

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

Introduction

The annual kindergarten 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 assessment and the attached tables present comparisons of immunization coverage in kindergarten schools by county.

Methods and Participants

This year's kindergarten assessment was conducted in 8,481 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 the fall 2006 kindergarten assessment are similar to previous years. This year 92.7% of the 503,160 students enrolled in reporting kindergartens received all required immunizations (4+ DTP, 3+ Polio, 2+ MMR, 3+ Hep B, and 1+ Var or physician-documented varicella disease). There were 827 (0.16%) students with permanent medical exemptions and 7,108 (1.41%) students with personal belief exemptions. Immunization coverage was above 95% for each vaccine.

Table 1: Kindergarten Assessment, 2002-2006

	2002	2003	2004	2005	2006
Number of Schools	8,646	8,544	8,510	8,496	8,481
Number of Students	519,397	513,519	510,074	512,733	503,160
All Required Immunizations	92.3%	92.5%	92.9%	92.8%	92.7%
Conditional Entrants	6.45%	6.18%	5.74%	5.70%	5.74%
Permanent Medical Exemptions	0.15%	0.13%	0.15%	0.15%	0.16%
Personal Belief Exemptions	1.11%	1.16%	1.24%	1.33%	1.41%
4+ DTP	96.2%	96.5%	96.6%	96.4%	96.3%
3+ Polio	97.2%	96.9%	97.0%	96.8%	96.6%
1+ MMR	97.0%	96.8%	96.9%	96.8%	96.5%
3+ Hep B	98.1%	98.1%	98.3%	98.4%	98.4%
1+ Var (or physician-documented disease)	98.3%	98.6%	98.8%	98.8%	98.8%

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, or Madina Sharifi at (510) 620-3757 or msharifi@dhs.ca.gov at the California Department of Health Services, Immunization Branch.

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2006
 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	503,160	466,363	92.69%	28,862	5.74%	827	0.16%	7,108	1.41%
COUNTY									
ALAMEDA	18,232	16,679	91.48%	1,350	7.40%	29	0.16%	174	0.95%
ALPINE	17	16	94.12%	1	5.88%	0	0.00%	0	0.00%
AMADOR	285	269	94.39%	8	2.81%	0	0.00%	8	2.81%
BUTTE	2,544	2,331	91.63%	121	4.76%	7	0.28%	85	3.34%
CALAVERAS	461	396	85.90%	45	9.76%	2	0.43%	18	3.90%
COLUSA	377	368	97.61%	7	1.86%	0	0.00%	2	0.53%
CONTRA COSTA	13,815	13,094	94.78%	494	3.58%	29	0.21%	198	1.43%
DEL NORTE	356	313	87.92%	20	5.62%	2	0.56%	21	5.90%
EL DORADO	2,146	1,825	85.04%	233	10.86%	9	0.42%	79	3.68%
FRESNO	15,011	14,318	95.38%	587	3.91%	12	0.08%	94	0.63%
GLENN	474	459	96.84%	8	1.69%	1	0.21%	6	1.27%
HUMBOLDT	1,511	1,258	83.26%	138	9.13%	3	0.20%	112	7.41%
IMPERIAL	2,675	2,558	95.63%	109	4.07%	5	0.19%	3	0.11%
INYO	194	175	90.21%	14	7.22%	1	0.52%	4	2.06%
KERN	13,654	12,692	92.95%	775	5.68%	36	0.26%	151	1.11%
KINGS	2,304	2,221	96.40%	74	3.21%	1	0.04%	8	0.35%
LAKE	713	620	86.96%	63	8.84%	3	0.42%	27	3.79%
LASSEN	323	265	82.04%	48	14.86%	2	0.62%	8	2.48%
LOS ANGELES	129,608	117,856	90.93%	10,508	8.11%	142	0.11%	1,102	0.85%
MADERA	2,411	2,214	91.83%	180	7.47%	2	0.08%	15	0.62%
MARIN	3,058	2,658	86.92%	261	8.53%	13	0.43%	126	4.12%
MARIPOSA	164	139	84.76%	21	12.80%	0	0.00%	4	2.44%
MENDOCINO	1,021	846	82.86%	116	11.36%	5	0.49%	54	5.29%
MERCED	4,490	4,302	95.81%	167	3.72%	3	0.07%	18	0.40%
MODOC	125	116	92.80%	2	1.60%	0	0.00%	7	5.60%
MONO	177	175	98.87%	0	0.00%	0	0.00%	2	1.13%
MONTEREY	6,200	5,968	96.26%	177	2.85%	6	0.10%	49	0.79%
NAPA	1,729	1,632	94.39%	70	4.05%	2	0.12%	25	1.45%
NEVADA	891	650	72.95%	111	12.46%	2	0.22%	128	14.37%

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	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	503,160	466,363	92.69%	28,862	5.74%	827	0.16%	7,108	1.41%
COUNTY									
ORANGE	41,337	38,088	92.14%	2,500	6.05%	104	0.25%	645	1.56%
PLACER	4,925	4,409	89.52%	356	7.23%	21	0.43%	139	2.82%
PLUMAS	197	154	78.17%	31	15.74%	0	0.00%	12	6.09%
RIVERSIDE	31,722	30,287	95.48%	1,130	3.56%	54	0.17%	251	0.79%
SACRAMENTO	19,044	17,105	89.82%	1,554	8.16%	18	0.09%	367	1.93%
SAN BENITO	927	889	95.90%	32	3.45%	0	0.00%	6	0.65%
SAN BERNARDINO	31,564	30,173	95.59%	1,009	3.20%	49	0.16%	333	1.05%
SAN DIEGO	39,478	37,113	94.01%	1,494	3.78%	56	0.14%	815	2.06%
SAN FRANCISCO	6,300	5,697	90.43%	525	8.33%	15	0.24%	63	1.00%
SAN JOAQUIN	10,808	10,224	94.60%	506	4.68%	6	0.06%	72	0.67%
SAN LUIS OBISPO	2,609	2,386	91.45%	136	5.21%	9	0.34%	78	2.99%
SAN MATEO	8,515	7,960	93.48%	442	5.19%	20	0.23%	93	1.09%
SANTA BARBARA	5,474	5,144	93.97%	152	2.78%	10	0.18%	168	3.07%
SANTA CLARA	23,793	22,618	95.06%	855	3.59%	51	0.21%	269	1.13%
SANTA CRUZ	3,309	2,872	86.79%	169	5.11%	17	0.51%	251	7.59%
SHASTA	2,195	1,929	87.88%	182	8.29%	9	0.41%	75	3.42%
SIERRA	26	24	92.31%	1	3.85%	0	0.00%	1	3.85%
SISKIYOU	424	318	75.00%	36	8.49%	17	4.01%	53	12.50%
SOLANO	5,279	4,963	94.01%	274	5.19%	3	0.06%	39	0.74%
SONOMA	5,902	5,258	89.09%	355	6.01%	6	0.10%	283	4.79%
STANISLAUS	8,468	8,099	95.64%	214	2.53%	10	0.12%	145	1.71%
SUTTER	1,559	1,482	95.06%	48	3.08%	3	0.19%	26	1.67%
TEHAMA	823	756	91.86%	42	5.10%	2	0.24%	23	2.79%
TRINITY	122	104	85.25%	8	6.56%	1	0.82%	9	7.38%
TULARE	8,024	7,779	96.95%	193	2.41%	7	0.09%	45	0.56%
TUOLUMNE	526	438	83.27%	57	10.84%	3	0.57%	28	5.32%
VENTURA	11,364	10,426	91.75%	701	6.17%	17	0.15%	220	1.94%
YOLO	2,289	2,182	95.33%	61	2.66%	0	0.00%	46	2.01%
YUBA	1,191	1,073	90.09%	91	7.64%	2	0.17%	25	2.10%

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	503,160	484,318	96.26%	485,957	96.58%	499,124	99.20%	485,723	96.53%	495,309	98.44%	497,302	98.84%
COUNTY													
ALAMEDA	18,232	17,365	95.24%	17,403	95.45%	18,007	98.77%	17,457	95.75%	17,788	97.56%	17,877	98.05%
ALPINE	17	16	94.12%	17	100.00%	17	100.00%	17	100.00%	17	100.00%	17	100.00%
AMADOR	285	279	97.89%	284	99.65%	285	100.00%	282	98.95%	283	99.30%	285	100.00%
BUTTE	2,544	2,450	96.31%	2,464	96.86%	2,518	98.98%	2,463	96.82%	2,504	98.43%	2,510	98.66%
CALAVERAS	461	432	93.71%	430	93.28%	452	98.05%	440	95.44%	443	96.10%	446	96.75%
COLUSA	377	373	98.94%	375	99.47%	377	100.00%	375	99.47%	375	99.47%	375	99.47%
CONTRA COSTA	13,815	13,472	97.52%	13,502	97.73%	13,768	99.66%	13,486	97.62%	13,695	99.13%	13,726	99.36%
DEL NORTE	356	343	96.35%	351	98.60%	350	98.31%	350	98.31%	348	97.75%	354	99.44%
EL DORADO	2,146	1,980	92.26%	1,975	92.03%	2,120	98.79%	1,968	91.71%	2,093	97.53%	2,082	97.02%
FRESNO	15,011	14,604	97.29%	14,643	97.55%	14,905	99.29%	14,729	98.12%	14,828	98.78%	14,863	99.01%
GLENN	474	468	98.73%	468	98.73%	473	99.79%	467	98.52%	473	99.79%	472	99.58%
HUMBOLDT	1,511	1,412	93.45%	1,415	93.65%	1,494	98.87%	1,419	93.91%	1,475	97.62%	1,471	97.35%
IMPERIAL	2,675	2,600	97.20%	2,633	98.43%	2,668	99.74%	2,623	98.06%	2,659	99.40%	2,661	99.48%
INYO	194	190	97.94%	191	98.45%	194	100.00%	193	99.48%	183	94.33%	193	99.48%
KERN	13,654	13,139	96.23%	13,187	96.58%	13,490	98.80%	13,180	96.53%	13,376	97.96%	13,453	98.53%
KINGS	2,304	2,250	97.66%	2,260	98.09%	2,299	99.78%	2,262	98.18%	2,281	99.00%	2,296	99.65%
LAKE	713	665	93.27%	674	94.53%	698	97.90%	688	96.49%	687	96.35%	694	97.34%
LASSEN	323	285	88.24%	286	88.54%	321	99.38%	292	90.40%	316	97.83%	313	96.90%
LOS ANGELES	129,608	123,213	95.07%	123,886	95.59%	127,922	98.70%	123,527	95.31%	126,557	97.65%	127,400	98.30%
MADERA	2,411	2,260	93.74%	2,274	94.32%	2,355	97.68%	2,315	96.02%	2,339	97.01%	2,350	97.47%
MARIN	3,058	2,904	94.96%	2,907	95.06%	3,026	98.95%	2,869	93.82%	2,982	97.51%	3,007	98.33%
MARIPOSA	164	154	93.90%	156	95.12%	161	98.17%	146	89.02%	160	97.56%	158	96.34%
MENDOCINO	1,021	935	91.58%	944	92.46%	1,006	98.53%	938	91.87%	992	97.16%	990	96.96%
MERCED	4,490	4,352	96.93%	4,373	97.39%	4,469	99.53%	4,382	97.59%	4,457	99.27%	4,471	99.58%
MODOC	125	124	99.20%	124	99.20%	125	100.00%	124	99.20%	124	99.20%	125	100.00%
MONO	177	177	100.00%	177	100.00%	177	100.00%	177	100.00%	177	100.00%	177	100.00%
MONTEREY	6,200	6,073	97.95%	6,080	98.06%	6,190	99.84%	6,077	98.02%	6,156	99.29%	6,183	99.73%
NAPA	1,729	1,672	96.70%	1,677	96.99%	1,719	99.42%	1,678	97.05%	1,717	99.31%	1,720	99.48%
NEVADA	891	800	89.79%	800	89.79%	861	96.63%	820	92.03%	851	95.51%	841	94.39%

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	503,160	484,318	96.26%	485,957	96.58%	499,124	99.20%	485,723	96.53%	495,309	98.44%	497,302	98.84%
COUNTY													
ORANGE	41,337	39,664	95.95%	39,766	96.20%	41,068	99.35%	39,705	96.05%	40,893	98.93%	40,974	99.12%
PLACER	4,925	4,683	95.09%	4,706	95.55%	4,847	98.42%	4,688	95.19%	4,821	97.89%	4,815	97.77%
PLUMAS	197	175	88.83%	175	88.83%	192	97.46%	176	89.34%	190	96.45%	185	93.91%
RIVERSIDE	31,722	31,072	97.95%	31,118	98.10%	31,624	99.69%	31,145	98.18%	31,404	99.00%	31,581	99.56%
SACRAMENTO	19,044	17,955	94.28%	18,044	94.75%	18,915	99.32%	18,003	94.53%	18,675	98.06%	18,750	98.46%
SAN BENITO	927	902	97.30%	908	97.95%	926	99.89%	906	97.73%	916	98.81%	921	99.35%
SAN BERNARDINO	31,564	30,875	97.82%	31,015	98.26%	31,462	99.68%	31,005	98.23%	31,291	99.14%	31,398	99.47%
SAN DIEGO	39,478	38,436	97.36%	38,458	97.42%	39,353	99.68%	38,455	97.41%	39,164	99.20%	39,262	99.45%
SAN FRANCISCO	6,300	5,927	94.08%	5,939	94.27%	6,145	97.54%	5,964	94.67%	6,074	96.41%	6,103	96.87%
SAN JOAQUIN	10,808	10,468	96.85%	10,510	97.24%	10,735	99.32%	10,524	97.37%	10,662	98.65%	10,693	98.94%
SAN LUIS OBISPO	2,609	2,503	95.94%	2,514	96.36%	2,584	99.04%	2,506	96.05%	2,574	98.66%	2,580	98.89%
SAN MATEO	8,515	8,218	96.51%	8,221	96.55%	8,480	99.59%	8,199	96.29%	8,433	99.04%	8,448	99.21%
SANTA BARBARA	5,474	5,372	98.14%	5,378	98.25%	5,454	99.63%	5,370	98.10%	5,435	99.29%	5,451	99.58%
SANTA CLARA	23,793	23,255	97.74%	23,285	97.86%	23,726	99.72%	23,288	97.88%	23,619	99.27%	23,661	99.45%
SANTA CRUZ	3,309	3,204	96.83%	3,200	96.71%	3,285	99.27%	3,191	96.43%	3,257	98.43%	3,270	98.82%
SHASTA	2,195	2,061	93.90%	2,062	93.94%	2,153	98.09%	2,072	94.40%	2,139	97.45%	2,132	97.13%
SIERRA	26	25	96.15%	25	96.15%	26	100.00%	25	96.15%	26	100.00%	26	100.00%
SISKIYOU	424	397	93.63%	397	93.63%	423	99.76%	396	93.40%	419	98.82%	413	97.41%
SOLANO	5,279	5,085	96.33%	5,110	96.80%	5,247	99.39%	5,103	96.67%	5,210	98.69%	5,228	99.03%
SONOMA	5,902	5,644	95.63%	5,668	96.04%	5,856	99.22%	5,680	96.24%	5,808	98.41%	5,817	98.56%
STANISLAUS	8,468	8,340	98.49%	8,351	98.62%	8,457	99.87%	8,345	98.55%	8,417	99.40%	8,448	99.76%
SUTTER	1,559	1,524	97.75%	1,530	98.14%	1,552	99.55%	1,523	97.69%	1,539	98.72%	1,550	99.42%
TEHAMA	823	788	95.75%	796	96.72%	817	99.27%	793	96.35%	806	97.93%	817	99.27%
TRINITY	122	117	95.90%	115	94.26%	121	99.18%	119	97.54%	122	100.00%	119	97.54%
TULARE	8,024	7,887	98.29%	7,901	98.47%	7,997	99.66%	7,927	98.79%	7,961	99.21%	7,986	99.53%
TUOLUMNE	526	480	91.25%	481	91.44%	517	98.29%	483	91.83%	514	97.72%	509	96.77%
VENTURA	11,364	10,889	95.82%	10,942	96.29%	11,249	98.99%	10,998	96.78%	11,167	98.27%	11,198	98.54%
YOLO	2,289	2,249	98.25%	2,249	98.25%	2,285	99.83%	2,246	98.12%	2,273	99.30%	2,284	99.78%
YUBA	1,191	1,136	95.38%	1,137	95.47%	1,181	99.16%	1,144	96.05%	1,164	97.73%	1,173	98.49%

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2006

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	8,481	5,702	67.23%	2,779	32.77%
COUNTY					
ALAMEDA	332	218	65.66%	114	34.34%
ALPINE	2	2	100.00%	0	0.00%
AMADOR	9	7	77.78%	2	22.22%
BUTTE	60	49	81.67%	11	18.33%
CALAVERAS	13	12	92.31%	1	7.69%
COLUSA	7	6	85.71%	1	14.29%
CONTRA COSTA	236	151	63.98%	85	36.02%
DEL NORTE	11	9	81.82%	2	18.18%
EL DORADO	46	35	76.09%	11	23.91%
FRESNO	219	183	83.56%	36	16.44%
GLENN	11	10	90.91%	1	9.09%
HUMBOLDT	62	52	83.87%	10	16.13%
IMPERIAL	44	36	81.82%	8	18.18%
INYO	6	6	100.00%	0	0.00%
KERN	185	144	77.84%	41	22.16%
KINGS	38	30	78.95%	8	21.05%
LAKE	17	13	76.47%	4	23.53%
LASSEN	14	12	85.71%	2	14.29%
LOS ANGELES	2,090	1,228	58.76%	862	41.24%
MADERA	39	36	92.31%	3	7.69%
MARIN	80	46	57.50%	34	42.50%
MARIPOSA	8	8	100.00%	0	0.00%
MENDOCINO	34	28	82.35%	6	17.65%
MERCED	67	51	76.12%	16	23.88%
MODOC	8	7	87.50%	1	12.50%
MONO	8	6	75.00%	2	25.00%
MONTEREY	92	76	82.61%	16	17.39%
NAPA	47	30	63.83%	17	36.17%
NEVADA	31	25	80.65%	6	19.35%

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TABLE 4: NUMBER OF SCHOOLS REPORTING
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	TOTAL NUMBER OF SCHOOLS	SCHOOL TYPE			
		PUBLIC		PRIVATE	
		NUMBER OF SCHOOLS	PERCENT OF TOTAL	NUMBER OF SCHOOLS	PERCENT OF TOTAL
STATE TOTAL	8,481	5,702	67.23%	2,779	32.77%
COUNTY					
ORANGE	687	399	58.08%	288	41.92%
PLACER	85	64	75.29%	21	24.71%
PLUMAS	7	5	71.43%	2	28.57%
RIVERSIDE	408	279	68.38%	129	31.62%
SACRAMENTO	322	236	73.29%	86	26.71%
SAN BENITO	17	14	82.35%	3	17.65%
SAN BERNARDINO	453	316	69.76%	137	30.24%
SAN DIEGO	654	440	67.28%	214	32.72%
SAN FRANCISCO	148	71	47.97%	77	52.03%
SAN JOAQUIN	177	140	79.10%	37	20.90%
SAN LUIS OBISPO	64	47	73.44%	17	26.56%
SAN MATEO	182	107	58.79%	75	41.21%
SANTA BARBARA	101	76	75.25%	25	24.75%
SANTA CLARA	382	238	62.30%	144	37.70%
SANTA CRUZ	65	45	69.23%	20	30.77%
SHASTA	58	45	77.59%	13	22.41%
SIERRA	2	2	100.00%	0	0.00%
SISKIYOU	26	24	92.31%	2	7.69%
SOLANO	85	60	70.59%	25	29.41%
SONOMA	134	102	76.12%	32	23.88%
STANISLAUS	133	106	79.70%	27	20.30%
SUTTER	36	30	83.33%	6	16.67%
TEHAMA	24	22	91.67%	2	8.33%
TRINITY	11	11	100.00%	0	0.00%
TULARE	110	97	88.18%	13	11.82%
TUOLUMNE	18	14	77.78%	4	22.22%
VENTURA	206	140	67.96%	66	32.04%
YOLO	44	34	77.27%	10	22.73%
YUBA	26	22	84.62%	4	15.38%