reporting change should not have affected rates, or changes in rates, for the category of having received all required vaccines.
- The timing of immunization is often not included in the assessment criteria; if doses were given at inappropriate ages or intervals, the reported rates may overestimate levels of immunity.
- It is possible that some immunization records provided to schools have been incomplete. The presence of incomplete records would underestimate immunization coverage. Any improvements over time in completion of records since the time of reporting would increase estimates of coverage.
- Changes over time in the quality of reporting by schools are another potential explanation for changes in immunization rates.

*For further information, please contact CDPH Immunization Branch at [SchoolAssessments@cdph.ca.gov](mailto:SchoolAssessments@cdph.ca.gov).*

*For media inquiries, please contact CDPH Office of Public Affairs via e-mail [cdppress@cdph.ca.gov](mailto:cdppress@cdph.ca.gov) or phone 916-440-7259.*

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Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2013-2014 to 2018-2019

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Table 10. Number and Percentage of Students with Overdue Status in 2018-2019 and 2017-2018, and 1-Year Percentage Point Change, by County

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

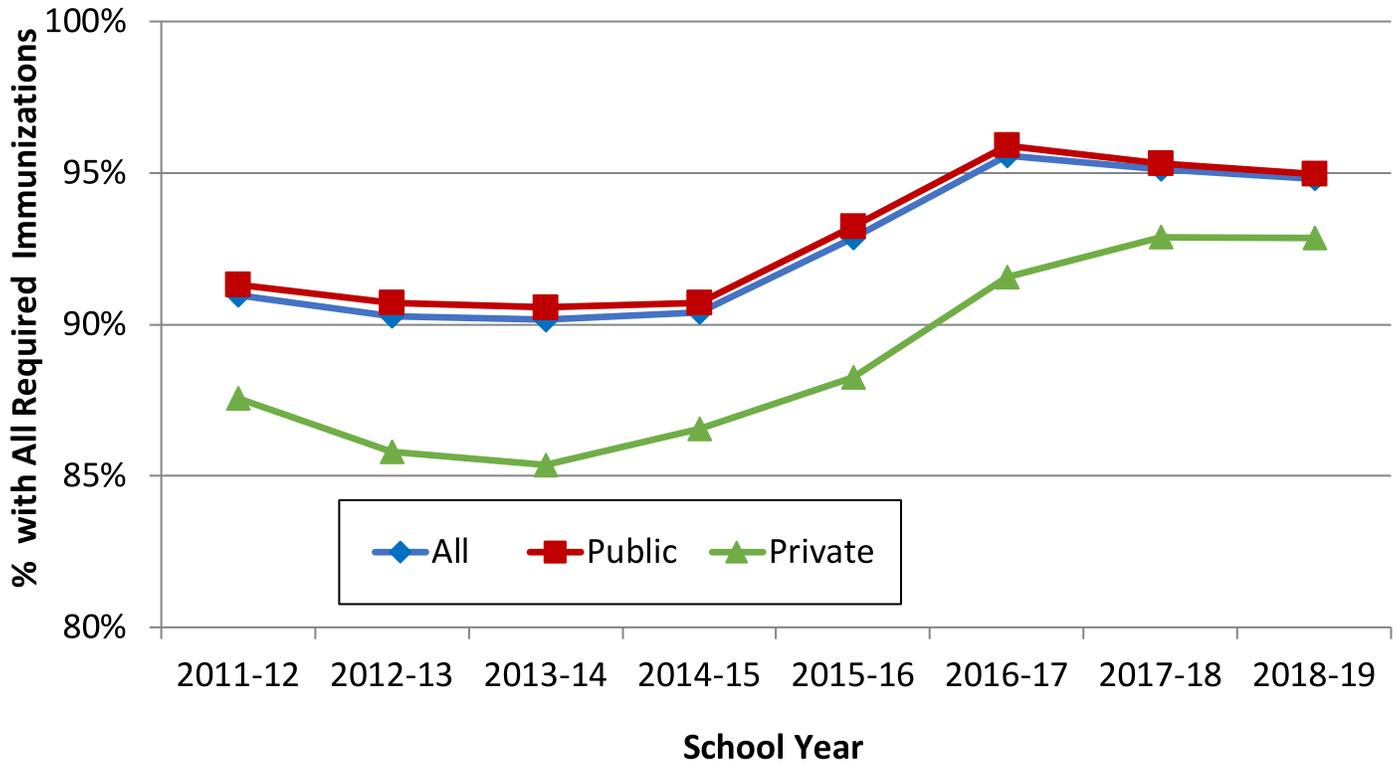


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2011-2012 to 2018-2019

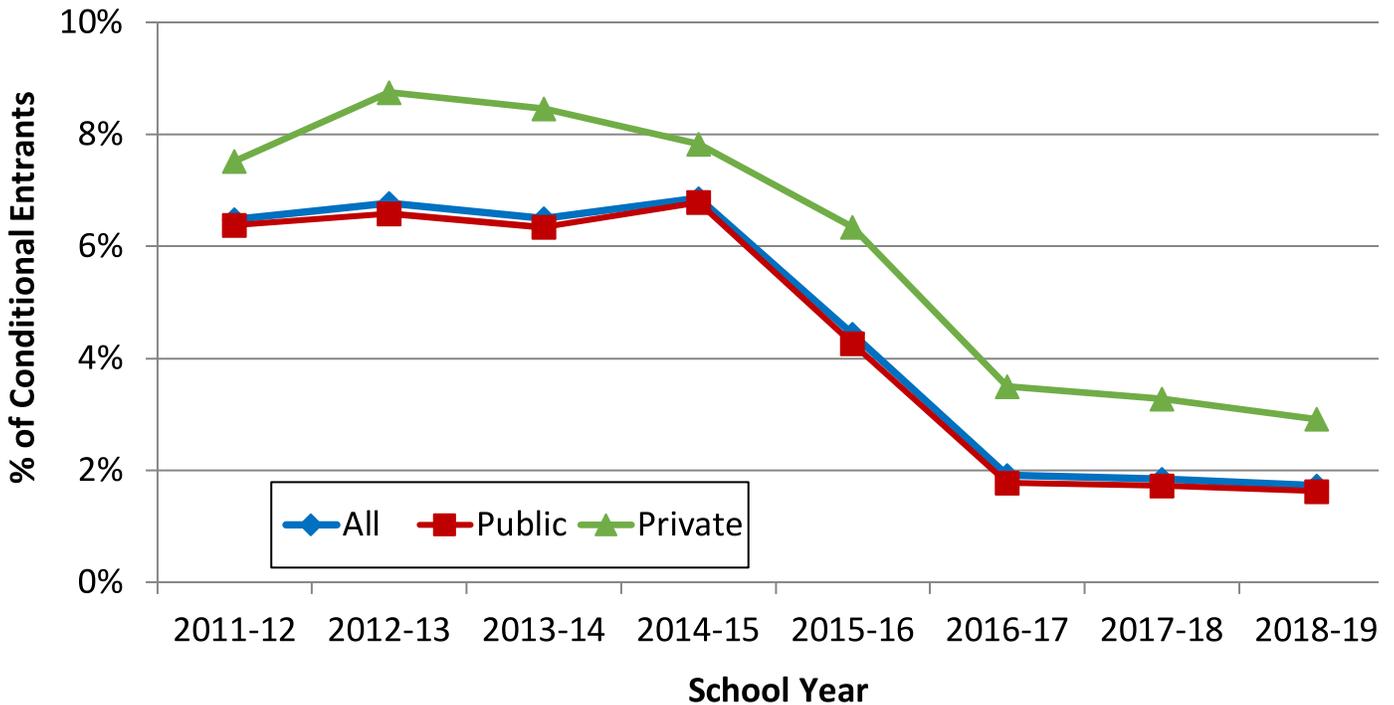


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2011-2012 to 2018-2019

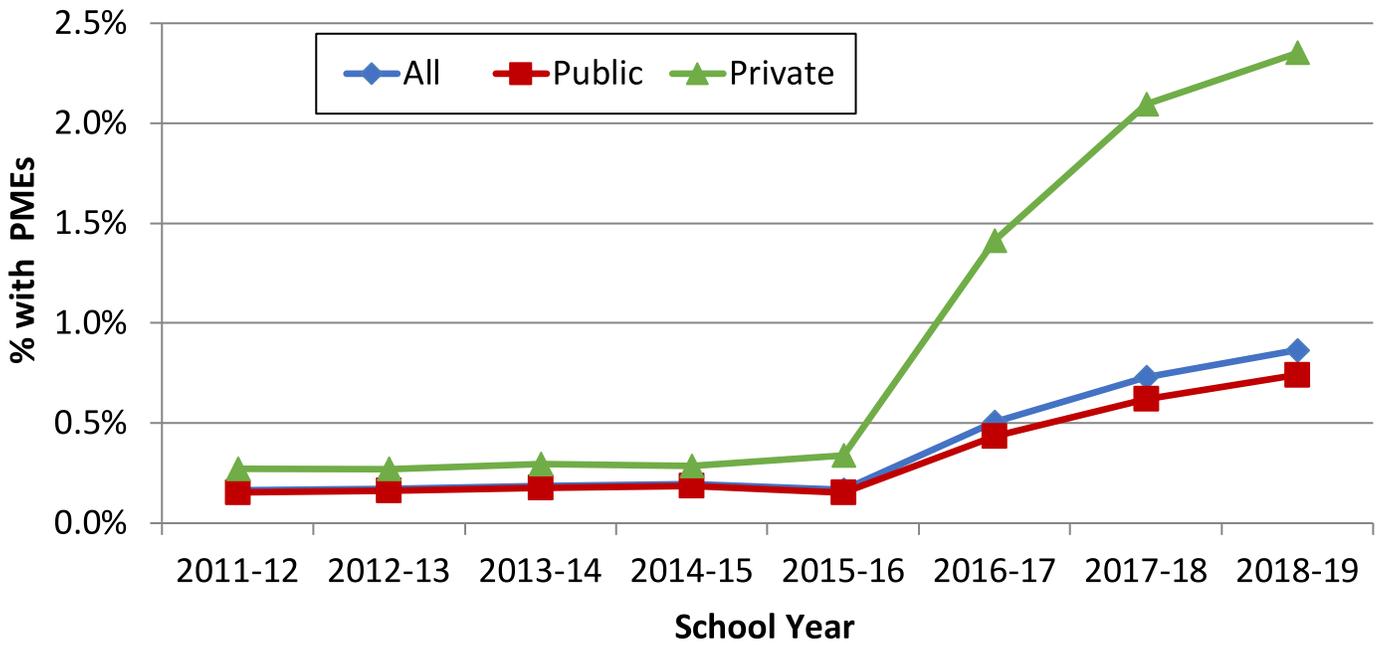


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2011-2012 to 2018-2019

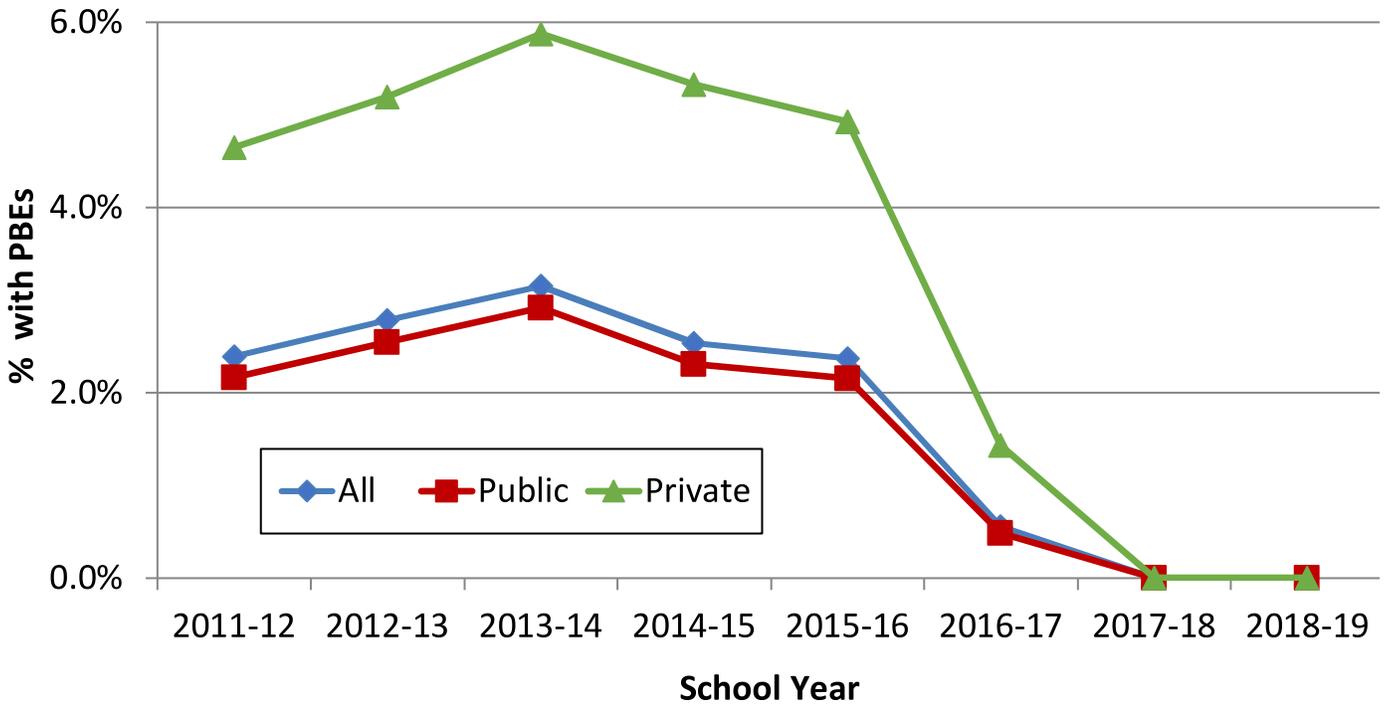


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2011-2012 to 2017-2018

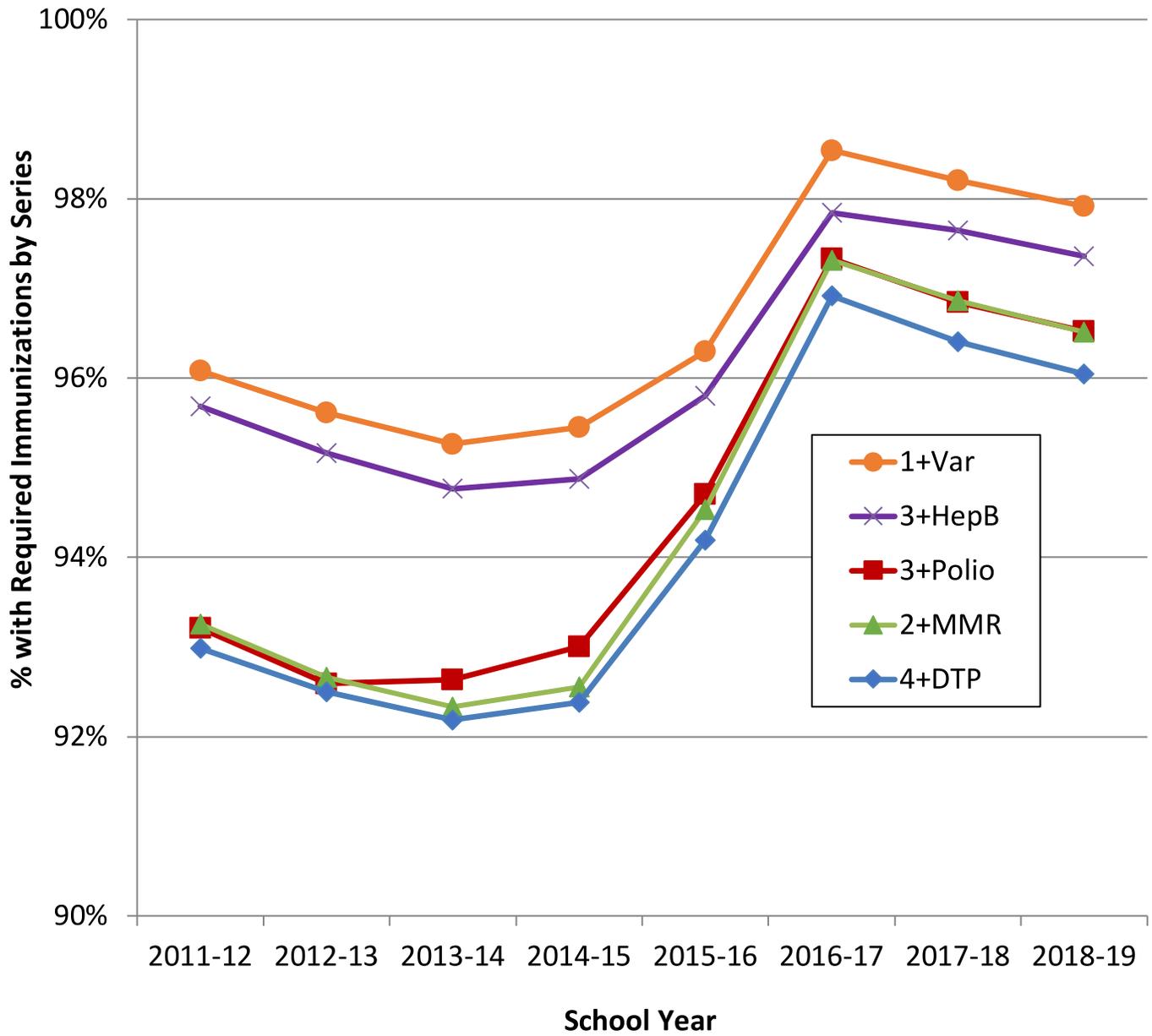
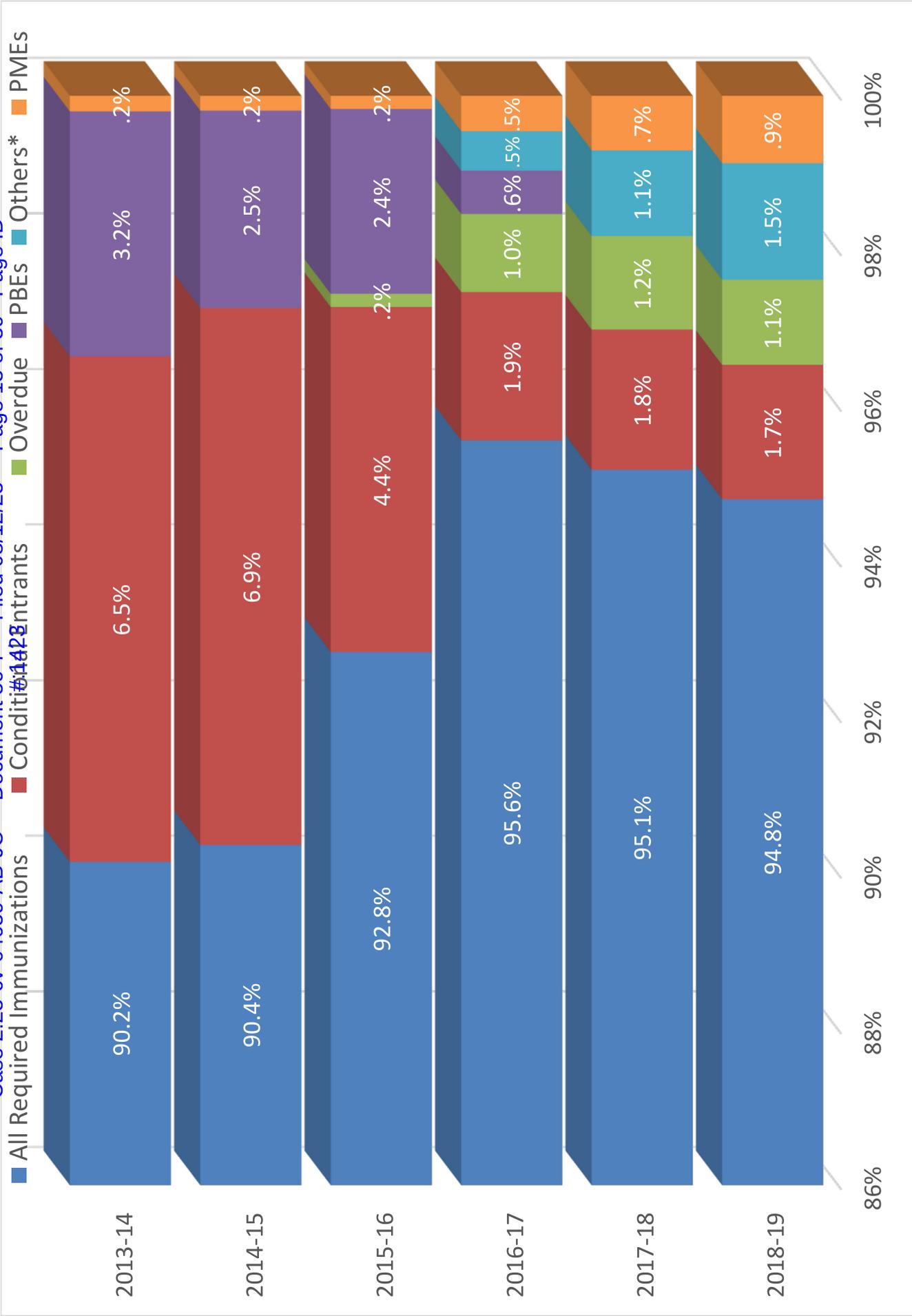
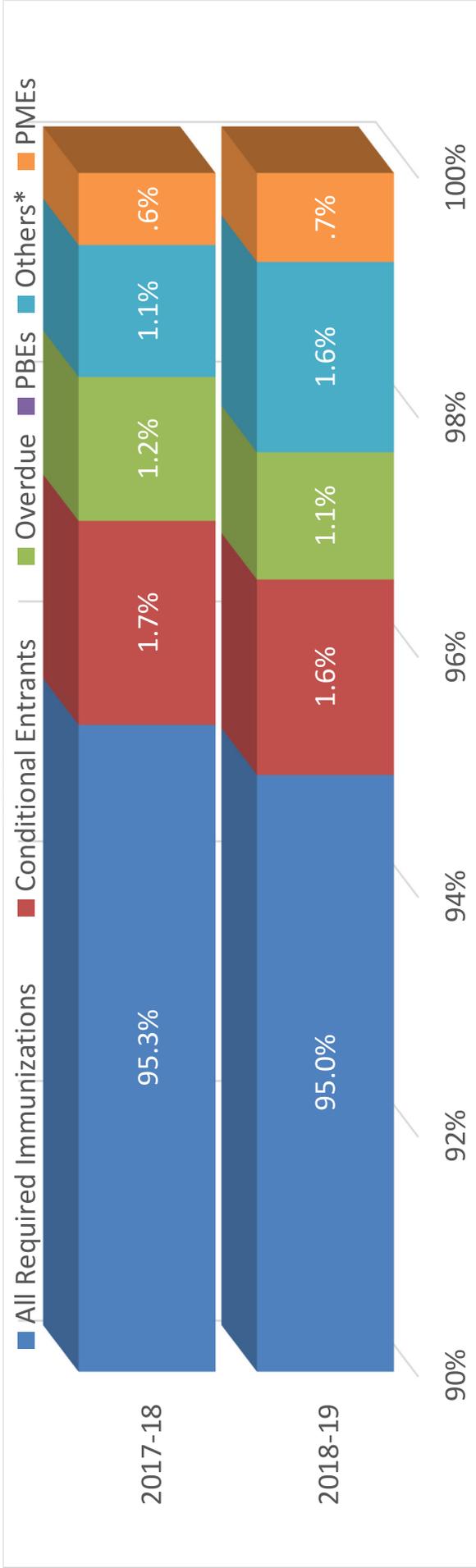


Figure 5. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2011-2012 to 2018-2019



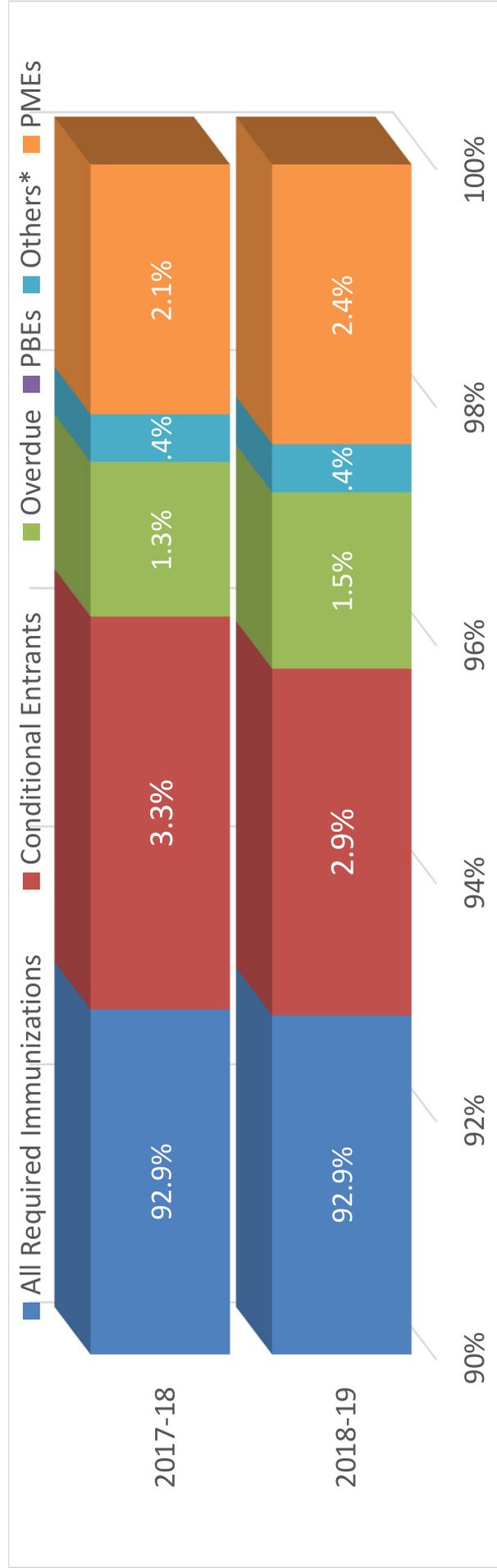
\*Other children lacking required immunizations under criteria specified in SB 277.

**Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2013-2014 to 2018-2019.** In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. Since the 2016-2017 school year, entrants have been subject to SB 277.



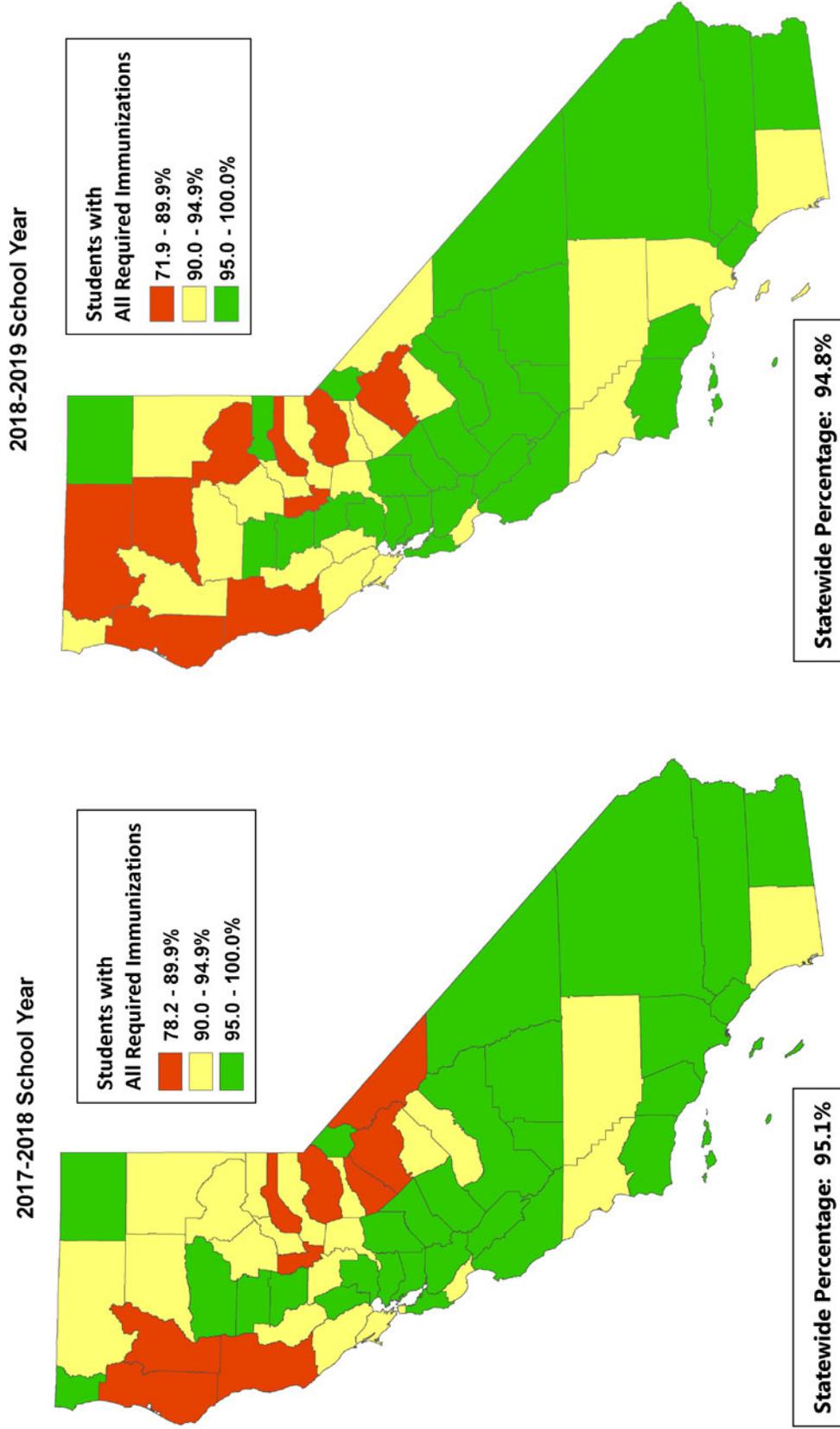
\*Other children lacking required immunizations under criteria specified in SB 277.

**Figure 7. Percentage of Public School Kindergarten Students by Reported Admission Status by School Year, 2017-2018 and 2018-2019**



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

**Figure 8. Percentage of Private School Kindergarten Students by Reported Admission Status by School Year, 2017-2018 and 2018-2019**



**Figure 9. Kindergarten Students with All Required Immunizations, by County, 2017-2018 and 2018-2019 School Years**  
See pages 3 and 4 for additional information.

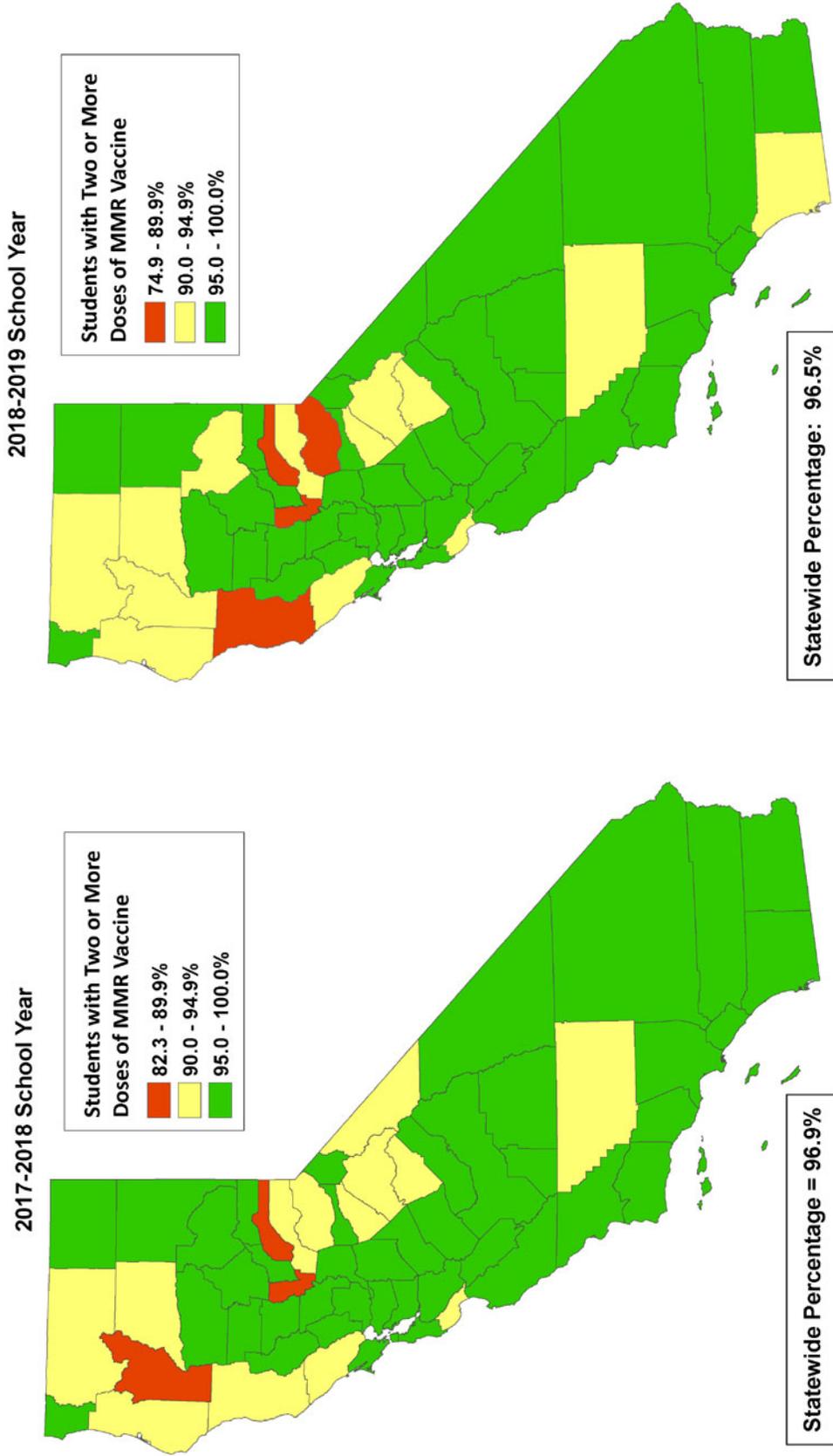


Figure 10. Kindergarten Students with Two or More Doses of MMR Vaccine, by County, 2017-2018 and 2018-2019 School Years

**Table 1: Kindergarten Immunization Assessment Summary, 2017-2018 and 2018-2019 School Years**

	2018-2019			2017-2018			1-Year Percentage Point Change*		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Kindergarten Students	7,964	6,068	1,896	7,957	6,074	1,883			
Number of Kindergarten Students	555,735	512,908	42,827	564,121	522,082	42,039			
All Required Immunizations	94.8%	95.0%	92.9%	95.1%	95.3%	92.9%	-0.3%	-0.3%	0.0%
Conditional Entrants	1.7%	1.6%	2.9%	1.8%	1.7%	3.3%	-0.1%	-0.1%	-0.4%
Permanent Medical Exemptions	0.9%	0.7%	2.4%	0.7%	0.6%	2.1%	0.1%	0.1%	0.3%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking Immunizations†	1.5%	1.6%	0.4%	1.1%	1.1%	0.4%	0.4%	0.5%	0.0%
Overdue^	1.1%	1.1%	1.5%	1.2%	1.2%	1.3%	-0.1%	-0.2%	0.2%
4+ DTP	96.0%	96.1%	94.8%	96.4%	96.5%	95.0%	-0.4%	-0.4%	-0.2%
3+ Polio	96.5%	96.7%	94.8%	96.8%	97.0%	95.0%	-0.3%	-0.3%	-0.2%
2+ MMR	96.5%	96.6%	95.0%	96.9%	97.0%	95.0%	-0.4%	-0.4%	0.0%
3+ Hep B	97.4%	97.5%	96.3%	97.6%	97.8%	96.2%	-0.3%	-0.3%	0.1%
1+ Var (or physician-documented disease)	97.9%	98.0%	96.5%	98.2%	98.3%	96.7%	-0.3%	-0.3%	-0.1%

\* 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.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,200	7,964	97.1%	6,087	6,068	99.7%	2,113	1,896	89.7%
COUNTY									
ALAMEDA	331	321	97.0%	225	225	100.0%	106	96	90.6%
ALPINE	1	1	100.0%	1	1	100.0%	0	0	0.0%
AMADOR	8	8	100.0%	7	7	100.0%	1	1	100.0%
BUTTE	59	59	100.0%	49	49	100.0%	10	10	100.0%
CALAVERAS	13	11	84.6%	11	11	100.0%	2	0	0.0%
COLUSA	6	6	100.0%	5	5	100.0%	1	1	100.0%
CONTRA COSTA	227	223	98.2%	164	164	100.0%	63	59	93.7%
DEL NORTE	10	10	100.0%	10	10	100.0%	0	0	0.0%
EL DORADO	46	46	100.0%	37	37	100.0%	9	9	100.0%
FRESNO	230	230	100.0%	204	204	100.0%	26	26	100.0%
GLENN	13	13	100.0%	11	11	100.0%	2	2	100.0%
HUMBOLDT	56	56	100.0%	51	51	100.0%	5	5	100.0%
IMPERIAL	44	44	100.0%	37	37	100.0%	7	7	100.0%
INYO	6	6	100.0%	6	6	100.0%	0	0	0.0%
KERN	192	188	97.9%	162	162	100.0%	30	26	86.7%
KINGS	38	37	97.4%	32	32	100.0%	6	5	83.3%
LAKE	16	16	100.0%	14	14	100.0%	2	2	100.0%
LASSEN	12	12	100.0%	12	12	100.0%	0	0	0.0%
LOS ANGELES	2,001	1,828	91.4%	1,330	1,316	98.9%	671	512	76.3%
MADERA	38	37	97.4%	36	35	97.2%	2	2	100.0%
MARIN	71	71	100.0%	46	46	100.0%	25	25	100.0%
MARIPOSA	9	9	100.0%	9	9	100.0%	0	0	0.0%
MENDOCINO	33	32	97.0%	27	27	100.0%	6	5	83.3%
MERCED	64	63	98.4%	54	54	100.0%	10	9	90.0%
MODOC	5	5	100.0%	4	4	100.0%	1	1	100.0%
MONO	6	6	100.0%	5	5	100.0%	1	1	100.0%
MONTEREY	96	96	100.0%	83	83	100.0%	13	13	100.0%
NAPA	35	35	100.0%	22	22	100.0%	13	13	100.0%
NEVADA	26	26	100.0%	22	22	100.0%	4	4	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 2: NUMBER AND PERCENTAGE OF SCHOOLS REPORTING,  
 BY COUNTY AND TYPE

	ALL			PUBLIC			PRIVATE		
	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING	NUMBER OF SCHOOLS	NUMBER REPORTING	PERCENT REPORTING
STATE TOTAL	8,200	7,964	97.1%	6,087	6,068	99.7%	2,113	1,896	89.7%
COUNTY									
ORANGE	611	611	100.0%	409	409	100.0%	202	202	100.0%
PLACER	94	93	98.9%	82	81	98.8%	12	12	100.0%
PLUMAS	8	7	87.5%	5	5	100.0%	3	2	66.7%
RIVERSIDE	397	395	99.5%	301	301	100.0%	96	94	97.9%
SACRAMENTO	305	304	99.7%	241	241	100.0%	64	63	98.4%
SAN BENITO	20	18	90.0%	16	15	93.8%	4	3	75.0%
SAN BERNARDINO	431	428	99.3%	352	352	100.0%	79	76	96.2%
SAN DIEGO	618	618	100.0%	481	481	100.0%	137	137	100.0%
SAN FRANCISCO	149	149	100.0%	78	78	100.0%	71	71	100.0%
SAN JOAQUIN	183	183	100.0%	161	161	100.0%	22	22	100.0%
SAN LUIS OBISPO	63	62	98.4%	46	46	100.0%	17	16	94.1%
SAN MATEO	166	166	100.0%	113	113	100.0%	53	53	100.0%
SANTA BARBARA	106	105	99.1%	81	80	98.8%	25	25	100.0%
SANTA CLARA	383	383	100.0%	260	260	100.0%	123	123	100.0%
SANTA CRUZ	67	64	95.5%	46	46	100.0%	21	18	85.7%
SHASTA	64	60	93.8%	49	49	100.0%	15	11	73.3%
SIERRA	2	2	100.0%	2	2	100.0%	0	0	0.0%
SISKIYOU	29	29	100.0%	25	25	100.0%	4	4	100.0%
SOLANO	81	76	93.8%	61	61	100.0%	20	15	75.0%
SONOMA	129	126	97.7%	108	107	99.1%	21	19	90.5%
STANISLAUS	133	125	94.0%	113	113	100.0%	20	12	60.0%
SUTTER	34	34	100.0%	31	31	100.0%	3	3	100.0%
TEHAMA	25	24	96.0%	23	23	100.0%	2	1	50.0%
TRINITY	9	8	88.9%	8	8	100.0%	1	0	0.0%
TULARE	123	121	98.4%	111	111	100.0%	12	10	83.3%
TUOLUMNE	17	17	100.0%	12	12	100.0%	5	5	100.0%
VENTURA	188	188	100.0%	136	136	100.0%	52	52	100.0%
YOLO	46	46	100.0%	35	35	100.0%	11	11	100.0%
YUBA	27	27	100.0%	25	25	100.0%	2	2	100.0%

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735	94.8%	526,923	94.8%	9,599	1.7%	4,812	0.9%	8,318	1.5%	6,083	1.1%
COUNTY												
ALAMEDA	21,818	96.6%	21,078	96.6%	231	1.1%	132	0.6%	41	0.2%	336	1.5%
ALPINE	10	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*	<20*	--*
AMADOR	279	91.8%	256	91.8%	11	3.9%	3	1.1%	8	2.9%	1	0.4%
BUTTE	2,822	94.2%	2,657	94.2%	73	2.6%	34	1.2%	46	1.6%	12	0.4%
CALAVERAS	437	90.2%	394	90.2%	14	3.2%	12	2.7%	17	3.9%	0	0.0%
COLUSA	360	97.5%	351	97.5%	9	2.5%	0	0.0%	0	0.0%	0	0.0%
CONTRA COSTA	15,192	96.4%	14,644	96.4%	247	1.6%	132	0.9%	40	0.3%	129	0.8%
DEL NORTE	382	94.2%	360	94.2%	7	1.8%	4	1.0%	8	2.1%	3	0.8%
EL DORADO	2,453	87.8%	2,153	87.8%	78	3.2%	93	3.8%	126	5.1%	3	0.1%
FRESNO	18,758	96.6%	18,113	96.6%	256	1.4%	52	0.3%	237	1.3%	100	0.5%
GLENN	540	96.3%	520	96.3%	5	0.9%	3	0.6%	0	0.0%	12	2.2%
HUMBOLDT	1,708	88.2%	1,507	88.2%	53	3.1%	99	5.8%	24	1.4%	25	1.5%
IMPERIAL	3,134	97.3%	3,049	97.3%	58	1.9%	6	0.2%	10	0.3%	11	0.4%
INYO	231	95.7%	221	95.7%	10	4.3%	0	0.0%	0	0.0%	0	0.0%
KERN	18,110	91.1%	16,495	91.1%	474	2.6%	57	0.3%	996	5.5%	88	0.5%
KINGS	2,686	97.5%	2,620	97.5%	45	1.7%	5	0.2%	2	0.1%	14	0.5%
LAKE	848	92.3%	783	92.3%	43	5.1%	12	1.4%	1	0.1%	9	1.1%
LASSEN	385	94.3%	363	94.3%	10	2.6%	3	0.8%	9	2.3%	0	0.0%
LOS ANGELES	136,039	94.5%	128,618	94.5%	2,252	1.7%	783	0.6%	1,746	1.3%	2,640	1.9%
MADERA	2,762	95.5%	2,637	95.5%	36	1.3%	12	0.4%	37	1.3%	40	1.4%
MARIN	3,170	94.3%	2,989	94.3%	85	2.7%	82	2.6%	6	0.2%	8	0.3%
MARIPOSA	156	91.0%	142	91.0%	10	6.4%	2	1.3%	2	1.3%	0	0.0%
MENDOCINO	1,204	85.0%	1,024	85.0%	27	2.2%	50	4.2%	6	0.5%	97	8.1%
MERCED	5,240	97.5%	5,109	97.5%	83	1.6%	8	0.2%	18	0.3%	22	0.4%
MODOC	111	99.1%	110	99.1%	0	0.0%	0	0.0%	0	0.0%	1	0.9%
MONO	150	90.7%	136	90.7%	6	4.0%	4	2.7%	0	0.0%	4	2.7%
MONTEREY	6,926	97.5%	6,750	97.5%	81	1.2%	52	0.8%	3	0.0%	40	0.6%
NAPA	1,429	94.5%	1,350	94.5%	42	2.9%	25	1.7%	7	0.5%	5	0.3%
NEVADA	990	80.3%	795	80.3%	43	4.3%	105	10.6%	46	4.6%	1	0.1%

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

<sup>^</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 3: TOTAL ENROLLMENT AND ADMISSION STATUS,  
 BY COUNTY

	TOTAL STUDENTS		STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE <sup>^</sup>	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735	94.8%	526,923	1.7%	9,599	1.7%	4,812	0.9%	8,318	1.5%	6,083	1.1%
COUNTY												
ORANGE	41,734	95.7%	39,951	1.8%	741	1.8%	456	1.1%	310	0.7%	276	0.7%
PLACER	6,470	91.7%	5,936	2.9%	190	2.9%	155	2.4%	57	0.9%	132	2.0%
PLUMAS	210	86.2%	181	7.1%	15	7.1%	8	3.8%	6	2.9%	0	0.0%
RIVERSIDE	35,422	96.3%	34,104	1.7%	598	1.7%	232	0.7%	194	0.5%	294	0.8%
SACRAMENTO	21,501	93.4%	20,087	2.5%	527	2.5%	309	1.4%	395	1.8%	183	0.9%
SAN BENITO	1,052	97.0%	1,020	1.3%	14	1.3%	2	0.2%	0	0.0%	16	1.5%
SAN BERNARDINO	33,920	95.1%	32,266	1.9%	660	1.9%	147	0.4%	559	1.6%	288	0.8%
SAN DIEGO	46,256	92.5%	42,807	1.7%	770	1.7%	599	1.3%	1,843	4.0%	237	0.5%
SAN FRANCISCO	6,840	95.7%	6,547	1.0%	71	1.0%	46	0.7%	0	0.0%	176	2.6%
SAN JOAQUIN	12,410	96.7%	12,005	1.4%	176	1.4%	26	0.2%	154	1.2%	49	0.4%
SAN LUIS OBISPO	3,012	94.7%	2,852	1.8%	54	1.8%	68	2.3%	25	0.8%	13	0.4%
SAN MATEO	9,275	96.6%	8,958	1.1%	105	1.1%	49	0.5%	4	0.0%	159	1.7%
SANTA BARBARA	6,273	96.7%	6,069	1.2%	78	1.2%	72	1.1%	44	0.7%	10	0.2%
SANTA CLARA	25,505	97.3%	24,817	1.0%	258	1.0%	129	0.5%	45	0.2%	256	1.0%
SANTA CRUZ	3,579	90.9%	3,252	1.8%	66	1.8%	97	2.7%	144	4.0%	20	0.6%
SHASTA	2,466	87.8%	2,165	3.7%	91	3.7%	75	3.0%	87	3.5%	48	1.9%
SIERRA	36	97.2%	35	0.0%	0	0.0%	0	0.0%	1	2.8%	0	0.0%
SISKIYOU	561	88.9%	499	3.2%	18	3.2%	8	1.4%	28	5.0%	8	1.4%
SOLANO	5,933	97.5%	5,786	1.7%	103	1.7%	22	0.4%	12	0.2%	10	0.2%
SONOMA	6,343	91.3%	5,793	2.4%	152	2.4%	213	3.4%	98	1.5%	87	1.4%
STANISLAUS	9,346	95.9%	8,959	1.7%	162	1.7%	66	0.7%	106	1.1%	53	0.6%
SUTTER	2,310	71.9%	1,660	0.6%	14	0.6%	28	1.2%	588	25.5%	20	0.9%
TEHAMA	983	93.9%	923	3.0%	29	3.0%	8	0.8%	15	1.5%	8	0.8%
TRINITY	124	91.1%	113	3.2%	4	3.2%	4	3.2%	1	0.8%	2	1.6%
TULARE	9,105	98.1%	8,936	1.1%	98	1.1%	22	0.2%	35	0.4%	14	0.2%
TUOLUMNE	614	87.5%	537	3.9%	24	3.9%	20	3.3%	16	2.6%	17	2.8%
VENTURA	11,814	96.1%	11,353	1.5%	179	1.5%	140	1.2%	86	0.7%	56	0.5%
YOLO	2,907	95.6%	2,779	2.9%	83	2.9%	35	1.2%	7	0.2%	3	0.1%
YUBA	1,404	92.5%	1,299	2.1%	30	2.1%	6	0.4%	22	1.6%	47	3.3%

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

<sup>^</sup> Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2018-2019 AND 2017-2018,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS NUMBER	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS PERCENT	STUDENTS WITH PME PERCENT		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
			PERCENT	PERCENT		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2018-19	555,735	94.8%	1.7%	0.9%	1.5%	1.1%	1.1%	1.1%	1.1%	1.1%
	2017-18	564,121	95.1%	1.8%	0.7%	1.1%	1.1%	1.1%	1.1%	1.2%	1.2%
ALAMEDA	2018-19	21,818	96.6%	1.1%	0.6%	0.2%	0.2%	0.2%	0.2%	1.5%	1.5%
	2017-18	22,307	97.1%	1.2%	0.4%	0.2%	0.2%	0.2%	0.2%	1.1%	1.1%
ALPINE	2018-19	10	--*	--*	--*	--*	--*	--*	--*	--*	--*
	2017-18	6	--*	--*	--*	--*	--*	--*	--*	--*	--*
AMADOR	2018-19	279	91.8%	3.9%	1.1%	2.9%	2.9%	2.9%	2.9%	0.4%	0.4%
	2017-18	376	91.8%	4.5%	1.6%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
BUTTE	2018-19	2,822	94.2%	2.6%	1.2%	1.6%	1.6%	1.6%	1.6%	0.4%	0.4%
	2017-18	2,899	94.5%	2.5%	1.0%	1.7%	1.7%	1.7%	1.7%	0.3%	0.3%
CALAVERAS	2018-19	437	90.2%	3.2%	2.7%	3.9%	3.9%	3.9%	3.9%	0.0%	0.0%
	2017-18	464	88.1%	5.6%	2.8%	3.2%	3.2%	3.2%	3.2%	0.2%	0.2%
COLUSA	2018-19	360	97.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2017-18	414	98.6%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%
CONTRA COSTA	2018-19	15,192	96.4%	1.6%	0.9%	0.3%	0.3%	0.3%	0.3%	0.8%	0.8%
	2017-18	15,292	96.3%	1.9%	0.5%	0.3%	0.3%	0.3%	0.3%	1.0%	1.0%
DEL NORTE	2018-19	382	94.2%	1.8%	1.0%	2.1%	2.1%	2.1%	2.1%	0.8%	0.8%
	2017-18	368	97.8%	1.6%	0.3%	0.3%	0.3%	0.3%	0.3%	0.0%	0.0%
EL DORADO	2018-19	2,453	87.8%	3.2%	3.8%	5.1%	5.1%	5.1%	5.1%	0.1%	0.1%
	2017-18	2,360	89.6%	3.6%	2.0%	4.8%	4.8%	4.8%	4.8%	0.0%	0.0%
FRESNO	2018-19	18,758	96.6%	1.4%	0.3%	1.3%	1.3%	1.3%	1.3%	0.5%	0.5%
	2017-18	18,573	96.1%	1.4%	0.2%	1.0%	1.0%	1.0%	1.0%	1.4%	1.4%
GLENN	2018-19	540	96.3%	0.9%	0.6%	0.0%	0.0%	0.0%	0.0%	2.2%	2.2%
	2017-18	510	98.4%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%
HUMBOLDT	2018-19	1,708	88.2%	3.1%	5.8%	1.4%	1.4%	1.4%	1.4%	1.5%	1.5%
	2017-18	1,762	88.4%	3.0%	4.9%	3.0%	3.0%	3.0%	3.0%	0.8%	0.8%
IMPERIAL	2018-19	3,134	97.3%	1.9%	0.2%	0.3%	0.3%	0.3%	0.3%	0.4%	0.4%
	2017-18	3,362	97.8%	0.7%	0.2%	0.2%	0.2%	0.2%	0.2%	1.1%	1.1%
INYO	2018-19	231	95.7%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	2017-18	221	98.2%	0.9%	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%
KERN	2018-19	18,110	91.1%	2.6%	0.3%	5.5%	5.5%	5.5%	5.5%	0.5%	0.5%
	2017-18	17,580	92.5%	1.9%	0.4%	0.4%	0.4%	0.4%	0.4%	4.7%	4.7%

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

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KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2018-2019 AND 2017-2018,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS NUMBER	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONS†		OVERDUE^	
			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2018-19	555,735	94.8%	1.7%	0.9%	1.5%	1.1%					
	2017-18	564,121	95.1%	1.8%	0.7%	1.1%	1.2%					
KINGS	2018-19	2,686	97.5%	1.7%	0.2%	0.1%	0.5%					
	2017-18	2,678	97.7%	1.8%	0.1%	0.0%	0.4%					
LAKE	2018-19	848	92.3%	5.1%	1.4%	0.1%	1.1%					
	2017-18	850	93.9%	3.9%	1.2%	0.7%	0.4%					
LASSEN	2018-19	385	94.3%	2.6%	0.8%	2.3%	0.0%					
	2017-18	326	94.8%	3.7%	1.2%	0.3%	0.0%					
LOS ANGELES	2018-19	136,039	94.5%	1.7%	0.6%	1.3%	1.9%					
	2017-18	140,822	95.0%	1.7%	0.5%	1.1%	1.7%					
MADERA	2018-19	2,762	95.5%	1.3%	0.4%	1.3%	1.4%					
	2017-18	2,778	94.6%	1.5%	0.4%	1.2%	2.2%					
MARIN	2018-19	3,170	94.3%	2.7%	2.6%	0.2%	0.3%					
	2017-18	3,259	94.0%	3.3%	2.1%	0.1%	0.4%					
MARIPOSA	2018-19	156	91.0%	6.4%	1.3%	1.3%	0.0%					
	2017-18	150	90.0%	4.7%	1.3%	2.0%	2.0%					
MENDOCINO	2018-19	1,204	85.0%	2.2%	4.2%	0.5%	8.1%					
	2017-18	1,305	86.8%	4.0%	2.5%	0.5%	6.2%					
MERCED	2018-19	5,240	97.5%	1.6%	0.2%	0.3%	0.4%					
	2017-18	5,421	96.6%	1.5%	0.3%	0.6%	0.9%					
MODOC	2018-19	111	99.1%	0.0%	0.0%	0.0%	0.9%					
	2017-18	115	98.3%	0.9%	0.9%	0.0%	0.0%					
MONO	2018-19	150	90.7%	4.0%	2.7%	0.0%	2.7%					
	2017-18	166	89.8%	5.4%	4.2%	0.0%	0.6%					
MONTEREY	2018-19	6,926	97.5%	1.2%	0.8%	0.0%	0.6%					
	2017-18	7,161	96.9%	1.5%	0.7%	0.1%	0.8%					
NAPA	2018-19	1,429	94.5%	2.9%	1.7%	0.5%	0.3%					
	2017-18	1,768	95.0%	2.4%	1.8%	0.3%	0.5%					
NEVADA	2018-19	990	80.3%	4.3%	10.6%	4.6%	0.1%					
	2017-18	913	81.7%	4.3%	7.7%	6.0%	0.3%					
ORANGE	2018-19	41,734	95.7%	1.8%	1.1%	0.7%	0.7%					
	2017-18	42,375	95.7%	2.2%	0.9%	0.6%	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.

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KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2018-2019 AND 2017-2018,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS NUMBER	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATIONST		OVERDUE^	
			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2018-19	555,735	94.8%	1.7%	0.9%	1.5%	1.1%					
	2017-18	564,121	95.1%	1.8%	0.7%	1.1%	1.2%					
PLACER	2018-19	6,470	91.7%	2.9%	2.4%	0.9%	2.0%					
	2017-18	6,296	92.3%	3.5%	2.0%	1.4%	0.7%					
PLUMAS	2018-19	210	86.2%	7.1%	3.8%	2.9%	0.0%					
	2017-18	193	91.2%	2.1%	4.7%	1.6%	0.5%					
RIVERSIDE	2018-19	35,422	96.3%	1.7%	0.7%	0.5%	0.8%					
	2017-18	35,453	96.5%	1.6%	0.6%	0.4%	0.9%					
SACRAMENTO	2018-19	21,501	93.4%	2.5%	1.4%	1.8%	0.9%					
	2017-18	21,508	93.5%	2.9%	1.1%	1.6%	0.9%					
SAN BENITO	2018-19	1,052	97.0%	1.3%	0.2%	0.0%	1.5%					
	2017-18	1,019	98.3%	0.9%	0.8%	0.0%	0.0%					
SAN BERNARDINO	2018-19	33,920	95.1%	1.9%	0.4%	1.6%	0.8%					
	2017-18	33,825	96.5%	1.7%	0.3%	0.9%	0.7%					
SAN DIEGO	2018-19	46,256	92.5%	1.7%	1.3%	4.0%	0.5%					
	2017-18	47,174	93.2%	1.9%	1.2%	3.0%	0.7%					
SAN FRANCISCO	2018-19	6,840	95.7%	1.0%	0.7%	0.0%	2.6%					
	2017-18	6,701	94.9%	1.8%	0.7%	0.0%	2.7%					
SAN JOAQUIN	2018-19	12,410	96.7%	1.4%	0.2%	1.2%	0.4%					
	2017-18	12,582	96.3%	1.4%	0.3%	0.8%	1.1%					
SAN LUIS OBISPO	2018-19	3,012	94.7%	1.8%	2.3%	0.8%	0.4%					
	2017-18	3,074	94.8%	2.5%	1.5%	0.6%	0.6%					
SAN MATEO	2018-19	9,275	96.6%	1.1%	0.5%	0.0%	1.7%					
	2017-18	9,361	96.9%	1.2%	0.5%	0.1%	1.3%					
SANTA BARBARA	2018-19	6,273	96.7%	1.2%	1.1%	0.7%	0.2%					
	2017-18	6,632	96.5%	1.5%	1.0%	0.7%	0.3%					
SANTA CLARA	2018-19	25,505	97.3%	1.0%	0.5%	0.2%	1.0%					
	2017-18	26,410	96.7%	1.2%	0.5%	0.1%	1.5%					
SANTA CRUZ	2018-19	3,579	90.9%	1.8%	2.7%	4.0%	0.6%					
	2017-18	3,565	90.4%	2.2%	2.7%	4.1%	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 one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 4: TOTAL ENROLLMENT AND ADMISSION STATUS, 2018-2019 AND 2017-2018,  
 BY COUNTY

	SCHOOL YEAR	TOTAL STUDENTS NUMBER	STUDENTS WITH ALL REQUIRED IMMUNIZATIONS		CONDITIONAL ENTRANTS		STUDENTS WITH PME		OTHERS LACKING REQUIRED IMMUNIZATION <sup>†</sup>		OVERDUE <sup>^</sup>	
			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
STATE TOTAL	2018-19	555,735	94.8%	1.7%	0.9%	1.5%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
	2017-18	564,121	95.1%	1.8%	0.7%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.2%
SHASTA	2018-19	2,466	87.8%	3.7%	3.0%	3.5%	3.5%	3.5%	3.5%	3.5%	1.9%	1.9%
	2017-18	2,526	90.1%	5.1%	1.8%	2.7%	2.7%	2.7%	2.7%	2.7%	0.3%	0.3%
SIERRA	2018-19	36	97.2%	0.0%	0.0%	2.8%	2.8%	2.8%	2.8%	2.8%	0.0%	0.0%
	2017-18	39	94.9%	2.6%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SISKIYOU	2018-19	561	88.9%	3.2%	1.4%	5.0%	5.0%	5.0%	5.0%	5.0%	1.4%	1.4%
	2017-18	564	90.2%	3.4%	1.1%	3.9%	3.9%	3.9%	3.9%	3.9%	1.4%	1.4%
SOLANO	2018-19	5,933	97.5%	1.7%	0.4%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
	2017-18	5,534	97.6%	1.7%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	0.3%	0.3%
SONOMA	2018-19	6,343	91.3%	2.4%	3.4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.4%	1.4%
	2017-18	6,645	91.8%	2.6%	2.7%	1.8%	1.8%	1.8%	1.8%	1.8%	1.2%	1.2%
STANISLAUS	2018-19	9,346	95.9%	1.7%	0.7%	1.1%	1.1%	1.1%	1.1%	1.1%	0.6%	0.6%
	2017-18	8,858	96.0%	2.1%	0.7%	0.3%	0.3%	0.3%	0.3%	0.3%	0.9%	0.9%
SUTTER	2018-19	2,310	71.9%	0.6%	1.2%	25.5%	25.5%	25.5%	25.5%	25.5%	0.9%	0.9%
	2017-18	2,152	78.2%	0.9%	0.5%	19.8%	19.8%	19.8%	19.8%	19.8%	0.6%	0.6%
TEHAMA	2018-19	983	93.9%	3.0%	0.8%	1.5%	1.5%	1.5%	1.5%	1.5%	0.8%	0.8%
	2017-18	1,033	95.7%	2.4%	0.7%	0.8%	0.8%	0.8%	0.8%	0.8%	0.4%	0.4%
TRINITY	2018-19	124	91.1%	3.2%	3.2%	0.8%	0.8%	0.8%	0.8%	0.8%	1.6%	1.6%
	2017-18	71	84.5%	4.2%	7.0%	2.8%	2.8%	2.8%	2.8%	2.8%	1.4%	1.4%
TULARE	2018-19	9,105	98.1%	1.1%	0.2%	0.4%	0.4%	0.4%	0.4%	0.4%	0.2%	0.2%
	2017-18	9,450	98.3%	0.9%	0.2%	0.4%	0.4%	0.4%	0.4%	0.4%	0.2%	0.2%
TUOLUMNE	2018-19	614	87.5%	3.9%	3.3%	2.6%	2.6%	2.6%	2.6%	2.6%	2.8%	2.8%
	2017-18	620	86.5%	6.6%	1.1%	2.4%	2.4%	2.4%	2.4%	2.4%	3.4%	3.4%
VENTURA	2018-19	11,814	96.1%	1.5%	1.2%	0.7%	0.7%	0.7%	0.7%	0.7%	0.5%	0.5%
	2017-18	12,056	95.9%	1.7%	1.0%	0.8%	0.8%	0.8%	0.8%	0.8%	0.6%	0.6%
YOLO	2018-19	2,907	95.6%	2.9%	1.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%
	2017-18	2,779	94.5%	4.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.4%	0.4%
YUBA	2018-19	1,404	92.5%	2.1%	0.4%	1.6%	1.6%	1.6%	1.6%	1.6%	3.3%	3.3%
	2017-18	1,420	92.0%	2.5%	0.1%	1.7%	1.7%	1.7%	1.7%	1.7%	3.7%	3.7%

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
	STATE TOTAL	555,735	526,923	94.8%	564,121	536,642	95.1%	-0.3%
COUNTY								
ALAMEDA	21,818	21,078	96.6%	22,307	21,671	97.1%	-0.5%	-593
ALPINE	10	<20*	--*	6	<20*	--*	--*	--*
AMADOR	279	256	91.8%	376	345	91.8%	0.0%	-89
BUTTE	2,822	2,657	94.2%	2,899	2,739	94.5%	-0.3%	-82
CALAVERAS	437	394	90.2%	464	409	88.1%	2.0%	-15
COLUSA	360	351	97.5%	414	408	98.6%	-1.1%	-57
CONTRA COSTA	15,192	14,644	96.4%	15,292	14,728	96.3%	0.1%	-84
DEL NORTE	382	360	94.2%	368	360	97.8%	-3.6%	0
EL DORADO	2,453	2,153	87.8%	2,360	2,114	89.6%	-1.8%	39
FRESNO	18,758	18,113	96.6%	18,573	17,845	96.1%	0.5%	268
GLENN	540	520	96.3%	510	502	98.4%	-2.1%	18
HUMBOLDT	1,708	1,507	88.2%	1,762	1,557	88.4%	-0.1%	-50
IMPERIAL	3,134	3,049	97.3%	3,362	3,287	97.8%	-0.5%	-238
INYO	231	221	95.7%	221	217	98.2%	-2.5%	4
KERN	18,110	16,495	91.1%	17,580	16,267	92.5%	-1.4%	228
KINGS	2,686	2,620	97.5%	2,678	2,616	97.7%	-0.1%	4
LAKE	848	783	92.3%	850	798	93.9%	-1.5%	-15
LASSEN	385	363	94.3%	326	309	94.8%	-0.5%	54
LOS ANGELES	136,039	128,618	94.5%	140,822	133,718	95.0%	-0.4%	-5,100
MADERA	2,762	2,637	95.5%	2,778	2,629	94.6%	0.8%	8
MARIN	3,170	2,989	94.3%	3,259	3,064	94.0%	0.3%	-75
MARIPOSA	156	142	91.0%	150	135	90.0%	1.0%	7
MENDOCINO	1,204	1,024	85.0%	1,305	1,133	86.8%	-1.8%	-109
MERCED	5,240	5,109	97.5%	5,421	5,239	96.6%	0.9%	-130
MODOC	111	110	99.1%	115	113	98.3%	0.8%	-3
MONO	150	136	90.7%	166	149	89.8%	0.9%	-13
MONTEREY	6,926	6,750	97.5%	7,161	6,939	96.9%	0.6%	-189
NAPA	1,429	1,350	94.5%	1,768	1,680	95.0%	-0.6%	-330
NEVADA	990	795	80.3%	913	746	81.7%	-1.4%	49

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 5: NUMBER AND PERCENTAGE OF STUDENTS WITH ALL REQUIRED IMMUNIZATIONS IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	TOTAL STUDENTS	NUMBER WITH ALL REQUIRED IMMUNIZATIONS	PERCENT	PERCENT	NUMBER WITH ALL REQUIRED IMMUNIZATIONS
STATE TOTAL	555,735	526,923	94.8%	564,121	536,642	95.1%	-0.3%	-9,719
COUNTY								
ORANGE	41,734	39,951	95.7%	42,375	40,537	95.7%	0.1%	-586
PLACER	6,470	5,936	91.7%	6,296	5,814	92.3%	-0.6%	122
PLUMAS	210	181	86.2%	193	176	91.2%	-5.0%	5
RIVERSIDE	35,422	34,104	96.3%	35,453	34,206	96.5%	-0.2%	-102
SACRAMENTO	21,501	20,087	93.4%	21,508	20,101	93.5%	0.0%	-14
SAN BENITO	1,052	1,020	97.0%	1,019	1,002	98.3%	-1.4%	18
SAN BERNARDINO	33,920	32,266	95.1%	33,825	32,638	96.5%	-1.4%	-372
SAN DIEGO	46,256	42,807	92.5%	47,174	43,967	93.2%	-0.7%	-1,160
SAN FRANCISCO	6,840	6,547	95.7%	6,701	6,356	94.9%	0.9%	191
SAN JOAQUIN	12,410	12,005	96.7%	12,582	12,118	96.3%	0.4%	-113
SAN LUIS OBISPO	3,012	2,852	94.7%	3,074	2,913	94.8%	-0.1%	-61
SAN MATEO	9,275	8,958	96.6%	9,361	9,073	96.9%	-0.3%	-115
SANTA BARBARA	6,273	6,069	96.7%	6,632	6,402	96.5%	0.2%	-333
SANTA CLARA	25,505	24,817	97.3%	26,410	25,529	96.7%	0.6%	-712
SANTA CRUZ	3,579	3,252	90.9%	3,565	3,223	90.4%	0.5%	29
SHASTA	2,466	2,165	87.8%	2,526	2,276	90.1%	-2.3%	-111
SIERRA	36	35	97.2%	39	37	94.9%	2.4%	-2
SISKIYOU	561	499	88.9%	564	509	90.2%	-1.3%	-10
SOLANO	5,933	5,786	97.5%	5,534	5,400	97.6%	-0.1%	386
SONOMA	6,343	5,793	91.3%	6,645	6,097	91.8%	-0.4%	-304
STANISLAUS	9,346	8,959	95.9%	8,858	8,503	96.0%	-0.1%	456
SUTTER	2,310	1,660	71.9%	2,152	1,682	78.2%	-6.3%	-22
TEHAMA	983	923	93.9%	1,033	989	95.7%	-1.8%	-66
TRINITY	124	113	91.1%	71	60	84.5%	6.6%	53
TULARE	9,105	8,936	98.1%	9,450	9,286	98.3%	-0.1%	-350
TUOLUMNE	614	537	87.5%	620	536	86.5%	1.0%	1
VENTURA	11,814	11,353	96.1%	12,056	11,557	95.9%	0.2%	-204
YOLO	2,907	2,779	95.6%	2,779	2,626	94.5%	1.1%	153
YUBA	1,404	1,299	92.5%	1,420	1,306	92.0%	0.5%	-7

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	555,735	9,599	1.7%	564,121	10,371	1.8%	-0.1%	-772
COUNTY								
ALAMEDA	21,818	231	1.1%	22,307	259	1.2%	-0.1%	-28
ALPINE	10	<20*	--*	6	<20*	--*	--*	--*
AMADOR	279	11	3.9%	376	17	4.5%	-0.6%	-6
BUTTE	2,822	73	2.6%	2,899	72	2.5%	0.1%	1
CALAVERAS	437	14	3.2%	464	26	5.6%	-2.4%	-12
COLUSA	360	9	2.5%	414	4	1.0%	1.5%	5
CONTRA COSTA	15,192	247	1.6%	15,292	297	1.9%	-0.3%	-50
DEL NORTE	382	7	1.8%	368	6	1.6%	0.2%	1
EL DORADO	2,453	78	3.2%	2,360	85	3.6%	-0.4%	-7
FRESNO	18,758	256	1.4%	18,573	254	1.4%	0.0%	2
GLENN	540	5	0.9%	510	3	0.6%	0.3%	2
HUMBOLDT	1,708	53	3.1%	1,762	53	3.0%	0.1%	0
IMPERIAL	3,134	58	1.9%	3,362	24	0.7%	1.1%	34
INYO	231	10	4.3%	221	2	0.9%	3.4%	8
KERN	18,110	474	2.6%	17,580	338	1.9%	0.7%	136
KINGS	2,686	45	1.7%	2,678	48	1.8%	-0.1%	-3
LAKE	848	43	5.1%	850	33	3.9%	1.2%	10
LASSEN	385	10	2.6%	326	12	3.7%	-1.1%	-2
LOS ANGELES	136,039	2,252	1.7%	140,822	2,390	1.7%	0.0%	-138
MADERA	2,762	36	1.3%	2,778	42	1.5%	-0.2%	-6
MARIN	3,170	85	2.7%	3,259	109	3.3%	-0.7%	-24
MARIPOSA	156	10	6.4%	150	7	4.7%	1.7%	3
MENDOCINO	1,204	27	2.2%	1,305	52	4.0%	-1.7%	-25
MERCED	5,240	83	1.6%	5,421	84	1.5%	0.0%	-1
MODOC	111	0	0.0%	115	1	0.9%	-0.9%	-1
MONO	150	6	4.0%	166	9	5.4%	-1.4%	-3
MONTEREY	6,926	81	1.2%	7,161	108	1.5%	-0.3%	-27
NAPA	1,429	42	2.9%	1,768	42	2.4%	0.6%	0
NEVADA	990	43	4.3%	913	39	4.3%	0.1%	4

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 6: NUMBER AND PERCENTAGE OF CONDITIONAL ENTRANTS IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL	CONDITIONAL ENTRANTS	PERCENT	TOTAL	CONDITIONAL ENTRANTS	PERCENT	PERCENT	CONDITIONAL ENTRANTS
STATE TOTAL	555,735	9,599	1.7%	564,121	10,371	1.8%	-0.1%	-772
COUNTY								
ORANGE	41,734	741	1.8%	42,375	948	2.2%	-0.5%	-207
PLACER	6,470	190	2.9%	6,296	220	3.5%	-0.6%	-30
PLUMAS	210	15	7.1%	193	4	2.1%	5.1%	11
RIVERSIDE	35,422	598	1.7%	35,453	569	1.6%	0.1%	29
SACRAMENTO	21,501	527	2.5%	21,508	631	2.9%	-0.5%	-104
SAN BENITO	1,052	14	1.3%	1,019	9	0.9%	0.4%	5
SAN BERNARDINO	33,920	660	1.9%	33,825	560	1.7%	0.3%	100
SAN DIEGO	46,256	770	1.7%	47,174	899	1.9%	-0.2%	-129
SAN FRANCISCO	6,840	71	1.0%	6,701	119	1.8%	-0.7%	-48
SAN JOAQUIN	12,410	176	1.4%	12,582	179	1.4%	0.0%	-3
SAN LUIS OBISPO	3,012	54	1.8%	3,074	78	2.5%	-0.7%	-24
SAN MATEO	9,275	105	1.1%	9,361	116	1.2%	-0.1%	-11
SANTA BARBARA	6,273	78	1.2%	6,632	101	1.5%	-0.3%	-23
SANTA CLARA	25,505	258	1.0%	26,410	322	1.2%	-0.2%	-64
SANTA CRUZ	3,579	66	1.8%	3,565	79	2.2%	-0.4%	-13
SHASTA	2,466	91	3.7%	2,526	130	5.1%	-1.5%	-39
SIERRA	36	0	0.0%	39	1	2.6%	-2.6%	-1
SISKIYOU	561	18	3.2%	564	19	3.4%	-0.2%	-1
SOLANO	5,933	103	1.7%	5,534	92	1.7%	0.1%	11
SONOMA	6,343	152	2.4%	6,645	171	2.6%	-0.2%	-19
STANISLAUS	9,346	162	1.7%	8,858	182	2.1%	-0.3%	-20
SUTTER	2,310	14	0.6%	2,152	20	0.9%	-0.3%	-6
TEHAMA	983	29	3.0%	1,033	25	2.4%	0.5%	4
TRINITY	124	4	3.2%	71	3	4.2%	-1.0%	1
TULARE	9,105	98	1.1%	9,450	84	0.9%	0.2%	14
TUOLUMNE	614	24	3.9%	620	41	6.6%	-2.7%	-17
VENTURA	11,814	179	1.5%	12,056	206	1.7%	-0.2%	-27
YOLO	2,907	83	2.9%	2,779	111	4.0%	-1.1%	-28
YUBA	1,404	30	2.1%	1,420	36	2.5%	-0.4%	-6

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	555,735	4,812	0.9%	564,121	4,116	0.7%	0.7%	0.1%	696
COUNTY									
ALAMEDA	21,818	132	0.6%	22,307	97	0.4%	0.4%	0.2%	35
ALPINE	10	<20*	--*	6	<20*	--*	--*	--*	--*
AMADOR	279	3	1.1%	376	6	1.6%	1.6%	-0.5%	-3
BUTTE	2,822	34	1.2%	2,899	30	1.0%	1.0%	0.2%	4
CALAVERAS	437	12	2.7%	464	13	2.8%	2.8%	-0.1%	-1
COLUSA	360	0	0.0%	414	0	0.0%	0.0%	0.0%	0
CONTRA COSTA	15,192	132	0.9%	15,292	73	0.5%	0.5%	0.4%	59
DEL NORTE	382	4	1.0%	368	1	0.3%	0.3%	0.8%	3
EL DORADO	2,453	93	3.8%	2,360	47	2.0%	2.0%	1.8%	46
FRESNO	18,758	52	0.3%	18,573	44	0.2%	0.2%	0.0%	8
GLENN	540	3	0.6%	510	2	0.4%	0.4%	0.2%	1
HUMBOLDT	1,708	99	5.8%	1,762	86	4.9%	4.9%	0.9%	13
IMPERIAL	3,134	6	0.2%	3,362	6	0.2%	0.2%	0.0%	0
INYO	231	0	0.0%	221	1	0.5%	0.5%	-0.5%	-1
KERN	18,110	57	0.3%	17,580	69	0.4%	0.4%	-0.1%	-12
KINGS	2,686	5	0.2%	2,678	3	0.1%	0.1%	0.1%	2
LAKE	848	12	1.4%	850	10	1.2%	1.2%	0.2%	2
LASSEN	385	3	0.8%	326	4	1.2%	1.2%	-0.4%	-1
LOS ANGELES	136,039	783	0.6%	140,822	711	0.5%	0.5%	0.1%	72
MADERA	2,762	12	0.4%	2,778	12	0.4%	0.4%	0.0%	0
MARIN	3,170	82	2.6%	3,259	68	2.1%	2.1%	0.5%	14
MARIPOSA	156	2	1.3%	150	2	1.3%	1.3%	-0.1%	0
MENDOCINO	1,204	50	4.2%	1,305	32	2.5%	2.5%	1.7%	18
MERCED	5,240	8	0.2%	5,421	15	0.3%	0.3%	-0.1%	-7
MODOC	111	0	0.0%	115	1	0.9%	0.9%	-0.9%	-1
MONO	150	4	2.7%	166	7	4.2%	4.2%	-1.6%	-3
MONTEREY	6,926	52	0.8%	7,161	50	0.7%	0.7%	0.1%	2
NAPA	1,429	25	1.7%	1,768	31	1.8%	1.8%	0.0%	-6
NEVADA	990	105	10.6%	913	70	7.7%	7.7%	2.9%	35

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 7: NUMBER AND PERCENTAGE OF STUDENTS WITH A PERMANENT MEDICAL EXEMPTION (PME) IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE		
	TOTAL STUDENTS	PME	PERCENT	TOTAL STUDENTS	PME	PERCENT	PERCENT	PERCENT	NUMBER PME
STATE TOTAL	555,735	4,812	0.9%	564,121	4,116	0.7%	0.7%	0.1%	696
COUNTY									
ORANGE	41,734	456	1.1%	42,375	384	0.9%	0.9%	0.2%	72
PLACER	6,470	155	2.4%	6,296	127	2.0%	2.0%	0.4%	28
PLUMAS	210	8	3.8%	193	9	4.7%	4.7%	-0.9%	-1
RIVERSIDE	35,422	232	0.7%	35,453	208	0.6%	0.6%	0.1%	24
SACRAMENTO	21,501	309	1.4%	21,508	235	1.1%	1.1%	0.3%	74
SAN BENITO	1,052	2	0.2%	1,019	8	0.8%	0.8%	-0.6%	-6
SAN BERNARDINO	33,920	147	0.4%	33,825	91	0.3%	0.3%	0.2%	56
SAN DIEGO	46,256	599	1.3%	47,174	576	1.2%	1.2%	0.1%	23
SAN FRANCISCO	6,840	46	0.7%	6,701	48	0.7%	0.7%	0.0%	-2
SAN JOAQUIN	12,410	26	0.2%	12,582	41	0.3%	0.3%	-0.1%	-15
SAN LUIS OBISPO	3,012	68	2.3%	3,074	46	1.5%	1.5%	0.8%	22
SAN MATEO	9,275	49	0.5%	9,361	44	0.5%	0.5%	0.1%	5
SANTA BARBARA	6,273	72	1.1%	6,632	66	1.0%	1.0%	0.2%	6
SANTA CLARA	25,505	129	0.5%	26,410	129	0.5%	0.5%	0.0%	0
SANTA CRUZ	3,579	97	2.7%	3,565	95	2.7%	2.7%	0.0%	2
SHASTA	2,466	75	3.0%	2,526	46	1.8%	1.8%	1.2%	29
SIERRA	36	0	0.0%	39	1	2.6%	2.6%	-2.6%	-1
SISKIYOU	561	8	1.4%	564	6	1.1%	1.1%	0.4%	2
SOLANO	5,933	22	0.4%	5,534	17	0.3%	0.3%	0.1%	5
SONOMA	6,343	213	3.4%	6,645	182	2.7%	2.7%	0.6%	31
STANISLAUS	9,346	66	0.7%	8,858	64	0.7%	0.7%	0.0%	2
SUTTER	2,310	28	1.2%	2,152	11	0.5%	0.5%	0.7%	17
TEHAMA	983	8	0.8%	1,033	7	0.7%	0.7%	0.1%	1
TRINITY	124	4	3.2%	71	5	7.0%	7.0%	-3.8%	-1
TULARE	9,105	22	0.2%	9,450	21	0.2%	0.2%	0.0%	1
TUOLUMNE	614	20	3.3%	620	7	1.1%	1.1%	2.1%	13
VENTURA	11,814	140	1.2%	12,056	120	1.0%	1.0%	0.2%	20
YOLO	2,907	35	1.2%	2,779	29	1.0%	1.0%	0.2%	6
YUBA	1,404	6	0.4%	1,420	2	0.1%	0.1%	0.3%	4

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 8: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING IMMUNIZATIONS†	PERCENT	TOTAL STUDENTS	OTHERS LACKING IMMUNIZATIONS†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATION‡
STATE TOTAL	555,735	8,318	1.5%	564,121	6,072	1.1%	0.4%	2,246
COUNTY								
ALAMEDA	21,818	41	0.2%	22,307	35	0.2%	0.0%	6
ALPINE	10	<20*	--*	6	<20*	--*	--*	--*
AMADOR	279	8	2.9%	376	4	1.1%	1.8%	4
BUTTE	2,822	46	1.6%	2,899	49	1.7%	-0.1%	-3
CALAVERAS	437	17	3.9%	464	15	3.2%	0.7%	2
COLUSA	360	0	0.0%	414	0	0.0%	0.0%	0
CONTRA COSTA	15,192	40	0.3%	15,292	42	0.3%	0.0%	-2
DEL NORTE	382	8	2.1%	368	1	0.3%	1.8%	7
EL DORADO	2,453	126	5.1%	2,360	113	4.8%	0.3%	13
FRESNO	18,758	237	1.3%	18,573	178	1.0%	0.3%	59
GLENN	540	0	0.0%	510	0	0.0%	0.0%	0
HUMBOLDT	1,708	24	1.4%	1,762	52	3.0%	-1.5%	-28
IMPERIAL	3,134	10	0.3%	3,362	8	0.2%	0.1%	2
INYO	231	0	0.0%	221	0	0.0%	0.0%	0
KERN	18,110	996	5.5%	17,580	77	0.4%	5.1%	919
KINGS	2,686	2	0.1%	2,678	0	0.0%	0.1%	2
LAKE	848	1	0.1%	850	6	0.7%	-0.6%	-5
LASSEN	385	9	2.3%	326	1	0.3%	2.0%	8
LOS ANGELES	136,039	1,746	1.3%	140,822	1,601	1.1%	0.1%	145
MADERA	2,762	37	1.3%	2,778	34	1.2%	0.1%	3
MARIN	3,170	6	0.2%	3,259	4	0.1%	0.1%	2
MARIPOSA	156	2	1.3%	150	3	2.0%	-0.7%	-1
MENDOCINO	1,204	6	0.5%	1,305	7	0.5%	0.0%	-1
MERCED	5,240	18	0.3%	5,421	33	0.6%	-0.3%	-15
MODOC	111	0	0.0%	115	0	0.0%	0.0%	0
MONO	150	0	0.0%	166	0	0.0%	0.0%	0
MONTEREY	6,926	3	0.0%	7,161	7	0.1%	-0.1%	-4
NAPA	1,429	7	0.5%	1,768	6	0.3%	0.2%	1
NEVADA	990	46	4.6%	913	55	6.0%	-1.4%	-9

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 8: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONST IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST†	PERCENT	TOTAL STUDENTS	OTHERS LACKING REQUIRED IMMUNIZATIONST†	PERCENT	PERCENT	OTHERS LACKING REQUIRED IMMUNIZATIONST
STATE TOTAL	555,735	8,318	1.5%	564,121	6,072	1.1%	0.4%	2,246
COUNTY								
ORANGE	41,734	310	0.7%	42,375	235	0.6%	0.2%	75
PLACER	6,470	57	0.9%	6,296	89	1.4%	-0.5%	-32
PLUMAS	210	6	2.9%	193	3	1.6%	1.3%	3
RIVERSIDE	35,422	194	0.5%	35,453	146	0.4%	0.1%	48
SACRAMENTO	21,501	395	1.8%	21,508	343	1.6%	0.2%	52
SAN BENITO	1,052	0	0.0%	1,019	0	0.0%	0.0%	0
SAN BERNARDINO	33,920	559	1.6%	33,825	311	0.9%	0.7%	248
SAN DIEGO	46,256	1,843	4.0%	47,174	1,401	3.0%	1.0%	442
SAN FRANCISCO	6,840	0	0.0%	6,701	0	0.0%	0.0%	0
SAN JOAQUIN	12,410	154	1.2%	12,582	106	0.8%	0.4%	48
SAN LUIS OBISPO	3,012	25	0.8%	3,074	18	0.6%	0.2%	7
SAN MATEO	9,275	4	0.0%	9,361	8	0.1%	0.0%	-4
SANTA BARBARA	6,273	44	0.7%	6,632	44	0.7%	0.0%	0
SANTA CLARA	25,505	45	0.2%	26,410	33	0.1%	0.1%	12
SANTA CRUZ	3,579	144	4.0%	3,565	145	4.1%	0.0%	-1
SHASTA	2,466	87	3.5%	2,526	67	2.7%	0.9%	20
SIERRA	36	1	2.8%	39	0	0.0%	2.8%	1
SISKIYOU	561	28	5.0%	564	22	3.9%	1.1%	6
SOLANO	5,933	12	0.2%	5,534	7	0.1%	0.1%	5
SONOMA	6,343	98	1.5%	6,645	117	1.8%	-0.2%	-19
STANISLAUS	9,346	106	1.1%	8,858	29	0.3%	0.8%	77
SUTTER	2,310	588	25.5%	2,152	426	19.8%	5.7%	162
TEHAMA	983	15	1.5%	1,033	8	0.8%	0.8%	7
TRINITY	124	1	0.8%	71	2	2.8%	-2.0%	-1
TULARE	9,105	35	0.4%	9,450	39	0.4%	0.0%	-4
TUOLUMNE	614	16	2.6%	620	15	2.4%	0.2%	1
VENTURA	11,814	86	0.7%	12,056	101	0.8%	-0.1%	-15
YOLO	2,907	7	0.2%	2,779	2	0.1%	0.2%	5
YUBA	1,404	22	1.6%	1,420	24	1.7%	-0.1%	-2

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONS† IN 2018-2019  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONST		INDEPENDENT STUDY		OTHERS LACKING REQUIRED IMMUNIZATIONS†		HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735	1.5%	8,318	1.5%	6,502	1.2%	1,577	0.3%	239	0.0%
COUNTY										
ALAMEDA	21,818	0.2%	41	0.2%	6	0.0%	33	0.2%	2	0.0%
ALPINE	10	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*
AMADOR	279	2.9%	8	2.9%	0	0.0%	8	2.9%	0	0.0%
BUTTE	2,822	1.6%	46	1.6%	33	1.2%	12	0.4%	1	0.0%
CALAVERAS	437	3.9%	17	3.9%	15	3.4%	2	0.5%	0	0.0%
COLUSA	360	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
CONTRA COSTA	15,192	0.3%	40	0.3%	20	0.1%	20	0.1%	0	0.0%
DEL NORTE	382	2.1%	8	2.1%	6	1.6%	2	0.5%	0	0.0%
EL DORADO	2,453	5.1%	126	5.1%	125	5.1%	1	0.0%	0	0.0%
FRESNO	18,758	1.3%	237	1.3%	206	1.1%	28	0.1%	3	0.0%
GLENN	540	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
HUMBOLDT	1,708	1.4%	24	1.4%	12	0.7%	12	0.7%	0	0.0%
IMPERIAL	3,134	0.3%	10	0.3%	0	0.0%	10	0.3%	0	0.0%
INYO	231	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
KERN	18,110	5.5%	996	5.5%	950	5.2%	44	0.2%	2	0.0%
KINGS	2,686	0.1%	2	0.1%	0	0.0%	2	0.1%	0	0.0%
LAKE	848	0.1%	1	0.1%	1	0.1%	0	0.0%	0	0.0%
LASSEN	385	2.3%	9	2.3%	9	2.3%	0	0.0%	0	0.0%
LOS ANGELES	136,039	1.3%	1,746	1.3%	1,255	0.9%	459	0.3%	32	0.0%
MADERA	2,762	1.3%	37	1.3%	37	1.3%	0	0.0%	0	0.0%
MARIN	3,170	0.2%	6	0.2%	0	0.0%	6	0.2%	0	0.0%
MARIPOSA	156	1.3%	2	1.3%	2	1.3%	0	0.0%	0	0.0%
MENDOCINO	1,204	0.5%	6	0.5%	3	0.2%	3	0.2%	0	0.0%
MERCED	5,240	0.3%	18	0.3%	0	0.0%	18	0.3%	0	0.0%
MODOC	111	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONO	150	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
MONTEREY	6,926	0.0%	3	0.0%	1	0.0%	2	0.0%	0	0.0%
NAPA	1,429	0.5%	7	0.5%	0	0.0%	0	0.0%	7	0.5%
NEVADA	990	4.6%	46	4.6%	36	3.6%	10	1.0%	0	0.0%

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

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 9: NUMBER AND PERCENTAGE OF OTHER STUDENTS LACKING REQUIRED IMMUNIZATIONST IN 2018-2019  
 BY SUBGROUP AND COUNTY

	TOTAL STUDENTS		OTHERS LACKING REQUIRED IMMUNIZATIONST		INDEPENDENT STUDY		OTHERS LACKING REQUIRED IMMUNIZATIONST <sup>†</sup>		HOME-BASED PRIVATE SCHOOL	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735	1.5%	8,318	1.5%	6,502	1.2%	1,577	0.3%	239	0.0%
COUNTY										
ORANGE	41,734	0.7%	310	0.7%	98	0.2%	187	0.4%	25	0.1%
PLACER	6,470	0.9%	57	0.9%	44	0.7%	13	0.2%	0	0.0%
PLUMAS	210	2.9%	6	2.9%	3	1.4%	3	1.4%	0	0.0%
RIVERSIDE	35,422	0.5%	194	0.5%	63	0.2%	102	0.3%	29	0.1%
SACRAMENTO	21,501	1.8%	395	1.8%	275	1.3%	120	0.6%	0	0.0%
SAN BENITO	1,052	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN BERNARDINO	33,920	1.6%	559	1.6%	468	1.4%	77	0.2%	14	0.0%
SAN DIEGO	46,256	4.0%	1,843	4.0%	1,750	3.8%	63	0.1%	30	0.1%
SAN FRANCISCO	6,840	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SAN JOAQUIN	12,410	1.2%	154	1.2%	77	0.6%	59	0.5%	18	0.1%
SAN LUIS OBISPO	3,012	0.8%	25	0.8%	2	0.1%	22	0.7%	1	0.0%
SAN MATEO	9,275	0.0%	4	0.0%	0	0.0%	4	0.0%	0	0.0%
SANTA BARBARA	6,273	0.7%	44	0.7%	42	0.7%	1	0.0%	1	0.0%
SANTA CLARA	25,505	0.2%	45	0.2%	0	0.0%	44	0.2%	1	0.0%
SANTA CRUZ	3,579	4.0%	144	4.0%	140	3.9%	4	0.1%	0	0.0%
SHASTA	2,466	3.5%	87	3.5%	61	2.5%	22	0.9%	4	0.2%
SIERRA	36	2.8%	1	2.8%	0	0.0%	1	2.8%	0	0.0%
SISKIYOU	561	5.0%	28	5.0%	27	4.8%	1	0.2%	0	0.0%
SOLANO	5,933	0.2%	12	0.2%	12	0.2%	0	0.0%	0	0.0%
SONOMA	6,343	1.5%	98	1.5%	88	1.4%	7	0.1%	3	0.0%
STANISLAUS	9,346	1.1%	106	1.1%	80	0.9%	26	0.3%	0	0.0%
SUTTER	2,310	25.5%	588	25.5%	475	20.6%	113	4.9%	0	0.0%
TEHAMA	983	1.5%	15	1.5%	14	1.4%	1	0.1%	0	0.0%
TRINITY	124	0.8%	1	0.8%	0	0.0%	1	0.8%	0	0.0%
TULARE	9,105	0.4%	35	0.4%	31	0.3%	4	0.0%	0	0.0%
TUOLUMNE	614	2.6%	16	2.6%	10	1.6%	2	0.3%	4	0.7%
VENTURA	11,814	0.7%	86	0.7%	14	0.1%	11	0.1%	61	0.5%
YOLO	2,907	0.2%	7	0.2%	1	0.0%	5	0.2%	1	0.0%
YUBA	1,404	1.6%	22	1.6%	10	0.7%	12	0.9%	0	0.0%

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

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	555,735	6,083	1.1%	564,121	6,920	1.2%	-0.1%	-837
COUNTY								
ALAMEDA	21,818	336	1.5%	22,307	245	1.1%	0.4%	91
ALPINE	10	<20*	--*	6	<20*	--*	--*	--*
AMADOR	279	1	0.4%	376	4	1.1%	-0.7%	-3
BUTTE	2,822	12	0.4%	2,899	9	0.3%	0.1%	3
CALAVERAS	437	0	0.0%	464	1	0.2%	-0.2%	-1
COLUSA	360	0	0.0%	414	2	0.5%	-0.5%	-2
CONTRA COSTA	15,192	129	0.8%	15,292	152	1.0%	-0.1%	-23
DEL NORTE	382	3	0.8%	368	0	0.0%	0.8%	3
EL DORADO	2,453	3	0.1%	2,360	1	0.0%	0.1%	2
FRESNO	18,758	100	0.5%	18,573	252	1.4%	-0.8%	-152
GLENN	540	12	2.2%	510	3	0.6%	1.6%	9
HUMBOLDT	1,708	25	1.5%	1,762	14	0.8%	0.7%	11
IMPERIAL	3,134	11	0.4%	3,362	37	1.1%	-0.7%	-26
INYO	231	0	0.0%	221	1	0.5%	-0.5%	-1
KERN	18,110	88	0.5%	17,580	829	4.7%	-4.2%	-741
KINGS	2,686	14	0.5%	2,678	11	0.4%	0.1%	3
LAKE	848	9	1.1%	850	3	0.4%	0.7%	6
LASSEN	385	0	0.0%	326	0	0.0%	0.0%	0
LOS ANGELES	136,039	2,640	1.9%	140,822	2,402	1.7%	0.2%	238
MADERA	2,762	40	1.4%	2,778	61	2.2%	-0.7%	-21
MARIN	3,170	8	0.3%	3,259	14	0.4%	-0.2%	-6
MARIPOSA	156	0	0.0%	150	3	2.0%	-2.0%	-3
MENDOCINO	1,204	97	8.1%	1,305	81	6.2%	1.8%	16
MERCED	5,240	22	0.4%	5,421	50	0.9%	-0.5%	-28
MODOC	111	1	0.9%	115	0	0.0%	0.9%	1
MONO	150	4	2.7%	166	1	0.6%	2.1%	3
MONTEREY	6,926	40	0.6%	7,161	57	0.8%	-0.2%	-17
NAPA	1,429	5	0.3%	1,768	9	0.5%	-0.2%	-4
NEVADA	990	1	0.1%	913	3	0.3%	-0.2%	-2

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 10: NUMBER AND PERCENTAGE OF STUDENTS WITH OVERDUE STATUS^ IN 2018-2019 AND 2017-2018,  
 AND 1-YEAR PERCENTAGE POINT CHANGE, BY COUNTY

	2018-2019			2017-2018			1-YEAR PERCENTAGE POINT CHANGE	
	TOTAL STUDENTS	OVERDUE^	PERCENT	TOTAL STUDENTS	OVERDUE^	PERCENT	PERCENT	OVERDUE^
STATE TOTAL	555,735	6,083	1.1%	564,121	6,920	1.2%	-0.1%	-837
COUNTY								
ORANGE	41,734	276	0.7%	42,375	271	0.6%	0.0%	5
PLACER	6,470	132	2.0%	6,296	46	0.7%	1.3%	86
PLUMAS	210	0	0.0%	193	1	0.5%	-0.5%	-1
RIVERSIDE	35,422	294	0.8%	35,453	324	0.9%	-0.1%	-30
SACRAMENTO	21,501	183	0.9%	21,508	198	0.9%	-0.1%	-15
SAN BENITO	1,052	16	1.5%	1,019	0	0.0%	1.5%	16
SAN BERNARDINO	33,920	288	0.8%	33,825	225	0.7%	0.2%	63
SAN DIEGO	46,256	237	0.5%	47,174	331	0.7%	-0.2%	-94
SAN FRANCISCO	6,840	176	2.6%	6,701	178	2.7%	-0.1%	-2
SAN JOAQUIN	12,410	49	0.4%	12,582	138	1.1%	-0.7%	-89
SAN LUIS OBISPO	3,012	13	0.4%	3,074	19	0.6%	-0.2%	-6
SAN MATEO	9,275	159	1.7%	9,361	120	1.3%	0.4%	39
SANTA BARBARA	6,273	10	0.2%	6,632	19	0.3%	-0.1%	-9
SANTA CLARA	25,505	256	1.0%	26,410	397	1.5%	-0.5%	-141
SANTA CRUZ	3,579	20	0.6%	3,565	23	0.6%	-0.1%	-3
SHASTA	2,466	48	1.9%	2,526	7	0.3%	1.7%	41
SIERRA	36	0	0.0%	39	0	0.0%	0.0%	0
SISKIYOU	561	8	1.4%	564	8	1.4%	0.0%	0
SOLANO	5,933	10	0.2%	5,534	18	0.3%	-0.2%	-8
SONOMA	6,343	87	1.4%	6,645	78	1.2%	0.2%	9
STANISLAUS	9,346	53	0.6%	8,858	80	0.9%	-0.3%	-27
SUTTER	2,310	20	0.9%	2,152	13	0.6%	0.3%	7
TEHAMA	983	8	0.8%	1,033	4	0.4%	0.4%	4
TRINITY	124	2	1.6%	71	1	1.4%	0.2%	1
TULARE	9,105	14	0.2%	9,450	20	0.2%	-0.1%	-6
TUOLUMNE	614	17	2.8%	620	21	3.4%	-0.6%	-4
VENTURA	11,814	56	0.5%	12,056	72	0.6%	-0.1%	-16
YOLO	2,907	3	0.1%	2,779	11	0.4%	-0.3%	-8
YUBA	1,404	47	3.3%	1,420	52	3.7%	-0.3%	-5

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735	96.0%	533,741	96.5%	536,419	96.5%	536,373	96.5%	541,074	97.4%	544,134	97.9%
COUNTY	21,818	97.6%	21,305	98.0%	21,381	98.0%	21,399	98.1%	21,416	98.2%	21,560	98.8%
ALAMEDA	10	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*	<20*
ALPINE	279	94.3%	263	97.1%	271	97.1%	267	95.7%	268	96.1%	272	97.5%
AMADOR	2,822	95.5%	2,696	96.0%	2,709	96.0%	2,717	96.3%	2,740	97.1%	2,767	98.1%
BUTTE	437	91.8%	401	93.4%	408	93.4%	401	91.8%	406	92.9%	414	94.7%
CALAVERAS	360	98.3%	354	98.3%	355	98.6%	354	98.3%	354	98.3%	355	98.6%
COLUSA	15,192	97.3%	14,789	97.9%	14,866	97.9%	14,870	97.9%	14,973	98.6%	14,994	98.7%
CONTRA COSTA	382	95.5%	365	96.9%	370	96.9%	368	96.3%	371	97.1%	373	97.6%
DEL NORTE	2,453	89.6%	2,197	89.6%	2,206	89.9%	2,203	89.8%	2,249	91.7%	2,269	92.5%
EL DORADO	18,758	97.2%	18,239	97.2%	18,352	97.8%	18,383	98.0%	18,480	98.5%	18,561	98.9%
FRESNO	540	97.2%	525	97.8%	528	97.8%	525	97.2%	533	98.7%	534	98.9%
GLENN	1,708	91.6%	1,565	91.6%	1,557	91.2%	1,570	91.9%	1,580	92.5%	1,608	94.1%
HUMBOLDT	3,134	98.1%	3,075	98.1%	3,087	98.5%	3,084	98.4%	3,111	99.3%	3,113	99.3%
IMPERIAL	231	97.4%	225	97.4%	225	97.4%	226	97.8%	226	97.8%	226	97.8%
INYO	18,110	92.5%	16,756	93.5%	16,939	93.5%	16,927	93.5%	17,272	95.4%	17,401	96.1%
KERN	2,686	97.9%	2,629	98.9%	2,657	98.9%	2,660	99.0%	2,666	99.3%	2,676	99.6%
KINGS	848	94.5%	801	96.8%	821	96.8%	822	96.9%	825	97.3%	833	98.2%
LAKE	385	95.1%	366	95.8%	369	95.8%	367	95.3%	371	96.4%	372	96.6%
LASSEN	136,039	96.2%	130,812	96.5%	131,287	96.5%	131,135	96.4%	132,816	97.6%	133,441	98.1%
LOS ANGELES	2,762	96.5%	2,666	97.4%	2,689	97.4%	2,685	97.2%	2,689	97.4%	2,704	97.9%
MADERA	3,170	96.1%	3,047	96.2%	3,050	96.2%	3,063	96.6%	3,052	96.3%	3,084	97.3%
MARIN	156	92.3%	144	96.8%	151	96.8%	148	94.9%	153	98.1%	155	99.4%
MARIPOSA	1,204	86.8%	1,045	87.3%	1,051	87.3%	1,061	88.1%	1,072	89.0%	1,076	89.4%
MENDOCINO	5,240	98.4%	5,154	99.0%	5,185	99.0%	5,183	98.9%	5,206	99.4%	5,213	99.5%
MERCED	111	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%
MODOC	150	96.7%	145	96.7%	143	95.3%	148	98.7%	>99%	>99%	>99%	>99%
MONTE	6,926	98.5%	6,819	98.5%	6,830	98.6%	6,814	98.4%	6,835	98.7%	6,862	99.1%
MONTEREY	1,429	95.6%	1,366	95.6%	1,374	96.2%	1,377	96.4%	1,383	96.8%	1,392	97.4%
NAPA	990	82.3%	815	82.3%	822	83.0%	826	83.4%	836	84.4%	849	85.8%
NEVADA												

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

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2018-2019  
 TABLE 11: NUMBER AND PERCENTAGE OF STUDENTS WITH REQUIRED IMMUNIZATIONS BY VACCINE SERIES,  
 BY COUNTY

	TOTAL STUDENTS		DTP 4+		POLIO 3+		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	555,735		533,741	96.0%	536,419	96.5%	536,373	96.5%	541,074	97.4%	544,134	97.9%
COUNTY												
ORANGE	41,734		40,445	96.9%	40,584	97.2%	40,561	97.2%	40,946	98.1%	41,149	98.6%
PLACER	6,470		6,085	94.0%	6,113	94.5%	6,105	94.4%	6,163	95.3%	6,199	95.8%
PLUMAS	210		184	87.6%	190	90.5%	189	90.0%	189	90.0%	196	93.3%
RIVERSIDE	35,422		34,455	97.3%	34,664	97.9%	34,652	97.8%	34,839	98.4%	35,095	99.1%
SACRAMENTO	21,501		20,360	94.7%	20,552	95.6%	20,589	95.8%	20,744	96.5%	20,939	97.4%
SAN BENITO	1,052		1,028	97.7%	1,033	98.2%	1,033	98.2%	1,042	99.0%	1,045	99.3%
SAN BERNARDINO	33,920		32,574	96.0%	32,858	96.9%	32,927	97.1%	33,084	97.5%	33,314	98.2%
SAN DIEGO	46,256		43,402	93.8%	43,583	94.2%	43,603	94.3%	44,093	95.3%	44,421	96.0%
SAN FRANCISCO	6,840		6,623	96.8%	6,630	96.9%	6,658	97.3%	6,670	97.5%	6,723	98.3%
SAN JOAQUIN	12,410		12,093	97.4%	12,169	98.1%	12,157	98.0%	12,251	98.7%	12,299	99.1%
SAN LUIS OBISPO	3,012		2,886	95.8%	2,895	96.1%	2,900	96.3%	2,923	97.0%	2,947	97.8%
SAN MATEO	9,275		9,068	97.8%	9,113	98.3%	9,092	98.0%	9,151	98.7%	9,176	98.9%
SANTA BARBARA	6,273		6,126	97.7%	6,127	97.7%	6,135	97.8%	6,141	97.9%	6,184	98.6%
SANTA CLARA	25,505		25,031	98.1%	25,111	98.5%	25,072	98.3%	25,195	98.8%	25,281	99.1%
SANTA CRUZ	3,579		3,317	92.7%	3,335	93.2%	3,320	92.8%	3,350	93.6%	3,391	94.7%
SHASTA	2,466		2,204	89.4%	2,227	90.3%	2,242	90.9%	2,292	92.9%	2,305	93.5%
SIERRA	36		--*	≥95%	--*	≥95%	--*	≥95%	--*	≥95%	--*	≥95%
SISKIYOU	561		523	93.2%	521	92.9%	517	92.2%	520	92.7%	525	93.6%
SOLANO	5,933		5,807	97.9%	5,854	98.7%	5,855	98.7%	5,872	99.0%	5,901	99.5%
SONOMA	6,343		5,920	93.3%	5,922	93.4%	5,928	93.5%	5,970	94.1%	6,015	94.8%
STANISLAUS	9,346		9,016	96.5%	9,098	97.3%	9,098	97.3%	9,165	98.1%	9,209	98.5%
SUTTER	2,310		1,719	74.4%	1,732	75.0%	1,731	74.9%	1,832	79.3%	1,877	81.3%
TEHAMA	983		939	95.5%	940	95.6%	943	95.9%	962	97.9%	968	98.5%
TRINITY	124		115	92.7%	118	95.2%	116	93.5%	120	96.8%	119	96.0%
TULARE	9,105		8,967	98.5%	9,013	99.0%	9,020	99.1%	9,046	99.4%	9,063	99.5%
TUOLUMNE	614		552	89.9%	559	91.0%	559	91.0%	579	94.3%	569	92.7%
VENTURA	11,814		11,442	96.9%	11,475	97.1%	11,484	97.2%	11,542	97.7%	11,588	98.1%
YOLO	2,907		2,809	96.6%	2,812	96.7%	2,814	96.8%	2,830	97.4%	2,845	97.9%
YUBA	1,404		1,331	94.8%	1,353	96.4%	1,335	95.1%	1,374	97.9%	1,380	98.3%

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

**APPENDIX J**

**2019-2020 KINDERGARTEN IMMUNIZATION ASSESSMENT**

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

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

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

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

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

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

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

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

## 2019-2020 Kindergarten Immunization Assessment – Technical Notes

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### Introduction

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

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

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

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

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### Methods

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

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

- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
  - A home-based private school or
  - A public independent study program and do not receive classroom-based instruction.
  - In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.Students in these settings were classified in this category if they lacked required immunizations and did not meet the criteria for other categories.
- Children overdue for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

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

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

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

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## Results

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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## Discussion

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

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

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

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

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

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

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

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

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## Limitations

This report is subject to limitations that include:

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

*For further information, please contact CDPH Immunization Branch at [SchoolAssessments@cdph.ca.gov](mailto:SchoolAssessments@cdph.ca.gov).*

*For media inquiries, please contact CDPH Office of Public Affairs via e-mail [cdphpress@cdph.ca.gov](mailto:cdphpress@cdph.ca.gov) or phone 916-440-7259.*

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Figure 6. Percentage of All Kindergarten Students by Reported Admission Status by School Year, 2013-2014 to 2019-2020

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Table 10. Number and Percentage of Students with Overdue Status in 2019-2020 and 2018-2019, and 1-Year Percentage Point Change, by County

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

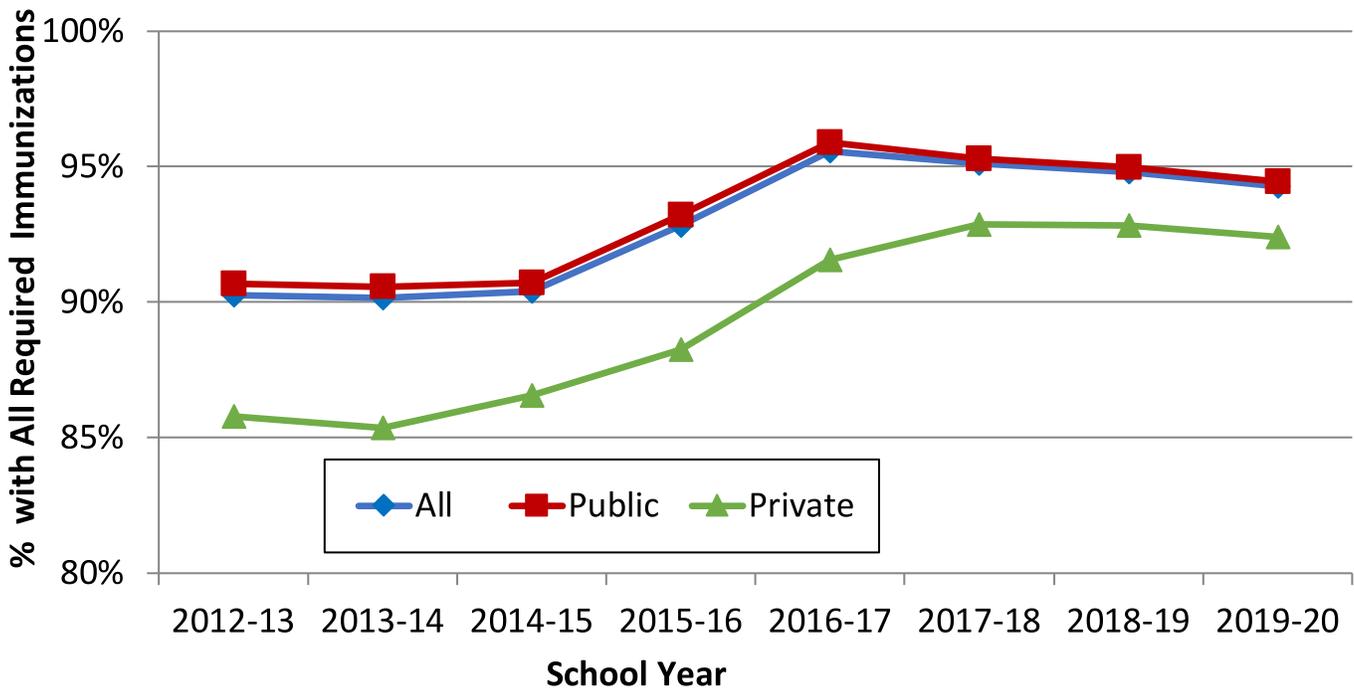


Figure 1. Percentage of Kindergarten Students with All Required Immunizations, by School Type and School Year, 2012-2013 to 2019-2020

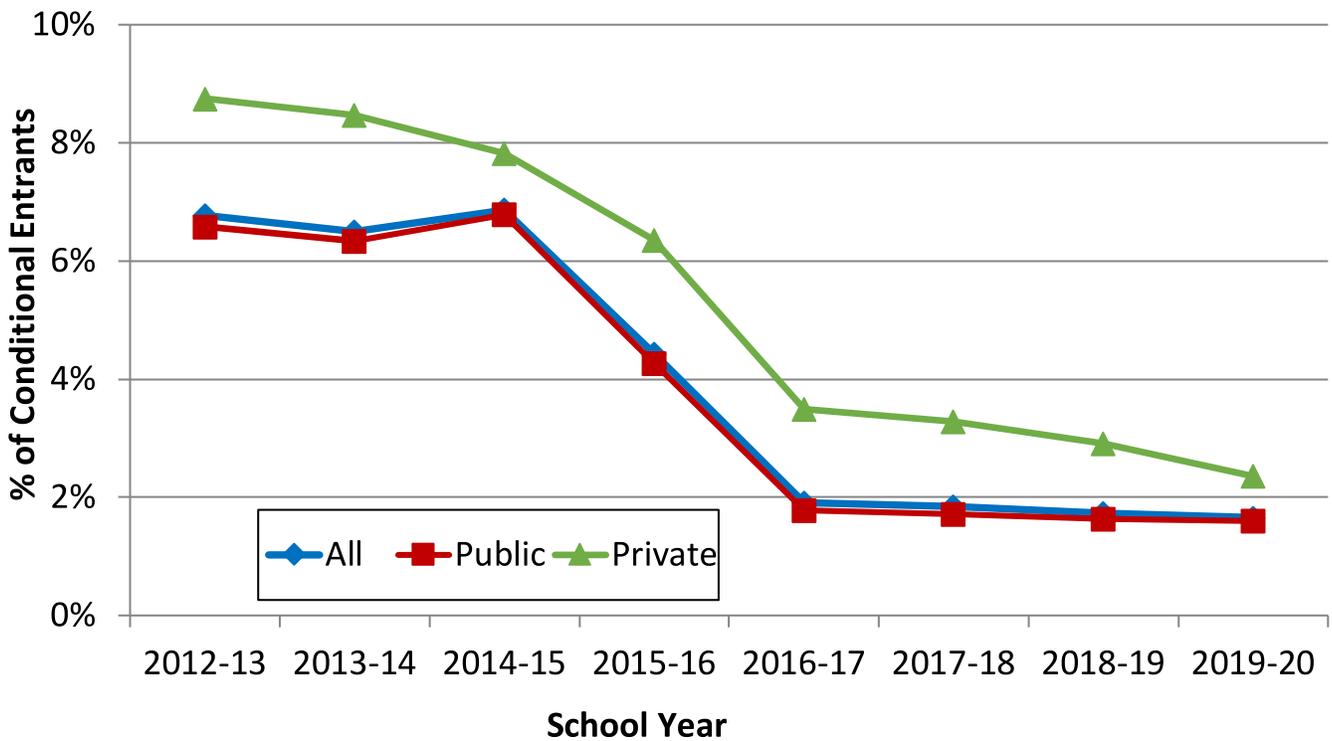


Figure 2. Percentage of Conditional Entrants into Kindergarten, by School Type and School Year, 2012-2013 to 2019-2020

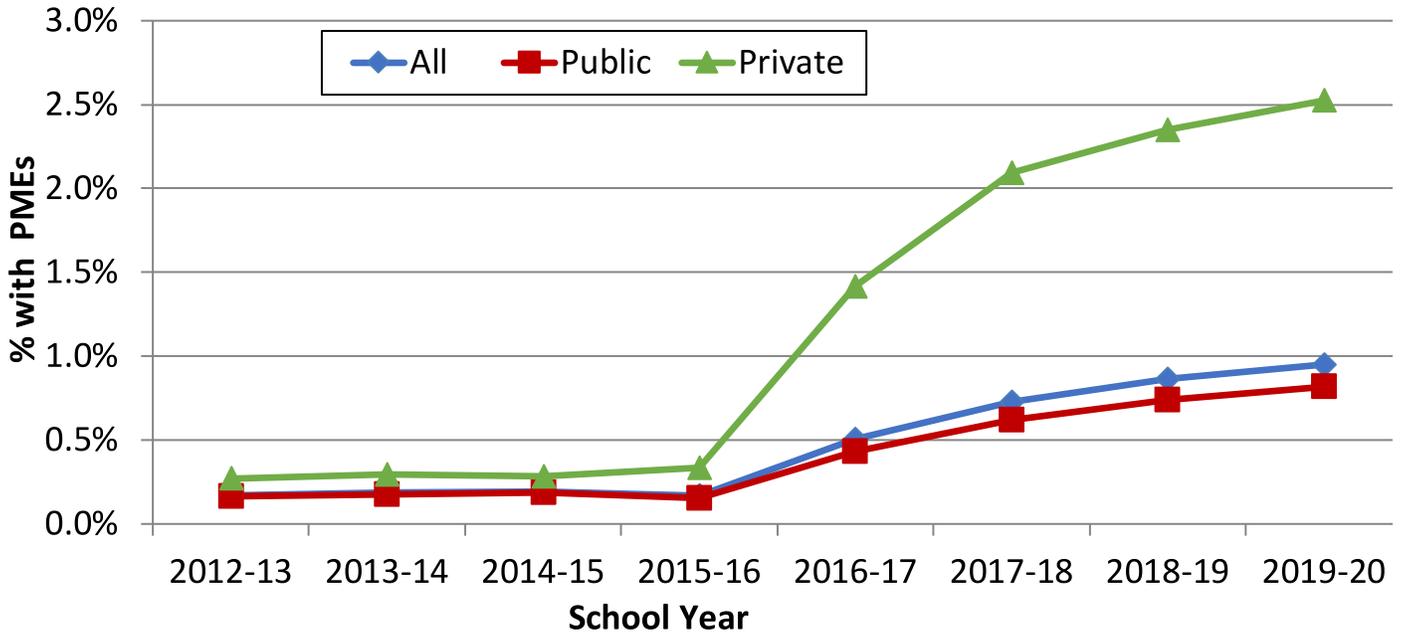


Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PMEs), by School Type and School Year, 2012-2013 to 2019-2020

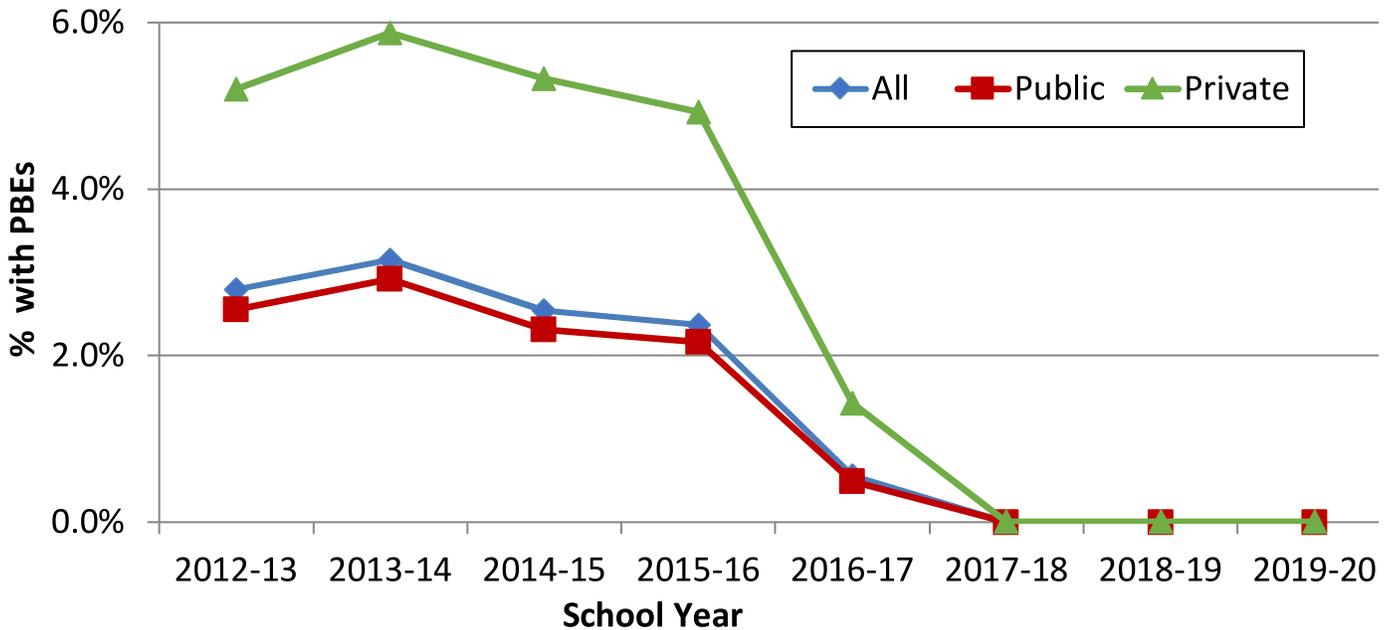
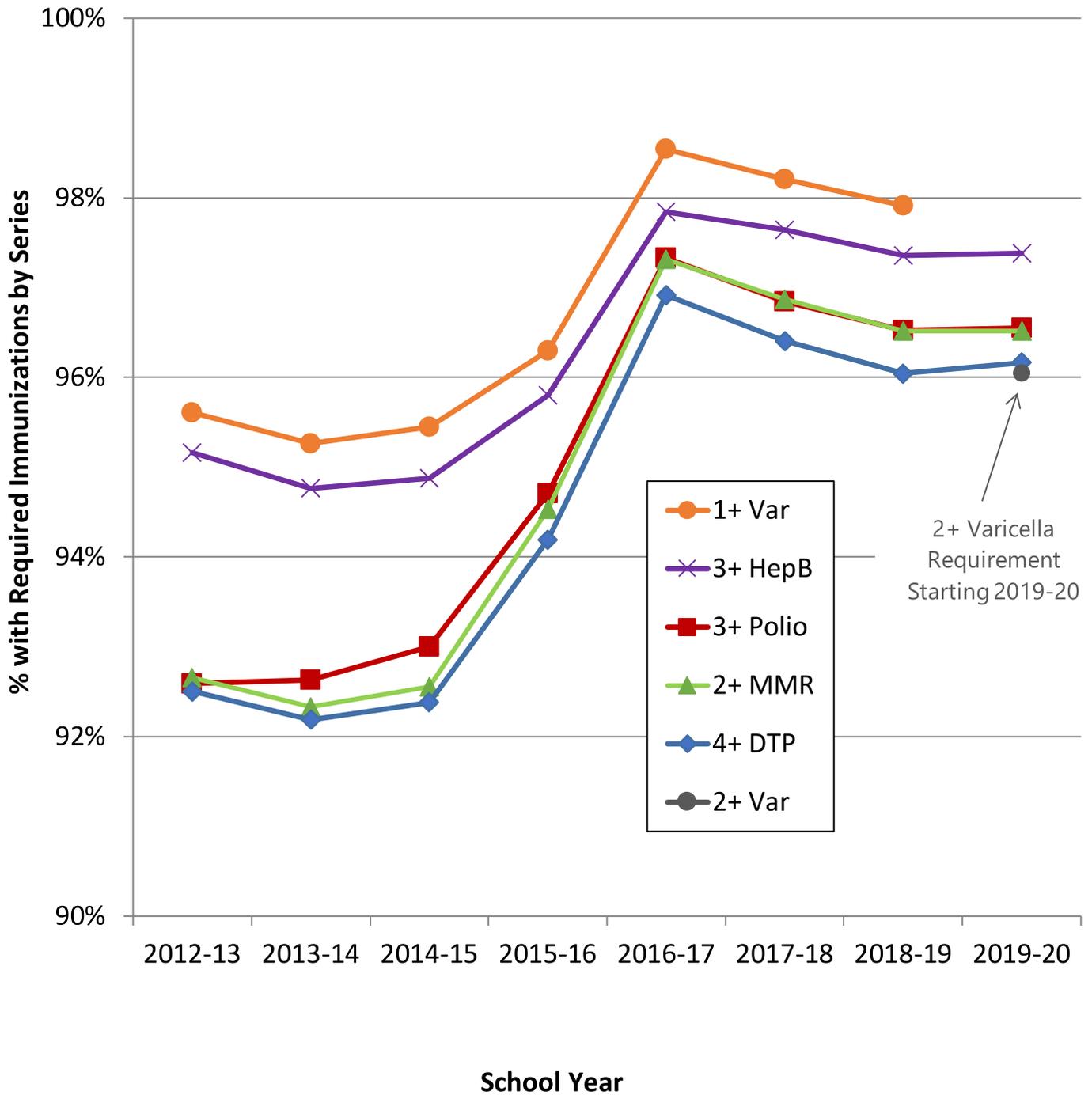
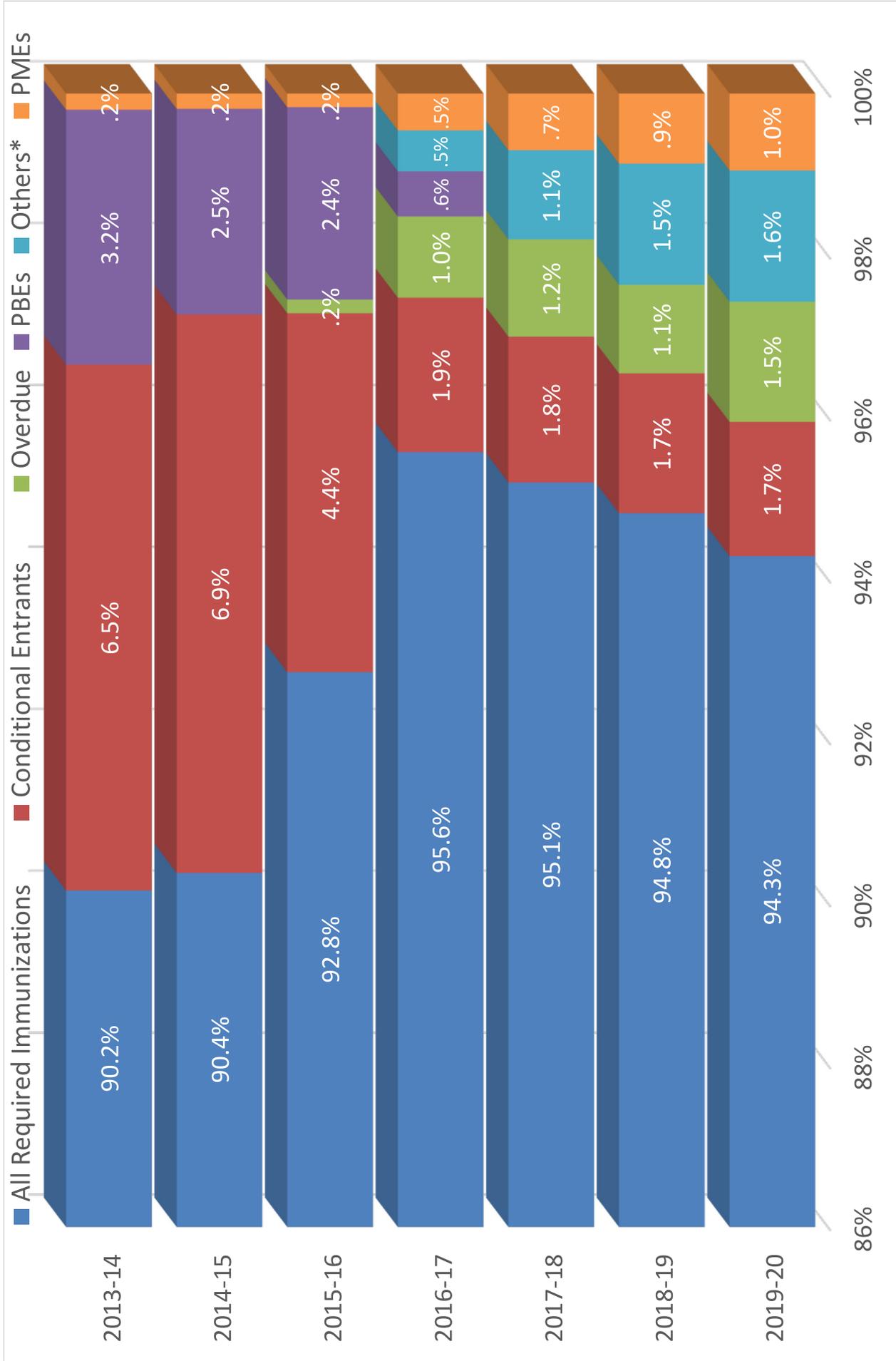


Figure 4. Percentage of Kindergarten Students with Personal Belief Exemptions (PBEs), by School Type and School Year, 2012-2013 to 2019-2020



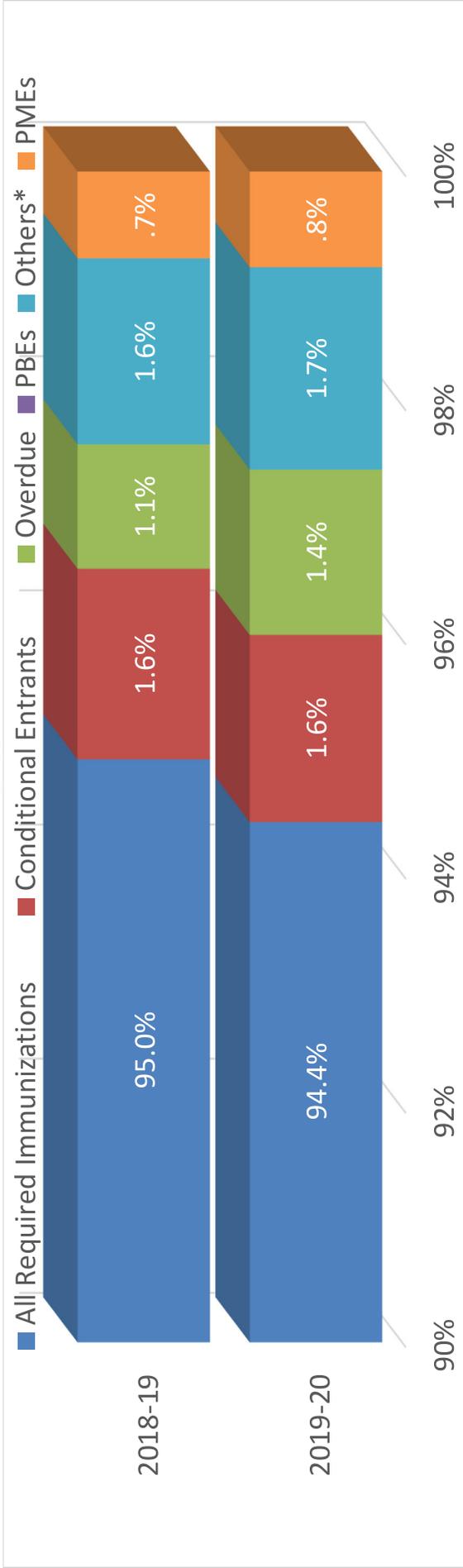
\*One or more doses of varicella required through the 2018-2019 school year. Two or more doses of varicella required for the 2019-20 school year and forward.

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



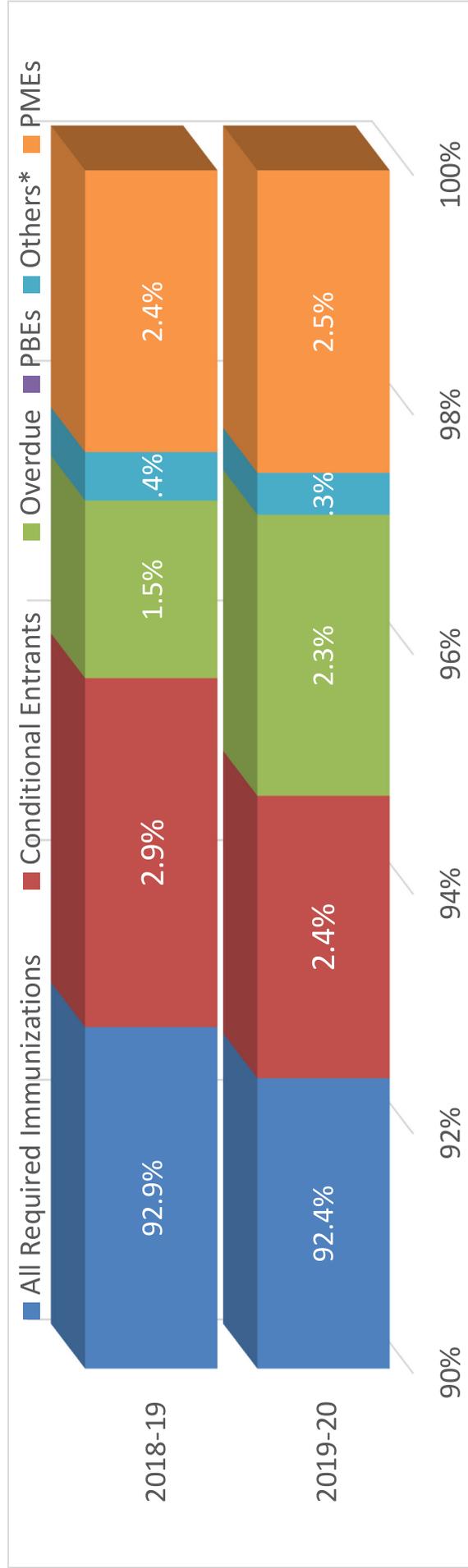
\*Other children lacking required immunizations under criteria specified in SB 277.

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



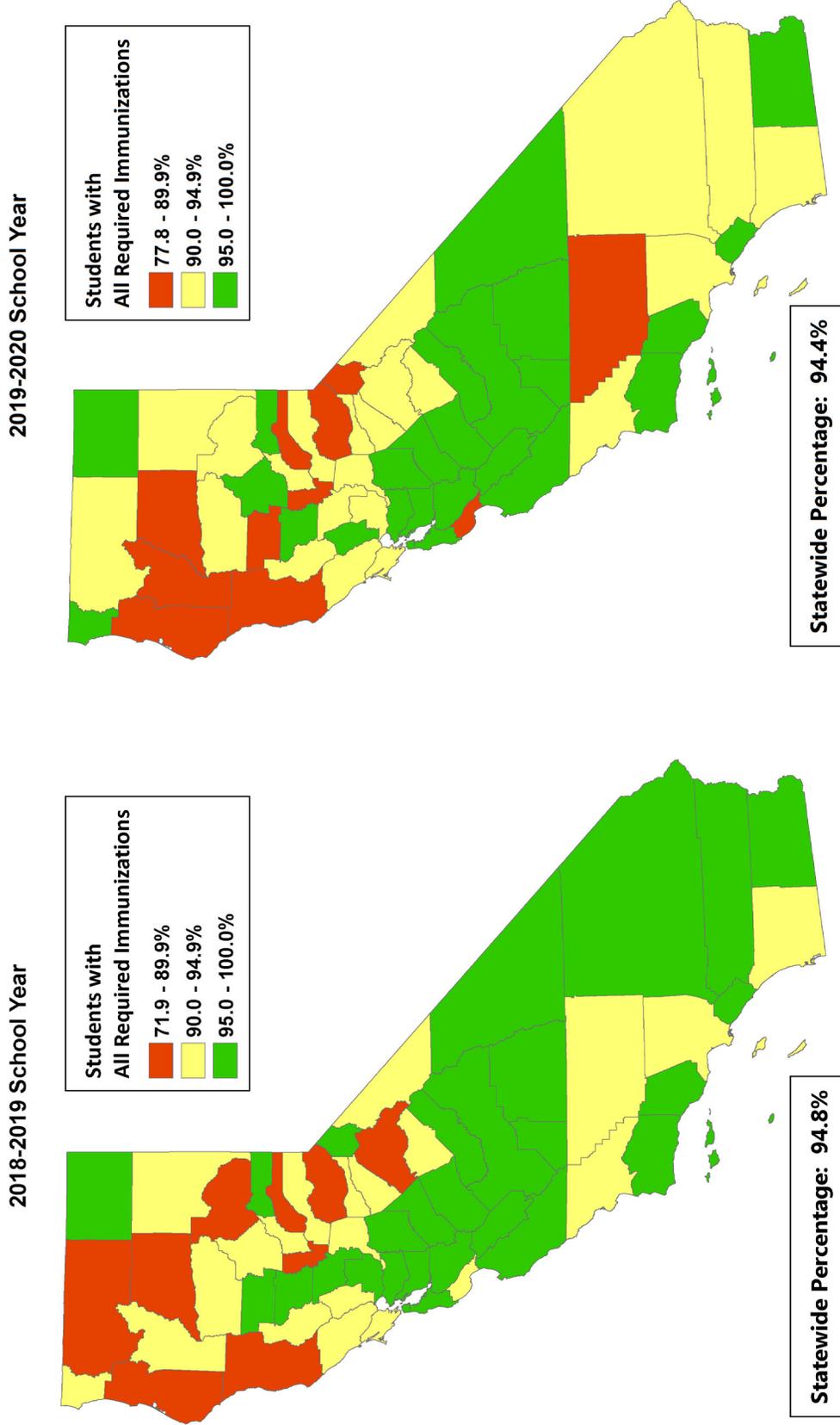
\*Other children lacking required immunizations under criteria specified in SB 277.

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



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

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



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

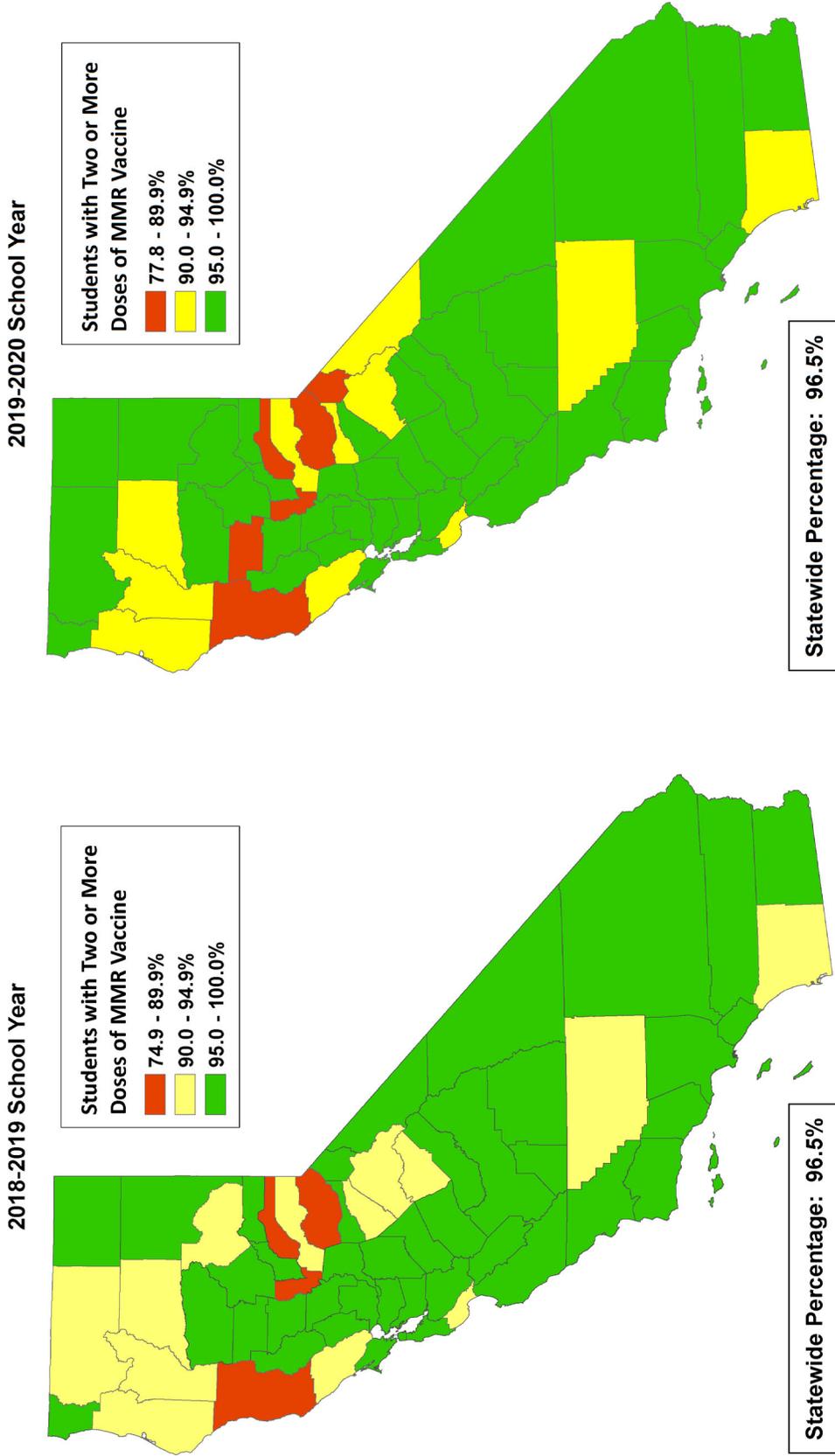


Figure 10. Kindergarten Students with Two or More Doses of MMR Vaccine, by County, 2018-2019 and 2019-2020 School Years

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

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

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

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

^ Overdue for one or more required immunizations.

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

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

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

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

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

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

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

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

^ Overdue for one or more immunizations.

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

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

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

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

<sup>^</sup> Overdue for one or more immunizations.

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

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

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

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

<sup>^</sup> Overdue for one or more immunizations.

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

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

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

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

^ Overdue for one or more immunizations.

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

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

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

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

^ Overdue for one or more immunizations.

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

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

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

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

^ Overdue for one or more immunizations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* County reporting fewer than 20 children in kindergarten.

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

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

\* County reporting fewer than 20 children in kindergarten.

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

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

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

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

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

† Includes students reported as attending independent study who do not receive classroom-based instruction or home-based private schools or receiving IEP services.  
 \* County reporting fewer than 20 children in kindergarten.

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

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

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

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

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

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

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

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

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

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

^ Overdue for one or more immunizations.

\* County reporting fewer than 20 children in kindergarten.

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

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

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

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

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

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

**APPENDIX K**

**2020-2021 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## Kindergarten Immunization Assessment, 2020-2021 and 2021-2022 First Grade Immunization Assessment, 2021-2022

### 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 in the 2020-2021 and 2021-2022 school years and at first grade in 2021-2022.

Events potentially affecting immunization and reporting during this period included:

- The Coronavirus 2019 (COVID-19) pandemic has disrupted routine primary health care and education.
- Beginning January 1, 2021 Senate Bills [\(SB\) 276](#) and [SB 714](#) have required that all new medical exemptions to requirements for school entry be issued through a statewide database accessed at the California Immunization Registry Medical Exemption (CAIR-ME) website.

Reported immunization rates in 2021-2022 decreased slightly from before the pandemic. The proportion of kindergarten students reported to have received all required immunizations was 94.3% in 2019-2020 and 94.0% in 2021-2022. An interim rate for kindergarten students in 2020-2021, when immunization or reporting might have been affected by delayed immunization and widespread school closures, was 92.8%. The rate for this cohort during first grade in 2021-2022 was 96.0%. The rate of kindergarteners reported as having received 2 doses of Measles, Mumps and Rubella (MMR) in 2021-2022 was 96.3%, with 16 (28%) of California counties reporting MMR rates below 95%. The rate of kindergarteners reported with permanent medical exemptions decreased from 1.0% in 2019-2020 to 0.3% in 2021-2022, the lowest level since 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.

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### Introduction

All schools with kindergartens in California are required to report annually on student compliance per California Health and Safety Code Sections 120325-120375. This report summarizes the 2020-2021 and 2021-2022 school year data for kindergarteners. In 2021-2022, an additional reporting requirement was added for first grade students to follow immunization trends during the COVID-19 pandemic, associated with delayed primary healthcare, lengthy school closures, shifts from in-person to virtual and hybrid learning, and, in concert with [smaller birth cohorts](#), a decreased kindergarten student enrollment of 10% between [2019-2020](#) and [2021-2022](#) per California Department of Education data.

California laws over the past decade have modified:

- Medical exemptions to required immunization: Starting January 1, 2021, Senate Bills [SB 276](#) and [SB 714](#) have required that all new medical exemptions for school and child care entry be issued through CAIR-ME, an electronic, statewide database. Medical exemptions can only be issued by physicians and surgeons licensed with the Medical Board or Osteopathic Medical Board of California and must 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](#).

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## Methods

California schools registered with the California Department of Education reported to CDPH data on enrolled kindergarteners during the winter of the 2020-2021 and 2021-2022 school years. In 2021-2022, schools reporting kindergarten enrollment were also required to report the immunization status of first grade students to monitor their vulnerability to vaccine-preventable diseases during the pandemic.

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

- Received all required immunizations, including the following doses:
  - 5 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine (4 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['4+DTP'];
  - 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'];
  - 3 or more of Hepatitis B (Hep B) vaccine: ['3+ Hep B'], and
  - 2 or more of Varicella (Var): ['2+ Var']. From 2000-2019, the requirement was for 1 or more doses of Varicella vaccine or a history documented by a physician of having had chickenpox disease. History of disease is currently reported as a permanent medical exemption.
- Conditional entrants who had:
  - Not received all required doses but were not overdue for required doses, or
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
  - A home-based private school or
  - A public independent study program and do not receive classroom-based instruction.
  - In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.Students in these settings were classified in this category if they lacked required immunizations and did not meet the criteria for other categories.
- Children overdue for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

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

Starting in 2016-2017 school year, any immunizations received by children with PBEs or PME 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, 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

In 2021-2022, 7,824 schools reported immunization status for 503,722 kindergarten students, and 7,598 schools reported on 431,819 first grade students (Table 1 and 2). Compared to 2019-2020, the number of kindergarten schools that reported in 2021-2022 decreased by 2% and number of reported kindergarteners decreased by 9%. Between 2019-2020 and 2021-2022, the number of private schools reporting kindergarten education decreased 10% from 1,891 to 1,693 schools, while the number of public schools with kindergarten increased slightly from 6,109 to 6,131. Similar to previous years, public schools accounted for 78% of all schools reporting kindergarten education and 92% of all reported kindergarten students in 2021-2022. Among nonreporting schools, 87% (161/185) were private schools.

All required immunizations: Among the 503,722 reported kindergarten students in 2021-2022, 94.0% had received all required immunizations, a decrease of 0.3 percentage points from 2019-2020 (Table 1 and Figure 1); these findings were similar for the subset of public schools.

The interim rate for kindergarten students in 2020-2021 was 92.8%, while the rate for this cohort during first grade in 2021-2022 was 96.0% (Table 2).

Specific immunization series: Completion rates for specific immunization series among kindergarteners in 2021-2022 ranged from 95.7% for DTP to 97.3% for Hep B (Table 1 and Figure 2). Compared to 2019-2020, in 2021-2022 rates for DTP vaccine decreased from 96.2% to 95.7%, varicella vaccine remained unchanged at 96.0%, polio vaccine decreased from 96.5% to 96.2% and Hep B vaccine decreased from 97.4% to 97.3%.

MMR rates among kindergarteners decreased 0.2 percentage points from 96.5% in 2019-2020 to 96.3% in 2021-2022, including 96.4% in public schools and 95.5% in private schools.

As with the trend for all required vaccines, the rates reported for each specific vaccine were lower during the first pandemic reporting year of 2020-2021 and similar in 2021-2022 compared to 2019-2020.

PMEs: The number of kindergarteners reported with permanent medical exemptions was 5,268 (1.0%) in 2019-2020 and 1,366 (0.3%) in 2021-2022 (Table 1, Figures 3 and 4). Among first grade students in 2021-2022, 1,675 students (0.4%) were reported with PMEs, compared to 2,865 (0.6%) of kindergarten students in 2020-2021 (Table 2). Both public and private schools reported fewer PMEs in 2021-2022 than previous years.

Conditional entrants: The proportion of kindergarteners reported as conditional entrants decreased from 1.7% in 2019-2020 to 1.3% in 2021-2022 (Table 1, Figure 4), while 0.6% of first grade students were reported as conditional entrants in 2021-2022 (Table 2). 1,097 kindergarteners in 2019-2020 were reported with temporary medical exemptions (0.2% of all students and 12% of conditional entrants), compared to 430 (0.1% of all students and 6% of conditional entrants) in 2021-2022. Among first grade students in 2021-2022, 225 students were reported with temporary medical exemptions (0.1% of all students and 9% of conditional entrants).

For the sum of permanent and temporary medical exemptions during kindergarten, 6,365 (1.1%) were reported in 2019-2020 and 1,796 (0.4%) in 2021-2022.

Overdue: The rates of kindergarteners reported as overdue were 1.5% in 2019-2020, 4.0% in 2020-2021 and 2.3% in 2021-2022 (Table 1 and Figure 4), while 1.3% of first-grade students were reported as overdue in 2021-2022 (Table 2). Between 2019-2020 and 2021-2022, the proportion of overdue kindergarteners increased from 1.4% to 2.2% in public schools and from 2.3% to 3.3% in private schools.

Other students lacking required immunizations: Kindergarteners who were reported as lacking one or more required immunizations who attend a public independent study program and do not receive classroom-based

instruction, attend a home-based private school, or receive IEP services increased from 1.6% in 2019-2020 to 2.1% in 2021-2022 (Table 1 and Figure 4).

County-level immunization rates: Immunization rates varied widely, being lower in some northern and central counties in California (Tables 3 and 4, Figures 5 and 6). In 2021-2022, 13 (22%) of 58 counties reported kindergartens with all required immunizations below 90%, compared to 11 (19%) counties in 2019-2020. In most counties, rates for all required immunizations in first grade students during 2021-2022 were higher than rates in kindergarten students during 2020-2021.

As in prior school years, counties with a higher proportion of kindergarten enrollment in online or virtual schools had lower immunization rates. El Dorado, Glenn, Kern, and Sutter counties reported more than 5% of kindergarten students being enrolled in virtual schools in 2021-2022 and rates of all required vaccines between 78 - 88%. In these counties, there were large differences in all required immunization rates between students in classroom-based schools versus virtual schools (Box).

<b>% Of Kindergarteners with All Required Immunizations in 2021-2022</b>				<b>For Schools Based in County, % of Pupils Reported as Enrolled in Virtual Schools*</b>
<b>County</b>	<b>All Schools Based in County</b>	<b>Classroom-Based Schools</b>	<b>Virtual Schools*</b>	
Sutter	77.5%	96.1%	35.0%	30.4%
El Dorado	78.2%	92.7%	18.2%	19.4%
Glenn	85.1%	96.7%	23.3%	15.7%
Kern	88.2%	93.9%	21.0%	7.9%

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

MMR rates for kindergarteners by county ranged from 79.9% to 99.3% in 2021-2022, with 16 (28%) counties reporting MMR rates lower than 95%, including 5 counties with rates lower than 90%. This is similar to the rates in 2018-2019 and 2019-2020, in which 17 (29%) counties reported fewer than 95% of their kindergarteners as having had at least two MMR doses. For first-grade students in 2021-2022, MMR rates by county ranged from 83.8% to 100%, with 12 (21%) counties with MMR rates lower than 95%.

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## Discussion

Despite the demands and disruptions from the pandemic, California schools continue to provide valuable information on the immunity of their students, with public schools reporting immunization status of 97% (449,496/462,172) of kindergarteners counted in CDE enrollment data in [2020-2021](#) and 98% (461,506/469,928) in [2021-2022](#). Private school reporting was lower at 91% (36,042/39,392) in 2020-2021 and 94% (42,216/45,037) in 2021-2022.

The rate of all required immunizations reported for kindergarten students was similar at 94.3% in 2019-2020 and 94.0% in 2021-2022. An interim lower rate of 92.8% for kindergarteners during the initial school year of the pandemic in 2020-2021 was followed by a rate of 96.0% during first grade in 2021-2022. As data on first graders had not been collected previously, it is unclear whether the pace of catch-up during first grade in 2021-2022 was unusual. Immunization rates for most individual required vaccines have also decreased slightly during the pandemic. School reporting during the pandemic, especially during 2020-2021, may have been

hampered by closures, shortages or turnover of staff at schools, and delayed care or recordkeeping at clinical sites.

Over the last decade, the rate of all required immunizations rose from 91.0% in 2011-2012 to 95.6% in 2015-2016, and then decreased to 94.0% in 2021-2022. During this period, reasons for increasing immunization rates might have included: public health departments working with schools to improve the application of [conditional admission schedules](#), personal beliefs exemptions no longer being permitted per [SB 277](#) and [CDE school audits](#) incorporating immunization compliance review. In contrast, during this period increases were also reported in kindergarteners with medical exemptions or lacking immunizations while in educational programs that are individualized or based outside of the classroom. Since implementation of [SB 276](#) and [SB 714](#), which require medical exemptions to align with national standards and be subject to review by CDPH, the rates of PME have decreased from a record high of 1.0% kindergarteners in 2019-2020 to 0.3% of kindergarteners and 0.4% of first graders in 2021-2022.

National trends and rates for kindergarteners during the 2020-2021 school year reported to [CDC](#) were similar to California (CA), whether for MMR (93.9% US vs. 95.1% CA), DTaP (93.6% vs 94.7%) or Varicella (93.6% vs. 94.8%). In 2021-2022, 16 (28%) of California counties had reported MMR rates in kindergarten students below 95%, an approximate threshold necessary to prevent the transmission of measles. Regional differences in immunization rates for school-required vaccines reflect trends for [COVID-19 vaccines in California](#).

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 should continue as in-person learning and social activities resume; efforts to protect school communities with required vaccines and COVID-19 vaccines can be complementary and synergistic.

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## Limitations

This report is subject to limitations that include:

- Submission of student immunization records to school staff and reporting by school staff of immunization data to CDPH might have been reduced during the pandemic. Incomplete immunization records might have resulted in underestimates of immunization rates.
- CDPH does not know how many of the schools that did not report had enrolled kindergarteners or the immunization status of their kindergarten students. In 2020-2021, 342 California elementary schools, including 297 private schools and 45 public schools, did not report. In 2021-2022, 185 California elementary schools, including 161 private schools and 24 public schools, did not report. Underreporting could have biased the reported immunization rates in either direction.
- As in previous years, private home schools that did not register with the California Department of Education may not have reported data to CDPH, which would result in underestimates of their enrollment.
- 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.

## Figures

Figure 1. Percentage of Students with All Required Immunizations by School Year, Left: Kindergarten, 2014-2015 to 2021-2022 School Years; Right: Kindergarten, 2020-2021 School Year, First Grade, 2021-2022 School Year

Figure 2. Percentage of Students with Specific Required Immunizations by Series and School Year, Left: Kindergarten, 2014-2015 to 2021-2022 School Years; Right: Kindergarten, 2020-2021 School Year, First Grade, 2021-2022 School Year

Figure 3. Percentage of Students with Permanent Medical Exemptions (PME) by School Year, Left: Kindergarten, 2014-2015 to 2021-2022 School Years; Right: Kindergarten, 2020-2021 School Year, First Grade, 2021-2022 School Year

Figure 4. Percentage of All Kindergarten and First Grade Students by Reported Admission Status by School Year, Top: Kindergarten, 2014-2015 to 2021-2022 School Years: Bottom: Kindergarten, 2020-21 School Year and First Grade, 2021-2022 School Year.

Figure 5. Map: Kindergarten and First Grade Students with All Required Immunizations, by County, Kindergarten, 2019-2020 to 2021-2022 School Years and First Grade, 2021-2022 School Year

Figure 6. Map: Kindergarten and First Grade Students with Two or More Doses of MMR Vaccine, by County, Kindergarten, 2019-2020 to 2021-2022 School Years and First Grade, 2021-2022 School Year

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## Tables

Table 1. Kindergarten Immunization Assessment Summary, 2019-2020 through 2021-2022 School Years

Table 2. Immunization Assessment Summary of Kindergarten in 2020-2021 and Subsequent 1st Grade in 2021-2022

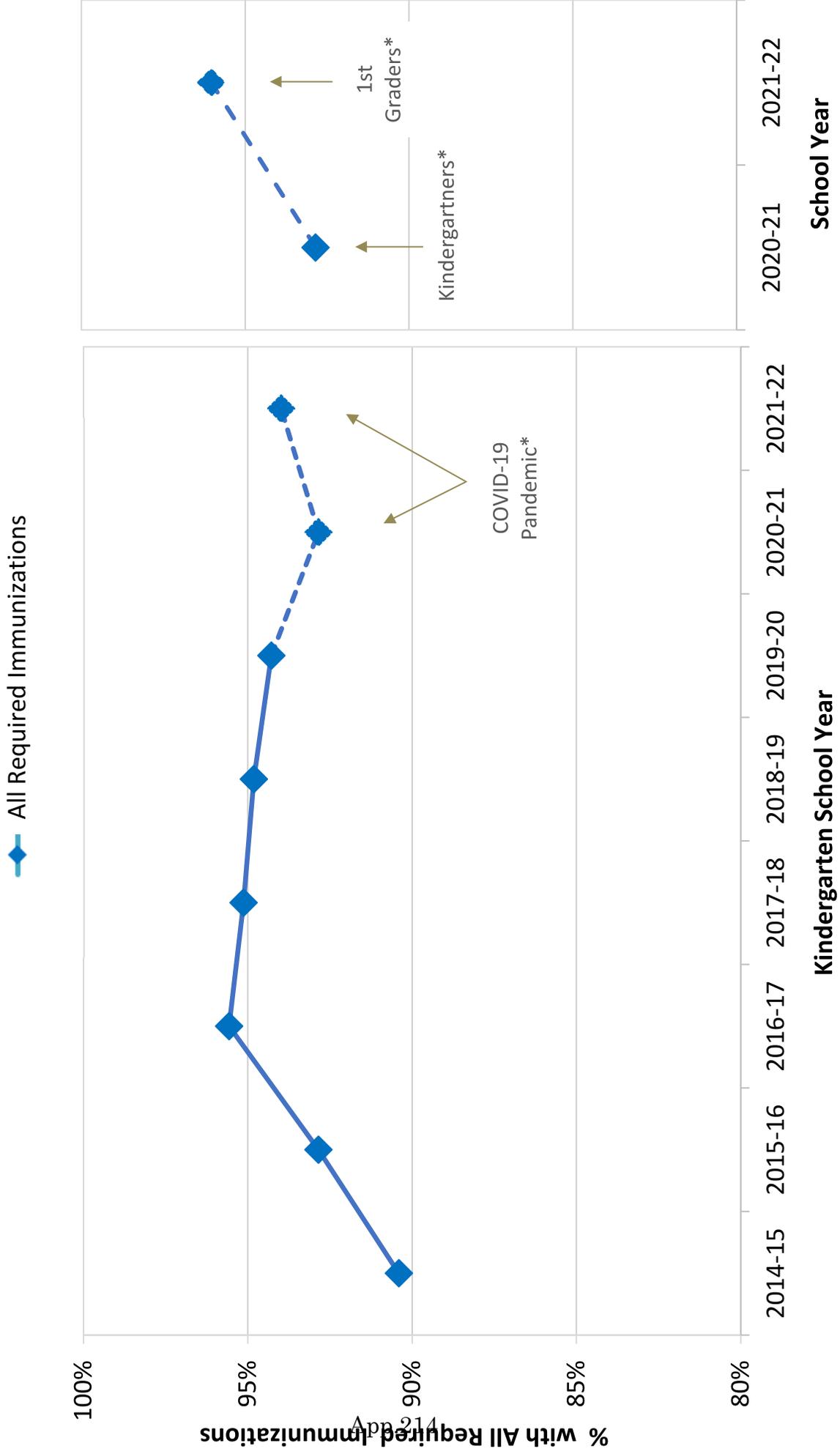
Table 3. Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, by County

Table 4. Total Enrollment and Specific Required Immunizations by Series, Kindergarten, 2021-2022, 2020-2021, 2019-2020 and First Grade, 2021-2022, by County

**Figure 1. Percentage of Students with All Required Immunizations by School Year**

**Left: Kindergarteners in the 2014-2015 to 2021-2022 School Years**

**Right: Kindergarteners in the 2020-2021 School Year and First Graders in the 2021-2022 School Year**

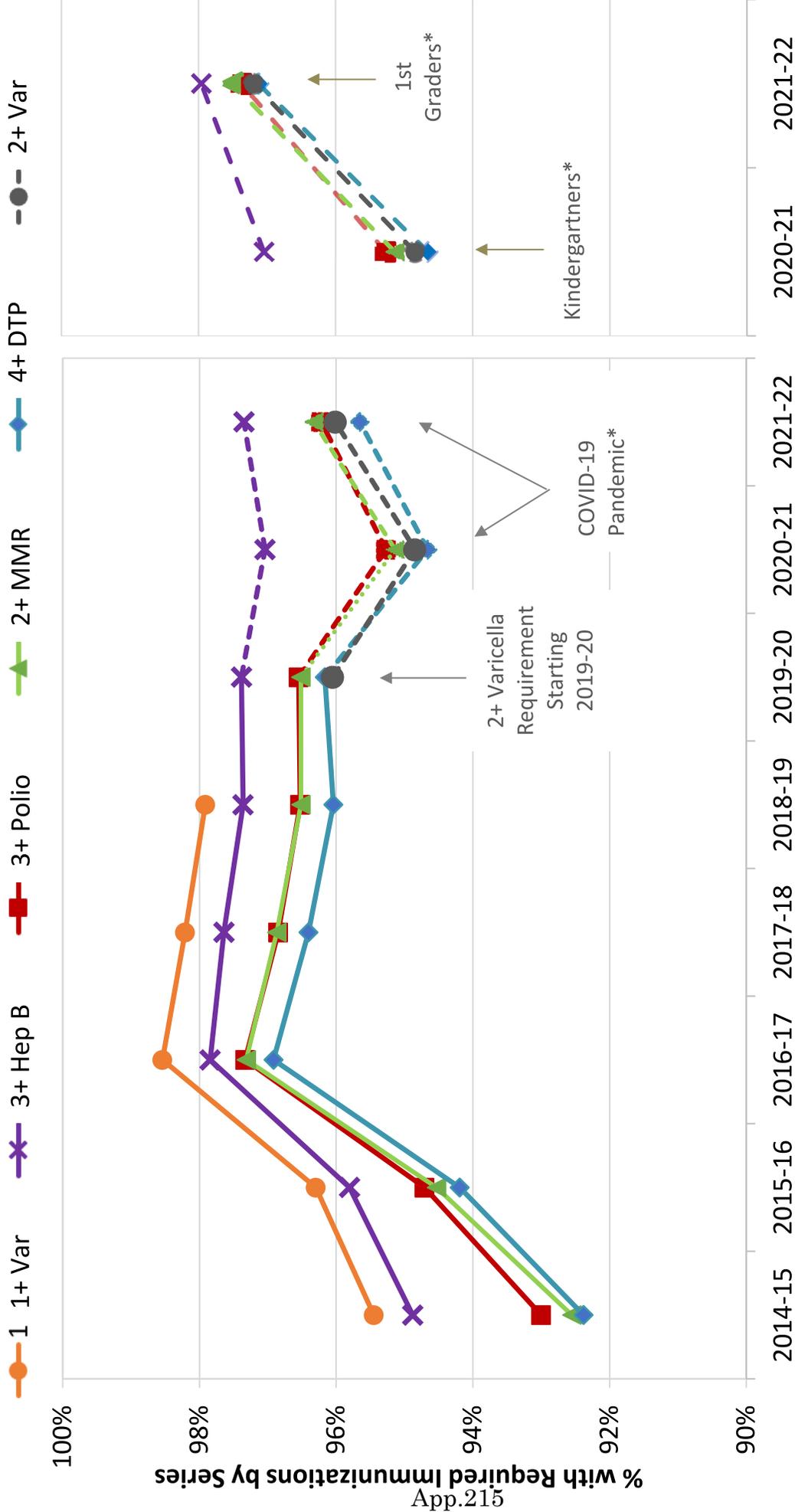


\*Immunization and data collection potentially affected by the COVID-19 pandemic.

Figure 2. Percentage of Students with Specific Required Immunizations by Series

Left: Kindergartners in the 2014-2015 to 2021-2022 School Years

Right: Kindergartners in the 2020-2021 School Year and First Graders in the 2021-2022 School Year



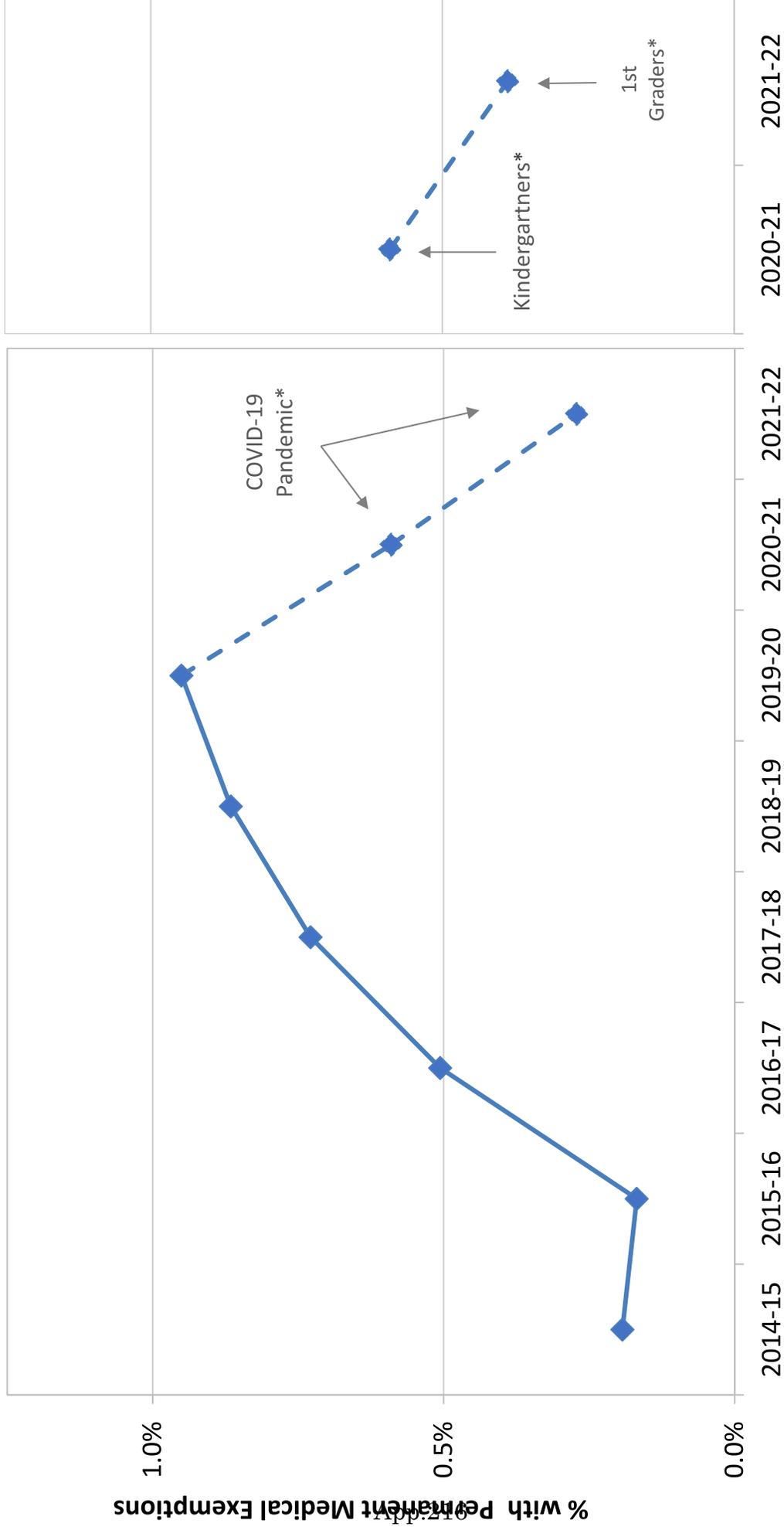
\*Immunization and data collection potentially affected by the COVID-19 pandemic.

**Figure 3. Percentage of Students with Permanent Medical Exemptions (PME) by School Year**

**Left: Kindergartners in the 2014-2015 to 2021-2022 School Years**

**Right: Kindergartners in the 2020-2021 School Year and First Graders in the 2021-2022 School Year**

◆ Permanent Medical Exemptions



\*Immunization and data collection potentially affected by the COVID-19 pandemic.

**Figure 4. Percentage of All Kindergarten and First Grade Students by Reported Admission Status by School Year**

**Top: Kindergartners in the 2014-2015 to 2021-2022 School Years**

**Bottom: Kindergartners in the 2020-2021 School Year and First Graders in the 2021-2022 School Year**

In the 2014-2015 and 2015-2016 school years, entrants were subject to AB 2109. Since the 2016-2017 school year, entrants have been subject to SB 277. In the 2019-20 school year, the varicella requirement changed from one or more to two or more doses.



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^ Other children lacking required immunizations under criteria specified in SB 277.  
 \* Immunization and data collection potentially affected by the COVID-19 pandemic.

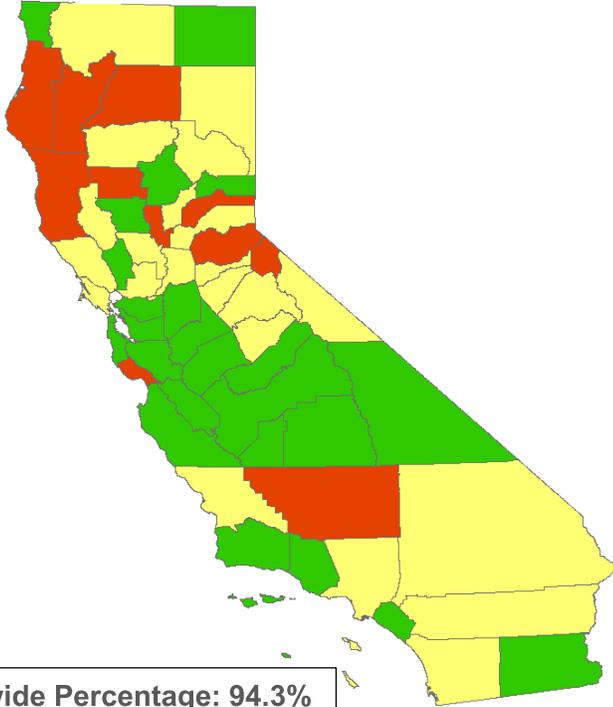
Figure 5. Kindergarten and First Grade Students with All Required Immunizations, by County

Kindergarteners in the 2019-2020 to 2021-2022 School Years

First Graders in the 2021-2022 School Year

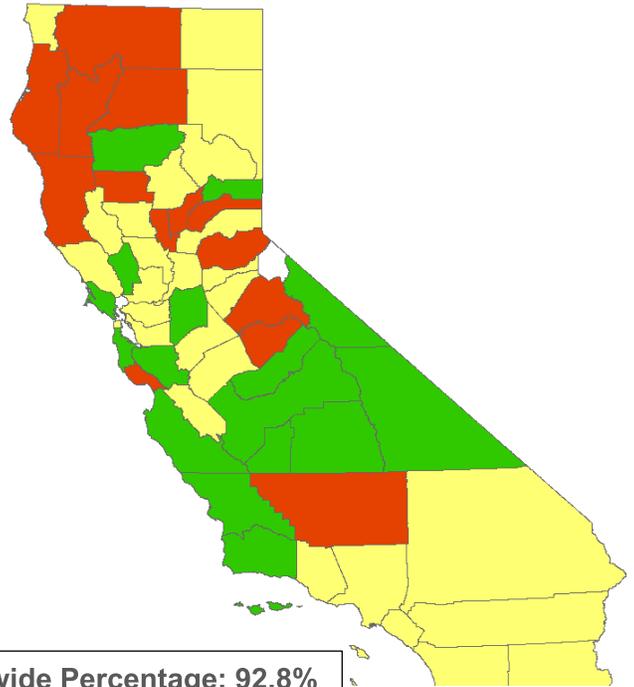


Kindergarten  
2019-2020 School Year



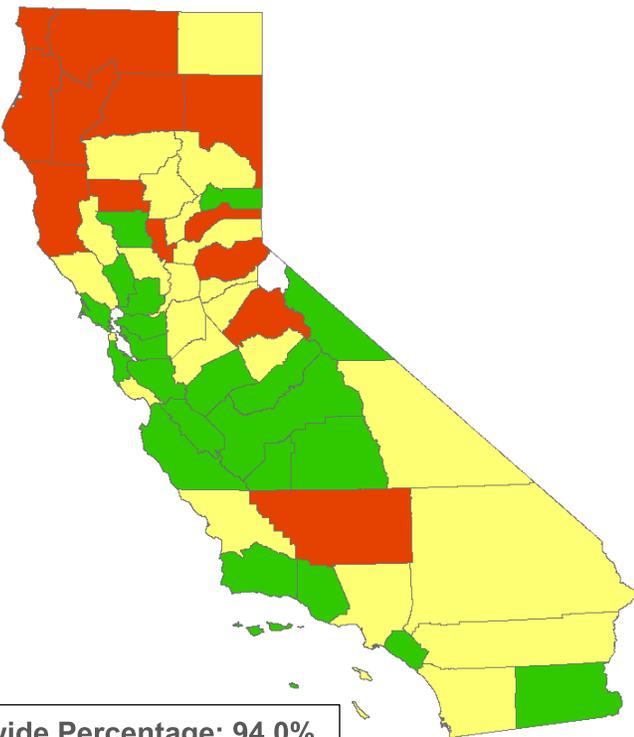
Statewide Percentage: 94.3%

Kindergarten  
2020-2021 School Year\*



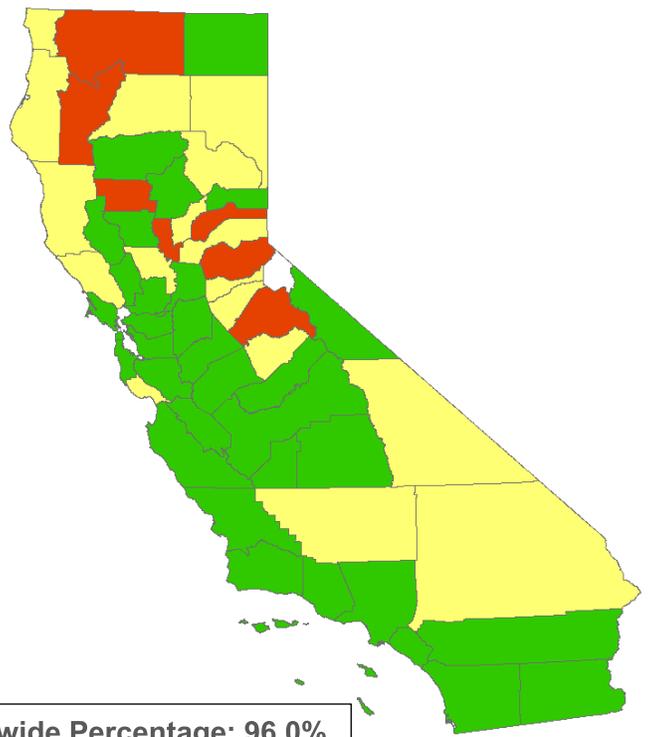
Statewide Percentage: 92.8%

Kindergarten  
2021-2022 School Year\*



Statewide Percentage: 94.0%

First Grade  
2021-2022 School Year\*



Statewide Percentage: 96.0%

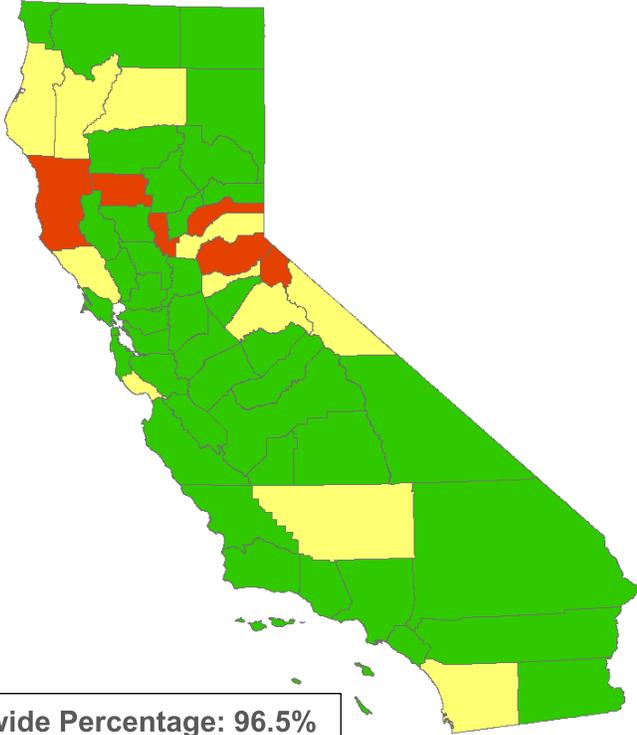
\*Immunization and data collection potentially affected by the COVID-19 pandemic.

Figure 6. Kindergarten and First Grade Students with 100% or More Doses of MMR Vaccine, by County

Kindergarteners in the 2019-2020 to 2021-2022 School Years  
First Graders in the 2021-2022 School Year

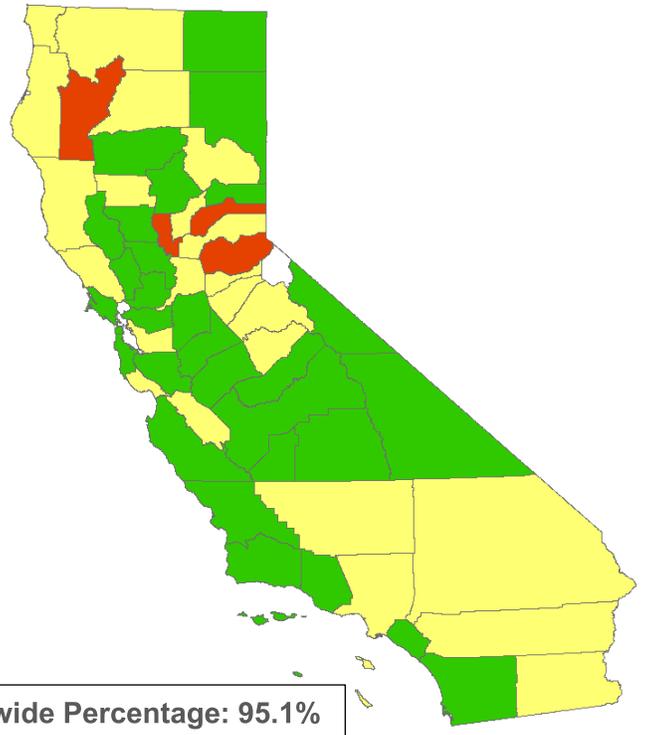


Kindergarten  
2019-2020 School Year



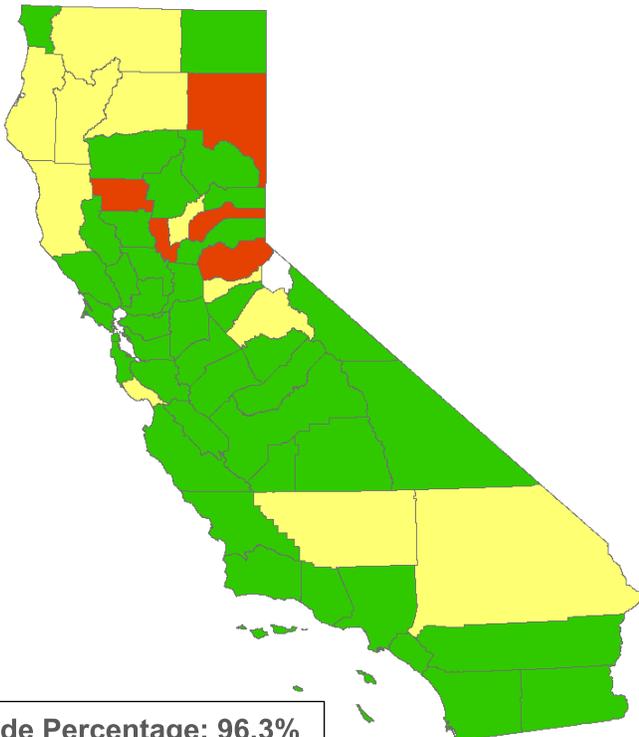
Statewide Percentage: 96.5%

Kindergarten  
2020-2021 School Year\*



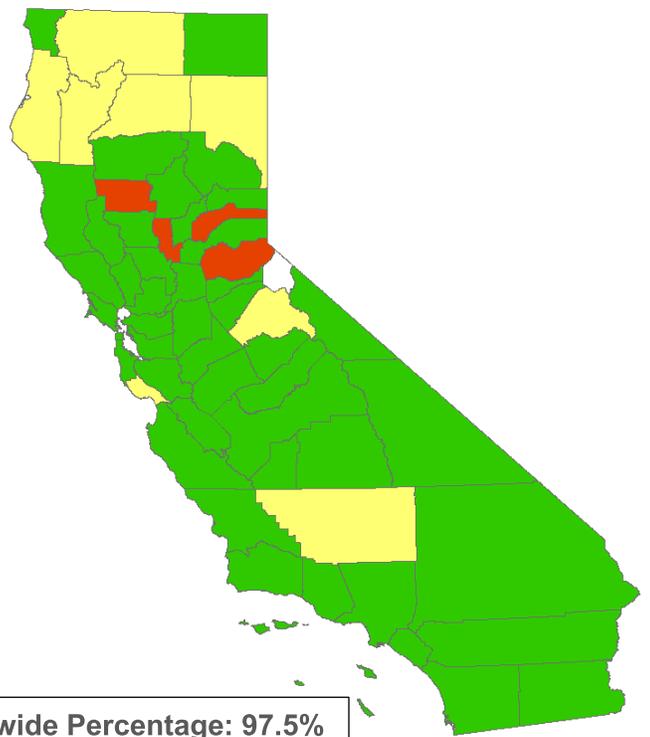
Statewide Percentage: 95.1%

Kindergarten  
2021-2022 School Year\*



Statewide Percentage: 96.3%

First Grade  
2021-2022 School Year\*



Statewide Percentage: 97.5%

\*Immunization and data collection potentially affected April 2020 COVID-19 pandemic.

**Table 1: Kindergarten Immunization Assessment Summary, 2019-2020 through 2021-2022 School Years**

	Kindergarten												Kindergarten: 2021-22 and 2019-20							
	2021-2022						2020-2021						2019-2020						2-Year Percentage Point Change**	
	All	Public	Private	All	Public	Private	All	Public	Private	All	Public	Private	All	Public	Private	All	Public			
Number of Schools Reporting Kindergarten*	7,824	6,131	1,693	7,749	6,070	1,679	8,000	6,109	1,891	8,000	6,109	1,891	8,000	6,109	1,891	-2%	0%	-10%		
Number of Kindergarten Students	503,722	461,506	42,216	485,538	449,496	36,042	554,250	511,104	43,146	554,250	511,104	43,146	554,250	511,104	43,146	-9%	-10%	-2%		
All Required Immunizations	94.0%	94.1%	93.1%	92.8%	92.9%	92.6%	94.3%	94.4%	92.4%	94.3%	94.4%	92.4%	94.3%	94.4%	92.4%	-0.3%	-0.4%	0.7%		
Conditional Entrants	1.3%	1.3%	1.8%	0.8%	0.8%	1.7%	1.7%	1.6%	2.4%	1.7%	1.6%	2.4%	1.7%	1.6%	2.4%	-0.3%	-0.3%	-0.6%		
Permanent Medical Exemptions	0.3%	0.2%	1.0%	0.6%	0.5%	1.9%	1.0%	0.8%	2.5%	1.0%	0.8%	2.5%	1.0%	0.8%	2.5%	-0.7%	-0.6%	-1.6%		
Personal Beliefs 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%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Others Lacking immunizations†	2.1%	2.2%	0.9%	1.7%	1.8%	0.9%	1.6%	1.7%	0.3%	1.6%	1.7%	0.3%	1.6%	1.7%	0.3%	0.5%	0.5%	0.5%		
Overdue^	2.3%	2.2%	3.3%	4.0%	4.1%	2.8%	1.5%	1.4%	2.3%	1.5%	1.4%	2.3%	1.5%	1.4%	2.3%	0.8%	0.8%	1.0%		
4+ DTP	95.7%	95.7%	95.3%	94.7%	94.7%	94.6%	96.2%	96.3%	94.6%	96.2%	96.3%	94.6%	96.2%	96.3%	94.6%	-0.5%	-0.6%	0.7%		
3+ Polio	96.2%	96.3%	95.6%	95.2%	95.3%	94.9%	96.5%	96.7%	94.8%	96.5%	96.7%	94.8%	96.5%	96.7%	94.8%	-0.3%	-0.4%	0.8%		
2+ MMR	96.3%	96.4%	95.5%	95.1%	95.1%	94.7%	96.5%	96.7%	94.7%	96.5%	96.7%	94.7%	96.5%	96.7%	94.7%	-0.2%	-0.3%	0.8%		
3+ Hep B	97.3%	97.4%	97.1%	97.0%	97.1%	96.3%	97.4%	97.5%	96.1%	97.4%	97.5%	96.1%	97.4%	97.5%	96.1%	0.0%	-0.1%	1.0%		
2+ Var (or physician-documented disease)^^^	96.0%	96.1%	95.3%	94.8%	94.8%	94.6%	96.0%	96.2%	94.4%	96.0%	96.2%	94.4%	96.0%	96.2%	94.4%	0.0%	-0.1%	0.9%		

\* Number of schools reporting kindergarten students.

\*\* 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.

^^ In the 2019-20 school year, the varicella requirement changed from one or more to two or more doses.

**Table 2. Immunization Assessment Summary of Kindergarten in 2020-2021 and Subsequent 1st Grade in 2021-2022**

	1st Grade			Kindergarten			1st Grade 2021-22 and Kindergarten 2020-21		
	2021-2022			2020-2021			1-Year Percentage Point Change**		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Students*	7,598	6,064	1,534	7,749	6,070	1,679	-2%	0%	-9%
Number of Students	431,819	398,465	33,354	485,538	449,496	36,042	-11%	-11%	-7%
All Required Immunizations	96.0%	96.1%	94.9%	92.8%	92.9%	92.6%	3.2%	3.3%	2.3%
Conditional Entrants	0.6%	0.6%	0.8%	0.8%	0.8%	1.7%	-0.3%	-0.2%	-0.9%
Permanent Medical Exemptions	0.4%	0.3%	1.3%	0.6%	0.5%	1.9%	-0.2%	-0.2%	-0.7%
Personal Beliefs Exemptions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking immunizations†	1.7%	1.7%	1.2%	1.7%	1.8%	0.9%	0.0%	-0.1%	0.3%
Overdue^	1.3%	1.3%	1.8%	4.0%	4.1%	2.8%	-2.7%	-2.8%	-1.0%
4+ DTP	97.1%	97.2%	96.4%	94.7%	94.7%	94.6%	2.5%	2.5%	1.7%
3+ Polio	97.4%	97.5%	96.4%	95.2%	95.3%	94.9%	2.1%	2.2%	1.6%
2+ MMR	97.5%	97.6%	96.5%	95.1%	95.1%	94.7%	2.4%	2.5%	1.8%
3+ Hep B	98.0%	98.0%	97.1%	97.0%	97.1%	96.3%	0.9%	0.9%	0.7%
2+ Var (or physician-documented disease)^	97.2%	97.3%	96.3%	94.8%	94.8%	94.6%	2.4%	2.4%	1.7%

\* Number of schools reporting kindergarten students during the 2020-2021 school year and first grade students during the 2021-2022 school year.

\*\* 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.

^^ In the 2019-20 school year, the varicella requirement changed from one or more to two or more doses.

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 3: Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, By County\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Medical Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	96.0%	0.6%	0.4%	1.7%	1.3%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	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	2021-22	1st Grade	16,710	96.8%	0.4%	0.3%	0.2%	2.3%
		Kindergarten	19,422	95.1%	0.7%	0.4%	0.3%	3.6%
	2020-21	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	2021-22	1st Grade	--**	--*	--*	--*	--*	--*
		Kindergarten	--**	--*	--*	--*	--*	--*
	2020-21	Kindergarten	--**	--*	--*	--*	--*	--*
		Kindergarten	9	--*	--*	--*	--*	--*
AMADOR	2021-22	1st Grade	350	93.7%	0.6%	0.0%	0.6%	5.1%
		Kindergarten	355	91.0%	0.3%	0.0%	1.4%	7.3%
	2020-21	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	2021-22	1st Grade	2,248	97.1%	0.6%	0.4%	1.2%	0.7%
		Kindergarten	2,590	94.2%	2.0%	0.2%	2.0%	1.6%
	2020-21	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	2021-22	1st Grade	407	93.9%	0.0%	0.7%	3.7%	1.7%
		Kindergarten	417	92.8%	1.2%	0.0%	4.1%	1.9%
	2020-21	Kindergarten	362	90.9%	1.7%	0.6%	5.5%	1.4%
		Kindergarten	455	93.8%	1.8%	1.5%	1.8%	1.1%
COLUSA	2021-22	1st Grade	322	≥99.0%	≤1.0%	0.0%	0.0%	0.9%
		Kindergarten	392	98.0%	1.0%	0.3%	0.5%	0.3%
	2020-21	Kindergarten	346	94.5%	0.0%	0.0%	0.0%	5.5%
		Kindergarten	372	96.8%	0.3%	0.0%	0.0%	3.0%
CONTRA COSTA	2021-22	1st Grade	12,459	97.1%	0.6%	0.4%	0.4%	1.5%
		Kindergarten	14,248	95.1%	1.0%	0.2%	0.8%	2.9%
	2020-21	Kindergarten	14,400	94.8%	0.6%	0.5%	0.5%	3.6%
		Kindergarten	15,692	96.2%	1.6%	0.8%	0.3%	1.2%
DEL NORTE	2021-22	1st Grade	282	94.7%	0.4%	1.8%	1.8%	1.4%
		Kindergarten	351	88.6%	2.3%	1.4%	4.6%	3.1%
	2020-21	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	2021-22	1st Grade	2,213	85.9%	0.5%	2.2%	10.6%	0.8%
		Kindergarten	2,721	78.2%	1.7%	0.4%	17.2%	2.5%
	2020-21	Kindergarten	2,373	82.0%	1.8%	2.9%	11.6%	1.7%
		Kindergarten	2,909	79.7%	2.2%	4.3%	13.5%	0.3%
FRESNO	2021-22	1st Grade	14,941	97.7%	0.3%	0.1%	1.3%	0.5%
		Kindergarten	16,906	95.6%	0.9%	0.1%	2.0%	1.5%
	2020-21	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	2021-22	1st Grade	491	88.0%	0.4%	0.0%	11.4%	0.2%
		Kindergarten	572	85.1%	0.5%	0.0%	13.1%	1.2%
	2020-21	Kindergarten	544	88.4%	0.6%	0.2%	8.8%	2.0%
		Kindergarten	576	86.1%	1.4%	0.7%	10.9%	0.9%
HUMBOLDT	2021-22	1st Grade	1,260	90.0%	0.8%	3.4%	2.3%	3.5%
		Kindergarten	1,526	85.5%	2.5%	3.7%	3.0%	5.4%
	2020-21	Kindergarten	1,447	87.8%	1.0%	3.9%	2.0%	5.3%
		Kindergarten	1,715	88.0%	2.7%	5.6%	0.7%	3.0%

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 3: Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, By County\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Medical Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	96.0%	0.6%	0.4%	1.7%	1.3%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	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%
IMPERIAL	2021-22	1st Grade	2,511	96.3%	0.2%	0.2%	0.8%	2.5%
		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%
		Kindergarten	3,117	95.7%	2.5%	0.2%	0.4%	1.2%
INYO	2021-22	1st Grade	207	94.7%	1.0%	0.0%	0.0%	4.3%
		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%
		Kindergarten	271	97.0%	2.6%	0.4%	0.0%	0.0%
KERN	2021-22	1st Grade	14,092	91.1%	0.6%	0.3%	6.7%	1.3%
		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%
		Kindergarten	18,327	88.6%	1.4%	0.7%	8.0%	1.3%
KINGS	2021-22	1st Grade	2,055	97.8%	0.5%	0.1%	0.8%	0.8%
		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%
		Kindergarten	2,576	96.9%	2.0%	0.2%	0.4%	0.4%
LAKE	2021-22	1st Grade	754	95.8%	1.5%	0.7%	0.8%	1.3%
		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%
		Kindergarten	796	90.8%	3.1%	0.8%	0.8%	4.5%
LASSEN	2021-22	1st Grade	309	92.6%	1.3%	1.0%	1.3%	3.9%
		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%
		Kindergarten	350	92.0%	5.4%	1.4%	0.9%	0.3%
LOS ANGELES	2021-22	1st Grade	95,509	96.6%	0.5%	0.3%	0.8%	1.8%
		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%
		Kindergarten	133,622	94.5%	1.7%	0.6%	0.8%	2.4%
MADERA	2021-22	1st Grade	2,328	97.9%	0.2%	0.0%	0.6%	1.3%
		Kindergarten	2,636	95.3%	1.5%	0.1%	0.8%	2.3%
	2020-21	Kindergarten	2,586	96.8%	0.4%	0.2%	0.8%	1.9%
		Kindergarten	2,727	96.1%	1.5%	0.3%	0.8%	1.4%
MARIN	2021-22	1st Grade	2,643	97.7%	0.7%	1.3%	0.1%	0.3%
		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%
		Kindergarten	3,252	93.9%	2.3%	2.9%	0.3%	0.6%
MARIPOSA	2021-22	1st Grade	146	91.1%	2.1%	1.4%	2.1%	3.4%
		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%
		Kindergarten	160	93.1%	5.6%	0.0%	1.3%	0.0%
MENDOCINO	2021-22	1st Grade	976	93.0%	1.0%	0.9%	1.0%	4.0%
		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%
		Kindergarten	1,218	85.7%	7.2%	3.0%	0.6%	3.4%
MERCED	2021-22	1st Grade	4,161	97.2%	0.6%	0.1%	0.9%	1.1%
		Kindergarten	5,007	95.4%	1.6%	0.0%	1.3%	1.7%
	2020-21	Kindergarten	4,566	94.4%	1.1%	0.1%	0.6%	3.8%
		Kindergarten	5,321	96.7%	1.6%	0.1%	0.6%	1.1%

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 3: Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, By County\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Medical Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	96.0%	0.6%	0.4%	1.7%	1.3%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	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%
MODOC	2021-22	1st Grade	120	96.7%	2.5%	0.0%	0.0%	0.8%
		Kindergarten	102	94.1%	2.0%	0.0%	0.0%	3.9%
	2020-21	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	2021-22	1st Grade	116	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
		Kindergarten	148	96.6%	2.7%	0.0%	0.7%	0.0%
	2020-21	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	2021-22	1st Grade	5,150	98.4%	0.5%	0.2%	0.1%	0.9%
		Kindergarten	6,357	97.5%	0.8%	0.1%	0.2%	1.4%
	2020-21	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	2021-22	1st Grade	1,449	96.8%	0.4%	0.6%	1.7%	0.6%
		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%
		Kindergarten	1,746	96.6%	0.8%	1.4%	0.3%	0.9%
NEVADA	2021-22	1st Grade	696	84.8%	1.9%	3.7%	6.3%	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	2021-22	1st Grade	32,231	97.5%	0.5%	0.4%	0.8%	0.8%
		Kindergarten	38,034	96.0%	1.0%	0.3%	1.2%	1.4%
	2020-21	Kindergarten	36,305	94.7%	0.9%	0.8%	0.8%	2.8%
		Kindergarten	41,381	95.5%	1.5%	1.1%	0.8%	1.1%
PLACER	2021-22	1st Grade	5,261	94.6%	1.1%	1.7%	1.6%	1.0%
		Kindergarten	6,549	92.9%	2.0%	0.8%	2.5%	1.8%
	2020-21	Kindergarten	5,628	92.7%	1.8%	2.2%	0.7%	2.6%
		Kindergarten	6,709	90.5%	2.4%	3.3%	1.3%	2.5%
PLUMAS	2021-22	1st Grade	155	93.5%	1.9%	1.3%	1.9%	1.3%
		Kindergarten	202	91.1%	3.0%	0.5%	3.5%	2.0%
	2020-21	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	2021-22	1st Grade	29,235	96.0%	0.5%	0.3%	2.1%	1.0%
		Kindergarten	33,796	93.8%	1.6%	0.2%	2.4%	2.1%
	2020-21	Kindergarten	31,555	92.2%	0.7%	0.5%	2.8%	3.8%
		Kindergarten	36,134	93.6%	1.9%	0.9%	2.6%	1.1%
SACRAMENTO	2021-22	1st Grade	18,030	95.0%	1.1%	0.8%	1.5%	1.7%
		Kindergarten	19,897	92.7%	1.9%	0.3%	2.1%	3.0%
	2020-21	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	2021-22	1st Grade	846	97.8%	0.1%	0.4%	0.0%	1.8%
		Kindergarten	983	97.0%	0.5%	0.2%	0.1%	2.1%
	2020-21	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%
SAN BERNARDINO	2021-22	1st Grade	28,985	94.7%	0.5%	0.2%	3.1%	1.5%
		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%
		Kindergarten	34,542	93.9%	1.8%	0.4%	2.5%	1.4%

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 3: Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, By County\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Medical Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	96.0%	0.6%	0.4%	1.7%	1.3%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	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%
SAN DIEGO	2021-22	1st Grade	36,235	95.3%	0.7%	0.3%	3.1%	0.6%
		Kindergarten	41,632	93.3%	1.4%	0.2%	3.9%	1.1%
	2020-21	Kindergarten	40,748	93.9%	1.0%	0.7%	3.3%	1.1%
		Kindergarten	45,956	93.0%	1.5%	1.4%	3.6%	0.5%
SAN FRANCISCO	2021-22	1st Grade	5,519	95.6%	0.2%	0.2%	0.1%	3.9%
		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%
		Kindergarten	6,963	95.3%	1.1%	0.7%	0.0%	2.8%
SAN JOAQUIN	2021-22	1st Grade	10,750	96.7%	0.5%	0.1%	2.0%	0.8%
		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%
		Kindergarten	12,320	95.0%	1.7%	0.4%	1.4%	1.4%
SAN LUIS OBISPO	2021-22	1st Grade	2,451	97.1%	0.5%	0.8%	0.7%	0.9%
		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%
		Kindergarten	3,095	94.2%	1.8%	2.2%	0.8%	0.9%
SAN MATEO	2021-22	1st Grade	7,250	97.5%	0.4%	0.3%	0.4%	1.5%
		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%
		Kindergarten	9,168	96.6%	1.3%	0.7%	0.1%	1.3%
SANTA BARBARA	2021-22	1st Grade	5,232	97.2%	0.6%	0.5%	1.2%	0.4%
		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%
		Kindergarten	6,500	96.2%	1.4%	1.4%	0.4%	0.5%
SANTA CLARA	2021-22	1st Grade	19,070	97.6%	0.3%	0.4%	0.4%	1.2%
		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%
		Kindergarten	24,963	96.4%	1.3%	0.7%	0.2%	1.4%
SANTA CRUZ	2021-22	1st Grade	2,938	92.2%	0.8%	0.9%	5.7%	0.4%
		Kindergarten	3,307	91.1%	2.0%	0.3%	5.9%	0.8%
	2020-21	Kindergarten	3,097	88.8%	1.1%	1.7%	6.3%	2.1%
		Kindergarten	3,415	89.3%	2.2%	2.8%	4.6%	1.2%
SHASTA	2021-22	1st Grade	1,959	93.0%	0.7%	1.6%	3.3%	1.4%
		Kindergarten	2,511	89.5%	3.1%	1.0%	3.7%	2.7%
	2020-21	Kindergarten	2,189	88.6%	2.1%	2.5%	3.6%	3.2%
		Kindergarten	2,525	89.5%	3.2%	2.7%	2.9%	1.7%
SIERRA	2021-22	1st Grade	34	≥95.0%	≤5.0%	0.0%	0.0%	0.0%
		Kindergarten	32	96.9%	0.0%	0.0%	0.0%	3.1%
	2020-21	Kindergarten	23	≥95.0%	≤5.0%	0.0%	0.0%	0.0%
		Kindergarten	25	≥95.0%	≤5.0%	0.0%	0.0%	0.0%
SISKIYOU	2021-22	1st Grade	383	88.8%	2.6%	0.3%	6.8%	1.6%
		Kindergarten	500	87.6%	5.2%	0.0%	4.6%	2.6%
	2020-21	Kindergarten	463	89.0%	1.5%	0.4%	6.7%	2.4%
		Kindergarten	530	94.9%	1.9%	1.1%	0.6%	1.5%
SOLANO	2021-22	1st Grade	4,451	98.2%	0.7%	0.2%	0.3%	0.6%
		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%
		Kindergarten	5,966	94.5%	1.5%	0.5%	0.1%	3.4%

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 3: Total Enrollment and Admission Status of Kindergarten, 2021-2022, 2020-2021 and 2019-2020 School Years and First Grade, 2021-2022 School Year, By County\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Medical Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	96.0%	0.6%	0.4%	1.7%	1.3%
		Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	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%
SONOMA	2021-22	1st Grade	4,657	94.0%	1.2%	0.9%	2.1%	1.7%
		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%
		Kindergarten	6,043	92.3%	2.1%	3.1%	0.7%	1.8%
STANISLAUS	2021-22	1st Grade	7,858	96.1%	0.8%	0.2%	1.5%	1.4%
		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%
		Kindergarten	9,366	95.7%	2.0%	0.7%	0.3%	1.4%
SUTTER	2021-22	1st Grade	1,691	81.5%	0.2%	0.7%	17.1%	0.6%
		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%
		Kindergarten	2,017	85.3%	0.6%	0.9%	13.0%	0.1%
TEHAMA	2021-22	1st Grade	834	97.6%	0.4%	0.6%	1.0%	0.5%
		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%
		Kindergarten	1,073	93.6%	2.1%	0.7%	1.2%	2.4%
TRINITY	2021-22	1st Grade	115	88.7%	0.9%	4.3%	1.7%	4.3%
		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%
		Kindergarten	138	87.0%	4.3%	5.1%	0.7%	2.9%
TULARE	2021-22	1st Grade	7,322	97.8%	0.3%	0.2%	1.2%	0.5%
		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%
		Kindergarten	9,535	96.5%	1.2%	0.2%	1.8%	0.3%
TUOLUMNE	2021-22	1st Grade	469	89.1%	4.7%	1.3%	3.2%	1.7%
		Kindergarten	566	86.9%	2.1%	6.2%	2.1%	2.7%
	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	2021-22	1st Grade	9,403	96.9%	0.6%	0.5%	1.4%	0.7%
		Kindergarten	10,540	95.1%	1.4%	0.2%	1.6%	1.7%
	2020-21	Kindergarten	10,410	94.9%	1.1%	0.7%	1.3%	2.1%
		Kindergarten	11,466	95.5%	1.7%	1.1%	0.6%	1.1%
YOLO	2021-22	1st Grade	2,383	94.6%	0.9%	0.5%	2.0%	2.0%
		Kindergarten	2,746	94.1%	0.9%	0.3%	2.4%	2.3%
	2020-21	Kindergarten	2,535	92.6%	0.9%	0.6%	2.4%	3.6%
		Kindergarten	2,959	94.3%	2.0%	1.6%	0.9%	1.1%
YUBA	2021-22	1st Grade	1,167	94.3%	2.2%	0.1%	1.4%	2.0%
		Kindergarten	1,372	90.3%	4.7%	0.3%	2.3%	2.3%
	2020-21	Kindergarten	1,154	88.8%	0.9%	0.1%	3.0%	7.2%
		Kindergarten	1,361	92.8%	2.4%	0.4%	2.1%	2.2%

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

\*\* 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 1st Grade Immunization Assessment - California, 2021-2022  
 Table 4: Total Enrollment and Specific Required Immunizations by Series,  
 Kindergarten, 2021-2022, 2020-2021, 2019-2020 and First Grade, 2021-2022, By County\*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	97.1%	97.4%	97.5%	98.0%	97.2%
		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%
		Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
ALAMEDA	2021-22	1st Grade	16,710	98.0%	98.3%	98.4%	98.6%	97.7%
		Kindergarten	19,422	96.7%	97.2%	97.2%	97.8%	96.6%
	2020-21	Kindergarten	19,752	92.0%	92.5%	92.6%	93.5%	92.2%
		Kindergarten	21,622	98.1%	98.4%	98.5%	98.7%	97.7%
ALPINE	2021-22	1st Grade	--*	--*	--*	--*	--*	--*
		Kindergarten	--*	--*	--*	--*	--*	
	2020-21	Kindergarten	--*	--*	--*	--*	--*	
		Kindergarten	9	--*	--*	--*	--*	
AMADOR	2021-22	1st Grade	350	94.6%	95.7%	96.3%	96.6%	95.4%
		Kindergarten	355	91.5%	93.2%	94.1%	97.2%	93.5%
	2020-21	Kindergarten	367	94.6%	94.8%	94.6%	96.7%	94.3%
		Kindergarten	308	93.8%	95.1%	94.5%	94.8%	93.2%
BUTTE	2021-22	1st Grade	2,248	97.8%	98.1%	98.1%	98.5%	97.9%
		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%
		Kindergarten	2,742	96.5%	97.2%	97.5%	97.8%	97.2%
CALAVERAS	2021-22	1st Grade	407	95.1%	95.8%	95.8%	97.1%	95.3%
		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%
		Kindergarten	455	95.4%	95.4%	95.6%	96.9%	94.9%
COLUSA	2021-22	1st Grade	322	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
		Kindergarten	392	98.5%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	2020-21	Kindergarten	346	97.1%	96.8%	96.5%	98.0%	96.5%
		Kindergarten	372	≥99.0%	≥99.0%	≥99.0%	≥99.0%	97.6%
CONTRA COSTA	2021-22	1st Grade	12,459	98.0%	98.4%	98.5%	98.7%	98.1%
		Kindergarten	14,248	96.9%	97.3%	97.5%	98.2%	97.0%
	2020-21	Kindergarten	14,400	96.2%	96.7%	96.4%	98.2%	96.3%
		Kindergarten	15,692	97.5%	97.8%	97.9%	98.5%	97.5%
DEL NORTE	2021-22	1st Grade	282	95.0%	95.7%	96.1%	96.8%	95.4%
		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%
		Kindergarten	394	98.0%	≥99.0%	98.5%	98.7%	98.2%
EL DORADO	2021-22	1st Grade	2,213	90.0%	90.1%	89.3%	91.1%	89.0%
		Kindergarten	2,721	83.9%	84.0%	83.6%	87.0%	82.7%
	2020-21	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	2021-22	1st Grade	14,941	98.6%	98.8%	98.8%	≥99.0%	98.7%
		Kindergarten	16,906	97.0%	97.4%	97.5%	98.0%	97.4%
	2020-21	Kindergarten	16,220	97.9%	98.3%	98.3%	98.8%	98.2%
		Kindergarten	18,461	97.3%	97.7%	97.9%	98.4%	97.7%
GLENN	2021-22	1st Grade	491	89.0%	88.8%	89.4%	90.0%	88.4%
		Kindergarten	572	87.2%	88.1%	87.4%	89.5%	86.2%
	2020-21	Kindergarten	544	89.9%	89.9%	90.6%	92.3%	89.7%
		Kindergarten	576	87.8%	88.5%	88.5%	90.8%	88.0%
HUMBOLDT	2021-22	1st Grade	1,260	93.1%	93.3%	93.7%	94.0%	93.8%
		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%
		Kindergarten	1,715	92.2%	92.0%	92.3%	92.2%	91.5%

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	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	97.1%	97.4%	97.5%	98.0%	97.2%
		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%
		Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
IMPERIAL	2021-22	1st Grade	2,511	98.1%	98.0%	98.5%	≥99.0%	98.6%
		Kindergarten	2,754	96.4%	97.4%	97.2%	≥99.0%	98.0%
	2020-21	Kindergarten	2,762	95.4%	97.1%	94.8%	98.3%	96.1%
		Kindergarten	3,117	97.9%	98.8%	98.0%	≥99.0%	97.9%
INYO	2021-22	1st Grade	207	96.1%	96.6%	95.2%	≥99.0%	96.1%
		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%
		Kindergarten	271	97.8%	98.5%	98.9%	98.9%	98.5%
KERN	2021-22	1st Grade	14,092	92.7%	93.2%	93.5%	95.1%	92.9%
		Kindergarten	16,369	90.1%	91.3%	91.6%	93.7%	91.6%
	2020-21	Kindergarten	15,354	89.9%	91.0%	90.9%	94.1%	90.4%
		Kindergarten	18,327	93.6%	91.4%	91.3%	94.0%	90.8%
KINGS	2021-22	1st Grade	2,055	98.5%	98.7%	98.7%	≥99.0%	98.3%
		Kindergarten	2,458	96.9%	98.3%	98.1%	98.6%	97.8%
	2020-21	Kindergarten	2,341	98.4%	98.5%	98.6%	≥99.0%	98.6%
		Kindergarten	2,576	97.8%	98.9%	≥99.0%	≥99.0%	98.7%
LAKE	2021-22	1st Grade	754	96.9%	97.1%	97.9%	98.1%	97.3%
		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%
		Kindergarten	796	92.7%	94.7%	95.4%	96.7%	95.1%
LASSEN	2021-22	1st Grade	309	93.5%	94.5%	94.8%	93.2%	94.8%
		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%
		Kindergarten	350	94.0%	96.3%	96.3%	96.3%	94.9%
LOS ANGELES	2021-22	1st Grade	95,509	97.9%	98.0%	98.1%	98.6%	97.7%
		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%
		Kindergarten	133,622	96.8%	97.1%	97.0%	98.2%	96.4%
MADERA	2021-22	1st Grade	2,328	98.2%	98.2%	98.4%	98.7%	98.4%
		Kindergarten	2,636	96.7%	97.3%	97.5%	97.8%	97.7%
	2020-21	Kindergarten	2,586	97.4%	97.6%	97.8%	97.9%	97.6%
		Kindergarten	2,727	97.2%	97.7%	98.0%	98.1%	97.8%
MARIN	2021-22	1st Grade	2,643	98.6%	98.6%	98.6%	98.7%	98.3%
		Kindergarten	2,847	98.5%	98.6%	≥99.0%	98.5%	98.3%
	2020-21	Kindergarten	2,832	97.4%	97.6%	97.7%	97.9%	97.2%
		Kindergarten	3,252	96.0%	96.6%	96.9%	96.8%	95.8%
MARIPOSA	2021-22	1st Grade	146	92.5%	95.2%	95.9%	95.9%	93.8%
		Kindergarten	171	93.6%	97.7%	97.7%	97.1%	95.3%
	2020-21	Kindergarten	163	87.1%	89.0%	90.2%	92.0%	89.0%
		Kindergarten	160	95.0%	95.6%	95.6%	97.5%	95.6%
MENDOCINO	2021-22	1st Grade	976	94.6%	95.5%	96.2%	96.1%	95.5%
		Kindergarten	1,183	92.1%	93.7%	93.7%	94.3%	92.6%
	2020-21	Kindergarten	1,084	90.6%	91.4%	91.9%	92.7%	90.6%
		Kindergarten	1,218	88.8%	89.9%	89.7%	89.7%	88.7%
MERCED	2021-22	1st Grade	4,161	98.2%	98.3%	98.5%	≥99.0%	98.1%
		Kindergarten	5,007	96.7%	97.4%	97.4%	98.4%	97.2%
	2020-21	Kindergarten	4,566	96.0%	96.5%	96.8%	98.9%	96.4%
		Kindergarten	5,321	97.6%	98.7%	98.7%	≥99.0%	98.2%

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	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	97.1%	97.4%	97.5%	98.0%	97.2%
		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%
		Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
MODOC	2021-22	1st Grade	120	96.7%	98.3%	≥99.0%	≥99.0%	≥99.0%
		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%
		Kindergarten	120	96.7%	96.7%	97.5%	≥99.0%	96.7%
MONO	2021-22	1st Grade	116	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
		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%
		Kindergarten	138	92.0%	90.6%	92.8%	92.0%	92.8%
MONTEREY	2021-22	1st Grade	5,150	≥99.0%	≥99.0%	≥99.0%	≥99.0%	98.9%
		Kindergarten	6,357	98.6%	98.7%	98.8%	≥99.0%	98.5%
	2020-21	Kindergarten	6,220	98.4%	98.6%	98.8%	≥99.0%	98.6%
		Kindergarten	6,733	98.2%	98.4%	98.6%	98.8%	98.2%
NAPA	2021-22	1st Grade	1,449	≥99.0%	97.5%	≥99.0%	98.8%	98.9%
		Kindergarten	1,581	98.5%	98.0%	98.8%	≥99.0%	98.7%
	2020-21	Kindergarten	1,596	96.6%	96.5%	96.7%	96.9%	96.6%
		Kindergarten	1,746	98.3%	98.3%	98.0%	97.8%	97.9%
NEVADA	2021-22	1st Grade	696	86.5%	87.1%	87.1%	87.9%	86.6%
		Kindergarten	927	86.3%	87.1%	86.9%	89.1%	86.9%
	2020-21	Kindergarten	834	84.8%	84.9%	85.4%	87.9%	85.0%
		Kindergarten	985	83.5%	83.1%	83.2%	83.6%	81.5%
ORANGE	2021-22	1st Grade	32,231	98.3%	98.5%	98.5%	98.9%	98.3%
		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%
		Kindergarten	41,381	97.2%	97.5%	97.4%	98.1%	97.1%
PLACER	2021-22	1st Grade	5,261	95.8%	96.0%	96.3%	96.6%	96.1%
		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%
		Kindergarten	6,709	93.9%	94.5%	93.7%	95.0%	93.3%
PLUMAS	2021-22	1st Grade	155	96.1%	96.8%	96.8%	97.4%	96.1%
		Kindergarten	202	96.0%	95.5%	96.0%	96.5%	93.6%
	2020-21	Kindergarten	191	93.7%	93.7%	94.8%	97.9%	93.7%
		Kindergarten	208	96.2%	95.2%	96.6%	96.6%	93.8%
RIVERSIDE	2021-22	1st Grade	29,235	97.0%	97.5%	97.5%	97.9%	97.4%
		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%
		Kindergarten	36,134	95.1%	95.7%	95.8%	96.1%	95.3%
SACRAMENTO	2021-22	1st Grade	18,030	96.1%	96.7%	97.1%	97.5%	96.7%
		Kindergarten	19,897	94.3%	95.5%	95.8%	96.5%	95.6%
	2020-21	Kindergarten	19,509	93.7%	94.6%	94.5%	96.3%	94.2%
		Kindergarten	21,495	95.0%	95.9%	95.8%	96.5%	95.5%
SAN BENITO	2021-22	1st Grade	846	98.1%	98.6%	≥99.0%	≥99.0%	98.9%
		Kindergarten	983	98.0%	98.3%	98.9%	≥99.0%	98.8%
	2020-21	Kindergarten	991	93.8%	93.8%	93.8%	98.3%	95.8%
		Kindergarten	1,099	97.8%	97.8%	97.4%	98.7%	97.9%
SAN BERNARDINO	2021-22	1st Grade	28,985	95.7%	96.1%	96.3%	97.0%	96.0%
		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%
		Kindergarten	34,542	95.2%	96.0%	96.2%	97.5%	96.1%

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			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	97.1%	97.4%	97.5%	98.0%	97.2%
		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%
		Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
SAN DIEGO	2021-22	1st Grade	36,235	96.3%	96.5%	96.6%	97.1%	96.3%
		Kindergarten	41,632	94.7%	95.3%	95.3%	96.4%	94.9%
	2020-21	Kindergarten	40,748	95.2%	95.6%	95.4%	96.7%	95.2%
		Kindergarten	45,956	94.5%	94.9%	94.8%	95.5%	94.4%
SAN FRANCISCO	2021-22	1st Grade	5,519	96.6%	96.9%	97.3%	97.4%	97.8%
		Kindergarten	6,068	95.9%	96.3%	96.4%	97.0%	95.8%
	2020-21	Kindergarten	6,325	94.2%	94.9%	95.1%	95.5%	94.8%
		Kindergarten	6,963	97.3%	97.7%	97.6%	97.9%	96.9%
SAN JOAQUIN	2021-22	1st Grade	10,750	97.3%	97.8%	97.8%	98.4%	97.8%
		Kindergarten	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%
		Kindergarten	12,320	96.5%	97.5%	97.5%	98.5%	96.9%
SAN LUIS OBISPO	2021-22	1st Grade	2,451	98.0%	97.9%	98.3%	98.8%	98.2%
		Kindergarten	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%
		Kindergarten	3,095	95.9%	96.3%	96.2%	97.2%	95.7%
SAN MATEO	2021-22	1st Grade	7,250	98.6%	98.9%	98.9%	98.9%	98.2%
		Kindergarten	8,028	97.8%	98.4%	98.2%	98.7%	97.5%
	2020-21	Kindergarten	8,140	98.1%	98.5%	98.3%	≥99.0%	97.9%
		Kindergarten	9,168	97.9%	98.1%	98.1%	98.6%	97.4%
SANTA BARBARA	2021-22	1st Grade	5,232	98.2%	98.4%	98.5%	98.6%	98.0%
		Kindergarten	6,066	97.6%	97.8%	98.0%	98.4%	97.5%
	2020-21	Kindergarten	5,473	96.7%	97.4%	97.0%	98.1%	96.7%
		Kindergarten	6,500	97.6%	98.0%	97.9%	98.2%	97.4%
SANTA CLARA	2021-22	1st Grade	19,070	98.5%	98.7%	98.7%	98.9%	98.3%
		Kindergarten	21,901	97.8%	98.3%	98.1%	98.7%	97.8%
	2020-21	Kindergarten	21,759	97.3%	97.7%	97.6%	98.6%	97.1%
		Kindergarten	24,963	98.1%	98.5%	98.2%	98.8%	97.6%
SANTA CRUZ	2021-22	1st Grade	2,938	93.9%	93.6%	93.9%	94.6%	93.5%
		Kindergarten	3,307	93.5%	93.3%	94.1%	94.6%	93.5%
	2020-21	Kindergarten	3,097	93.3%	93.3%	92.2%	93.5%	92.4%
		Kindergarten	3,415	92.4%	92.4%	92.6%	93.1%	93.1%
SHASTA	2021-22	1st Grade	1,959	94.2%	94.6%	94.8%	95.5%	94.8%
		Kindergarten	2,511	91.0%	92.0%	92.6%	94.5%	92.9%
	2020-21	Kindergarten	2,189	91.2%	92.3%	91.9%	94.7%	92.1%
		Kindergarten	2,525	93.1%	93.3%	93.8%	95.2%	92.9%
SIERRA	2021-22	1st Grade	34	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
		Kindergarten	32	≥99.0%	≥99.0%	96.9%	≥99.0%	≥99.0%
	2020-21	Kindergarten	23	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
		Kindergarten	25	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
SISKIYOU	2021-22	1st Grade	383	94.0%	92.7%	93.7%	95.0%	93.7%
		Kindergarten	500	92.4%	93.0%	93.0%	93.8%	93.8%
	2020-21	Kindergarten	463	91.1%	91.6%	90.7%	91.6%	91.8%
		Kindergarten	530	97.2%	97.4%	97.5%	97.7%	97.5%
SOLANO	2021-22	1st Grade	4,451	98.8%	≥99.0%	≥99.0%	≥99.0%	98.9%
		Kindergarten	5,236	97.6%	98.2%	98.3%	98.7%	98.0%
	2020-21	Kindergarten	5,036	96.4%	97.3%	96.7%	98.0%	96.5%
		Kindergarten	5,966	97.3%	98.0%	98.1%	98.4%	97.6%

Kindergarten and 1st Grade Immunization Assessment - California, 2021-2022  
 Table 4: Total Enrollment and Specific Required Immunizations by Series,  
 Kindergarten, 2021-2022, 2020-2021, 2019-2020 and First Grade, 2021-2022, By County\*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
STATE TOTAL	2021-22	1st Grade	431,819	97.1%	97.4%	97.5%	98.0%	97.2%
		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%
		Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
SONOMA	2021-22	1st Grade	4,657	95.7%	96.0%	96.3%	96.4%	95.7%
		Kindergarten	5,931	94.4%	94.7%	95.0%	95.8%	94.6%
	2020-21	Kindergarten	5,566	93.4%	93.9%	94.0%	96.1%	93.4%
		Kindergarten	6,043	94.7%	94.8%	94.7%	95.3%	94.3%
STANISLAUS	2021-22	1st Grade	7,858	97.0%	97.5%	97.7%	98.3%	97.5%
		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%
		Kindergarten	9,366	96.7%	97.7%	97.8%	98.2%	97.6%
SUTTER	2021-22	1st Grade	1,691	83.3%	83.3%	83.9%	86.6%	83.2%
		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%
		Kindergarten	2,017	86.7%	87.3%	87.9%	89.8%	88.5%
TEHAMA	2021-22	1st Grade	834	98.3%	98.7%	98.6%	98.8%	98.6%
		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%
		Kindergarten	1,073	95.4%	96.8%	96.6%	97.9%	95.6%
TRINITY	2021-22	1st Grade	115	91.3%	89.6%	90.4%	93.9%	89.6%
		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%
		Kindergarten	138	89.1%	87.7%	91.3%	92.0%	92.0%
TULARE	2021-22	1st Grade	7,322	98.9%	≥99.0%	98.9%	≥99.0%	98.7%
		Kindergarten	8,542	97.9%	98.1%	98.2%	98.6%	97.8%
	2020-21	Kindergarten	8,344	97.5%	97.7%	97.8%	98.7%	97.7%
		Kindergarten	9,535	97.3%	97.9%	97.9%	98.4%	97.7%
TUOLUMNE	2021-22	1st Grade	469	91.7%	94.2%	93.0%	94.2%	92.8%
		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%
		Kindergarten	584	92.6%	93.8%	93.7%	95.0%	93.5%
VENTURA	2021-22	1st Grade	9,403	97.6%	97.7%	97.8%	98.1%	97.4%
		Kindergarten	10,540	96.6%	97.1%	97.1%	98.0%	96.8%
	2020-21	Kindergarten	10,410	96.3%	96.5%	96.6%	97.6%	96.4%
		Kindergarten	11,466	96.9%	97.3%	97.3%	98.0%	96.7%
YOLO	2021-22	1st Grade	2,383	96.3%	96.7%	96.6%	97.0%	96.3%
		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%
		Kindergarten	2,959	96.1%	96.3%	96.6%	97.5%	96.0%
YUBA	2021-22	1st Grade	1,167	95.6%	95.7%	96.1%	96.5%	95.8%
		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%
		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 ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100 or more enrollees, values of 99% or higher are listed as ≥99%.

\*\* Schools did not report.

**APPENDIX L**

**2022-2023 KINDERGARTEN AND FIRST GRADE IMMUNIZATION  
ASSESSMENT**

## 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.

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### 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](#).

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### 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 all required immunizations, including the following doses:
  - 5 or more of Diphtheria, Tetanus and Pertussis (DTP) vaccine (4 doses are acceptable if at least 1 dose was received on or after the fourth birthday): ['4+DTP'];
  - 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'];
  - 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
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
  - A home-based private school or
  - A public independent study program and do not receive classroom-based instruction.
  - In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.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 overdue for one or more required immunizations and subject to exclusion from school until the overdue requirements have been met.

Personal beliefs exemptions (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.

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## 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.

All required immunizations: 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.

Specific immunization series: 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 PME 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.

Conditional entrants: 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 [public school](#) and [private school enrollment](#) 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 [CDC](#):

	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.

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## 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, [CDE private school data](#) 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.

## Figures

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

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

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

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## Tables

Table 1. Kindergarten Immunization Assessment Summary, 2020-2021 to 2022-2023

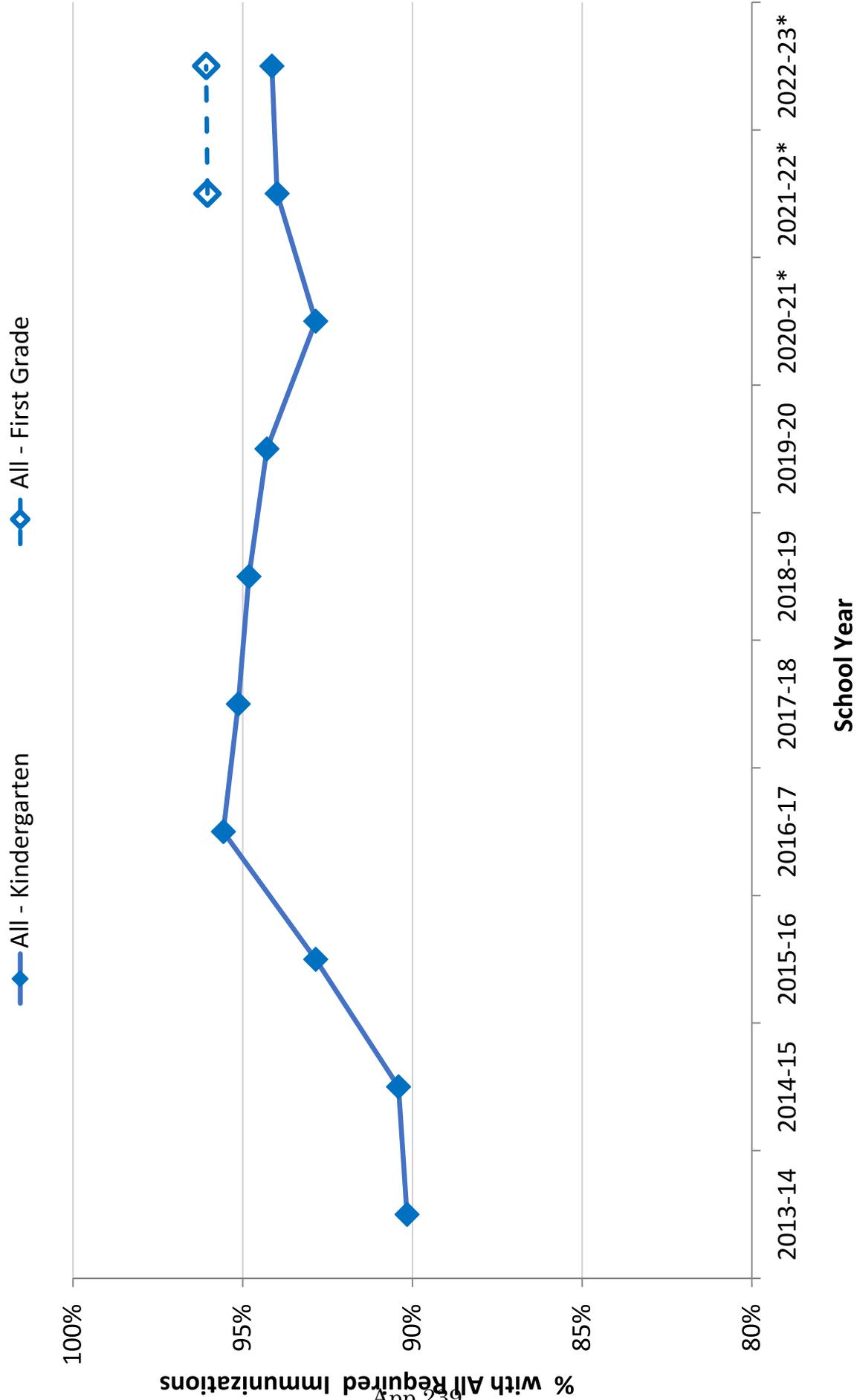
Table 2. First Grade Immunization Assessment, 2021-2022 to 2022-2023

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

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

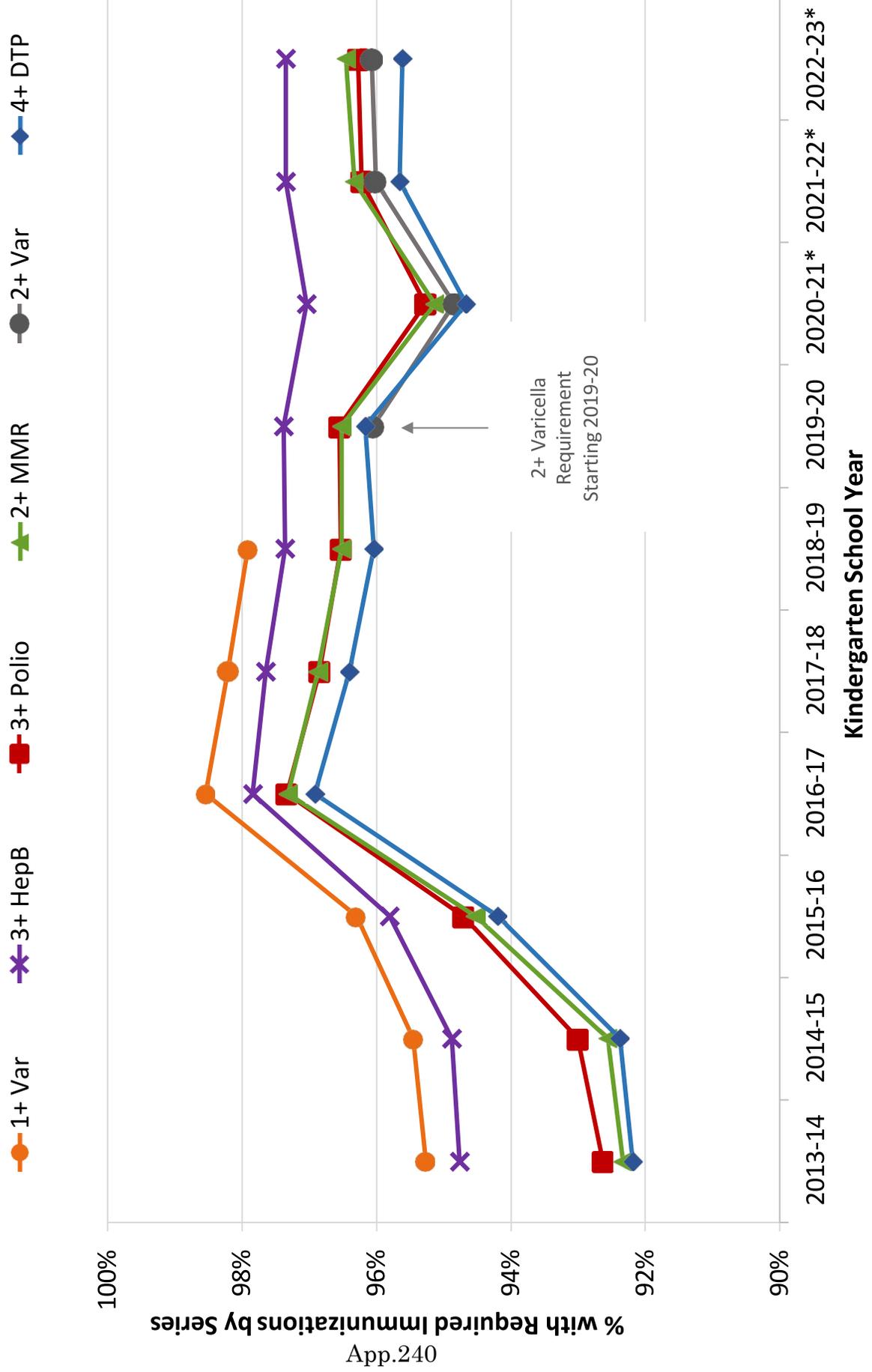
[Download Data](#)

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



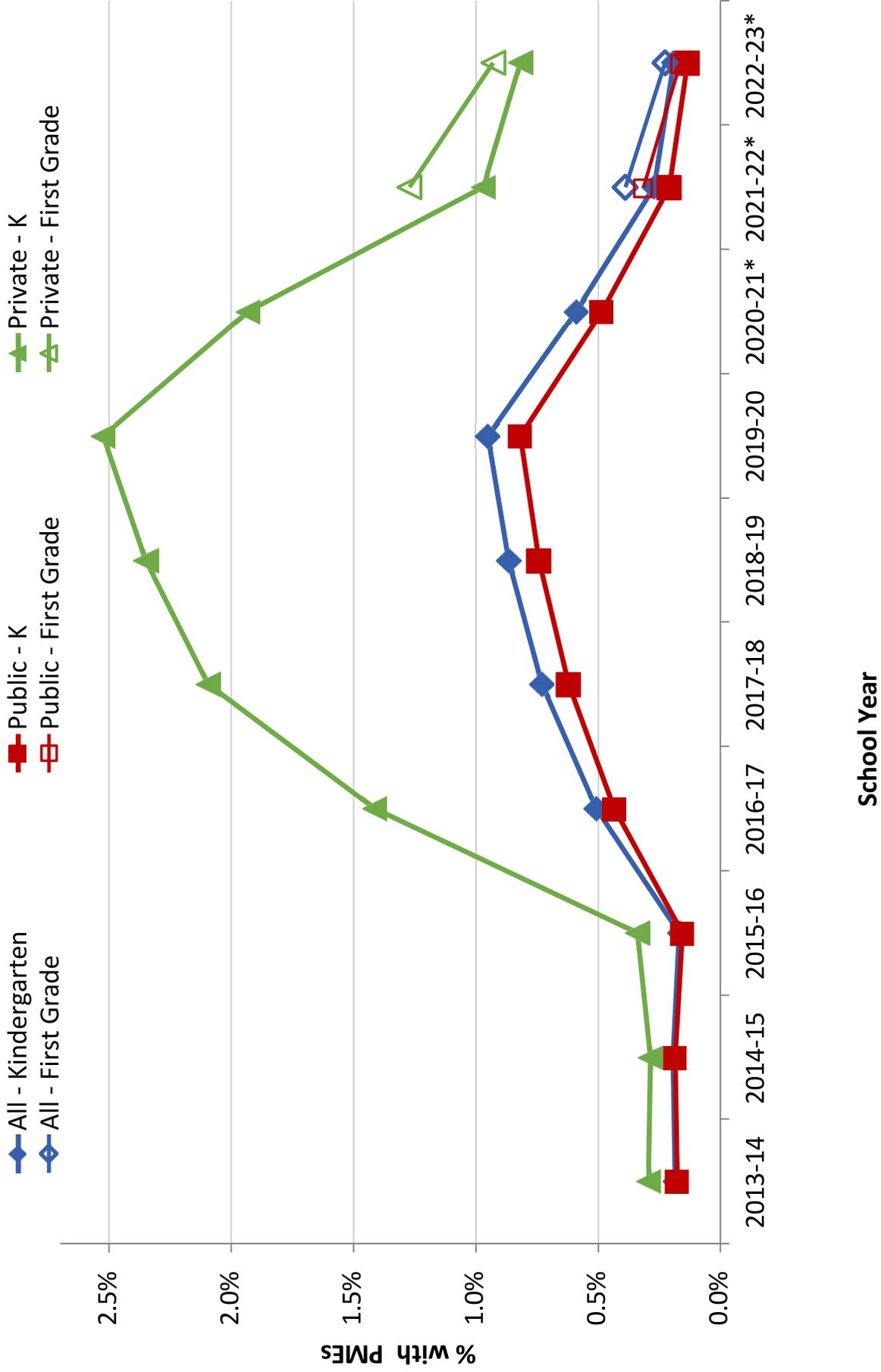
\*COVID-19 pandemic.

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



\* COVID-19 pandemic

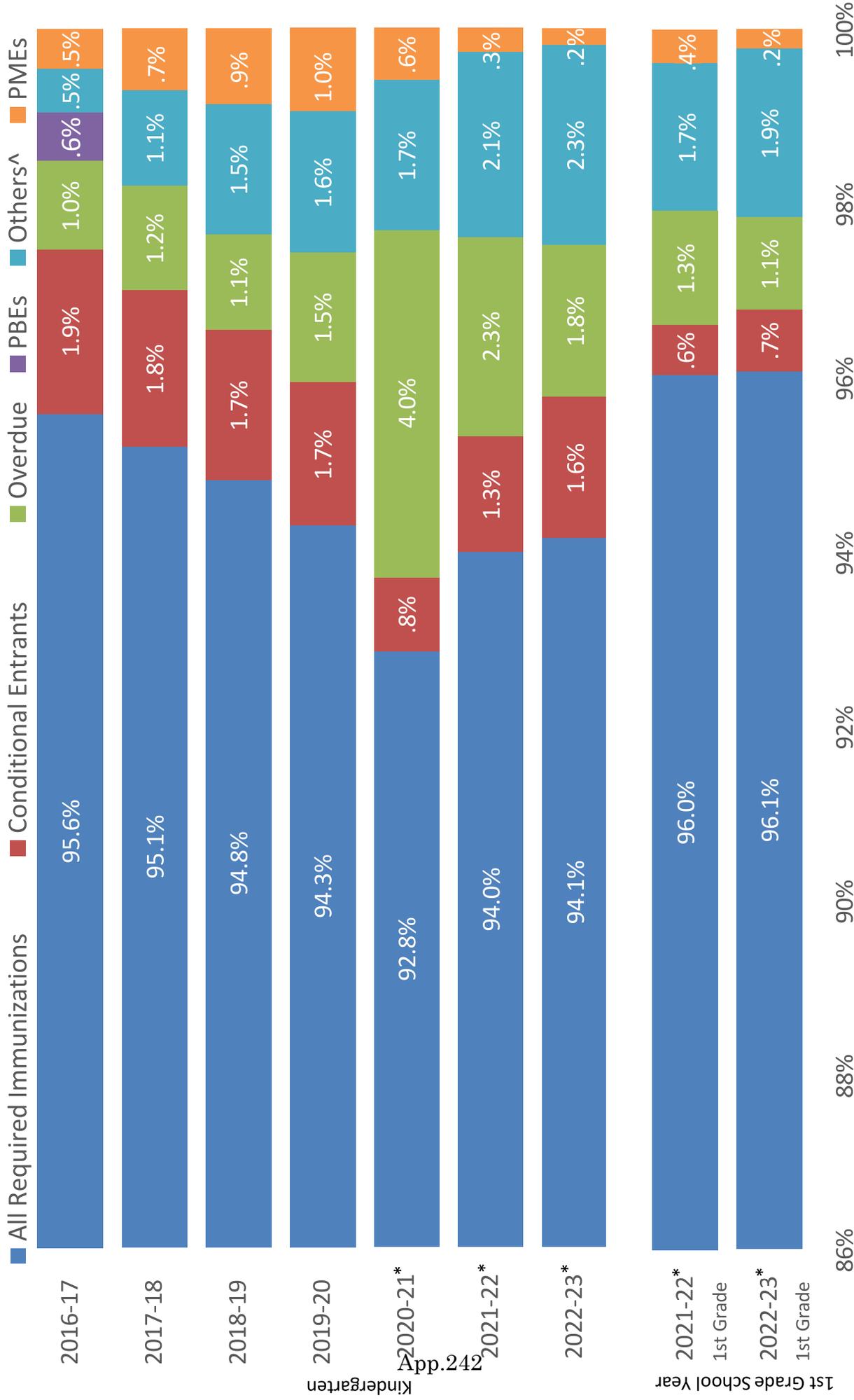
Figure 3. Percentage of Students with Permanent Medical Exemptions (PME) by School Type and by School Year, Kindergarten, 2013-2014 to 2022-2023, and First Grade, 2021-2022 to 2022-2023



App.241

\* 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**



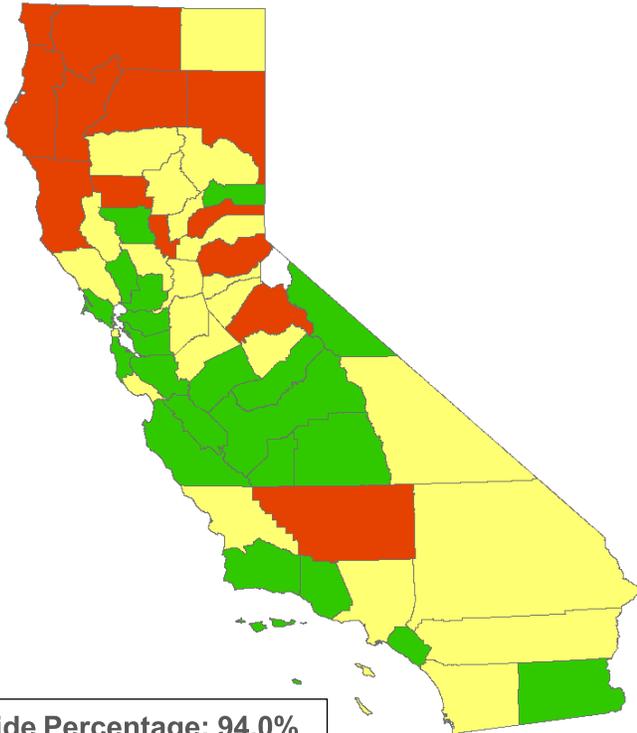
^ Other children lacking required immunizations under criteria specified in SB 277.

\* Immunization and data collection potentially affected by the COVID-19 pandemic.

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

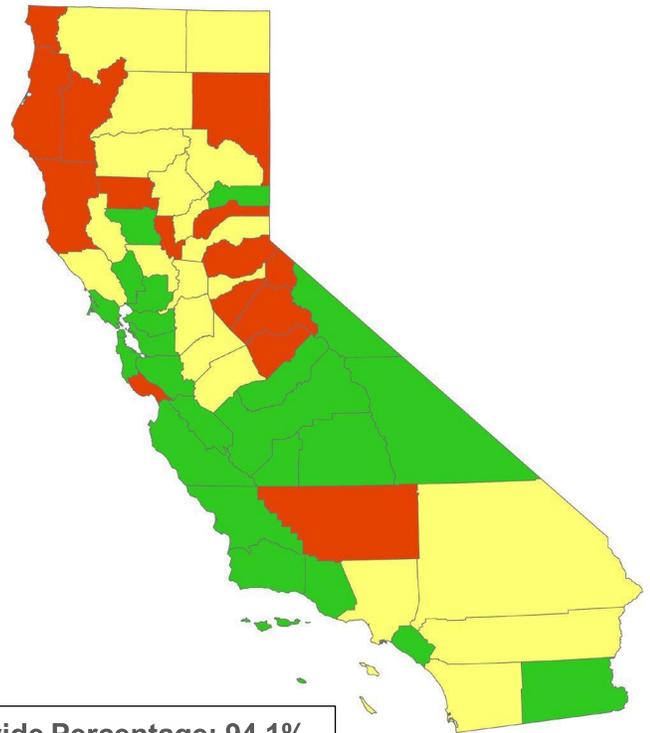


Kindergarten  
2021-2022 School Year\*



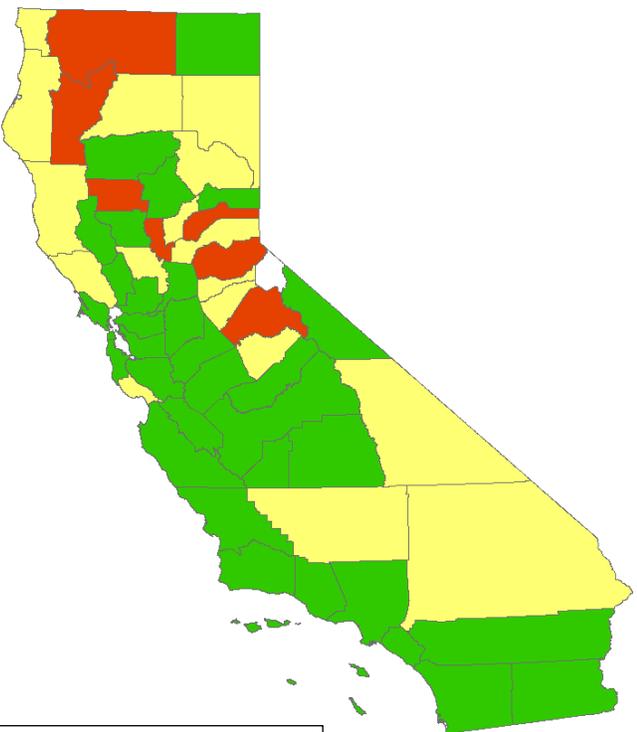
Statewide Percentage: 94.0%

Kindergarten  
2022-2023 School Year\*



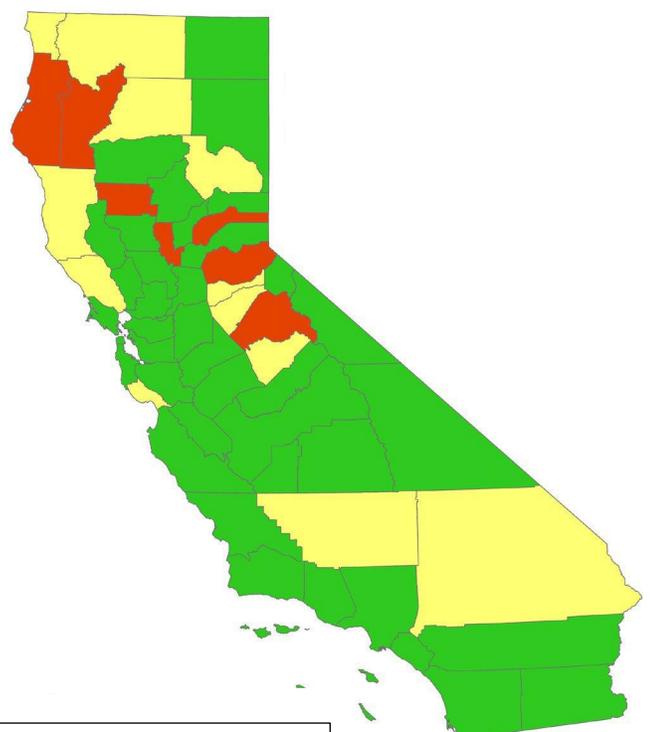
Statewide Percentage: 94.1%

First Grade  
2021-2022 School Year\*



Statewide Percentage: 96.0%

First Grade  
2022-2023 School Year\*



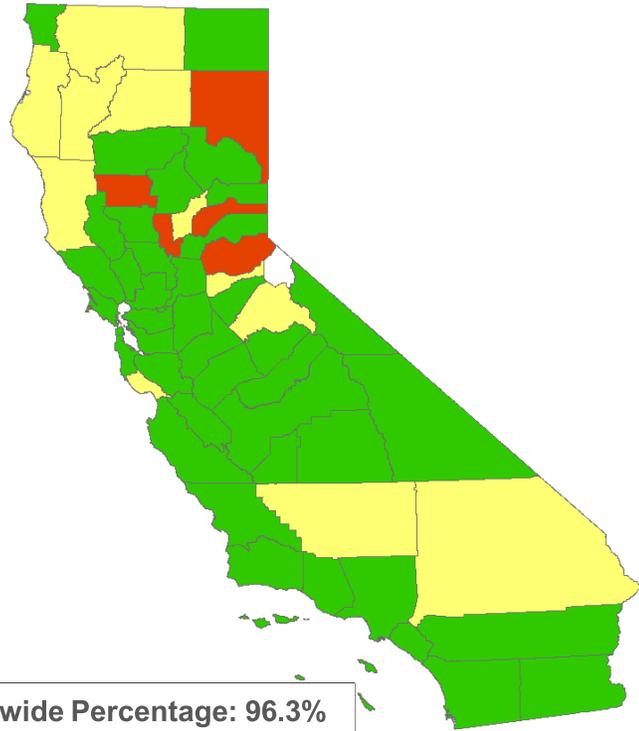
Statewide Percentage: 96.1%

\*Immunization and data collection potentially affected by April 2020 COVID-19 pandemic.

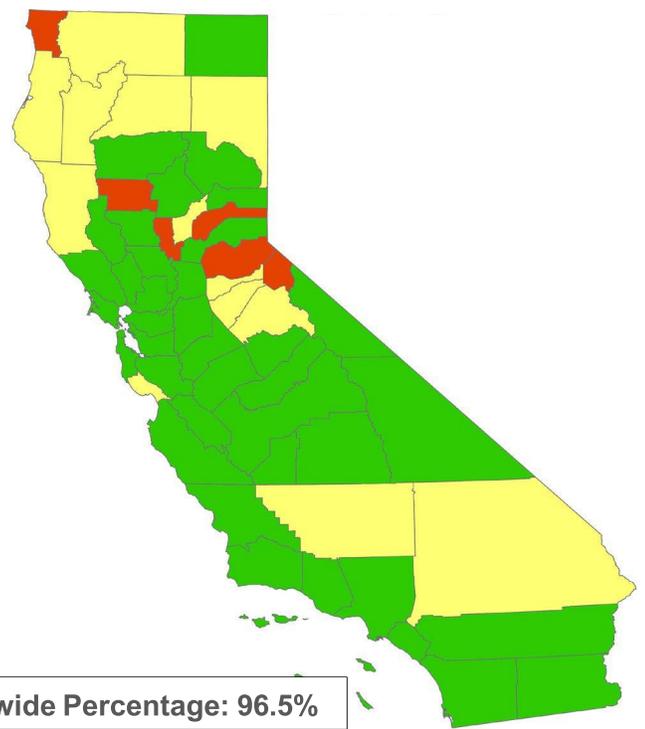
Figure 6. Kindergarten and First Grade Students with Two or More Doses of MMR Vaccine, by County  
Kindergarten and First Grade, 2021-2022 to 2022-2023 School Years

≤ 89.9%      90.0 – 94.9%      95.0 – 100%      Did Not Report

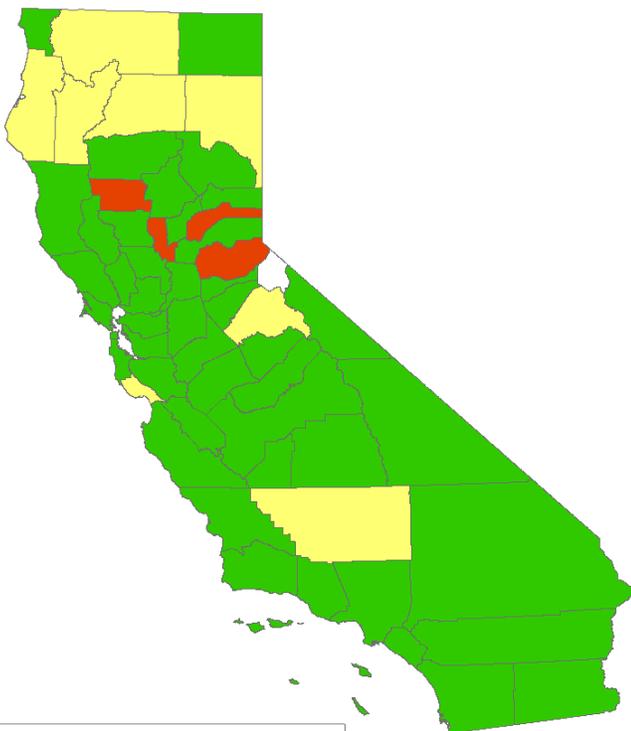
Kindergarten  
2021-2022 School Year\*



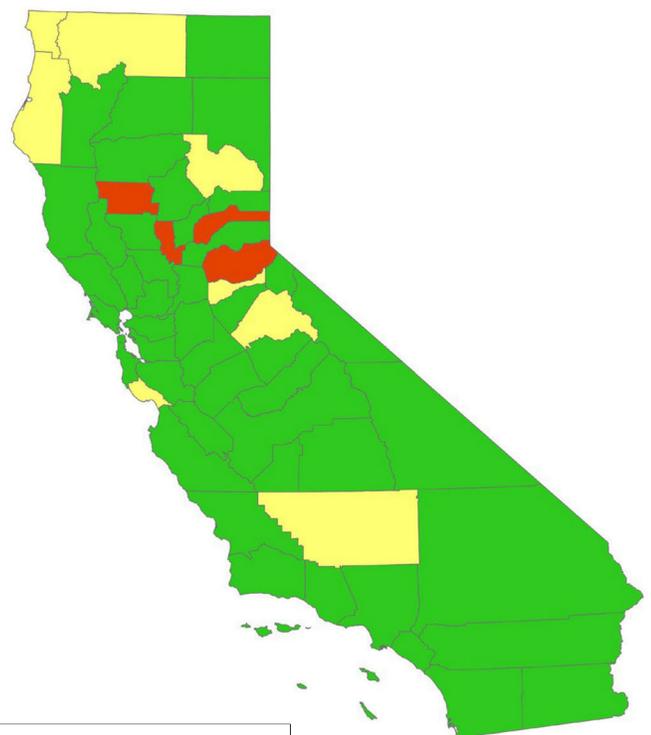
Kindergarten  
2022-2023 School Year\*



First Grade  
2021-2022 School Year\*



First Grade  
2022-2023 School Year\*



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

	2022-2023						2021-2022						2020-2021						Kindergarten: 2022-23 and 2020-21		
	All		Public		Private		All		Public		Private		All		Public		Private		2-Year Percentage Point Change*		
																			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%	3%	2%	7%	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%	11%	10%	25%	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%	1.3%	1.3%	0.8%	1.3%	1.3%	0.8%	1.3%	0.8%	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%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%
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%	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%	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%	1.7%	1.8%	0.9%	0.6%	0.6%	0.1%	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%	4.0%	4.1%	2.8%	-2.2%	-2.4%	0.1%	-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%	94.7%	94.7%	94.6%	0.9%	1.0%	0.8%	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%	95.2%	95.3%	94.9%	1.0%	1.1%	0.8%	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%	95.1%	95.1%	94.7%	1.3%	1.4%	0.6%	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%	97.0%	97.1%	96.3%	0.3%	0.3%	0.8%	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%	94.8%	94.8%	94.6%	1.2%	1.3%	0.4%	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.

† 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**

	2022-2023						2021-2022			1st Grade 2022-23 and 2021-22		
	All		Public		Private		All	Public	Private	All	Public	Private
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Number of Schools Reporting Students	7,759		6,124		1,635		7,598		1,534			
Number of 1st Grade Students	443,051		406,996		36,055		431,819		33,354		1%	7%
All Required Immunizations	96.1%		96.2%		94.9%		96.0%		94.9%		0.0%	0.0%
Conditional Entrants	0.7%		0.7%		0.9%		0.6%		0.8%		0.1%	0.0%
Permanent Medical Exemptions	0.2%		0.2%		0.9%		0.4%		1.3%		-0.2%	-0.3%
Personal Belief Exemptions	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%	0.0%
Others Lacking Immunization <sup>†</sup>	1.9%		2.0%		1.4%		1.7%		1.2%		0.2%	0.3%
Overdue <sup>^</sup>	1.1%		1.0%		1.9%		1.3%		1.8%		-0.2%	0.0%
4+ DTP	97.0%		97.1%		96.4%		97.1%		96.4%		-0.1%	0.0%
3+ Polio	97.4%		97.4%		96.5%		97.4%		96.4%		0.0%	0.1%
2+ MMR	97.5%		97.6%		96.5%		97.5%		96.5%		0.0%	0.0%
3+ Hep B	98.0%		98.0%		97.3%		98.0%		97.1%		0.0%	0.2%
2+ Varicella	97.2%		97.2%		96.1%		97.2%		96.3%		0.0%	-0.1%

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

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

<sup>^</sup>Overdue for one or more required immunizations

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\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
State Total	2022-23	1st Grade	443,051	96.1%	0.7%	0.2%	1.9%	1.1%
	2022-23	Kindergarten	540,864	94.1%	1.6%	0.2%	2.3%	1.8%
	2021-22	Kindergarten	503,722	94.0%	1.3%	0.3%	2.1%	2.3%
	2020-21	Kindergarten	485,538	92.8%	0.8%	0.6%	1.7%	4.0%
Alameda	2019-20	Kindergarten	554,250	94.3%	1.7%	1.0%	1.6%	1.5%
	2022-23	1st Grade	17,071	97.1%	0.3%	0.3%	0.4%	1.9%
	2022-23	Kindergarten	20,352	95.1%	0.8%	0.3%	0.6%	3.3%
	2021-22	Kindergarten	19,422	95.1%	0.7%	0.4%	0.3%	3.6%
Alpine	2020-21	Kindergarten	19,752	90.3%	0.6%	0.3%	0.7%	8.2%
	2019-20	Kindergarten	21,622	96.5%	1.1%	0.7%	0.2%	1.6%
	2022-23	1st Grade	9	--*	--*	--*	--*	--*
	2022-23	Kindergarten	8	--*	--*	--*	--*	--*
Amador	2021-22	Kindergarten	--**	--*	--*	--*	--*	--*
	2020-21	Kindergarten	--**	--*	--*	--*	--*	--*
	2019-20	Kindergarten	9	--*	--*	--*	--*	--*
	2022-23	1st Grade	325	93.5%	1.8%	0.6%	1.5%	2.5%
Butte	2022-23	Kindergarten	418	90.9%	3.1%	0.5%	2.2%	3.3%
	2021-22	Kindergarten	355	91.0%	0.3%	0.0%	1.4%	7.3%
	2020-21	Kindergarten	367	93.2%	1.4%	1.9%	0.3%	3.3%
	2019-20	Kindergarten	308	91.2%	4.2%	1.9%	0.6%	1.9%
Calaveras	2022-23	1st Grade	2,144	97.1%	0.9%	0.2%	1.2%	0.5%
	2022-23	Kindergarten	2,623	94.5%	3.0%	0.1%	1.5%	0.8%
	2021-22	Kindergarten	2,590	94.2%	2.0%	0.2%	2.0%	1.6%
	2020-21	Kindergarten	2,470	94.5%	1.4%	0.9%	1.5%	1.7%
Colusa	2019-20	Kindergarten	2,742	95.1%	2.7%	0.8%	1.0%	0.4%
	2022-23	1st Grade	355	94.9%	0.0%	0.3%	3.7%	1.1%
	2022-23	Kindergarten	517	89.2%	2.5%	0.2%	3.9%	4.3%
	2021-22	Kindergarten	417	92.8%	1.2%	0.0%	4.1%	1.9%
Contra Costa	2020-21	Kindergarten	362	90.9%	1.7%	0.6%	5.5%	1.4%
	2019-20	Kindergarten	455	93.8%	1.8%	1.5%	1.8%	1.1%
	2022-23	1st Grade	332	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
	2022-23	Kindergarten	414	97.6%	1.7%	0.2%	0.0%	0.5%
Del Norte	2021-22	Kindergarten	392	98.0%	1.0%	0.3%	0.5%	0.3%
	2020-21	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%
	2022-23	1st Grade	12,893	97.2%	0.8%	0.2%	0.4%	1.4%
El Dorado	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%
	2020-21	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%
Fresno	2022-23	1st Grade	301	92.7%	1.3%	1.3%	2.7%	2.0%
	2022-23	Kindergarten	319	84.6%	6.0%	0.9%	6.9%	1.6%
	2021-22	Kindergarten	351	88.6%	2.3%	1.4%	4.6%	3.1%
	2020-21	Kindergarten	282	93.3%	0.7%	2.5%	2.1%	1.4%
Glenn	2019-20	Kindergarten	394	97.0%	0.8%	0.0%	0.8%	1.5%
	2022-23	1st Grade	2,351	82.1%	0.6%	0.3%	16.3%	0.6%
	2022-23	Kindergarten	2,799	80.4%	1.5%	0.1%	16.5%	1.5%
	2021-22	Kindergarten	2,721	78.2%	1.7%	0.4%	17.2%	2.5%
Humboldt	2020-21	Kindergarten	2,373	82.0%	1.8%	2.9%	11.6%	1.7%
	2019-20	Kindergarten	2,909	79.7%	2.2%	4.3%	13.5%	0.3%
	2022-23	1st Grade	15,094	97.6%	0.4%	0.1%	1.4%	0.5%
	2022-23	Kindergarten	18,033	96.4%	0.7%	0.1%	1.9%	1.0%
Imperial	2021-22	Kindergarten	16,906	95.6%	0.9%	0.1%	2.0%	1.5%
	2020-21	Kindergarten	16,220	97.3%	0.5%	0.1%	1.3%	0.7%
	2019-20	Kindergarten	18,461	96.4%	1.0%	0.3%	1.6%	0.7%
	2022-23	1st Grade	489	85.9%	0.2%	0.0%	12.9%	1.0%
Kern	2022-23	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%
	2020-21	Kindergarten	544	88.4%	0.6%	0.2%	8.8%	2.0%
Los Angeles	2019-20	Kindergarten	576	86.1%	1.4%	0.7%	10.9%	0.9%

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\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
Humboldt	2022-23	1st Grade	1,320	89.2%	1.9%	1.3%	3.2%	4.5%
	2022-23	Kindergarten	1,646	86.3%	2.9%	0.5%	3.3%	7.0%
	2021-22	Kindergarten	1,526	85.5%	2.5%	3.7%	3.0%	5.4%
	2020-21	Kindergarten	1,447	87.8%	1.0%	3.9%	2.0%	5.3%
Imperial	2019-20	Kindergarten	1,715	88.0%	2.7%	5.6%	0.7%	3.0%
	2022-23	1st Grade	2,561	96.9%	0.7%	0.4%	0.6%	1.3%
	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%
Inyo	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%
	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%
Kern	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%
	2022-23	1st Grade	15,064	91.3%	0.8%	0.3%	6.7%	1.0%
Kings	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%
Lake	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%
Lassen	2019-20	Kindergarten	2,576	96.9%	2.0%	0.2%	0.4%	0.4%
	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%
Los Angeles	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%
	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%
Madera	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%
	2022-23	1st Grade	98,270	96.4%	0.7%	0.2%	1.1%	1.5%
Marin	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%
	2019-20	Kindergarten	133,622	94.5%	1.7%	0.6%	0.8%	2.4%
Mariposa	2022-23	1st Grade	2,509	96.9%	0.4%	0.2%	0.6%	2.1%
	2022-23	Kindergarten	2,790	95.6%	1.4%	0.0%	0.8%	2.2%
	2021-22	Kindergarten	2,636	95.3%	1.5%	0.1%	0.8%	2.3%
	2020-21	Kindergarten	2,586	96.8%	0.4%	0.2%	0.8%	1.9%
Mendocino	2019-20	Kindergarten	2,727	96.1%	1.5%	0.3%	0.8%	1.4%
	2022-23	1st Grade	2,506	98.2%	0.6%	0.4%	0.2%	0.6%
	2022-23	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%
Mendocino	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%
	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%
Mendocino	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%
	2022-23	1st Grade	977	93.3%	1.0%	0.6%	0.3%	4.7%
Mendocino	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%

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\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue^
			Number	Percent	Percent	Percent	Percent	Percent
Merced	2022-23	1st Grade	4,409	96.6%	0.7%	0.1%	0.7%	2.0%
	2022-23	Kindergarten	5,458	94.0%	1.9%	0.0%	1.2%	2.9%
	2021-22	Kindergarten	5,007	95.4%	1.6%	0.0%	1.3%	1.7%
	2020-21	Kindergarten	4,566	94.4%	1.1%	0.1%	0.6%	3.8%
	2019-20	Kindergarten	5,321	96.7%	1.6%	0.1%	0.6%	1.1%
Modoc	2022-23	1st Grade	114	≥99.0%	≤1.0%	0.0%	0.0%	0.0%
	2022-23	Kindergarten	115	94.8%	4.3%	0.0%	0.0%	0.9%
	2021-22	Kindergarten	102	94.1%	2.0%	0.0%	0.0%	3.9%
	2020-21	Kindergarten	117	94.9%	0.9%	0.0%	0.0%	4.3%
	2019-20	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%
	2022-23	Kindergarten	162	97.5%	2.5%	0.0%	0.0%	0.0%
	2021-22	Kindergarten	148	96.6%	2.7%	0.0%	0.7%	0.0%
	2020-21	Kindergarten	124	96.8%	0.8%	0.0%	0.0%	2.4%
	2019-20	Kindergarten	138	90.6%	5.1%	2.9%	0.0%	1.4%
Monterey	2022-23	1st Grade	5,489	98.7%	0.4%	0.1%	0.1%	0.8%
	2022-23	Kindergarten	6,236	96.8%	1.2%	0.0%	0.2%	1.6%
	2021-22	Kindergarten	6,357	97.5%	0.8%	0.1%	0.2%	1.4%
	2020-21	Kindergarten	6,220	97.4%	0.8%	0.4%	0.2%	1.2%
	2019-20	Kindergarten	6,733	97.1%	1.4%	0.8%	0.1%	0.6%
Napa	2022-23	1st Grade	1,428	97.0%	0.2%	0.2%	1.7%	0.9%
	2022-23	Kindergarten	1,624	96.4%	0.7%	0.3%	0.9%	1.7%
	2021-22	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	2022-23	1st Grade	771	87.4%	1.8%	2.1%	7.1%	1.6%
	2022-23	Kindergarten	981	83.1%	4.2%	0.3%	9.2%	3.3%
	2021-22	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%
	2019-20	Kindergarten	985	79.5%	3.4%	13.1%	3.0%	1.0%
Orange	2022-23	1st Grade	32,202	97.3%	0.6%	0.2%	1.2%	0.6%
	2022-23	Kindergarten	41,162	96.2%	1.2%	0.2%	1.4%	1.0%
	2021-22	Kindergarten	38,034	96.0%	1.0%	0.3%	1.2%	1.4%
	2020-21	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	2022-23	1st Grade	5,305	95.2%	0.7%	0.9%	2.5%	0.7%
	2022-23	Kindergarten	6,609	92.8%	2.7%	0.3%	2.7%	1.5%
	2021-22	Kindergarten	6,549	92.9%	2.0%	0.8%	2.5%	1.8%
	2020-21	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	2022-23	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%
	2021-22	Kindergarten	202	91.1%	3.0%	0.5%	3.5%	2.0%
	2020-21	Kindergarten	191	91.1%	0.5%	1.6%	5.8%	1.0%
	2019-20	Kindergarten	208	92.3%	3.8%	1.4%	0.5%	1.9%
Riverside	2022-23	1st Grade	31,192	96.1%	0.8%	0.3%	2.0%	0.9%
	2022-23	Kindergarten	37,410	94.2%	1.8%	0.1%	2.5%	1.4%
	2021-22	Kindergarten	33,796	93.8%	1.6%	0.2%	2.4%	2.1%
	2020-21	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	2022-23	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%
	2020-21	Kindergarten	19,509	91.5%	1.1%	0.9%	2.0%	4.5%
	2019-20	Kindergarten	21,495	93.3%	2.2%	1.6%	1.9%	1.0%
San Benito	2022-23	1st Grade	880	98.3%	0.6%	0.3%	0.2%	0.6%
	2022-23	Kindergarten	1,071	97.4%	1.7%	0.1%	0.4%	0.5%
	2021-22	Kindergarten	983	97.0%	0.5%	0.2%	0.1%	2.1%
	2020-21	Kindergarten	991	91.2%	1.4%	0.1%	0.0%	7.3%
	2019-20	Kindergarten	1,099	96.3%	1.3%	0.5%	0.1%	1.8%

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\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue^
			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%
	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%	0.3%
	2022-23	Kindergarten	45,295	93.4%	1.6%	0.1%	4.3%	0.5%
	2021-22	Kindergarten	41,632	93.3%	1.4%	0.2%	3.9%	1.1%
	2020-21	Kindergarten	40,748	93.9%	1.0%	0.7%	3.3%	1.1%
	2019-20	Kindergarten	45,956	93.0%	1.5%	1.4%	3.6%	0.5%
San Francisco	2022-23	1st Grade	5,626	97.6%	0.3%	0.2%	0.0%	1.9%
	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%
	2022-23	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%
	2020-21	Kindergarten	3,097	88.8%	1.1%	1.7%	6.3%	2.1%
	2019-20	Kindergarten	3,415	89.3%	2.2%	2.8%	4.6%	1.2%
Shasta	2022-23	1st Grade	2,139	92.8%	0.9%	1.0%	4.3%	0.9%
	2022-23	Kindergarten	2,686	91.1%	3.9%	0.5%	3.1%	1.4%
	2021-22	Kindergarten	2,511	89.5%	3.1%	1.0%	3.7%	2.7%
	2020-21	Kindergarten	2,189	88.6%	2.1%	2.5%	3.6%	3.2%
	2019-20	Kindergarten	2,525	89.5%	3.2%	2.7%	2.9%	1.7%
Sierra	2022-23	1st Grade	30	≥95.0%	0.0%	0.0%	0.0%	≤5.0%
	2022-23	Kindergarten	43	≥95.0%	0.0%	0.0%	0.0%	≤5.0%
	2021-22	Kindergarten	32	≥95.0%	0.0%	0.0%	0.0%	≤5.0%
	2020-21	Kindergarten	23	≥95.0%	0.0%	0.0%	0.0%	≤5.0%
	2019-20	Kindergarten	25	≥95.0%	0.0%	0.0%	0.0%	≤5.0%
Siskiyou	2022-23	1st Grade	382	92.1%	1.0%	0.0%	4.5%	2.4%
	2022-23	Kindergarten	542	91.0%	1.7%	0.2%	3.5%	3.7%
	2021-22	Kindergarten	500	87.6%	5.2%	0.0%	4.6%	2.6%
	2020-21	Kindergarten	463	89.0%	1.5%	0.4%	6.7%	2.4%
	2019-20	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\*

	School Year	Grade	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue <sup>^</sup>
			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	2022-23	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%
	2021-22	Kindergarten	566	86.9%	2.1%	6.2%	2.1%	2.7%
	2020-21	Kindergarten	474	81.9%	8.6%	2.3%	3.6%	3.6%
	2019-20	Kindergarten	584	90.2%	3.6%	3.6%	1.4%	1.2%
Ventura	2022-23	1st Grade	9,221	96.6%	0.5%	0.2%	1.7%	0.9%
	2022-23	Kindergarten	12,137	95.0%	1.4%	0.2%	1.8%	1.6%
	2021-22	Kindergarten	10,540	95.1%	1.4%	0.2%	1.6%	1.7%
	2020-21	Kindergarten	10,410	94.9%	1.1%	0.7%	1.3%	2.1%
	2019-20	Kindergarten	11,466	95.5%	1.7%	1.1%	0.6%	1.1%
Yolo	2022-23	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%
	2021-22	Kindergarten	2,746	94.1%	0.9%	0.3%	2.4%	2.3%
	2020-21	Kindergarten	2,535	92.6%	0.9%	0.6%	2.4%	3.6%
	2019-20	Kindergarten	2,959	94.3%	2.0%	1.6%	0.9%	1.1%
Yuba	2022-23	1st Grade	1,255	95.6%	0.6%	0.1%	1.9%	1.8%
	2022-23	Kindergarten	1,561	91.9%	1.9%	0.1%	2.6%	3.6%
	2021-22	Kindergarten	1,372	90.3%	4.7%	0.3%	2.3%	2.3%
	2020-21	Kindergarten	1,154	88.8%	0.9%	0.1%	3.0%	7.2%
	2019-20	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%	

\* 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.

<sup>^</sup> 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+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
State Total	2022-23	1st Grade	443,051	97.0%	97.4%	97.5%	98.0%	97.2%
	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%
Alameda	2019-20	Kindergarten	554,250	96.2%	96.5%	96.5%	97.4%	96.0%
	2022-23	1st Grade	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%
	2021-22	Kindergarten	19,422	96.7%	97.2%	97.2%	97.8%	96.6%
Alpine	2020-21	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%
	2022-23	1st Grade	9	--*	--*	--*	--*	--*
	2022-23	Kindergarten	8	--*	--*	--*	--*	--*
Amador	2021-22	Kindergarten	--**	--*	--*	--*	--*	--*
	2020-21	Kindergarten	--**	--*	--*	--*	--*	--*
	2019-20	Kindergarten	9	--*	--*	--*	--*	--*
	2022-23	1st Grade	325	95.4%	95.4%	94.8%	97.2%	95.4%
Butte	2022-23	Kindergarten	418	92.6%	94.3%	94.0%	96.2%	94.0%
	2021-22	Kindergarten	355	91.5%	93.2%	94.1%	97.2%	93.5%
	2020-21	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%
Calaveras	2022-23	1st Grade	2,144	97.7%	98.1%	98.5%	98.2%	98.3%
	2022-23	Kindergarten	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%
Colusa	2019-20	Kindergarten	2,742	96.5%	97.2%	97.5%	97.8%	97.2%
	2022-23	1st Grade	355	95.5%	95.5%	96.1%	96.1%	96.3%
	2022-23	Kindergarten	517	91.3%	92.1%	93.2%	95.0%	92.6%
	2021-22	Kindergarten	417	93.8%	94.2%	96.4%	96.9%	95.9%
Contra Costa	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%
	2022-23	1st Grade	332	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	2022-23	Kindergarten	414	98.3%	≥99.0%	≥99.0%	98.8%	98.3%
Del Norte	2021-22	Kindergarten	392	98.5%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	2020-21	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%
	2022-23	1st Grade	12,893	98.1%	98.5%	98.6%	98.9%	98.1%
El Dorado	2022-23	Kindergarten	15,268	97.3%	97.9%	97.8%	98.7%	97.4%
	2021-22	Kindergarten	14,248	96.9%	97.3%	97.5%	98.2%	97.0%
	2020-21	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%
Fresno	2022-23	1st Grade	301	93.0%	93.0%	93.7%	94.0%	93.7%
	2022-23	Kindergarten	319	86.8%	89.3%	89.0%	90.3%	89.3%
	2021-22	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%
Glenn	2019-20	Kindergarten	394	98.0%	≥99.0%	98.5%	98.7%	98.2%
	2022-23	1st Grade	2,351	84.2%	84.4%	84.8%	87.4%	83.8%
	2022-23	Kindergarten	2,799	82.2%	82.7%	82.8%	85.5%	82.5%
	2021-22	Kindergarten	2,721	83.9%	84.0%	83.6%	87.0%	82.7%
Humboldt	2020-21	Kindergarten	2,373	84.7%	85.3%	84.8%	88.2%	85.0%
	2019-20	Kindergarten	2,909	82.4%	83.3%	82.6%	86.6%	81.7%
	2022-23	1st Grade	15,094	98.1%	98.2%	98.4%	98.7%	98.3%
	2022-23	Kindergarten	18,033	97.0%	97.6%	97.6%	98.3%	97.4%
Imperial	2021-22	Kindergarten	16,906	97.0%	97.4%	97.5%	98.0%	97.4%
	2020-21	Kindergarten	16,220	97.9%	98.3%	98.3%	98.8%	98.2%
	2019-20	Kindergarten	18,461	97.3%	97.7%	97.9%	98.4%	97.7%
	2022-23	1st Grade	489	87.5%	87.5%	87.1%	88.5%	86.9%
Kern	2022-23	Kindergarten	632	83.7%	85.0%	83.5%	86.9%	83.4%
	2021-22	Kindergarten	572	87.2%	88.1%	87.4%	89.5%	86.2%
	2020-21	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  
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 Kindergarten, 2019-2020 to 2022-2023 and First Grade, 2022-2023, By County\*

	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
Humboldt	2022-23	1st Grade	1,320	92.1%	92.4%	92.8%	92.8%	92.9%
	2022-23	Kindergarten	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%
	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%
Inyo	2019-20	Kindergarten	3,117	97.9%	98.8%	98.0%	99.3%	97.9%
	2022-23	1st Grade	184	95.1%	95.7%	97.3%	98.9%	97.3%
	2022-23	Kindergarten	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%
Kern	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%
	2022-23	1st Grade	15,064	92.5%	93.0%	93.4%	94.5%	93.0%
	2022-23	Kindergarten	18,181	90.1%	91.2%	91.9%	93.3%	91.4%
Kings	2021-22	Kindergarten	16,369	90.1%	91.3%	91.6%	93.7%	91.6%
	2020-21	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%
	2022-23	1st Grade	2,171	97.6%	97.9%	98.1%	98.4%	97.9%
Lake	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%
Lassen	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%
Los Angeles	2019-20	Kindergarten	796	92.7%	94.7%	95.4%	96.7%	95.1%
	2022-23	1st Grade	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%
Madera	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%
	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%
Marin	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%
	2022-23	1st Grade	2,509	97.5%	98.6%	99.0%	98.9%	98.8%
Mariposa	2022-23	Kindergarten	2,790	96.3%	97.5%	98.0%	98.5%	98.0%
	2021-22	Kindergarten	2,636	96.7%	97.3%	97.5%	97.8%	97.7%
	2020-21	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%
Mendocino	2022-23	1st Grade	2,506	99.0%	99.2%	99.4%	99.6%	99.0%
	2022-23	Kindergarten	3,114	98.2%	98.6%	99.0%	99.1%	98.7%
	2021-22	Kindergarten	2,847	98.5%	98.6%	99.1%	98.5%	98.3%
	2020-21	Kindergarten	2,832	97.4%	97.6%	97.7%	97.9%	97.2%
Mendocino	2019-20	Kindergarten	3,252	96.0%	96.6%	96.9%	96.8%	95.8%
	2022-23	1st Grade	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%
	2021-22	Kindergarten	171	93.6%	97.7%	97.7%	97.1%	95.3%
Mendocino	2020-21	Kindergarten	163	87.1%	89.0%	90.2%	92.0%	89.0%
	2019-20	Kindergarten	160	95.0%	95.6%	95.6%	97.5%	95.6%
	2022-23	1st Grade	977	95.3%	96.1%	96.2%	96.7%	94.7%
	2022-23	Kindergarten	1,265	93.2%	93.8%	93.1%	94.5%	92.3%
Mendocino	2021-22	Kindergarten	1,183	92.1%	93.7%	93.7%	94.3%	92.6%
	2020-21	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+	HepB 3+	Var 2+
			Number	Percent	Percent	Percent	Percent	Percent
Merced	2022-23	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	Kindergarten	4,566	96.0%	96.5%	96.8%	98.9%	96.4%
	2019-20	Kindergarten	5,321	97.6%	98.7%	98.7%	99.1%	98.2%
Modoc	2022-23	1st Grade	114	≥99.0%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
	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	Kindergarten	6,236	98.3%	98.7%	98.7%	99.0%	98.0%
	2021-22	Kindergarten	6,357	98.6%	98.7%	98.8%	99.2%	98.5%
	2020-21	Kindergarten	6,220	98.4%	98.6%	98.8%	99.0%	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%
	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	Kindergarten	834	84.8%	84.9%	85.4%	87.9%	85.0%
	2019-20	Kindergarten	985	83.5%	83.1%	83.2%	83.6%	81.5%
Orange	2022-23	1st Grade	32,202	98.1%	98.3%	98.4%	98.8%	98.1%
	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	1st Grade	174	94.3%	94.3%	94.8%	94.8%	94.3%
	2022-23	Kindergarten	206	94.2%	94.7%	96.6%	97.1%	95.6%
	2021-22	Kindergarten	202	96.0%	95.5%	96.0%	96.5%	93.6%
	2020-21	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%
	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	Kindergarten	19,509	93.7%	94.6%	94.5%	96.3%	94.2%
	2019-20	Kindergarten	21,495	95.0%	95.9%	95.8%	96.5%	95.5%
San Benito	2022-23	1st Grade	880	98.9%	99.1%	99.0%	99.1%	98.8%
	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  
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	School Year	Grade	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 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	Kindergarten	40,748	95.2%	95.6%	95.4%	96.7%	95.2%
	2019-20	Kindergarten	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	Kindergarten	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%
	2020-21	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	1st Grade	11,475	97.2%	97.5%	97.7%	98.2%	97.4%
	2022-23	Kindergarten	12,246	95.7%	96.2%	96.4%	97.0%	96.1%
	2021-22	Kindergarten	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	Kindergarten	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%
	2022-23	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%
	2020-21	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	1st Grade	5,107	98.9%	99.0%	99.0%	99.2%	98.7%
	2022-23	Kindergarten	6,531	98.2%	98.4%	98.5%	98.8%	98.3%
	2021-22	Kindergarten	6,066	97.6%	97.8%	98.0%	98.4%	97.5%
	2020-21	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	Kindergarten	23,575	98.3%	98.8%	98.7%	99.0%	98.5%
	2021-22	Kindergarten	21,901	97.8%	98.3%	98.1%	98.7%	97.8%
	2020-21	Kindergarten	21,759	97.3%	97.7%	97.6%	98.6%	97.1%
	2019-20	Kindergarten	24,963	98.1%	98.5%	98.2%	98.8%	97.6%
Santa Cruz	2022-23	1st Grade	2,922	94.0%	94.6%	94.8%	95.0%	94.1%
	2022-23	Kindergarten	3,345	91.5%	92.3%	92.5%	94.0%	91.9%
	2021-22	Kindergarten	3,307	93.5%	93.3%	94.1%	94.6%	93.5%
	2020-21	Kindergarten	3,097	93.3%	93.3%	92.2%	93.5%	92.4%
	2019-20	Kindergarten	3,415	92.4%	92.4%	92.6%	93.1%	93.1%
Shasta	2022-23	1st Grade	2,139	94.3%	94.8%	95.0%	95.9%	94.6%
	2022-23	Kindergarten	2,686	92.9%	93.7%	94.8%	95.8%	94.9%
	2021-22	Kindergarten	2,511	91.0%	92.0%	92.6%	94.5%	92.9%
	2020-21	Kindergarten	2,189	91.2%	92.3%	91.9%	94.7%	92.1%
	2019-20	Kindergarten	2,525	93.1%	93.3%	93.8%	95.2%	92.9%
Sierra	2022-23	1st Grade	30	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
	2022-23	Kindergarten	43	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
	2021-22	Kindergarten	32	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
	2020-21	Kindergarten	23	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
	2019-20	Kindergarten	25	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
Siskiyou	2022-23	1st Grade	382	93.5%	94.0%	94.8%	93.7%	94.8%
	2022-23	Kindergarten	542	93.2%	94.1%	93.7%	95.2%	93.7%
	2021-22	Kindergarten	500	92.4%	93.0%	93.0%	93.8%	93.8%
	2020-21	Kindergarten	463	91.1%	91.6%	90.7%	91.6%	91.8%
	2019-20	Kindergarten	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+	HepB 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	Kindergarten	5,036	96.4%	97.3%	96.7%	98.0%	96.5%
	2019-20	Kindergarten	5,966	97.3%	98.0%	98.1%	98.4%	97.6%
Sonoma	2022-23	1st Grade	4,945	95.5%	95.7%	95.9%	96.1%	95.5%
	2022-23	Kindergarten	6,485	94.6%	95.2%	95.5%	95.9%	95.1%
	2021-22	Kindergarten	5,931	94.4%	94.7%	95.0%	95.8%	94.6%
	2020-21	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%
	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%	88.8%	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%
	2019-20	Kindergarten	138	89.1%	87.7%	91.3%	92.0%	92.0%
Tulare	2022-23	1st Grade	7,426	98.3%	98.6%	98.7%	99.0%	98.5%
	2022-23	Kindergarten	9,469	96.7%	97.3%	97.7%	98.3%	97.4%
	2021-22	Kindergarten	8,542	97.9%	98.1%	98.2%	98.6%	97.8%
	2020-21	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%
	2021-22	Kindergarten	10,540	96.6%	97.1%	97.1%	98.0%	96.8%
	2020-21	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%
	2022-23	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%
	2019-20	Kindergarten	2,959	96.1%	96.3%	96.6%	97.5%	96.0%
Yuba	2022-23	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 ≥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.

**APPENDIX M**

**2023-2024 KINDERGARTEN IMMUNIZATION ASSESSMENT**

## Kindergarten Immunization Assessment, 2023-2024

### 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 in the 2023-2024 school year.

Schools reported immunization status for 569,680 students in kindergarten, including transitional kindergarten, in 2023-2024. The proportion of students reported as having received all required immunizations was 93.7%, a decrease from 94.1% in 2022-2023 but higher than 92.8% as reported in 2020-2021. Reported statewide rates for specific immunizations remained high: 95.4% for required doses of Diphtheria, Tetanus and Pertussis (DTaP), 95.7% for Varicella, 96.1% for Polio, 96.2% for Measles, Mumps and Rubella (MMR), and 97.2% for Hepatitis B. Rates continue to vary widely by county. Similar to recent years, 0.1% of kindergarteners were 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.

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### Introduction

This report summarizes immunization status of students in kindergarten, including transitional kindergarten, reported by schools in the 2023-2024 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 immunization status of first grade students to follow immunization trends during the COVID-19 pandemic.

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](#).

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### Methods

During the autumn of 2023-2024, schools registered with the California Department of Education reported to CDPH on immunization data of kindergarteners. Based on their immunization status, students were classified by school staff into the following categories:

- Received all required immunizations, including the following doses:

- 5 or more of Diphtheria, Tetanus and Pertussis (DTaP) 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 doses of Measles, Mumps and Rubella (MMR) vaccine or two doses of Measles, two doses of Mumps, and one dose of Rubella vaccine, separately or combined, on or after the first birthday: ['2+ MMR'];
- 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
  - A temporary medical exemption to one or more required immunizations.Conditional entrants are required to receive additional doses after entry.
- Have a permanent medical exemption (PME) to one or more required immunizations.
- Other students lacking immunizations. Under SB 277, entrants since the 2016-2017 school year have not been required to have immunizations if they attend:
  - A home-based private school or
  - A public independent study program and do not receive classroom-based instruction.
  - In addition, students who have an individualized education program (IEP) may continue to receive all necessary services identified in their IEP regardless of their immunization status.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 overdue for one or more required immunizations and subject to exclusion from school until the overdue doses have been received.

Personal beliefs exemptions (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, PME, 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.

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## Results

In 2023-2024, 7,953 schools reported the immunization status of 569,680 kindergarten students (Table 1). Similar to previous years, public schools accounted for the majority of schools reporting kindergarten education (6,160 public schools; 77% of all schools) and kindergarten students (522,949 public students; 92% of all students). Among nonreporting schools, most (254 out of 293) were private schools.

All required immunizations: Among the 569,680 reported kindergarten students, 93.7% had received all required immunizations in 2023-2024, a decrease of 0.4 percentage points from 94.1% in 2022-2023 (Table 1 and Figure 1). During the COVID-19 pandemic, the rate of kindergarteners receiving all required

immunizations fell to 92.8% in 2020-2021, but rose to 94.0% in 2021-2022. First grade immunization rates were higher than kindergarten immunization rates when reported in 2021-2022 and 2022-2023.

Specific immunization series: Completion rates for specific immunization series among kindergarteners were: 95.4% for DTaP, 95.7% for Varicella, 96.1% for Polio, 96.2% for MMR, and 97.2% for Hep B (Table 1 and Figure 2). Immunization rates in 2023-2024 were decreased compared to 2022-2023 rates, but rates for all antigens remained above 95%. MMR rates decreased in public school students from 96.6% to 96.2%, but increased in private school students from 95.3% to 95.8%.

Permanent medical exemptions: The proportion of kindergarteners reported with PME was 0.1% in 2023-2024, decreased from 0.2% in 2022-2023 (Table 1 and Figure 3). Both public and private schools reported fewer medical exemptions in 2023-2024 than in previous years.

Overdue: Kindergarten students reported as overdue for immunizations was 1.5% in 2023-2024, decreased from 1.8% in 2022-2023, 2.3% in 2021-2022, and 4.0% in 2020-2021 (Figure 4).

Conditional entrants: The proportion of kindergarteners reported as conditional entrants was 2.0% in 2023-2024, an increase of 0.4 percentage points from 1.6% in 2022-2023 (Table 1 and Figure 4). 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 383 students in 2023-2024 (0.1% of all students and 3% of conditional entrants).

Other students lacking required immunizations: The proportion of kindergarteners reported as lacking one or more required immunizations who attend a public independent study program and do not receive classroom-based instruction, receive IEP services, or attend a home-based private school was 2.7% in 2023-2024 (Table 1 and Figure 4). Most of these students (11,170 out of 15,183; 74% for category, 2.0% of all students) were enrolled in public independent study programs. The proportion of kindergarten students in this category has steadily increased from 0.5% of all students in 2016-2017 when SB 277 went into effect (Figure 4).

Combined categories: Students who are required to receive all mandated vaccines are reported in three categories: students who have received all required vaccines, conditional entrants, and students overdue for required doses. The sum of kindergarteners reported in these three categories decreased by 0.3 percentage points from 97.5% in 2022-2023 to 97.2% in 2023-2024.

Conversely the sum of kindergarteners reported in categories in which students are *not* required to receive all required immunizations because of PMEs or other criteria specified in SB 277 increased by 0.3 percentage points from 2.5% in 2022-2023 to 2.8% in 2023-2024.

County-level immunization rates: Immunization rates varied widely by county, with lower rates in northern and central regions (Tables 2 and 3, Figures 5 and 6). In 2023-2024, 14 (24%) of 58 counties reported kindergarten all required immunization rates below 90%, compared to 15 (26%) counties in 2022-2023.

MMR rates by county ranged from 75.8% to more than 99%, with a similar regional pattern as all required immunization rates (Table 4 and Figure 6). The number of counties reporting kindergarten MMR rates below 95% was 16 (28%) in 2023-2024, including 5 counties with MMR rates lower than 90%. First grade student MMR rates were higher than kindergarten MMR rates over the two years when this additional reporting requirement was in place.

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## Discussion

California schools continue to comply at high levels in reporting immunization status of their kindergarten students annually and also of their first grade students during the pandemic. In 2023-2024, 99.4% of public schools and 87.6% of private schools reported student immunization status, including more than 99% of all kindergarten students counted in [California Department of Education \(CDE\) enrollment data](#).

Kindergarten enrollment across public and private schools decreased by 2.5% from 2022-2023 to 2023-2024, whereas transitional kindergarten (TK) student enrollment increased by 29.6%, likely due to phased implementation of [universal transitional kindergarten](#). In 2023-2024, CDE began reporting TK enrollment data as a separate grade level whereas in previous years, public school kindergarten data included transitional kindergarten participation. All TK and kindergarten students are required to have immunizations at entry, and the immunization reporting process does not distinguish between TK and traditional kindergarten students.

The proportion of kindergarten students reported as receiving all required immunizations was 93.7% in 2023-2024, compared to 94.1% in 2022-2023 and 92.8% in 2020-2021, at the beginning of the COVID-19 pandemic. The proportion of students overdue for required immunizations decreased while conditional entrants increased, suggesting that some students may still be catching up on immunizations missed during the pandemic.

Medical exemptions have decreased since implementation of CAIR-ME in 2021 per SB 276 and SB 714. In 2023-2024, 0.1% of kindergarten were reported with PME, the lowest rate of PMEs since 2015-2016, when personal belief exemptions were still permitted prior to SB 277.

The largest category of students who did not meet all required immunizations in 2023-2024 were the 2.7% reported in other categories of exemptions under criteria in SB 277, with 2.0% reported as being enrolled in [independent study](#). It is unclear how policy and school changes to expand independent study options in [2021-2022](#) and [2022-2023](#) during the COVID-19 pandemic have affected the overall number of students in independent study programs in subsequent years and may have affected immunization reporting.

California kindergarten immunization rates in 2023-2024 remain higher than national rates reported by [CDC](#):

	MMR	DTP	Polio	Varicella
California	96.2%	95.4%	96.1%	95.7%
U.S.	92.7%	92.3%	92.6%	92.4%

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 28% of counties having reported MMR rates in kindergarten students below 95%, an approximate threshold necessary to prevent the transmission of measles.

Overall state-wide immunization levels among kindergarten students remained high in 2023-2024. Children in schools and regions 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.
  - CDPH does not know the immunization status of any kindergarten students attending schools that registered with CDE but did not report. In 2023-2024, 293 California schools listed with CDE did not report on school immunizations, including 254 private schools and 39 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, [CDE private school data](#) 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.
  - 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.
  - 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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## Figures

Figure 1. Percentage of Students with All Required Immunizations by School Year, Kindergarten 2014-2015 to 2023-2024, and First Grade 2021-2022 to 2022-2023

Figure 2. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2014-2015 to 2023-2024

Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PME) by School Type and by School Year, 2014-2015 to 2023-2024

Figure 4. Percentage of Kindergarten Students by Reported Admission Status by School Year, 2016-2017 to 2023-2024

Figure 5. Map: Kindergarten Students with All Required Immunizations by County and School Year, 2022-2023 to 2023-2024

Figure 6. Map: Kindergarten Students with Two or More Doses of MMR Vaccine by County and School Year, 2022-2023 to 2023-2024

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## Tables

Table 1. Kindergarten Immunization Assessment Summary, 2021-2022 to 2023-2024

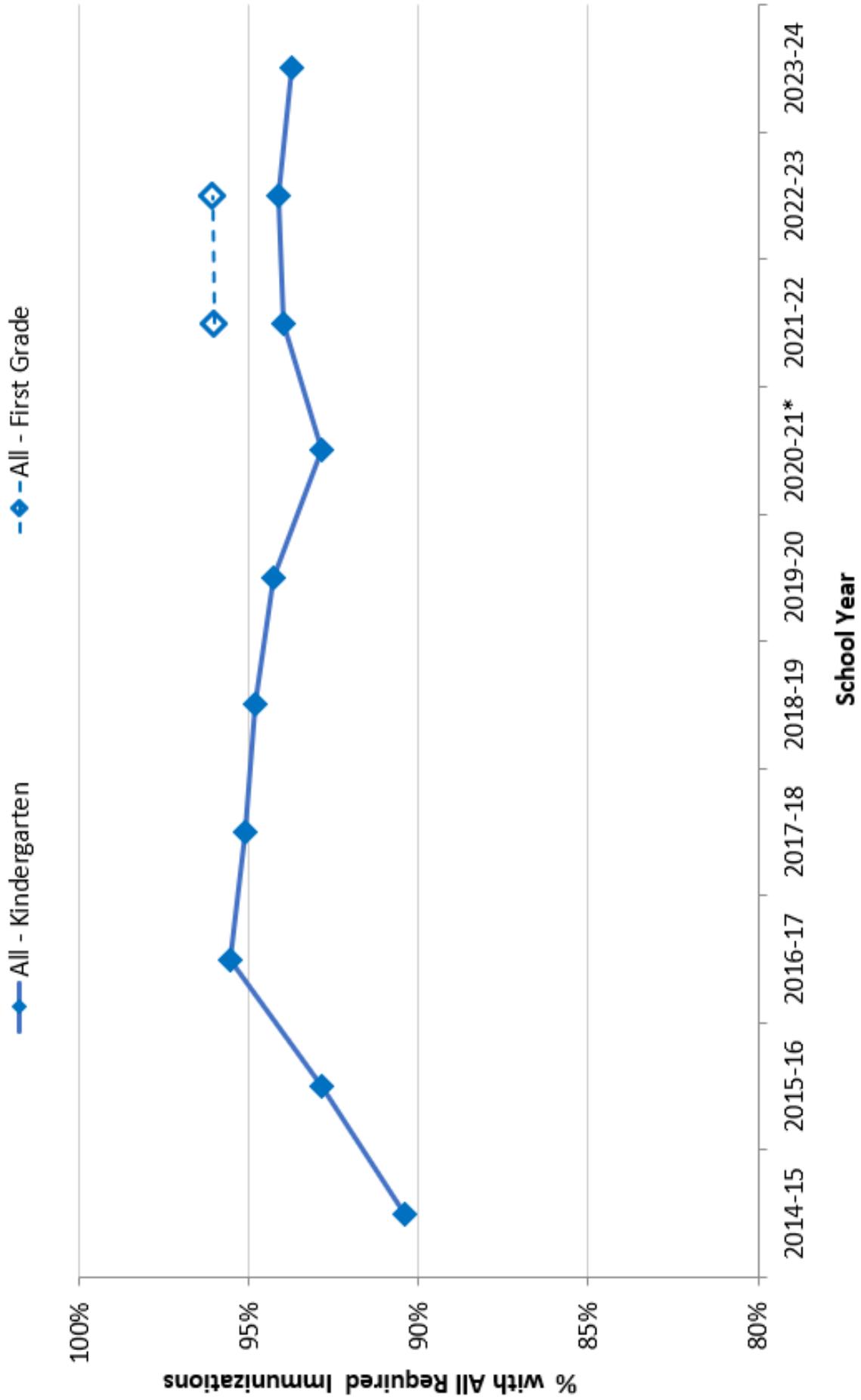
Table 2. Total Kindergarten Enrollment and Student Immunization Status, 2023-2024, by County

Table 3. Total Kindergarten Enrollment and Specific Required Immunizations by Series, 2023-2024, by County

Table 4: Students with Two or More Doses of MMR Vaccine, Kindergarten 2021-2022 to 2023-2024, and First Grade 2021-2022 to 2022-2023, by County

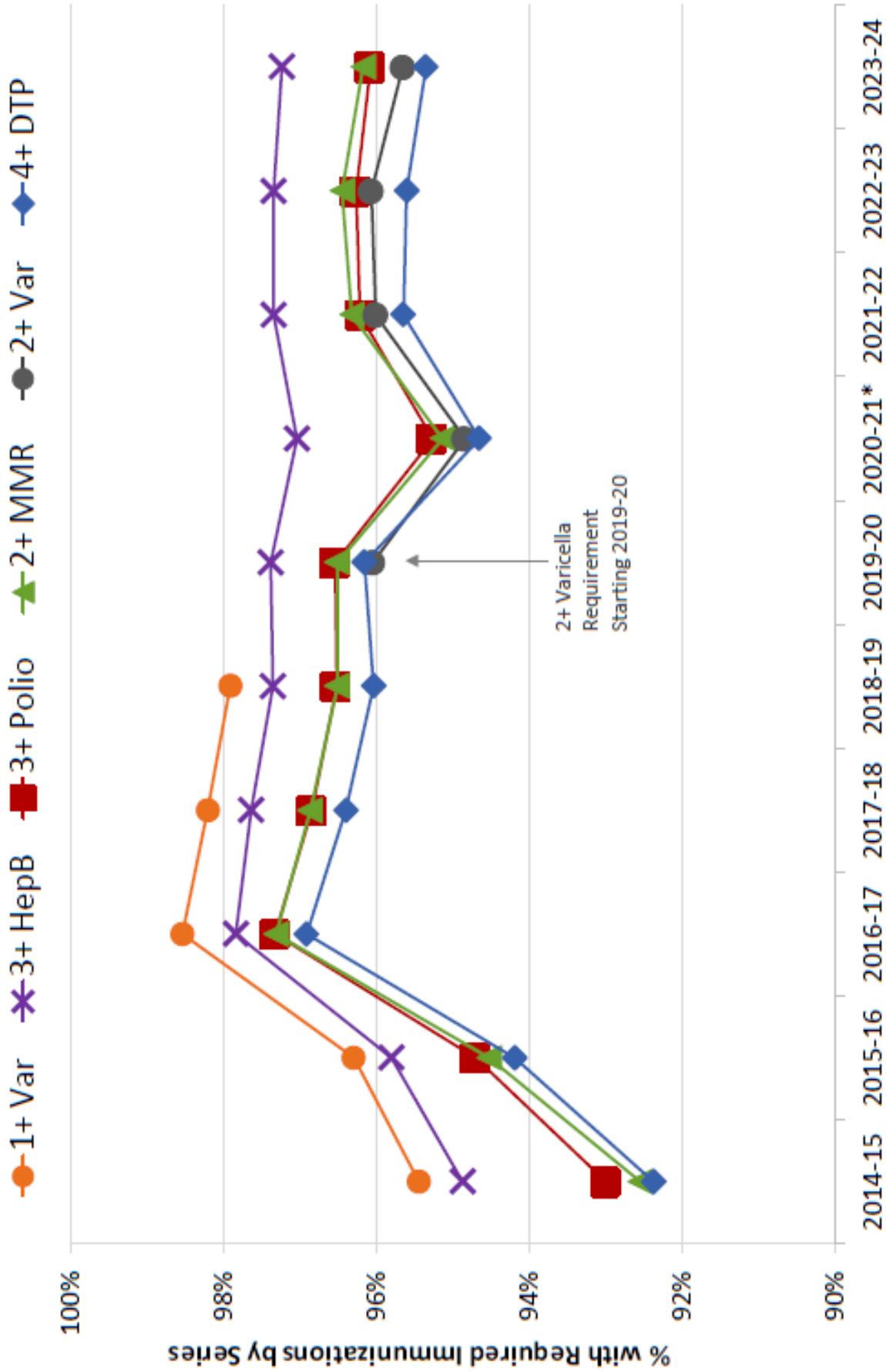
[Download Data](#)

Figure 1. Percentage of Students with All Required Immunizations by School Year, Kindergarten 2014-2015 to 2023-2024, and First Grade 2021-2022 to 2022-2023



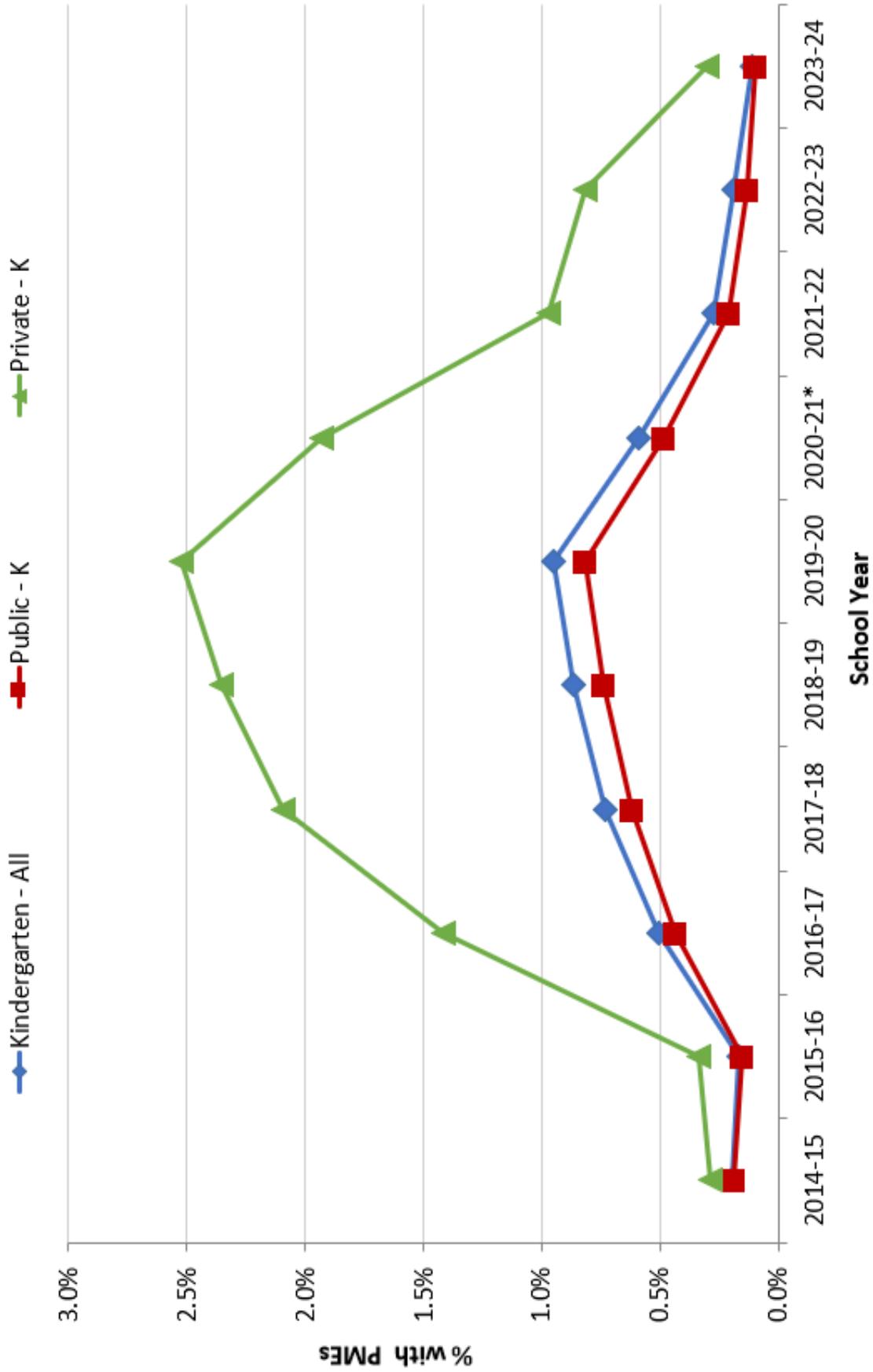
\*School beginning during first year of COVID-19 pandemic.

Figure 2. Percentage of Kindergarten Students with Specific Required Immunizations by Series and School Year, 2014-2015 to 2023-2024



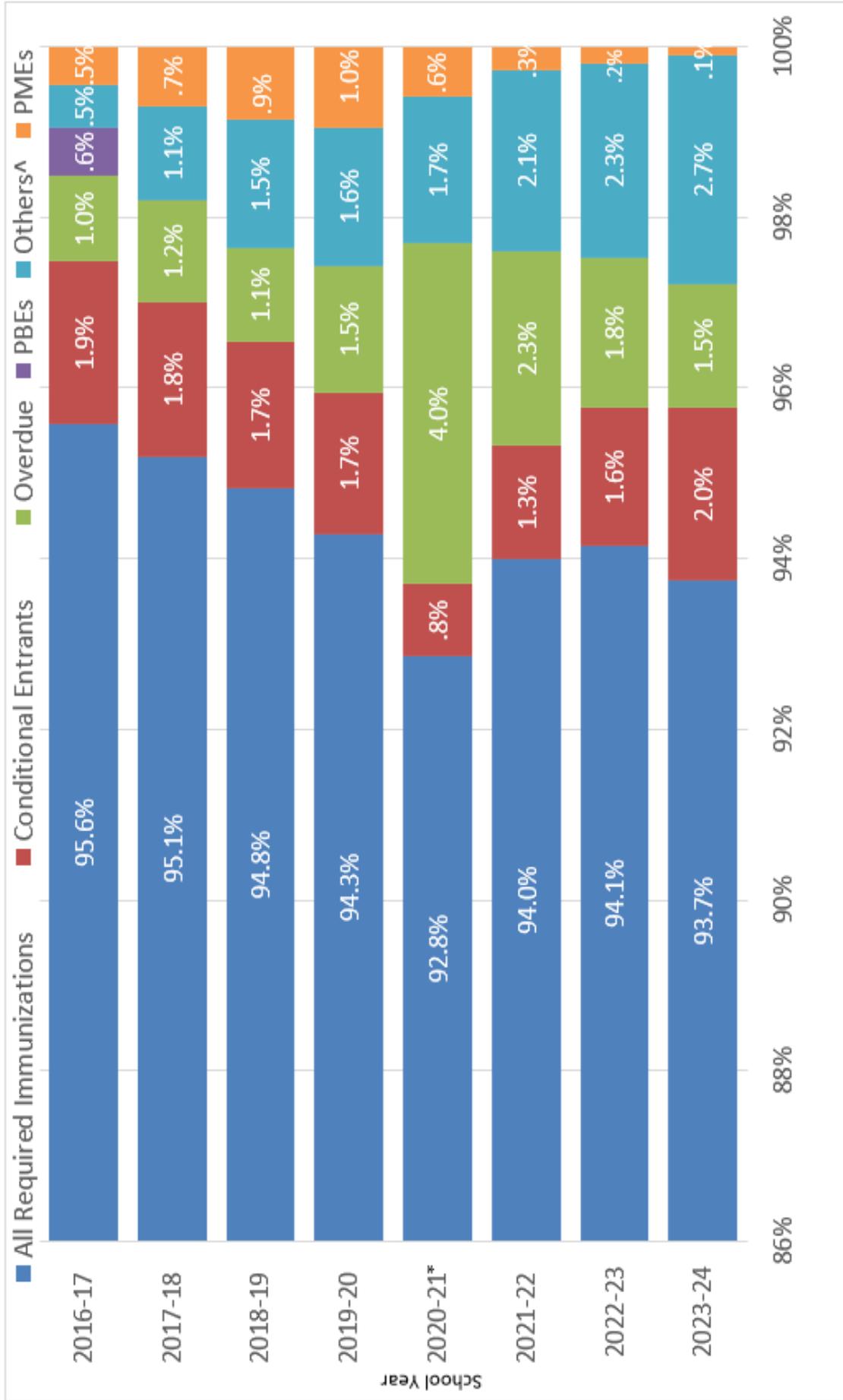
\*School beginning during first year of COVID-19 pandemic.

Figure 3. Percentage of Kindergarten Students with Permanent Medical Exemptions (PME) by School Type and by School Year, 2014-2015 to 2023-2024



\*School beginning during first year of COVID-19 pandemic.

Figure 4. Percentage of Kindergarten Students by Reported Admission Status by School Year, 2016-2017 to 2023-2024



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

\*School beginning during first year of COVID-19 pandemic.

Figure 5. Kindergarten Students with All Required Immunizations, by School Year and County, 2022-2023 to 2023-2024

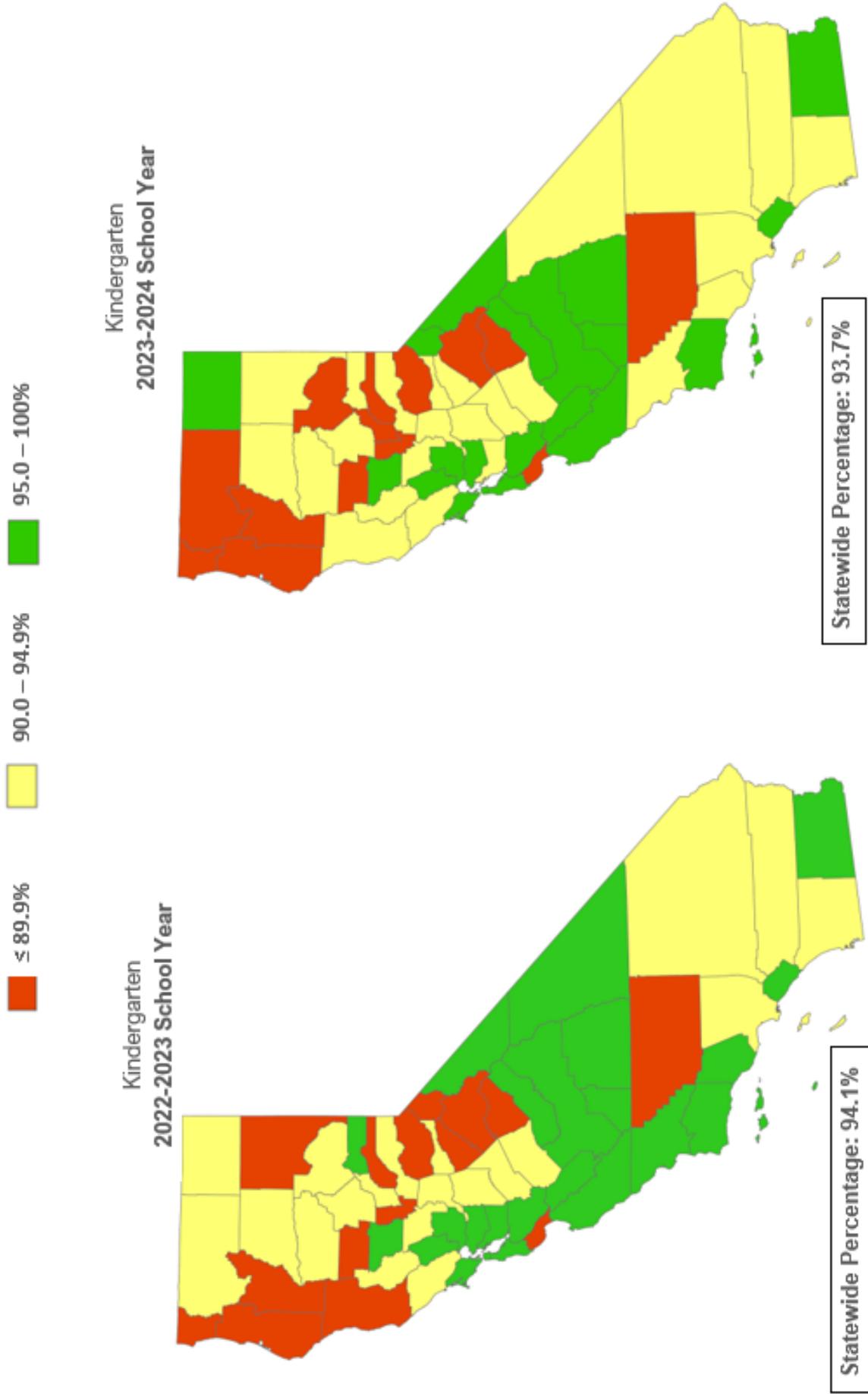
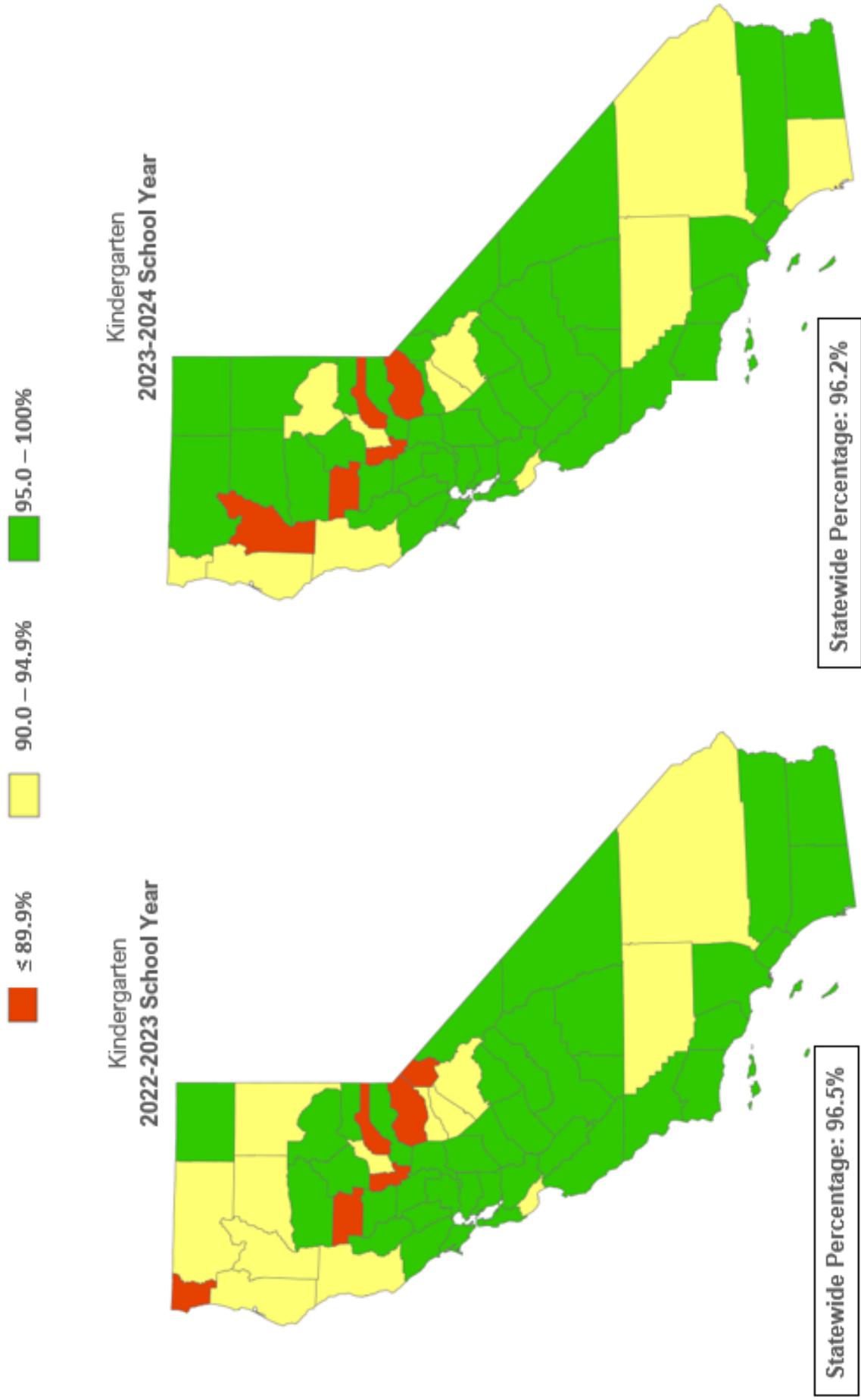


Figure 6. Kindergarten Students with Two or More Doses of MMR Vaccine, by School Year and County, 2022-2023 to 2023-2024



**Table 1: Kindergarten Immunization Assessment Summary, 2021-2022 to 2023-2024**

	2023-2024			2022-2023			2021-2022		
	All	Public	Private	All	Public	Private	All	Public	Private
Number of Schools Reporting Kindergarten Students	7,953	6,160	1,793	7,990	6,191	1,799	7,824	6,131	1,693
Number of Kindergarten Students	569,680	522,949	46,731	540,864	495,722	45,142	503,722	461,506	42,216
All Required Immunizations	93.7%	93.7%	93.9%	94.1%	94.2%	93.4%	94.0%	94.1%	93.1%
Conditional Entrants	2.0%	2.0%	2.2%	1.6%	1.6%	1.8%	1.3%	1.3%	1.8%
Permanent Medical Exemptions	0.1%	0.1%	0.3%	0.2%	0.1%	0.8%	0.3%	0.2%	1.0%
Personal Belief Exemptions	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others Lacking immunizations†	2.7%	2.8%	0.9%	2.3%	2.4%	1.0%	2.1%	2.2%	0.9%
Overdue^	1.5%	1.3%	2.8%	1.8%	1.6%	2.9%	2.3%	2.2%	3.3%
4+ DTP	95.4%	95.3%	96.0%	95.6%	95.6%	95.4%	95.7%	95.7%	95.3%
3+ Polio	96.1%	96.1%	96.0%	96.3%	96.3%	95.7%	96.2%	96.3%	95.6%
2+ MMR	96.2%	96.2%	95.8%	96.5%	96.6%	95.3%	96.3%	96.4%	95.5%
3+ Hep B	97.2%	97.2%	97.5%	97.3%	97.4%	97.2%	97.3%	97.4%	97.1%
2+ Varicella	95.7%	95.7%	95.7%	96.1%	96.2%	95.0%	96.0%	96.1%	95.3%

\* 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.

Table 2: Total Kindergarten Enrollment and Student Immunization Status, 2023-2024  
By County\*

	Total Students	Students with All Required Immunizations	Conditional Entrants	Students with a Permanent Exemption	Others Lacking Required Immunizations†	Overdue^
	Number	Percent	Percent	Percent	Percent	Percent
State Total	569,680	93.7%	1.5%	0.1%	2.7%	1.5%
Alameda	21,723	93.8%	1.6%	0.1%	0.4%	4.1%
Alpine	12	—*	—*	—*	—*	—*
Amador	402	92.5%	3.7%	0.2%	1.2%	2.2%
Butte	2,953	94.2%	2.9%	0.1%	2.2%	0.6%
Calaveras	488	91.4%	1.8%	0.0%	4.3%	2.5%
Colusa	421	96.2%	1.2%	0.0%	0.2%	2.4%
Contra Costa	16,327	95.6%	2.1%	0.1%	0.9%	1.3%
Del Norte	336	87.5%	1.8%	0.0%	7.4%	3.3%
El Dorado	3,105	78.2%	2.3%	0.1%	18.8%	0.6%
Fresno	19,102	96.1%	1.0%	0.0%	2.3%	0.6%
Glenn	620	79.8%	0.8%	0.0%	18.9%	0.5%
Humboldt	2,028	89.0%	4.3%	0.2%	2.2%	4.3%
Imperial	3,005	95.6%	1.5%	0.0%	0.7%	2.1%
Inyo	225	93.8%	3.6%	0.0%	0.0%	2.7%
Kern	19,037	87.4%	2.4%	0.2%	9.0%	1.1%
Kings	2,818	96.1%	2.8%	0.0%	0.5%	0.5%
Lake	1,005	90.8%	3.7%	0.2%	1.7%	3.6%
Lassen	357	91.0%	4.5%	0.8%	2.2%	1.4%
Los Angeles	129,630	94.4%	2.1%	0.1%	1.4%	2.0%
Madera	2,954	95.9%	2.0%	0.0%	1.4%	0.7%
Marin	3,334	96.5%	1.8%	0.2%	0.5%	0.9%
Mariposa	150	86.0%	8.7%	0.0%	2.7%	2.7%
Mendocino	1,265	91.5%	2.3%	0.2%	0.9%	5.1%
Merced	5,589	94.7%	2.5%	0.0%	1.4%	1.4%
Modoc	102	97.1%	2.0%	0.0%	0.0%	1.0%
Mono	161	96.9%	1.9%	0.6%	0.0%	0.6%
Monterey	6,810	96.9%	1.7%	0.0%	0.2%	1.1%
Napa	1,782	96.8%	1.2%	0.0%	1.1%	0.8%
Nevada	973	84.3%	4.0%	0.3%	10.7%	0.7%
Orange	43,911	95.6%	1.6%	0.1%	1.9%	0.8%
Placer	7,189	93.5%	2.8%	0.1%	2.1%	1.4%
Plumas	189	87.3%	7.9%	0.0%	3.2%	1.6%
Riverside	39,300	93.4%	2.3%	0.1%	3.4%	0.8%
Sacramento	23,147	93.1%	3.1%	0.3%	2.6%	1.0%
San Benito	1,176	96.6%	2.0%	0.0%	0.5%	0.9%
San Bernardino	35,570	90.5%	2.6%	0.1%	5.1%	1.8%
San Diego	48,838	92.7%	1.9%	0.1%	4.8%	0.5%
San Francisco	6,488	96.5%	1.2%	0.1%	0.0%	2.1%
San Joaquin	13,528	94.0%	1.9%	0.0%	2.4%	1.7%
San Luis Obispo	3,297	94.2%	2.3%	0.2%	1.4%	1.8%
San Mateo	8,907	96.9%	1.0%	0.1%	0.5%	1.5%
Santa Barbara	7,231	97.0%	1.3%	0.2%	1.1%	0.4%
Santa Clara	24,186	96.8%	1.4%	0.2%	0.4%	1.3%
Santa Cruz	3,547	88.7%	1.8%	0.1%	8.6%	0.8%
Shasta	2,835	91.3%	3.8%	0.1%	3.8%	1.0%
Sierra	35	91.4%	8.6%	0.0%	0.0%	0.0%
Siskiyou	577	89.9%	4.2%	0.5%	4.5%	0.9%
Solano	5,822	95.7%	2.2%	0.1%	0.9%	1.2%
Sonoma	6,934	92.7%	2.0%	0.2%	3.5%	1.6%
Stanislaus	9,527	93.8%	2.3%	0.0%	2.3%	1.5%
Sutter	2,441	73.0%	1.5%	0.4%	24.5%	0.6%
Tehama	1,076	94.7%	2.4%	0.2%	0.9%	1.8%
Trinity	145	81.4%	6.2%	0.0%	2.1%	10.3%
Tulare	9,676	96.2%	1.5%	0.0%	1.5%	0.8%
Tuolumne	520	89.8%	2.1%	0.2%	2.9%	5.0%
Ventura	12,437	94.5%	2.0%	0.1%	1.9%	1.5%
Yolo	3,012	94.1%	2.4%	0.2%	2.5%	0.9%
Yuba	1,425	87.7%	0.6%	0.1%	2.9%	8.6%

\* 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%.

† 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 3: Total Kindergarten Enrollment and Specific Required Immunizations by Series, 2023-2024, By County\*

	Total Students	DTP 4+	Polio 3+	MMR 2+	HepB 3+	Var 2+
	Number	Percent	Percent	Percent	Percent	Percent
State Total	569,680	95.4%	96.1%	96.2%	97.2%	95.7%
Alameda	21,723	96.0%	96.5%	96.4%	97.2%	95.4%
Alpine	12	--*	--*	--*	--*	--*
Amador	402	94.8%	96.5%	96.3%	96.5%	96.3%
Butte	2,953	95.8%	96.7%	96.9%	97.5%	96.4%
Calaveras	488	92.6%	93.2%	93.9%	95.1%	92.6%
Colusa	421	97.6%	98.3%	98.3%	98.8%	97.6%
Contra Costa	16,327	97.3%	97.9%	97.9%	98.6%	97.3%
Del Norte	336	89.9%	92.0%	92.0%	93.5%	92.0%
El Dorado	3,105	79.5%	80.2%	80.3%	82.4%	80.0%
Fresno	19,102	97.3%	97.5%	97.5%	98.0%	97.2%
Glenn	620	80.8%	81.3%	80.8%	83.7%	80.8%
Humboldt	2,028	92.9%	93.2%	92.8%	95.5%	91.9%
Imperial	3,005	97.3%	97.7%	97.9%	98.8%	97.8%
Inyo	225	96.0%	94.7%	95.6%	98.2%	94.7%
Kern	19,037	88.9%	90.3%	90.7%	92.5%	90.1%
Kings	2,818	97.2%	98.2%	98.1%	98.9%	97.2%
Lake	1,005	93.5%	95.0%	95.3%	96.8%	94.7%
Lassen	357	92.2%	94.1%	95.8%	95.5%	95.0%
Los Angeles	129,630	96.3%	96.9%	97.1%	98.2%	96.4%
Madera	2,954	97.2%	98.2%	98.2%	98.4%	97.9%
Marin	3,334	98.3%	98.8%	98.9%	98.8%	98.2%
Mariposa	150	88.0%	90.0%	96.7%	92.7%	94.7%
Mendocino	1,265	94.4%	95.4%	94.9%	96.2%	93.8%
Merced	5,589	96.6%	97.5%	97.5%	98.8%	97.0%
Modoc	102	98.0%	97.1%	≥99.0%	≥99.0%	≥99.0%
Mono	161	98.1%	98.1%	98.1%	98.8%	98.1%
Monterey	6,810	98.3%	98.8%	98.6%	99.2%	98.3%
Napa	1,782	98.7%	99.1%	99.0%	98.5%	98.8%
Nevada	973	88.1%	88.9%	88.7%	90.5%	87.9%
Orange	43,911	96.9%	97.3%	97.4%	98.1%	97.0%
Placer	7,189	95.0%	96.0%	96.3%	96.6%	95.6%
Plumas	189	90.5%	92.6%	92.6%	95.2%	92.1%
Riverside	39,300	94.7%	95.8%	95.8%	96.9%	95.5%
Sacramento	23,147	94.6%	96.0%	96.4%	97.3%	95.8%
San Benito	1,176	97.6%	98.3%	98.5%	99.4%	98.4%
San Bernardino	35,570	92.3%	93.5%	93.5%	95.1%	93.1%
San Diego	48,838	94.1%	94.9%	94.8%	96.4%	94.4%
San Francisco	6,488	98.2%	98.5%	98.4%	98.8%	97.9%
San Joaquin	13,528	95.5%	96.3%	96.3%	97.7%	95.9%
San Luis Obispo	3,297	96.3%	96.5%	96.5%	98.3%	96.1%
San Mateo	8,907	98.2%	98.5%	98.5%	98.8%	98.0%
Santa Barbara	7,231	97.8%	98.1%	98.2%	98.6%	97.9%
Santa Clara	24,186	98.1%	98.7%	98.6%	99.1%	98.2%
Santa Cruz	3,547	91.5%	91.9%	91.8%	94.5%	91.4%
Shasta	2,835	93.2%	94.3%	95.1%	96.5%	95.2%
Sierra	35	91.4%	≥95.0%	≥95.0%	94.3%	≥95.0%
Siskiyou	577	95.1%	95.0%	96.4%	95.8%	95.5%
Solano	5,822	96.9%	97.9%	98.2%	98.6%	97.5%
Sonoma	6,934	94.6%	94.9%	95.0%	95.5%	94.4%
Stanislaus	9,527	95.4%	96.7%	96.6%	97.9%	96.0%
Sutter	2,441	75.4%	76.0%	75.8%	80.3%	75.3%
Tehama	1,076	96.7%	97.4%	97.0%	98.8%	96.3%
Trinity	145	87.6%	89.0%	87.6%	91.0%	86.2%
Tulare	9,676	97.2%	97.7%	97.8%	98.5%	97.5%
Tuolumne	520	91.9%	92.3%	93.1%	95.4%	93.3%
Ventura	12,437	96.2%	96.7%	96.6%	98.0%	96.3%
Yolo	3,012	95.5%	96.3%	96.6%	97.0%	96.0%
Yuba	1,425	89.9%	91.1%	91.6%	94.9%	91.5%

\* Additional precautions for student de-identification are based on jurisdiction enrollment for kindergarten. For jurisdictions with: Fewer than 20 enrollees, the data are omitted; 20-49 enrollees, values of 95% or higher are listed as ≥95%; 50-99 enrollees, values of 98% or higher are listed as ≥98%; 100-499 enrollees, values of 99% or higher are listed as ≥99%.

Table 4: Students with 2 or More Doses of MMR Vaccine  
Kindergarten 2021-2022 to 2023-24, 1st Grade 2021-2022 to 2022-23, By County\*

	Total Students†	2+ MMR				
		Kindergarten			1st Grade	
		2023-2024	2022-2023	2021-2022	2022-2023	2021-2022
State Total	569,680	96.2%	96.5%	96.3%	97.5%	97.5%
Alameda	21,723	96.4%	97.2%	97.2%	98.4%	98.4%
Alpine	12	--*	--*	--**	--*	--**
Amador	402	96.3%	94.0%	94.1%	94.8%	96.3%
Butte	2,953	96.9%	97.8%	97.9%	98.5%	98.1%
Calaveras	488	93.9%	93.2%	96.4%	96.1%	95.8%
Colusa	421	98.3%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
Contra Costa	16,327	97.9%	97.8%	97.5%	98.6%	98.5%
Del Norte	336	92.0%	89.0%	95.2%	93.7%	96.1%
El Dorado	3,105	80.3%	82.8%	83.6%	84.8%	89.3%
Fresno	19,102	97.5%	97.6%	97.5%	98.4%	98.8%
Glenn	620	80.8%	83.5%	87.4%	87.1%	89.4%
Humboldt	2,028	92.8%	91.4%	91.5%	92.8%	93.7%
Imperial	3,005	97.9%	98.6%	97.2%	98.1%	98.5%
Inyo	225	95.6%	96.1%	95.4%	97.3%	95.2%
Kern	19,037	90.7%	91.9%	91.6%	93.4%	93.5%
Kings	2,818	98.1%	98.6%	98.1%	98.1%	98.7%
Lake	1,005	95.3%	96.8%	97.0%	97.8%	97.9%
Lassen	357	95.8%	93.7%	89.8%	97.4%	94.8%
Los Angeles	129,630	97.1%	96.9%	96.7%	98.1%	98.1%
Madera	2,954	98.2%	98.0%	97.5%	99.0%	98.4%
Marin	3,334	98.9%	99.0%	99.1%	99.4%	98.6%
Mariposa	150	96.7%	96.6%	97.7%	96.4%	95.9%
Mendocino	1,265	94.9%	93.1%	93.7%	96.2%	96.2%
Merced	5,589	97.5%	96.8%	97.4%	98.3%	98.5%
Modoc	102	≥99.0%	≥99.0%	98.0%	≥99.0%	≥99.0%
Mono	161	98.1%	≥99.0%	≥99.0%	≥99.0%	≥99.0%
Monterey	6,810	98.6%	98.7%	98.8%	99.4%	99.2%
Napa	1,782	99.0%	98.3%	98.8%	97.8%	99.0%
Nevada	973	88.7%	88.8%	86.9%	89.6%	87.1%
Orange	43,911	97.4%	97.7%	97.7%	98.4%	98.5%
Placer	7,189	96.3%	95.8%	95.4%	96.6%	96.3%
Plumas	189	92.6%	96.6%	96.0%	94.8%	96.8%
Riverside	39,300	95.9%	96.5%	96.4%	97.6%	97.5%
Sacramento	23,147	96.4%	96.8%	95.8%	98.0%	97.1%
San Benito	1,176	98.5%	98.8%	98.9%	99.0%	99.2%
San Bernardino	35,570	93.5%	94.7%	94.9%	96.1%	96.3%
San Diego	48,838	94.8%	95.3%	95.3%	96.6%	96.6%
San Francisco	6,488	98.4%	98.2%	96.4%	98.7%	97.3%
San Joaquin	13,528	96.3%	96.4%	96.8%	97.7%	97.8%
San Luis Obispo	3,297	96.5%	96.7%	96.2%	97.8%	98.3%
San Mateo	8,907	98.5%	98.0%	98.2%	98.8%	98.9%
Santa Barbara	7,231	98.2%	98.5%	98.0%	99.0%	98.5%
Santa Clara	24,186	98.6%	98.7%	98.1%	99.4%	98.7%
Santa Cruz	3,547	91.8%	92.5%	94.1%	94.8%	93.9%
Shasta	2,835	95.1%	94.8%	92.6%	95.0%	94.8%
Sierra	35	≥95.0%	≥95.0%	≥95.0%	≥95.0%	≥95.0%
Siskiyou	577	96.4%	93.7%	93.0%	94.8%	93.7%
Solano	5,822	98.2%	97.9%	98.3%	98.7%	99.1%
Sonoma	6,934	95.0%	95.5%	95.0%	95.9%	96.4%
Stanislaus	9,527	96.6%	96.8%	96.3%	97.5%	97.7%
Sutter	2,441	75.8%	78.7%	79.9%	79.9%	83.9%
Tehama	1,076	97.0%	96.8%	97.2%	99.0%	98.6%
Trinity	145	87.6%	90.3%	93.2%	97.2%	90.4%
Tulare	9,676	97.8%	97.7%	98.2%	98.7%	98.9%
Tuolumne	520	93.1%	90.7%	93.5%	92.7%	93.0%
Ventura	12,437	96.6%	96.9%	97.1%	97.8%	97.8%
Yolo	3,012	96.6%	96.4%	95.8%	97.2%	96.6%
Yuba	1,425	91.6%	93.8%	93.2%	96.8%	96.1%

† 2023-2024 School Year

\* 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