

SUPPLEMENTARY TABLE. Kindergarten population,* number and percent surveyed, and estimated number and percentage[†] of children with an exemption by type of exemption[§] from vaccination among kindergartners, by jurisdiction[¶] — United States, 2023–24 school year**

Jurisdiction	Kindergarten population	No. (%) surveyed for coverage	No. (%) surveyed for exemptions	No. (%) surveyed for grace period/provisional enrollment ^{††}	Type of survey conducted ^{§§}	Local data available online ^{¶¶}	Medical exemptions (%)	Nonmedical exemptions		
								No. religious	No. philosophic	(%)
National Estimate***	3,823,472	3,559,990 (93.1)	3,709,432 (97.0)	2,748,251 (71.9)	--	--	0.2	--	--	3.1
Median***	--	--	--	--	--	--	0.2	--	--	3.7
U.S. jurisdictions										
Alabama^{†††}	54,565	54,565 (100.0)	54,565 (100.0)	NP	Census	No	0.1	1,144	§§§	2.1
Alaska^{¶¶¶}	8,644	7,686 (88.9)	7,686 (88.9)	NR	Vol. response (pub), NC (pvt)	No	0.3	794	§§§	9.2
Arizona	74,834	74,535 (99.6)	74,535 (99.6)	NR	Census	Yes	0.4	****	6,078	8.1
Arkansas	37,535	35,798 (95.4)	35,798 (95.4)	35,798 (95.4)	Census (pub), vol. response (pvt)	No	<0.1	756	533	3.4
California^{†††}	569,680	569,680 (100.0)	569,680 (100.0)	569,680 (100.0)	Census	Yes	0.1	****	§§§	§§§,****
Colorado^{†††}	61,662	61,662 (100.0)	61,662 (100.0)	61,662 (100.0)	Census	Yes	≥0.2	++++	++++	≥4.0
Connecticut^{†††}	36,184	36,184 (100.0)	36,184 (100.0)	36,184 (100.0)	Census	Yes	0.4	51	§§§	0.1
Delaware	11,043	1,274 (11.5)	1,274 (11.5)	1,274 (11.5)	Stratified 2-stg cluster sample	No	0.1	267	§§§	2.4
District of Columbia^{†††, §§§}	7,874	7,874 (100.0)	7,874 (100.0)	NR	Census	No	0.2	166	§§§	2.1
Florida^{†††}	228,213	228,213 (100.0)	228,213 (100.0)	228,213 (100.0)	Census	No	0.3	10,302	§§§	4.5
Georgia^{†††}	136,943	136,943 (100.0)	136,943 (100.0)	136,943 (100.0)	Census	No	0.1	4,826	§§§	3.5
Hawaii	13,995	1,142 (8.2)	1,142 (8.2)	1,142 (8.2)	Stratified 2-stg cluster sample	Yes	<0.1	745	§§§	5.3
Idaho^{†††}	22,376	22,376 (100.0)	22,376 (100.0)	22,376 (100.0)	Census	No	0.4	++++	++++	13.9
Illinois^{†††}	133,578	133,578 (100.0)	133,578 (100.0)	NR	Census	No	≥0.3	3,041	§§§	≥2.3
Indiana^{§§§§}	80,639	71,329 (88.5)	71,329 (88.5)	NR	Census (pub), vol. response (pvt)	Yes	0.1	1,899	§§§	2.4
Iowa^{†††}	38,611	38,611 (100.0)	38,611 (100.0)	38,611 (100.0)	Census	Yes	0.2	1,243	§§§	3.2
Kansas^{§§§§}	34,178	12,674 (37.1)	28,678 (83.9)	NR	Stratified 1-stg cluster sample	Yes	0.3	937	§§§	2.7

Kentucky ⁺⁺⁺ , ^{§§§§}	52,609	52,609 (100.0)	52,609 (100.0)	NP	Census	Yes	0.2	1,073	^{§§§}	2.0
Louisiana ⁺⁺⁺	51,839	51,839 (100.0)	51,839 (100.0)	NR	Census	Yes	0.1	74	1,332	2.7
Maine	12,087	11,236 (93.0)	11,236 (93.0)	11,236 (93.0)	Census	Yes	0.9	0	7	0.1
Maryland ^{¶¶¶¶¶}	63,224	63,224 (100.0)	63,224 (100.0)	NR	Census	Yes	0.7	942	^{§§§}	1.5
Massachusetts ⁺⁺⁺	65,424	65,424 (100.0)	65,424 (100.0)	NP	Census	Yes	0.2	813	^{§§§}	1.2
Michigan ⁺⁺⁺	110,156	110,156 (100.0)	110,156 (100.0)	110,156 (100.0)	Census	Yes	0.2	2,515	3,407	5.4
Minnesota	66,032	65,461 (99.1)	65,461 (99.1)	NR	Census	Yes	≥0.2	⁺⁺⁺⁺	⁺⁺⁺⁺	≥5.2
Mississippi ⁺⁺⁺	36,105	36,105 (100.0)	36,105 (100.0)	36,105 (100.0)	Census	Yes	0.1	186	^{§§§}	0.5
Missouri ⁺⁺⁺	69,014	69,014 (100.0)	69,014 (100.0)	NR	Census	Yes	≥0.2	3,094	^{§§§}	≥4.5
Montana	NR	NR	NR	NR	NC	No	NR	NR	NR	NR
Nebraska ⁺⁺⁺	23,118	23,118 (100.0)	23,118 (100.0)	23,118 (100.0)	Census	No	≥0.7	658	^{§§§}	2.8
Nevada	31,261	28,556 (91.3)	28,556 (91.3)	28,556 (91.3)	Census	No	0.4	1,942	^{§§§}	6.2
New Hampshire ⁺⁺⁺ , ^{§§§§}	11,871	11,871 (100.0)	11,871 (100.0)	11,871 (100.0)	Census	Yes	0.3	458	^{§§§}	3.9
New Jersey ⁺⁺⁺ , ^{§§§§}	105,408	105,408 (100.0)	105,408 (100.0)	105,408 (100.0)	Census	Yes	0.1	3,929	^{§§§}	3.7
New Mexico ⁺⁺⁺	20,699	20,699 (100.0)	20,699 (100.0)	20,699 (100.0)	Census	No	0.1	300	^{§§§}	1.4
New York (including New York City)	200,894	198,466 (98.8)	198,466 (98.8)	198,466 (98.8)	Census	Yes	0.1	****	^{§§§}	^{§§§,****}
New York City	85,360	84,734 (99.3)	84,734 (99.3)	84,734 (99.3)	Census	No	0.1	****	^{§§§}	^{§§§,****}
North Carolina ^{§§§§}	125,964	114,410 (90.8)	114,410 (90.8)	114,410 (90.8)	Census (pub), vol. response (pvt)	No	0.1	3,466	^{§§§}	2.8
North Dakota	9,674	9,465 (97.8)	9,465 (97.8)	NR	Census	Yes	0.2	157	443	6.2
Ohio	133,716	125,732 (94.0)	125,732 (94.0)	125,732 (94.0)	Census (pub), vol. response (pvt)	No	0.2	⁺⁺⁺⁺	⁺⁺⁺⁺	4.0
Oklahoma ^{¶¶¶¶}	49,979	46,878 (93.8)	46,878 (93.8)	NR	Census (pub), vol. response (pvt)	Yes	0.2	1,077	1,691	5.5
Oregon ⁺⁺⁺	39,568	39,568 (100.0)	39,568 (100.0)	NR	Census	Yes	0.1	⁺⁺⁺⁺	⁺⁺⁺⁺	8.8
Pennsylvania	137,593	132,741 (96.5)	132,741 (96.5)	132,741 (96.5)	Census (pub pvt), vol. response (hmsch)	Yes	0.3	3,028	2,303	3.9
Rhode Island ^{§§§§}	10,539	10,308 (97.8)	10,308 (97.8)	10,308 (97.8)	Census	Yes	0.1	159	^{§§§}	1.5

South Carolina	58,069	15,523 (26.7)	58,069 (100.0)	58,069 (100.0)	1-stg cluster sample	Yes	0.2	2,448	§§§	4.2
South Dakota ^{§§§§}	11,744	11,725 (99.8)	11,725 (99.8)	NR	Census	Yes	0.2	637	§§§	5.4
Tennessee ^{§§§§}	79,323	75,992 (95.8)	75,992 (95.8)	75,992 (95.8)	Census	Yes	0.1	2,722	§§§	3.4
Texas (including Houston) ^{§§§§}	381,421	352,276 (92.4)	352,276 (92.4)	352,276 (92.4)	Census (pub), vol. response (pvt)	Yes	0.2	****	****	3.6
Houston ^{§§§§}	37,882	25,646 (67.7)	25,646 (67.7)	25,646 (67.7)	Vol. response (pub, pvt)	Yes	0.2	****	****	2.4
Utah ⁺⁺⁺	46,228	46,228 (100.0)	46,228 (100.0)	46,228 (100.0)	Census	Yes	0.2	561	3,657	9.1
Vermont ⁺⁺⁺	5,630	5,630 (100.0)	5,630 (100.0)	5,630 (100.0)	Census	Yes	0.2	216	§§§	3.8
Virginia ⁺⁺⁺	92,633	1,714 (1.9)	92,606 (100.0)	NR	Stratified 2-stg cluster sample	Yes	0.3	1,930	§§§	2.1
Washington ^{****}	84,053	81,693 (97.2)	81,693 (97.2)	81,693 (97.2)	Census	Yes	0.4	3,276	1,488	≥3.9
West Virginia ^{§§§§}	18,261	15,123 (82.8)	15,123 (82.8)	NR	Vol. response (pub, pvt)	Yes	<0.1	****	§§§	§§§,****
Wisconsin ^{§§§§}	62,028	60,920 (98.2)	60,920 (98.2)	60,920 (98.2)	Census	Yes	0.4	897	3,833	7.6
Wyoming ⁺⁺⁺ , ¶¶¶¶¶	6,754	6,754 (100.0)	6,754 (100.0)	6,754 (100.0)	Census	Yes	0.2	364	§§§	5.4
Territories and Associated States										
American Samoa ⁺⁺⁺	758	758 (100.0)	758 (100.0)	NR	Census	No	0.0	****	§§§	§§§,****
Federated States of Micronesia ⁺⁺⁺	1,578	1,578 (100.0)	1,578 (100.0)	NR	Census	No	0.0	****	§§§	§§§,****
Guam ^{§§§§}	1,936	1,894 (97.8)	1,894 (97.8)	NR	Census	No	<0.1	3	§§§	0.2
Marshall Islands ⁺⁺⁺	947	947 (100.0)	947 (100.0)	NR	Census	No	NR	****	§§§	§§§,****
N. Mariana Islands ⁺⁺⁺	665	665 (100.0)	665 (100.0)	NR	Census	No	0.0	1	§§§	0.2
Palau ⁺⁺⁺	187	187 (100.0)	187 (100.0)	NR	Census	No	0.0	0	§§§	0.0
Puerto Rico	20,967	1,842 (8.8)	1,842 (8.8)	NR	2-stg stratified sample	No	0.4	522	§§§	2.5
U.S. Virgin Islands	977	955 (97.7)	955 (97.7)	NR	Census	No	<0.1	47	§§§	4.8

Abbreviations: hmsch = homeschooled; NA = not available; NC = not conducted; NR = not reported to CDC; NP = State does not allow grace period or provisional enrollment, NYC = New York City; pub = public; pvt = private; stg = stage.

*The kindergarten population is an approximation provided by each jurisdiction.

†Estimates are adjusted for nonresponse and weighted for sampling where appropriate.

[§]Some jurisdictions did not report the number of children with exemptions, but instead reported the number of exemptions for each vaccine, which could count some children more than once. Lower bounds of the percentage of children with any exemptions were estimated using the individual vaccines with the highest number of exemptions. Washington was unable to deduplicate students with both religious and philosophical exemptions. The lower bound of the percentage of children with a nonmedical exemption was estimated using the individual exemption type with the higher number of exemptions. Estimates based on the lower bound of exemptions use the “≥” symbol.

[¶] Medical exemptions, nonmedical exemptions, and grace period/provisional enrollment status might not be mutually exclusive. Some children might have both medical and nonmedical exemptions, and some enrolled under a grace period/provisional enrollment might be exempt from one or more vaccinations.

**Includes five territories and three freely associated states.

^{††}A grace period is a set number of days during which a student can be enrolled and attend school without proof of complete vaccination or exemption. Provisional enrollment allows a student without complete vaccination or exemption to attend school while completing a catch-up vaccination schedule. In states with one or both of these policies, the estimates represent the number of kindergartners within a grace period, provisionally enrolled, or some combination of these categories.

^{§§}Sample designs varied by state/area: census = program attempted to include all schools (public and private), and all children within schools in the assessment, and had a student response rate of ≥90%; 1-stg or 2-stg cluster sample = schools were randomly selected, and all children in the selected schools were assessed (1-stg) or a random sample of children within the schools was selected (2-stg); voluntary response = a census with a student response rate of <90% (does not imply that participation was optional).

^{¶¶}Some programs publish kindergarten vaccination data online that are more detailed than the state-level estimates in this table. Examples of more detailed data include county, parish, school district, and school-level estimates.

***National estimates and medians calculated from data from 49 states and the District of Columbia (i.e., does not include Montana, American Samoa, Guam, Marshall Islands, Federated States of Micronesia, N. Mariana Islands, Palau, Puerto Rico, or U.S. Virgin Islands). Data from cities were included with their state data.

^{†††}The proportion surveyed is reported as 100% but might be <100% if based on incomplete information about the actual current enrollment.

^{§§§}Philosophical exemptions were not allowed.

^{¶¶¶}Reported public and homeschool school data only.

***Religious exemptions were not allowed.

^{††††}Religious and philosophical exemptions were not reported separately.

^{§§§§}Did not include certain types of schools, such as kindergartens in child care facilities, online schools, correctional facilities, or those located on military bases or tribal lands.

^{¶¶¶¶}The proportion surveyed is reported as 100% but might be <100% if based on incomplete information about the actual current enrollment.

****Washington was unable to deduplicate students with both religious and philosophical exemptions, so the nonmedical exemption type with the highest number of kindergartners (the lower bound of the potential range of nonmedical exemptions) was included in the national and median exemption rates for nonmedical exemptions.