

CCIC Provider Education

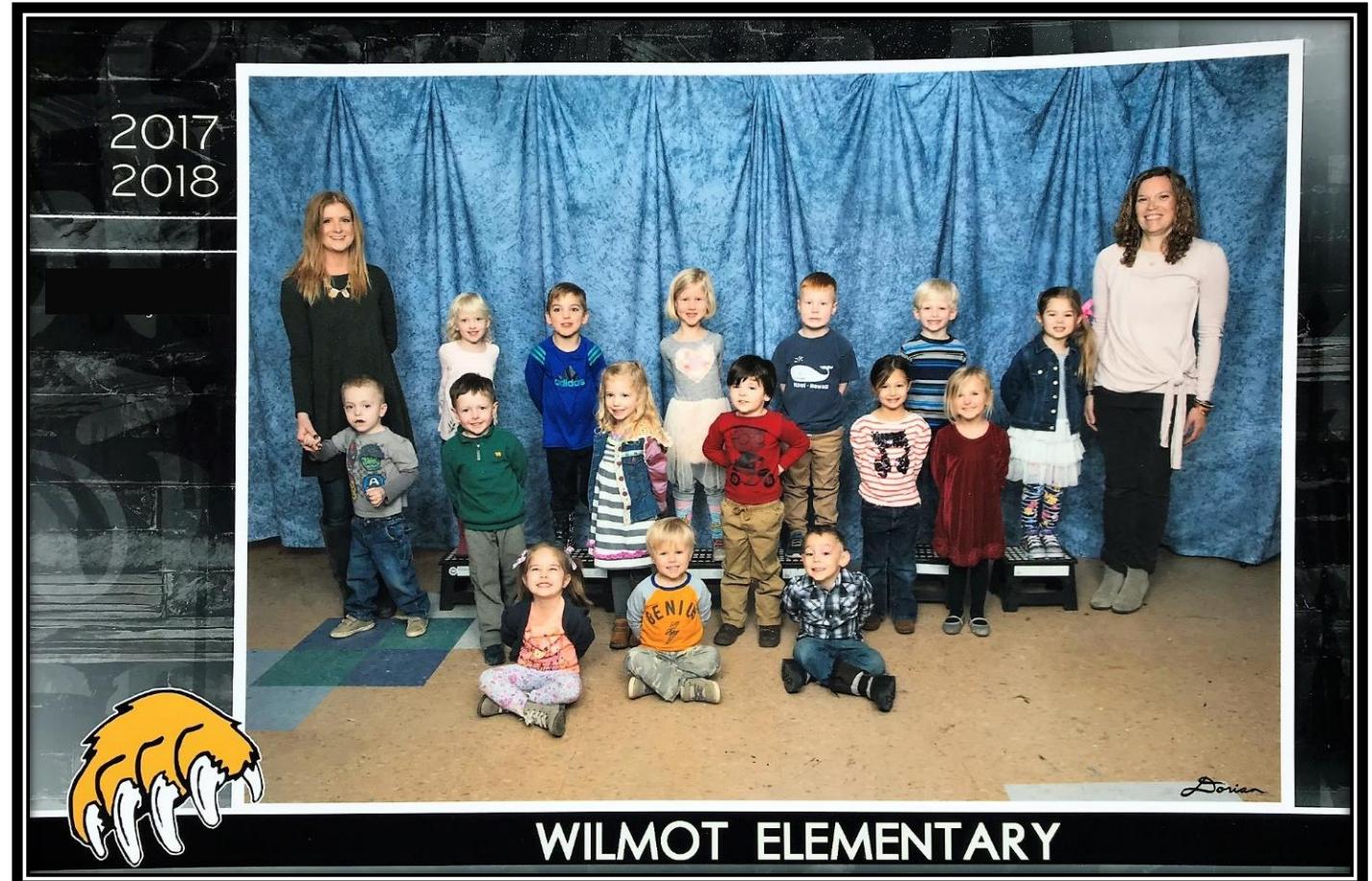
School and Child Care Vaccination Reporting Data, Updates, and FAQ's

August 16th, 2018



What I will cover:

1. The school and child care reporting requirement and process.
2. Vaccination trends and coverage in Colorado.
3. Changes from the first, second, and upcoming reporting period.
4. Tips and tricks for successful reporting.



Timeline

- 1885 Massachusetts
- 1922 Supreme Court
- 1978 CDC
- 1989-2000 Colorado Census
- 2002-2007 Colorado Sample
- 2007-2009 Ferpa Barriers
- 2010 FERPA-Compliant methodology
- 2016-2017 (Year 1)
 - New Legislation. Little time to prepare, quick web-form was created with no validation. Quick data sharing visualization.
- 2017-2018 (Year 2)
 - New full fledged web application for data collection and three separate visualizations.
- 2018-2019 (Year 3)
 - District import, tightened validation, new user tools, mobile friendly visualization.

HB-14 1288

- Effective July 1, 2014
 - Required schools and licensed child care facilities to release immunization and exemption rates when requested.
 - Required CDPHE to assist in the collection of immunization data and made us responsible for the analysis and public posting of the data.
 - Authorized the Board of Health to update the frequency of non-medical exemption submissions.

The Requirement (6 CCR 1009-2)

- A Board of Health rule in response to HB-14 1288 that detailed its implementation.
- Effective July 1, 2016.
- “..any child care center, preschool or head start program that is licensed by the Colorado Department of Human Services to provide care to ten or more children and are not exempt from reporting pursuant to Paragraph B of this Section, and; public, private, or parochial schools with kindergarten, elementary or secondary schools through grade twelve, shall send aggregate immunization and exemption data, by antigen, to the Department of Public Health and Environment. “

Who is exempt?

- School-age child care centers
- Family child care homes
- Drop-in centers
- Day treatment centers
- Foster care homes
- Day camps
- Resident camps
- Legal interpretation for on-line schools where students never meet in person
- Public services short-term child care facility
- Guest child care facility
- Ski school

“On December 1, 2016, and each year thereafter...shall send aggregate immunization and exemption data, by antigen, to the Department of Public Health and Environment.”

Required data shall include for all students and kindergarten students:

- Number enrolled
- Number who are up-to-date
- Number who have a medical exemption for all immunizations
- Number who have a medical exemption for one or more but not all immunizations
- Number who have a religious exemption for all immunizations
- Number who have a religious exemption for one or more but not all immunizations
- Number who have a personal belief exemption for all immunizations
- Number who have a personal belief exemption for one or more but not all immunizations
- Number in-process
- Number not up-to-date for immunizations, with no exemption on file, and not in-process
- Number with no immunization records

• ...”the Department of Public Health and Environment shall provide immunization information to the public.”

What is required?

- Child Care/Preschool (# doses is age-dependent)

Age of Child	# of required doses DTaP or DTP <i>Diphtheria, Tetanus and Pertussis</i>	# of required doses IPV <i>Polio</i>	# of required doses MMR <i>Measles, Mumps and Rubella</i>	# of required doses Hib <i>Haemophilus influenzae type b</i>	# of required doses Hep B <i>Hepatitis B</i>	# of required doses Varicella <i>Chickenpox</i>	# of required doses PCV13 <i>Pneumococcal Disease</i>
By 1 mo.	-	-	-	-	1 ^{1/2}	-	-
By 3 mos.	1	1	-	1	2 ^{1/2}	-	1-
By 5 mos.	2	2	-	2	2 ^{1/2}	-	2-
By 7 mos.	3	2	-	3/2 ^{1/2}	2 ^{1/2}	-	3/2-
By 16 mos.	3	2	1+	4/3/2/1 ^{1/2}	2 ^{1/2}	1*	4/3/2-
By 19 mos.	4	3	1	4/3/2/1 ^{1/2}	3 ^{1/2}	1	4/3/2-
By 2 years	4	3	1	4/3/2/1 ^{1/2}	3 ^{1/2}	1	4/3/2/1-
By K Entry	5/4 ^{1/2}	4/3 ^{1/2}	2		3 ^{1/2}	2	-

- Five doses of DTaP vaccines are required at school entry in Colorado unless the 4th dose was given at 48 months of age or older (i.e., on or after the 4th birthday) in which case only 4 doses are required. There must be at least 4 weeks between dose 1 and dose 2, at least 4 weeks between dose 2 and dose 3, at least 4 months between dose 3 and dose 4, and at least 6 months between dose 4 and dose 5. The final dose must be given no sooner than 4 years of age (dose 4 may be given at 12 months of age provided there is at least 4 months between dose 3 and dose 4).
- Four doses of Polio vaccine are required at school entry in Colorado. There must be at least 4 weeks between dose 1 and dose 2, at least 4 weeks between dose 2 and dose 3, and at least 6 months between dose 3 and dose 4. The final dose must be given no sooner than 4 years of age. A 4th dose is not required if the 3rd dose was administered at age 4 years or older and at least 6 months after the 2nd dose.
- The first dose of MMR, vaccine given more than 4 days before the 1st birthday is not a valid dose and cannot be accepted. ACIP recommends that the 1st dose of MMR be given between 12 -15 months of age. The student is out of compliance if no record of MMR at 16 months of age.
- The number of Hib doses required depends on the child's current age and the age when the Hib vaccine was administered. If any dose is given at or over 15 months, the Hib requirement is met. For children who begin the series before 12 months, 3 doses are required, of which at least 1 dose must be administered at, or over, 12 months. If the 1st dose was given at 12 to 14 months, 2 doses are required. If the student's current age is 5 years or older, no new or additional doses are required. The number of doses and the intervals may vary depending on the type of Hib vaccine.
- The Hep B vaccine is the only immunization that can be given as a birth dose. The 2nd dose of Hep B is to be given at least 4 weeks after the 1st dose; 3rd dose to be given at least 16 weeks (4 months) after 1st dose; and last dose to be given at least 8 weeks after 2nd dose and at (24 weeks) almost 6 months of age or older.
- If a child has had chickenpox disease and it is documented by a health care provider, that child has met the Varicella requirement. Varicella given more than 4 days before the 1st birthday is not a valid dose and cannot be accepted. ACIP recommends 1st dose between 12 - 15 months. The student is out of compliance if the 1st dose is not given at 16 months of age.
- The number of doses of PCV13 depends on the student's current age and the age when the 1st dose was administered. If the 1st dose was administered between 2 to 6 months of age, the student will receive 3 doses (2, 4 & 6 months) at least 4 -8 weeks apart, and booster dose between 12 - 15 months, at least 8 weeks after last dose. If started between 7 to 11 months of age, the student will receive 2 doses, at least 8 weeks apart, and a booster dose between 12 to 15 months of age. If the 1st dose was given between 12 to 23 months of age, 2 doses, at least 8 weeks apart, are required. Any dose given at 24 months through 4 years of age, the PCV vaccine requirement is met. No doses are required once the student turns 5 years of age.

- Kindergarten - 12th Grade

VACCINE	Number of Doses	Grades K-12 (4-18 Years of Age)
		Vaccines must follow MINIMUM INTERVALS & AGES to be valid. A 4 day grace period applies in most situations.
Diphtheria/Tetanus/Pertussis (DTaP) <i>Only licensed through 6 yrs of age.</i>	4 to 5	5 DTaP unless dose 4 given is given on or after the 4 th b-day. Final dose of DTaP given no sooner than 4 years of age.
Tetanus/Diphtheria/Pertussis <i>For students 7 years of age or older who did not have a full series of DTaP.</i>	3 or 4	3 doses tetanus/diphtheria containing vaccines (DTaP, DT, Td, Tdap) is required, or 4 doses required if 1 st dose of DTaP is given before 1 year of age. 1 dose of Tdap given if DTaP series not completed and student is at least 7 yrs of age. Tdap is required at 6th grade entry through 12th grade.
Polio (IPV) <i>With combination of OPV & IPV, need series of 4 doses</i>	3 to 4	4 IPV unless 3 rd dose is given on or after 4 th birthday. Students who were compliant with 3 or 4 doses (4 weeks minimum intervals between doses) prior to August 7, 2009 have met the requirement.
Measles/Mumps/Rubella (MMR) <i>There must be at least a 28 day interval between 2 live vaccines.</i>	2	The 1 st dose is not valid if administered more than 4 days before the 1 st birthday. 2 doses are required for students entering Kindergarten & through 12 th grade.
Varicella (Chickenpox) <i>There must be at least a 28 day interval between 2 live vaccines.</i>	2	The 1 st dose is not valid if administered more than 4 days before the 1 st birthday. 2 doses are required for students entering Kindergarten & through 12 th grade. Note: no vaccine required if there is laboratory documentation of chickenpox disease or a disease screening performed by a health care provider.
Hepatitis B <i>Dosing must follow minimum intervals between doses and last dose must be administered at or over 24 wks of age.</i>	3	The 2 nd dose administered at least 4 weeks after the first dose. The 3 rd dose must be administered at least 16 weeks after the 1 st dose, at least 8 weeks after the 2 nd dose, and the final dose must be administered no sooner than 24 weeks of age. Note: there is a specific 2-dose series is for ages 11-15 years only using adult vaccine.

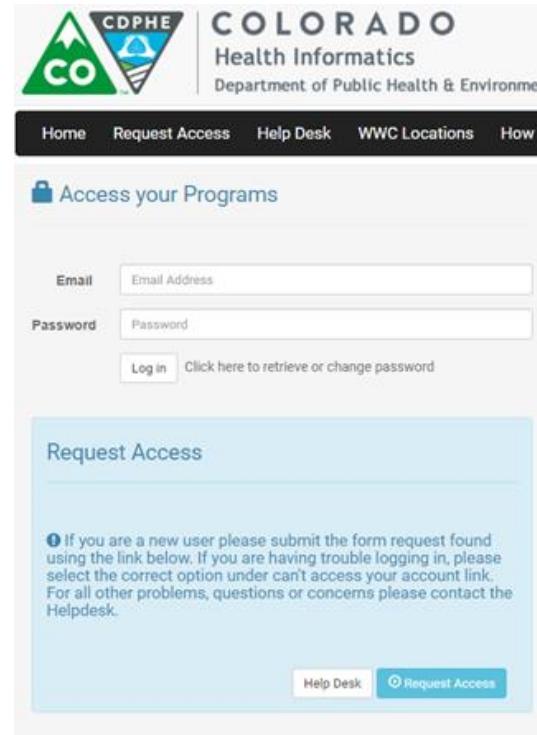


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The Process...

1. Register
2. Activation
3. Report

- Registration involves creating an account and associating that account with the “locations” they will be reporting for. You only need to register once.



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Health Informatics
Department of Public Health & Environment

Home Request Access Help Desk WWC Locations How To

Access your Programs

Email Email Address

Password Password

Log in Click here to retrieve or change password

Request Access

If you are a new user please submit the form request found using the link below. If you are having trouble logging in, please select the correct option under can't access your account link. For all other problems, questions or concerns please contact the Helpdesk.

Help Desk Request Access

Location Access

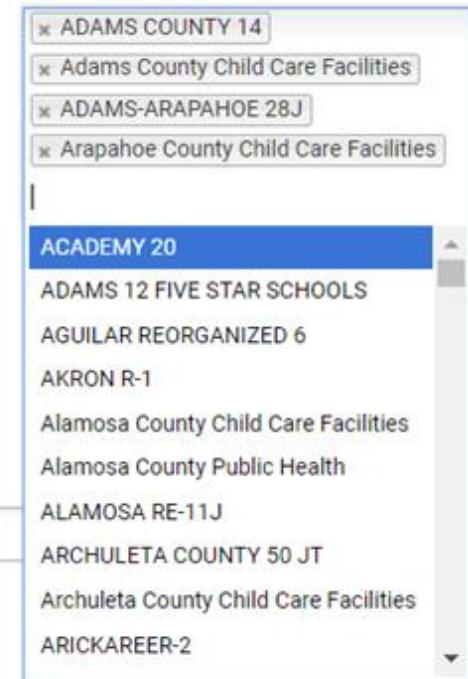
Select from the following types of locations (select all that apply):

- School Districts
- Child Care Facility by County
- Local Public Health Agencies
- Colorado Marriage and Dissolution

Select your Program Access

Select the Programs you would like to access

Click to Add



ADAMS COUNTY 14

Adams County Child Care Facilities

ADAMS-ARAPAHOE 28J

Arapahoe County Child Care Facilities

ACADEMY 20

ADAMS 12 FIVE STAR SCHOOLS

AGUILAR REORGANIZED 6

AKRON R-1

Alamosa County Child Care Facilities

Alamosa County Public Health

ALAMOSA RE-11J

ARCHULETA COUNTY 50 JT

Archuleta County Child Care Facilities

ARICKAREER-2

Submission Year 

2017 Registered Schools/Child Care Facilities

Show 10  entries 

School	Location	Type	School	Kinder	Child Care/Pre	Status	Last Updated	By
11808 27J PRESCHOOL @ BRANTNER	Adams County Child Care Facilities	Child Care/Preschool	—	400	200	 Submitted	10/10/2017	Jeff Scott
11809 4 SEASONS EARLY LEARNING CENTER	Adams County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11812 6TH AVENUE ELEMENTARY PRESCHOOL	Arapahoe County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11814 A CHILD'S LIFE	Adams County Child Care Facilities	Child Care/Preschool	—	300	200	 Submitted	10/11/2017	Jeff Scott
11816 A CHILD'S TOUCH	Adams County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11817 A NEW GENERATION	Adams County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11820 A PLUS LEARNING CENTER DBA IMAGINATION PLUS	Arapahoe County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11826 ABC LEARNING CENTER AND PRESCHOOL	Adams County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11834 ACHIEVE ACADEMY	Adams County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us
11836 ACTIVE LEARNER'S	Arapahoe County Child Care Facilities	Child Care/Preschool	—	—	—	 Pending	10/06/2017	paul.turtle@state.co.us

Showing 1 to 10 of 413 entries           

2017 ALSUP ELEMENTARY SCHOOL School and Child Care Immunization Data Reporting

 To get started, enter your enrollment information

School Enrollment - Total: 0

Kindergarten	<input type="text"/>	5th Grade	<input type="text"/>	10th Grade	<input type="text"/>
1st Grade	<input type="text"/>	6th Grade	<input type="text"/>	11th Grade	<input type="text"/>
2nd Grade	<input type="text"/>	7th Grade	<input type="text"/>	12th Grade	<input type="text"/>
3rd Grade	<input type="text"/>	8th Grade	<input type="text"/>		
4th Grade	<input type="text"/>	9th Grade	<input type="text"/>		

 NEXT

- *Pending* for schools you have not started.
- *In Progress* for schools that you have begun but not finished.
- *Submitted* for schools that you have completed.

2017 ALSUP ELEMENTARY SCHOOL School and Child Care Immunization Data Reporting

Click this box to begin reporting!



! The Vaccine Summary Information you have reported DOES NOT MATCH the Enrollment Information you entered. Please ADJUST/ADD your vaccine information below.

Vaccine Summary Information

School Summary Information		School Enrollment 60			School Vaccine Information		Kindergarten Enrollment 10		Kindergarten Vaccine Information		
Compliant - N/A	Not Compliant - N/A	HepB Total: N/A	Polio Total: N/A	Varicella Total: N/A	Compliant - N/A	Not Compliant - N/A	HepB Total: N/A	Polio Total: N/A	Varicella Total: N/A		
DTaP Total: N/A	MMR Total: N/A				DTaP Total: N/A	MMR Total: N/A	DTaP Total: N/A	MMR Total: N/A			

School Enrollment - Total: 60

Kindergarten	10	5th Grade	10	10th Grade	
1st Grade	10	6th Grade		11th Grade	
2nd Grade	10	7th Grade		12th Grade	
3rd Grade	10	8th Grade			
4th Grade	10	9th Grade			

SAVE

Reporting

Child Care or Preschool

2017 ABC LEARNING CENTER AND PRESCHOOL School and Child Care Immunization Data Reporting

① To get started, enter your enrollment information

Kindergarten Students

Check this box if:
• Your oldest full-time students are kindergartners

DO NOT check this box if:
• All your students are younger than kindergartners
• Your child care/preschool enrolls kindergartners (and/or older) students but they attend less than full-time (i.e. before/after care)

Child Care/Preschool Enrollment - Total: 0

0 mths - Preschool

2017 ABC LEARNING CENTER AND PRESCHOOL School and Child Care Immunization Data Reporting

Child Care/Preschool Overall Immunization Status

Category	Number of Students in Category
Compliant	<input type="text"/>
Not Compliant	<input type="text"/>

0

20

Total Child Care/Aftercare Enrollment

Child Care/Preschool Exemptions from All Vaccines (Totals MUST NOT exceed Total Enrollment)

Category	Number of Students in Category
Medical exemption for all vaccines	<input type="text"/>
Religious exemption for all vaccines	<input type="text"/>
Personal exemption for all vaccines	<input type="text"/>

Child Care/Preschool Vaccine-Specific Status (All rows MUST EQUAL Total Enrollment)

Vaccine	COMPLIANT				NOT COMPLIANT		Total	
	Up-To-Date	Medical Exemption	Religious Exemption	Personal Exemption	In Process	No Record	Incomplete Record	
HepB	<input type="text"/>	0						
DTaP	<input type="text"/>	0						
Polio	<input type="text"/>	0						
MMR	<input type="text"/>	0						
Varicella	<input type="text"/>	0						
HIB	<input type="text"/>	0						
PCV13	<input type="text"/>	0						

20

Total Child Care/Preschool Enrollment

CANCEL

SAVE

School and Child Care Vaccination Reporting Data, Updates, and FAQs

School

2017 ALSUP ELEMENTARY SCHOOL School and Child Care Immunization Data Reporting

① To get started, enter your enrollment information

School Enrollment - Total: 0

Kindergarten	<input type="text"/>	5th Grade	<input type="text"/>	10th Grade	<input type="text"/>
1st Grade	<input type="text"/>	6th Grade	<input type="text"/>	11th Grade	<input type="text"/>
2nd Grade	<input type="text"/>	7th Grade	<input type="text"/>	12th Grade	<input type="text"/>
3rd Grade	<input type="text"/>	8th Grade	<input type="text"/>		
4th Grade	<input type="text"/>	9th Grade	<input type="text"/>		

2017 ALSUP ELEMENTARY SCHOOL School and Child Care Immunization Data Reporting

► NEXT

School Overall Immunization Status

Category	Number of Students in Category
Compliant	<input type="text"/>
Not Compliant	<input type="text"/>

0

60

Total School Enrollment

School Exemptions from All Vaccines (Totals MUST NOT exceed Total Enrollment)

Category	Number of Students in Category
Medical exemption for all vaccines	<input type="text"/>
Religious exemption for all vaccines	<input type="text"/>
Personal exemption for all vaccines	<input type="text"/>

School Vaccine-Specific Status (All rows MUST EQUAL Total Enrollment)

Vaccine	COMPLIANT				NOT COMPLIANT		Total	
	Up-To-Date	Medical Exemption	Religious Exemption	Personal Exemption	In Process	No Record	Incomplete Record	
HepB	<input type="text"/>	0						
DTaP	<input type="text"/>	0						
Polio	<input type="text"/>	0						
MMR	<input type="text"/>	0						
Varicella	<input type="text"/>	0						

60

Total School Enrollment



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2017 ALSUP ELEMENTARY SCHOOL School and Child Care Immunization Data Reporting

School Overall Immunization Status

Category	Number of Students in Category	
Compliant		60
Not Compliant		
	0	Total School Enrollment

School Exemptions from All Vaccines (Totals MUST NOT exceed Total Enrollment)

Category	Number of Students in Category
Medical exemption for all vaccines	
Religious exemption for all vaccines	
Personal exemption for all vaccines	

School Vaccine-Specific Status (All rows MUST EQUAL Total Enrollment)

Vaccine	COMPLIANT					NOT COMPLIANT			60 Total School Enrollment
	Up-To-Date	Medical Exemption	Religious Exemption	Personal Exemption	In Process	No Record	Incomplete Record	Total	
HepB								0	
DTaP								0	
Polio								0	
MMR								0	
Varicella								0	

Data Quality...

- We ask for two types of information from reporters.
 1. Individual antigen
 2. Across all antigens or “school level”
- Reporters have far less difficulty with individual antigen reporting.
 - Able to validate data against enrollment
 - Passes the “looks reasonable” test
 - Few if any questions...
- Reporters have increased difficulty with “school level” reporting.
 - Limited validation options
 - Frequently does not “add up”
 - Receive questions frequently
 - More complex
- Changed question of up-to-date to compliance at school level to lessen confusion.
- Intent to one day change it back...

Prior to reporting...

Visit our School and child care immunization data reporting website!

We have videos and step-by-step PDFs of registration, child care reporting, and school reporting.

Worksheets for both child care and schools.

Guidance on how to create an immunization rate report from CIIS for your reporting.

Print out our required school/child care vaccination charts!

All kids who are not up-to-date, review their record against the above charts. Many school data systems are not specific to Colorado!

Reporting should not bring anyone to tears. Nor is it the end of the world if you get stuck, we will help you.

School nurses and child care providers are heroes!

Common questions and Tips

Questions:

1. I can't find my facility.
2. I can't submit my report.
3. Can I get an extension?
4. How can I change my submission?
5. Where do my preschool kids go?
6. I registered, was approved, and can't figure out where to enter my data?

Tips:

1. Facility selection does change this year. Just start typing the name of your facility first. If that fails start typing the address. You don't have to scroll through the list. Name and address are searchable just by typing any portion of them.
2. If there is red on your screen something is wrong, usually validation ensuring every kid (enrollment) is matched. The system also doesn't want a zero: if no kids have an exemption, leave it blank!
3. Each year of this process has been completely new, often with us developing the process right up until the survey opens. This will be our first year where we are not recreating the wheel. We are striving to meet the dates outlined in the legislation. (a roundabout "no"). Please try to start ahead of time! If an extension is needed it will be applied universally.
4. Log back in and "unlock" your survey.
5. Preschool kids are treated as a child care and must be reported in their own child care site, not in your "school".
6. Where it says "vaccine summary information", there is a box beneath it with your enrollment information. Click that box!
7. Print out one of our paper worksheets and complete it without any technological interference or distraction. Then log in and enter.
8. Register immediately if you didn't last year. Even if you did, once the survey opens try to log in!

Data exchange

2016-2017 Piloted two districts sending us extracts from their school data system (infinite campus or power school).

Sent us de-identified, FERPA-compliant individual level data according to a specification I created.

We were able to process and calculate rates for all schools in the district and populate the application as if each school completed them manually.

2018-2019 Upload functionality is being built to expand this pilot.

Clear benefits for everyone involved

Quick and easy for entire districts to report

Takes pressure off nurses and school staff

Ensures accurate rate calculations

“School level” across all vaccines per student is no longer a barrier

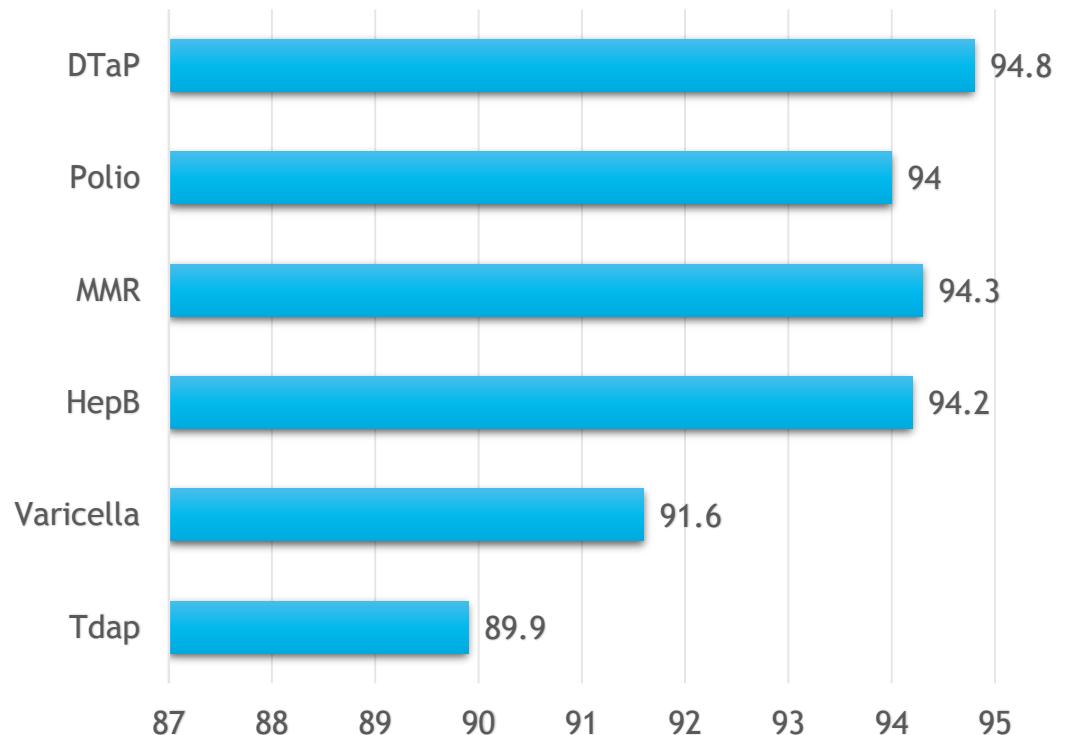
No longer “self-reported” data

Allows CDPHE to automate more of the data collection

The data...

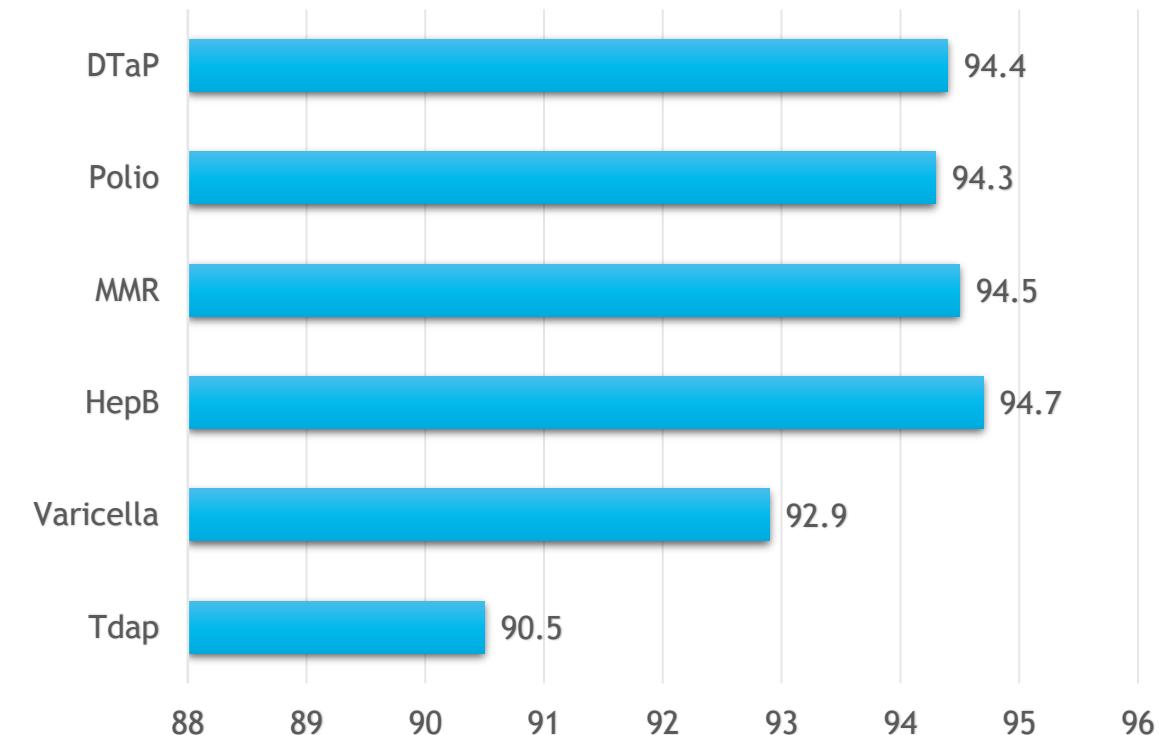
2016-2017 Schools

% Up-To-Date



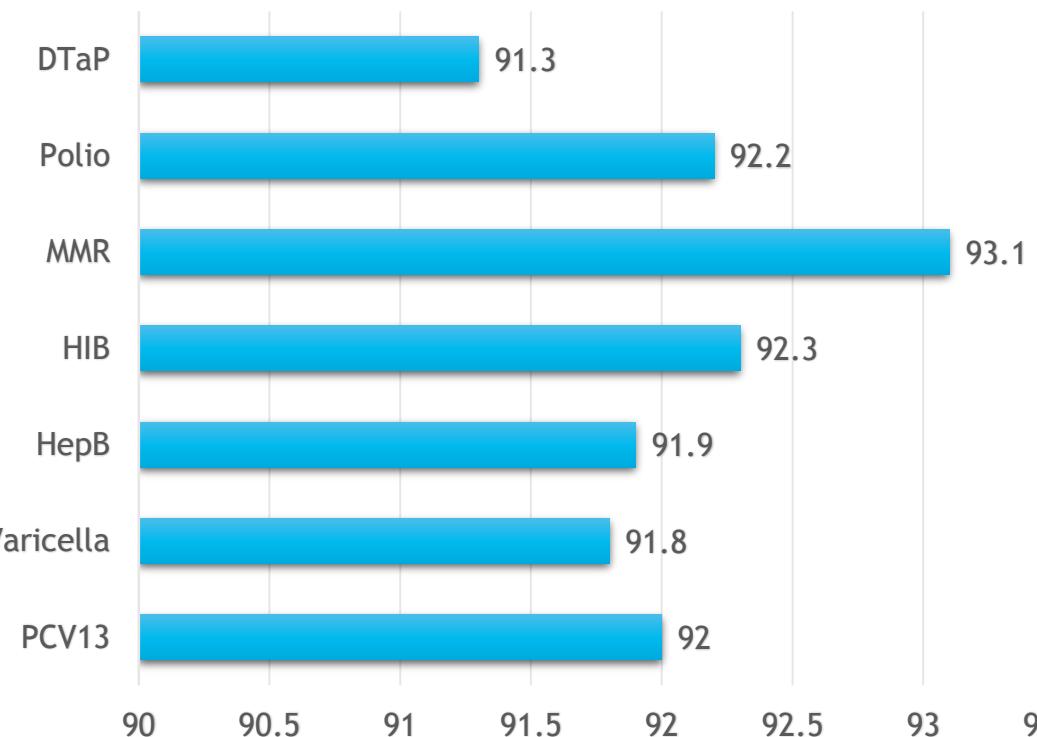
2017-2018 Schools

% Up-To-Date



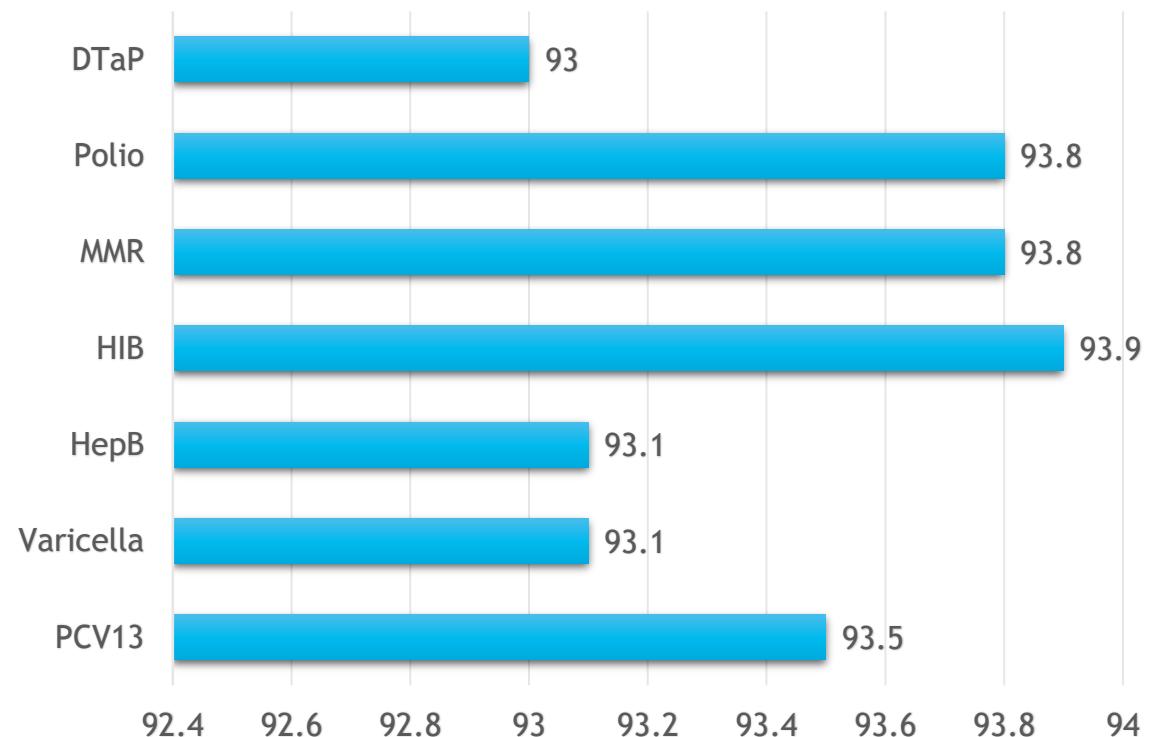
2016-2017 Child Cares

% Up-To-Date

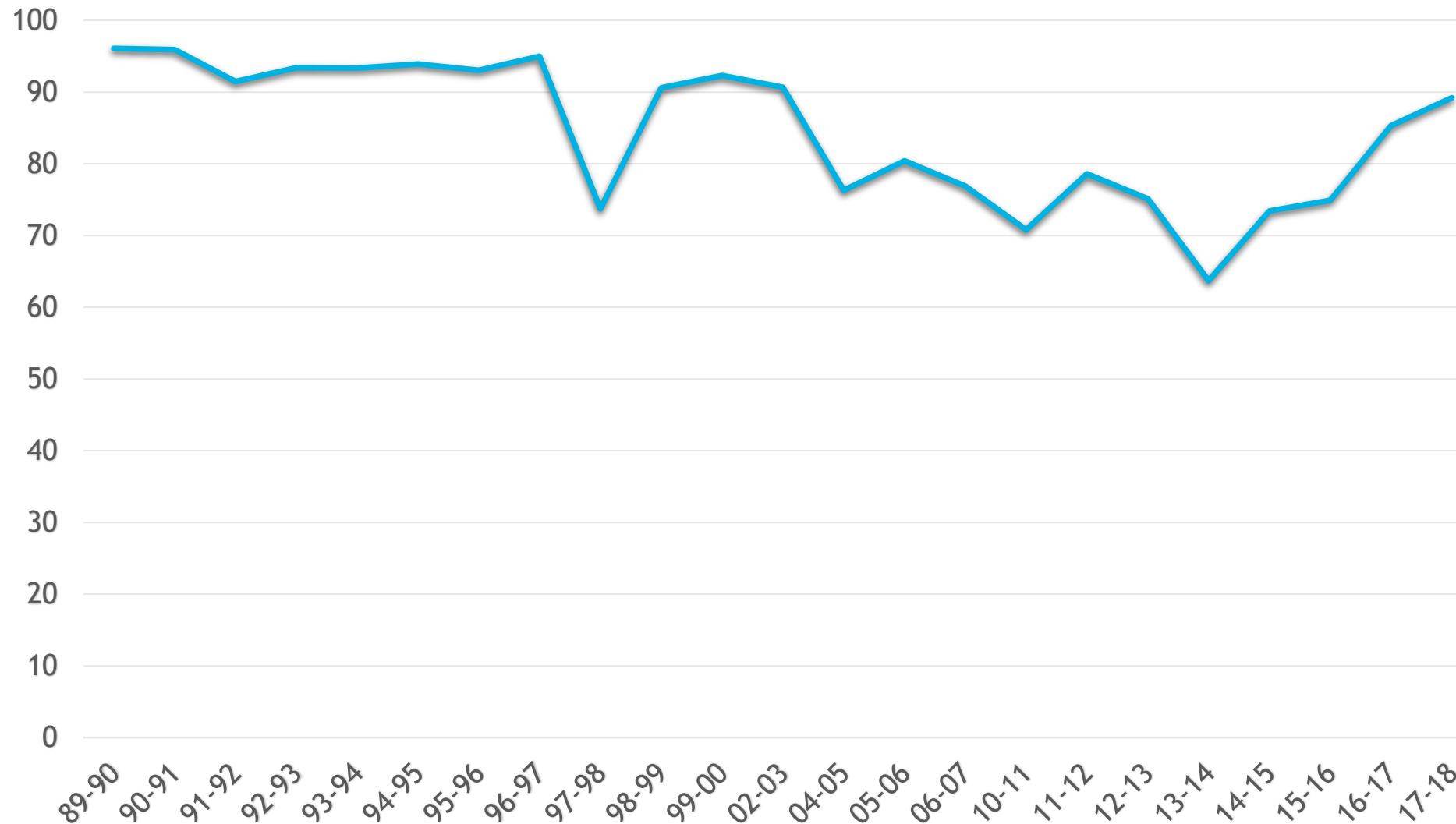


2017-2018 Child Cares

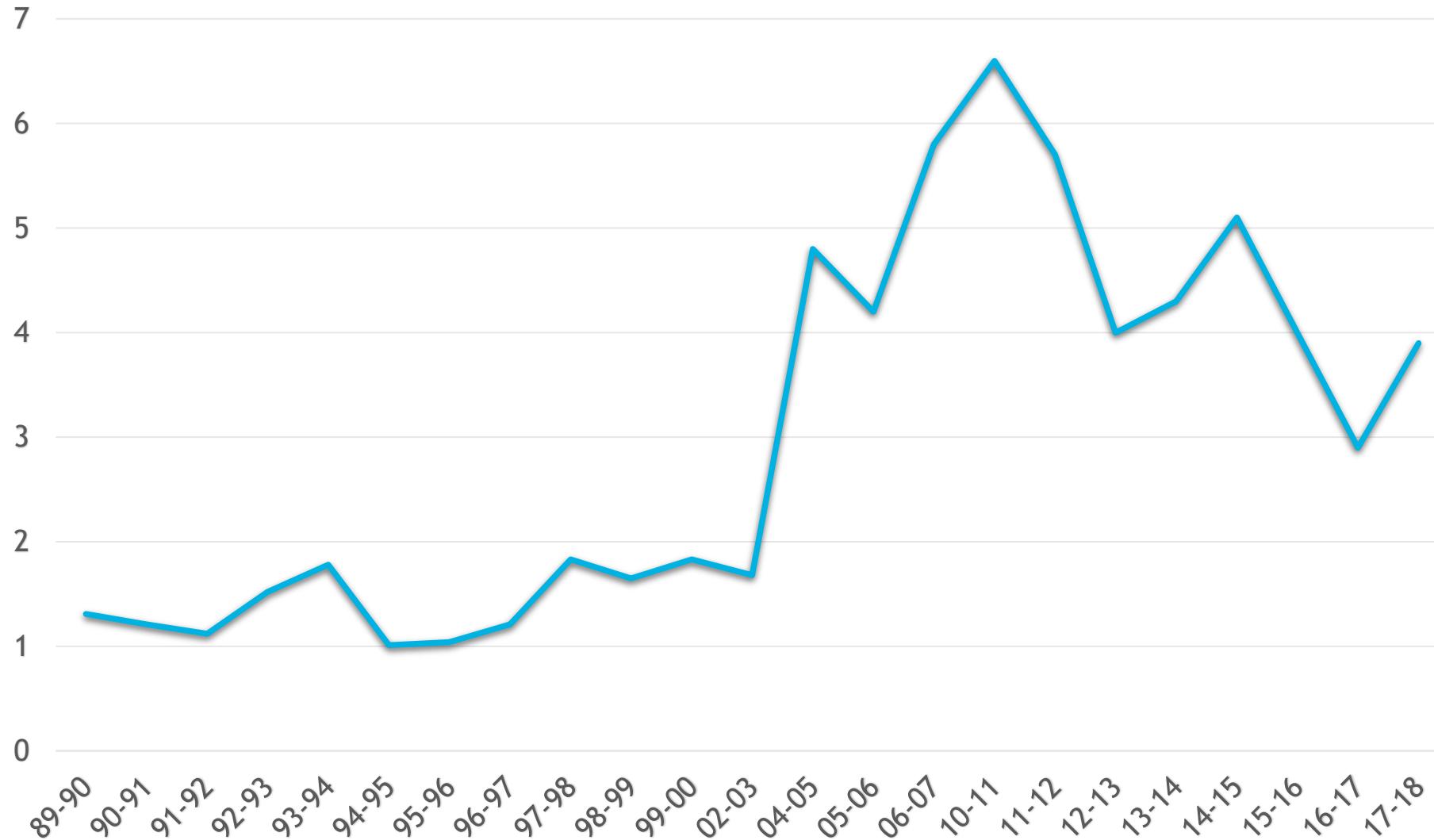
% Up-To-Date



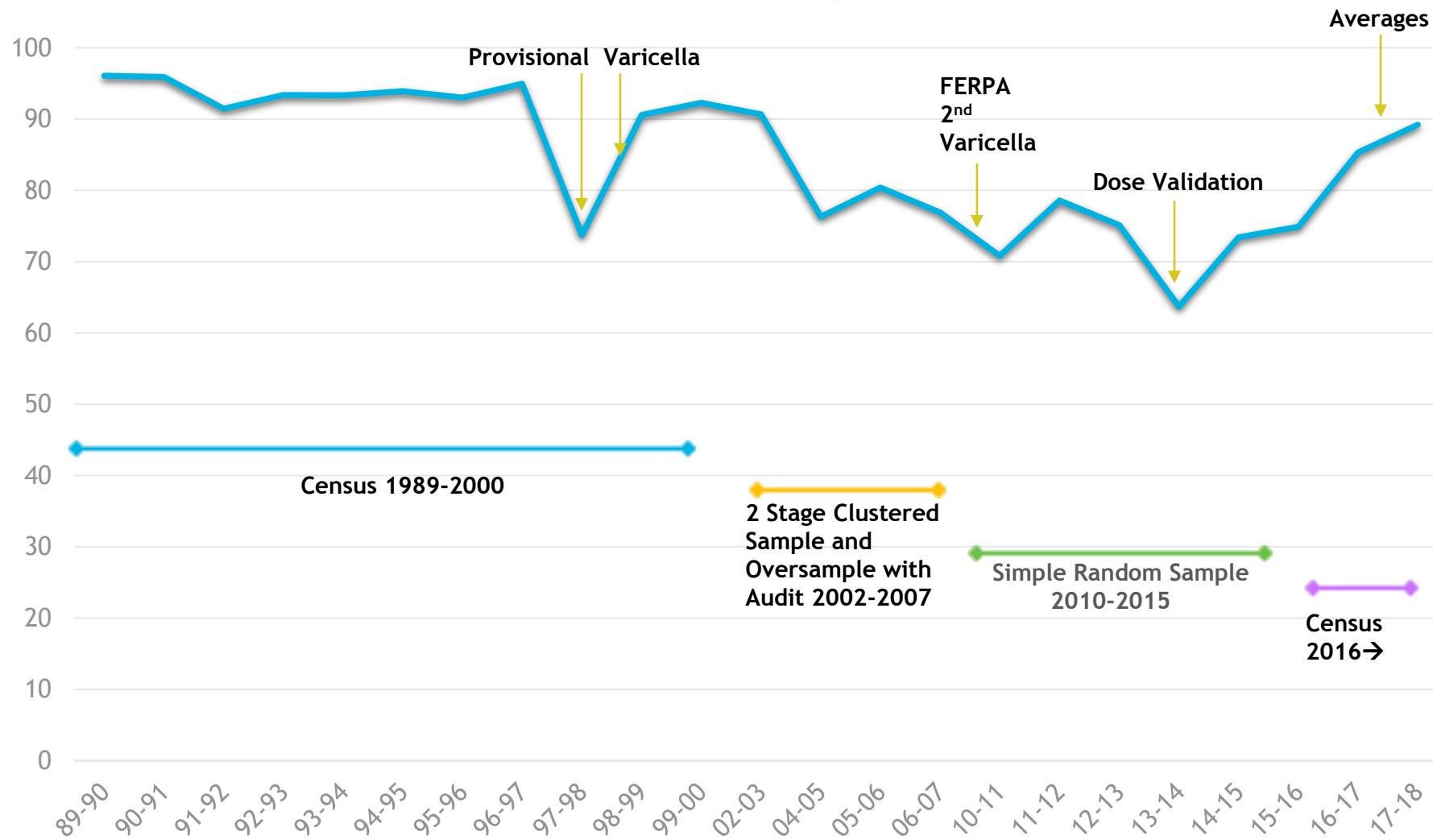
% Kindergartners Up-To-Date



% Kindergartners with Personal Exemption



% Kindergartners Up-To-Date



Sharing of data...

[For parents/guardians](#)

[For community partners](#)

[Custom reports and data download](#)

THANK YOU!

Feel free to reach out to me at

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or

cdphe_informaticsimmunization@state.co.us

303-692-2759