

2005-2006 KINDERGARTEN IMMUNIZATION ASSESSMENT RESULTS  
CALIFORNIA DEPARTMENT OF HEALTH SERVICES, IMMUNIZATION BRANCH

### Introduction

The annual kindergarten immunization assessment is conducted each fall to monitor compliance with the California School Immunization Law. Results from this assessment are used to measure immunization coverage among students entering kindergarten. This report presents results from this year's kindergarten immunization assessment and the attached tables present comparisons of immunization coverage in kindergarten schools by county.

### Methods and Participants

This year's kindergarten immunization assessment was conducted in 8,496 of California's schools with kindergartens. School staff complete assessment reports and return them to local health departments and the Immunization Branch.

### Results and Discussion

Table 1 shows that the results from this fall's kindergarten immunization assessment are similar to previous years. This year 92.8% of the 512,733 students enrolled in reporting kindergartens received all required immunizations (4+ DTP, 3+ Polio, 2+ MMR, 3+ Hep B, and 1+ varicella). There were 6,794 (1.33%) students with personal belief exemptions and 778 (0.15%) students with permanent medical exemptions. Coverage for each vaccine has been higher than 95% and the percent of students meeting the requirement for varicella (one dose of vaccine or physician-documented disease or immunity) has shown improvement, from 95.6% in the 2001-2002 school year to 97.3% in the 2005-2006 school year.

**Table 1: Kindergarten Immunization Assessment, 2001-2002 to -2005-2006 School Year**

	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Number of Schools	8,705	8,646	8,544	8,510	8,496
Number of Students	523,516	519,397	513,519	510,074	512,733
All Required Immunizations	90.9%	92.3%	92.5%	92.9%	92.8%
Conditional Entrants	7.83%	6.45%	6.18%	5.74%	5.70%
Permanent Medical Exemptions	0.14%	0.15%	0.13%	0.15%	0.15%
Personal Belief Exemptions	1.19%	1.11%	1.16%	1.24%	1.33%
DTP 4+	95.3%	95.4%	95.2%	95.2%	95.0%
Polio 3+	95.8%	96.0%	95.6%	95.6%	95.3%
MMR 2+	95.3%	95.7%	95.6%	95.5%	95.3%
Hep B 3+	96.4%	96.9%	96.8%	96.9%	96.9%
Varicella 1+	95.6%	97.0%	97.3%	97.4%	97.3%

### Description of Attached Tables

Enclosed is a full set of tables showing this year's results. Table 2 shows total enrollment and admission status by county. Table 3 shows students adequately immunized for each vaccine by county. Table 4 shows the number of schools reporting by county and type (public or private).

*For further information, please contact Elisha Larez at (510) 620-3746 or [elarez@dhs.ca.gov](mailto:elarez@dhs.ca.gov), or Madina Sharifi at (510) 620-3757 or [msharifi@dhs.ca.gov](mailto:msharifi@dhs.ca.gov) at the California Department of Health Services, Immunization Branch.*

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2005-2006

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TABLE 2: TOTAL ENROLLMENT AND ADMISSION STATUS  
BY COUNTY

	TOTAL STUDENTS	ENTRANTS WITH ALL REQ. IMMUN.		CONDITIONAL ENTRANTS		ENTRANTS WITH PME		ENTRANTS WITH PBE	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	512,733	475,911	92.82%	29,250	5.70%	778	0.15%	6,794	1.33%
COUNTY									
ALAMEDA	17,895	16,603	92.78%	1,130	6.31%	17	0.09%	145	0.81%
ALPINE	17	14	82.35%	2	11.76%	0	0.00%	1	5.88%
AMADOR	318	304	95.60%	3	0.94%	0	0.00%	11	3.46%
BUTTE	2,456	2,263	92.14%	88	3.58%	6	0.24%	99	4.03%
CALAVERAS	454	397	87.44%	31	6.83%	3	0.66%	23	5.07%
COLUSA	367	354	96.46%	8	2.18%	0	0.00%	5	1.36%
CONTRA COSTA	14,338	13,719	95.68%	392	2.73%	38	0.27%	189	1.32%
DEL NORTE	359	340	94.71%	5	1.39%	0	0.00%	14	3.90%
EL DORADO	2,073	1,804	87.02%	179	8.63%	4	0.19%	86	4.15%
FRESNO	15,046	14,453	96.06%	515	3.42%	10	0.07%	68	0.45%
GLENN	445	436	97.98%	7	1.57%	0	0.00%	2	0.45%
HUMBOLDT	1,371	1,126	82.13%	144	10.50%	1	0.07%	100	7.29%
IMPERIAL	2,640	2,539	96.17%	89	3.37%	5	0.19%	7	0.27%
INYO	192	182	94.79%	4	2.08%	0	0.00%	6	3.13%
KERN	13,496	12,591	93.29%	720	5.33%	19	0.14%	166	1.23%
KINGS	2,320	2,231	96.16%	80	3.45%	1	0.04%	8	0.34%
LAKE	750	644	85.87%	71	9.47%	0	0.00%	35	4.67%
LASSEN	394	326	82.74%	47	11.93%	0	0.00%	21	5.33%
LOS ANGELES	138,442	126,482	91.36%	10,706	7.73%	118	0.09%	1,136	0.82%
MADERA	2,285	2,119	92.74%	137	6.00%	2	0.09%	27	1.18%
MARIN	2,870	2,402	83.69%	339	11.81%	8	0.28%	121	4.22%
MARIPOSA	143	118	82.52%	22	15.38%	0	0.00%	3	2.10%
MENDOCINO	1,046	884	84.51%	99	9.46%	0	0.00%	63	6.02%
MERCED	4,500	4,255	94.56%	220	4.89%	1	0.02%	24	0.53%
MODOC	112	103	91.96%	6	5.36%	1	0.89%	2	1.79%
MONO	141	128	90.78%	10	7.09%	0	0.00%	3	2.13%
MONTEREY	5,685	5,388	94.78%	257	4.52%	5	0.09%	35	0.62%
NAPA	1,655	1,573	95.05%	61	3.69%	5	0.30%	16	0.97%
NEVADA	1,024	796	77.73%	109	10.64%	2	0.20%	117	11.43%

TABLE 2: TOTAL ENROLLMENT AND ADMISSION STATUS  
BY COUNTY

	TOTAL STUDENTS	ENTRANTS WITH ALL REQ. IMMUN.		CONDITIONAL ENTRANTS		ENTRANTS WITH PME		ENTRANTS WITH PBE	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	512,733	475,911	92.82%	29,250	5.70%	778	0.15%	6,794	1.33%
COUNTY									
ORANGE	42,607	39,483	92.67%	2,410	5.66%	130	0.31%	584	1.37%
PLACER	4,883	4,437	90.87%	261	5.35%	12	0.25%	173	3.54%
PLUMAS	201	189	94.03%	1	0.50%	0	0.00%	11	5.47%
RIVERSIDE	30,722	29,372	95.61%	1,063	3.46%	43	0.14%	244	0.79%
SACRAMENTO	18,655	16,606	89.02%	1,685	9.03%	46	0.25%	318	1.70%
SAN BENITO	938	903	96.27%	22	2.35%	1	0.11%	12	1.28%
SAN BERNARDINO	31,789	30,261	95.19%	1,180	3.71%	39	0.12%	309	0.97%
SAN DIEGO	40,125	37,762	94.11%	1,583	3.95%	57	0.14%	723	1.80%
SAN FRANCISCO	6,234	5,662	90.82%	502	8.05%	5	0.08%	65	1.04%
SAN JOAQUIN	11,021	10,558	95.80%	379	3.44%	17	0.15%	67	0.61%
SAN LUIS OBISPO	2,458	2,252	91.62%	100	4.07%	6	0.24%	100	4.07%
SAN MATEO	8,705	8,108	93.14%	501	5.76%	7	0.08%	89	1.02%
SANTA BARBARA	5,605	5,223	93.18%	217	3.87%	15	0.27%	150	2.68%
SANTA CLARA	24,236	22,997	94.89%	958	3.95%	56	0.23%	225	0.93%
SANTA CRUZ	3,303	2,824	85.50%	243	7.36%	13	0.39%	223	6.75%
SHASTA	2,096	1,901	90.70%	116	5.53%	8	0.38%	71	3.39%
SIERRA	41	36	87.80%	3	7.32%	0	0.00%	2	4.88%
SISKIYOU	449	376	83.74%	23	5.12%	1	0.22%	49	10.91%
SOLANO	5,412	5,029	92.92%	328	6.06%	14	0.26%	41	0.76%
SONOMA	5,805	5,177	89.18%	393	6.77%	9	0.16%	226	3.89%
STANISLAUS	8,319	7,896	94.92%	255	3.07%	16	0.19%	152	1.83%
SUTTER	1,436	1,353	94.22%	68	4.74%	1	0.07%	14	0.97%
TEHAMA	883	804	91.05%	43	4.87%	1	0.11%	35	3.96%
TRINITY	121	99	81.82%	7	5.79%	1	0.83%	14	11.57%
TULARE	8,052	7,806	96.94%	196	2.43%	5	0.06%	45	0.56%
TUOLUMNE	492	417	84.76%	46	9.35%	0	0.00%	29	5.89%
VENTURA	11,793	10,518	89.19%	1,015	8.61%	22	0.19%	238	2.02%
YOLO	2,333	2,242	96.10%	56	2.40%	6	0.26%	29	1.24%
YUBA	1,185	1,046	88.27%	115	9.70%	1	0.08%	23	1.94%

TABLE 3: STUDENTS ADEQUATELY IMMUNIZED  
BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 1		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	512,733	486,818	94.95%	488,496	95.27%	501,019	97.72%	488,592	95.29%	496,944	96.92%	498,972	97.32%
COUNTY													
ALAMEDA	17,895	17,009	95.05%	17,064	95.36%	17,548	98.06%	17,049	95.27%	17,392	97.19%	17,469	97.62%
ALPINE	17	15	88.24%	15	88.24%	16	94.12%	15	88.24%	15	88.24%	15	88.24%
AMADOR	318	305	95.91%	305	95.91%	307	96.54%	307	96.54%	305	95.91%	307	96.54%
BUTTE	2,456	2,280	92.83%	2,291	93.28%	2,334	95.03%	2,295	93.44%	2,319	94.42%	2,330	94.87%
CALAVERAS	454	409	90.09%	407	89.65%	420	92.51%	412	90.75%	417	91.85%	417	91.85%
COLUSA	367	359	97.82%	360	98.09%	362	98.64%	360	98.09%	360	98.09%	360	98.09%
CONTRA COSTA	14,338	13,849	96.59%	13,885	96.84%	14,066	98.10%	13,881	96.81%	14,005	97.68%	14,041	97.93%
DEL NORTE	359	341	94.99%	342	95.26%	344	95.82%	343	95.54%	344	95.82%	344	95.82%
EL DORADO	2,073	1,838	88.66%	1,846	89.05%	1,958	94.45%	1,846	89.05%	1,939	93.54%	1,940	93.58%
FRESNO	15,046	14,611	97.11%	14,687	97.61%	14,917	99.14%	14,768	98.15%	14,808	98.42%	14,894	98.99%
GLENN	445	438	98.43%	439	98.65%	442	99.33%	439	98.65%	441	99.10%	441	99.10%
HUMBOLDT	1,371	1,170	85.34%	1,178	85.92%	1,242	90.59%	1,176	85.78%	1,230	89.72%	1,199	87.45%
IMPERIAL	2,640	2,590	98.11%	2,602	98.56%	2,628	99.55%	2,576	97.58%	2,617	99.13%	2,608	98.79%
INYO	192	185	96.35%	185	96.35%	186	96.88%	183	95.31%	185	96.35%	184	95.83%
KERN	13,496	12,893	95.53%	12,909	95.65%	13,236	98.07%	12,883	95.46%	13,099	97.06%	13,134	97.32%
KINGS	2,320	2,267	97.72%	2,275	98.06%	2,305	99.35%	2,271	97.89%	2,286	98.53%	2,300	99.14%
LAKE	750	669	89.20%	679	90.53%	709	94.53%	671	89.47%	696	92.80%	692	92.27%
LASSEN	394	345	87.56%	343	87.06%	365	92.64%	343	87.06%	365	92.64%	359	91.12%
LOS ANGELES	138,442	130,784	94.47%	131,461	94.96%	135,355	97.77%	131,668	95.11%	134,050	96.83%	134,844	97.40%
MADERA	2,285	2,137	93.52%	2,151	94.14%	2,224	97.33%	2,163	94.66%	2,210	96.72%	2,215	96.94%
MARIN	2,870	2,582	89.97%	2,588	90.17%	2,699	94.04%	2,578	89.83%	2,675	93.21%	2,687	93.62%
MARIPOSA	143	124	86.71%	125	87.41%	137	95.80%	125	87.41%	132	92.31%	134	93.71%
MENDOCINO	1,046	906	86.62%	912	87.19%	963	92.07%	907	86.71%	953	91.11%	957	91.49%
MERCED	4,500	4,310	95.78%	4,338	96.40%	4,462	99.16%	4,343	96.51%	4,431	98.47%	4,450	98.89%
MODOC	112	104	92.86%	106	94.64%	109	97.32%	105	93.75%	108	96.43%	109	97.32%
MONO	141	131	92.91%	130	92.20%	133	94.33%	130	92.20%	133	94.33%	136	96.45%
MONTEREY	5,685	5,460	96.04%	5,475	96.31%	5,614	98.75%	5,497	96.69%	5,580	98.15%	5,604	98.58%
NAPA	1,655	1,603	96.86%	1,604	96.92%	1,627	98.31%	1,595	96.37%	1,613	97.46%	1,623	98.07%
NEVADA	1,024	831	81.15%	828	80.86%	876	85.55%	834	81.45%	855	83.50%	849	82.91%

TABLE 3: STUDENTS ADEQUATELY IMMUNIZED  
BY COUNTY

	TOTAL STUDENTS	DTP 4+		POLIO 3+		MMR 1		MMR 2		HEP B 3+		VAR 1+	
	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	512,733	486,818	94.95%	488,496	95.27%	501,019	97.72%	488,592	95.29%	496,944	96.92%	498,972	97.32%
COUNTY													
ORANGE	42,607	40,435	94.90%	40,415	94.86%	41,637	97.72%	40,351	94.71%	41,361	97.08%	41,530	97.47%
PLACER	4,883	4,532	92.81%	4,543	93.04%	4,650	95.23%	4,542	93.02%	4,604	94.29%	4,603	94.27%
PLUMAS	201	189	94.03%	189	94.03%	190	94.53%	190	94.53%	189	94.03%	189	94.03%
RIVERSIDE	30,722	29,881	97.26%	29,968	97.55%	30,364	98.83%	29,909	97.35%	30,090	97.94%	30,308	98.65%
SACRAMENTO	18,655	17,070	91.50%	17,205	92.23%	18,135	97.21%	17,194	92.17%	17,842	95.64%	17,901	95.96%
SAN BENITO	938	908	96.80%	914	97.44%	923	98.40%	911	97.12%	921	98.19%	921	98.19%
SAN BERNARDINO	31,789	30,686	96.53%	30,785	96.84%	31,289	98.43%	30,767	96.79%	31,067	97.73%	31,197	98.14%
SAN DIEGO	40,125	38,191	95.18%	38,285	95.41%	39,208	97.71%	38,318	95.50%	38,981	97.15%	39,106	97.46%
SAN FRANCISCO	6,234	5,847	93.79%	5,853	93.89%	5,975	95.85%	5,928	95.09%	5,936	95.22%	5,965	95.68%
SAN JOAQUIN	11,021	10,670	96.82%	10,719	97.26%	10,853	98.48%	10,708	97.16%	10,796	97.96%	10,831	98.28%
SAN LUIS OBISPO	2,458	2,284	92.92%	2,285	92.96%	2,333	94.91%	2,298	93.49%	2,324	94.55%	2,329	94.75%
SAN MATEO	8,705	8,302	95.37%	8,309	95.45%	8,563	98.37%	8,279	95.11%	8,505	97.70%	8,539	98.09%
SANTA BARBARA	5,605	5,294	94.45%	5,308	94.70%	5,415	96.61%	5,303	94.61%	5,376	95.91%	5,403	96.40%
SANTA CLARA	24,236	23,367	96.41%	23,437	96.70%	23,850	98.41%	23,446	96.74%	23,692	97.76%	23,796	98.18%
SANTA CRUZ	3,303	2,925	88.56%	2,915	88.25%	3,031	91.77%	2,919	88.37%	3,007	91.04%	3,021	91.46%
SHASTA	2,096	1,923	91.75%	1,924	91.79%	1,979	94.42%	1,948	92.94%	1,986	94.75%	1,981	94.51%
SIERRA	41	37	90.24%	37	90.24%	39	95.12%	37	90.24%	39	95.12%	38	92.68%
SISKIYOU	449	380	84.63%	384	85.52%	397	88.42%	383	85.30%	396	88.20%	393	87.53%
SOLANO	5,412	5,164	95.42%	5,157	95.29%	5,330	98.48%	5,157	95.29%	5,300	97.93%	5,313	98.17%
SONOMA	5,805	5,319	91.63%	5,307	91.42%	5,492	94.61%	5,279	90.94%	5,447	93.83%	5,436	93.64%
STANISLAUS	8,319	7,973	95.84%	8,000	96.17%	8,131	97.74%	7,999	96.15%	8,095	97.31%	8,115	97.55%
SUTTER	1,436	1,383	96.31%	1,388	96.66%	1,415	98.54%	1,371	95.47%	1,402	97.63%	1,406	97.91%
TEHAMA	883	832	94.22%	836	94.68%	846	95.81%	820	92.87%	832	94.22%	844	95.58%
TRINITY	121	100	82.64%	102	84.30%	106	87.60%	101	83.47%	105	86.78%	103	85.12%
TULARE	8,052	7,869	97.73%	7,897	98.08%	7,993	99.27%	7,894	98.04%	7,947	98.70%	7,989	99.22%
TUOLUMNE	492	434	88.21%	432	87.80%	459	93.29%	430	87.40%	451	91.67%	449	91.26%
VENTURA	11,793	10,943	92.79%	11,025	93.49%	11,402	96.68%	11,002	93.29%	11,297	95.79%	11,203	95.00%
YOLO	2,333	2,269	97.26%	2,265	97.09%	2,290	98.16%	2,264	97.04%	2,269	97.26%	2,287	98.03%
YUBA	1,185	1,066	89.96%	1,082	91.31%	1,140	96.20%	1,081	91.22%	1,124	94.85%	1,134	95.70%

TABLE 4: NUMBER OF SCHOOLS REPORTING  
BY COUNTY AND TYPE

	TOTAL NUMBER OF SCHOOLS	SCHOOL TYPE			
		PUBLIC		PRIVATE	
		NUMBER OF SCHOOLS	PERCENT OF TOTAL	NUMBER OF SCHOOLS	PERCENT OF TOTAL
STATE TOTAL	8,496	5,646	66.45%	2,850	33.55%
COUNTY					
ALAMEDA	324	211	65.12%	113	34.88%
ALPINE	2	2	100.00%	0	0.00%
AMADOR	10	8	80.00%	2	20.00%
BUTTE	62	49	79.03%	13	20.97%
CALAVERAS	12	11	91.67%	1	8.33%
COLUSA	7	6	85.71%	1	14.29%
CONTRA COSTA	238	153	64.29%	85	35.71%
DEL NORTE	11	9	81.82%	2	18.18%
EL DORADO	44	33	75.00%	11	25.00%
FRESNO	218	182	83.49%	36	16.51%
GLENN	12	10	83.33%	2	16.67%
HUMBOLDT	59	51	86.44%	8	13.56%
IMPERIAL	46	36	78.26%	10	21.74%
INYO	8	7	87.50%	1	12.50%
KERN	183	143	78.14%	40	21.86%
KINGS	37	29	78.38%	8	21.62%
LAKE	18	14	77.78%	4	22.22%
LASSEN	15	13	86.67%	2	13.33%
LOS ANGELES	2,186	1,240	56.72%	946	43.28%
MADERA	37	35	94.59%	2	5.41%
MARIN	73	42	57.53%	31	42.47%
MARIPOSA	7	7	100.00%	0	0.00%
MENDOCINO	34	28	82.35%	6	17.65%
MERCED	65	51	78.46%	14	21.54%
MODOC	6	6	100.00%	0	0.00%
MONO	7	6	85.71%	1	14.29%
MONTEREY	83	69	83.13%	14	16.87%
NAPA	44	29	65.91%	15	34.09%
NEVADA	35	28	80.00%	7	20.00%

TABLE 4: NUMBER OF SCHOOLS REPORTING  
BY COUNTY AND TYPE

	TOTAL NUMBER OF SCHOOLS	SCHOOL TYPE			
		PUBLIC		PRIVATE	
		NUMBER OF SCHOOLS	PERCENT OF TOTAL	NUMBER OF SCHOOLS	PERCENT OF TOTAL
STATE TOTAL	8,496	5,646	66.45%	2,850	33.55%
COUNTY					
ORANGE	683	396	57.98%	287	42.02%
PLACER	82	61	74.39%	21	25.61%
PLUMAS	7	5	71.43%	2	28.57%
RIVERSIDE	408	273	66.91%	135	33.09%
SACRAMENTO	323	232	71.83%	91	28.17%
SAN BENITO	18	15	83.33%	3	16.67%
SAN BERNARDINO	442	311	70.36%	131	29.64%
SAN DIEGO	652	432	66.26%	220	33.74%
SAN FRANCISCO	142	74	52.11%	68	47.89%
SAN JOAQUIN	175	136	77.71%	39	22.29%
SAN LUIS OBISPO	61	44	72.13%	17	27.87%
SAN MATEO	176	106	60.23%	70	39.77%
SANTA BARBARA	103	75	72.82%	28	27.18%
SANTA CLARA	376	240	63.83%	136	36.17%
SANTA CRUZ	63	43	68.25%	20	31.75%
SHASTA	62	48	77.42%	14	22.58%
SIERRA	3	3	100.00%	0	0.00%
SISKIYOU	27	25	92.59%	2	7.41%
SOLANO	82	57	69.51%	25	30.49%
SONOMA	132	97	73.48%	35	26.52%
STANISLAUS	124	101	81.45%	23	18.55%
SUTTER	37	30	81.08%	7	18.92%
TEHAMA	24	21	87.50%	3	12.50%
TRINITY	11	11	100.00%	0	0.00%
TULARE	108	96	88.89%	12	11.11%
TUOLUMNE	17	13	76.47%	4	23.53%
VENTURA	203	136	67.00%	67	33.00%
YOLO	45	34	75.56%	11	24.44%
YUBA	27	23	85.19%	4	14.81%