

2006-2007 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 8,481 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 this fall's kindergarten immunization 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 94% for each vaccine.

Table 1: Kindergarten Immunization Assessment, 2002-2003 to 2006-2007 School Years

	2002 - 2003	2003 - 2004	2004 - 2005	2005 - 2006	2006 - 2007
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	95.4%	95.2%	95.2%	95.0%	94.7%
3+ Polio	96.0%	95.6%	95.6%	95.3%	95.0%
1+ MMR	95.7%	95.6%	95.5%	95.3%	95.0%
3+ Hep B	96.9%	96.8%	96.9%	96.9%	96.9%
1+ Var (or physician-documented disease)	97.0%	97.3%	97.4%	97.3%	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, or Madina Sharifi at (510) 620-3757 or msharifi@dhs.ca.gov at the California Department of Health Services, Immunization Branch.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2006-2007

1

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%

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									
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	476,383	94.68%	478,022	95.00%	491,189	97.62%	477,788	94.96%	487,374	96.86%	489,367	97.26%
COUNTY													
ALAMEDA	18,232	17,162	94.13%	17,200	94.34%	17,804	97.65%	17,254	94.64%	17,585	96.45%	17,674	96.94%
ALPINE	17	16	94.12%	17	100.00%	17	100.00%	17	100.00%	17	100.00%	17	100.00%
AMADOR	285	271	95.09%	276	96.84%	277	97.19%	274	96.14%	275	96.49%	277	97.19%
BUTTE	2,544	2,358	92.69%	2,372	93.24%	2,426	95.36%	2,371	93.20%	2,412	94.81%	2,418	95.05%
CALAVERAS	461	412	89.37%	410	88.94%	432	93.71%	420	91.11%	423	91.76%	426	92.41%
COLUSA	377	371	98.41%	373	98.94%	375	99.47%	373	98.94%	373	98.94%	373	98.94%
CONTRA_COSTA	13,815	13,245	95.87%	13,275	96.09%	13,541	98.02%	13,259	95.98%	13,468	97.49%	13,499	97.71%
DEL_NORTE	356	320	89.89%	328	92.13%	327	91.85%	327	91.85%	325	91.29%	331	92.98%
EL_DORADO	2,146	1,892	88.16%	1,887	87.93%	2,032	94.69%	1,880	87.60%	2,005	93.43%	1,994	92.92%
FRESNO	15,011	14,498	96.58%	14,537	96.84%	14,799	98.59%	14,623	97.42%	14,722	98.07%	14,757	98.31%
GLENN	474	461	97.26%	461	97.26%	466	98.31%	460	97.05%	466	98.31%	465	98.10%
HUMBOLDT	1,511	1,297	85.84%	1,300	86.04%	1,379	91.26%	1,304	86.30%	1,360	90.01%	1,356	89.74%
IMPERIAL	2,675	2,592	96.90%	2,625	98.13%	2,660	99.44%	2,615	97.76%	2,651	99.10%	2,653	99.18%
INYO	194	185	95.36%	186	95.88%	189	97.42%	188	96.91%	178	91.75%	188	96.91%
KERN	13,654	12,952	94.86%	13,000	95.21%	13,303	97.43%	12,993	95.16%	13,189	96.59%	13,266	97.16%
KINGS	2,304	2,241	97.27%	2,251	97.70%	2,290	99.39%	2,253	97.79%	2,272	98.61%	2,287	99.26%
LAKE	713	635	89.06%	644	90.32%	668	93.69%	658	92.29%	657	92.15%	664	93.13%
LASSEN	323	275	85.14%	276	85.45%	311	96.28%	282	87.31%	306	94.74%	303	93.81%
LOS_ANGELES	129,608	121,969	94.11%	122,642	94.63%	126,678	97.74%	122,283	94.35%	125,313	96.69%	126,156	97.34%
MADERA	2,411	2,243	93.03%	2,257	93.61%	2,338	96.97%	2,298	95.31%	2,322	96.31%	2,333	96.76%
MARIN	3,058	2,765	90.42%	2,768	90.52%	2,887	94.41%	2,730	89.27%	2,843	92.97%	2,868	93.79%
MARIPOSA	164	150	91.46%	152	92.68%	157	95.73%	142	86.59%	156	95.12%	154	93.90%
MENDOCINO	1,021	876	85.80%	885	86.68%	947	92.75%	879	86.09%	933	91.38%	931	91.19%
MERCED	4,490	4,331	96.46%	4,352	96.93%	4,448	99.06%	4,361	97.13%	4,436	98.80%	4,450	99.11%
MODOC	125	117	93.60%	117	93.60%	118	94.40%	117	93.60%	117	93.60%	118	94.40%
MONO	177	175	98.87%	175	98.87%	175	98.87%	175	98.87%	175	98.87%	175	98.87%
MONTEREY	6,200	6,018	97.06%	6,025	97.18%	6,135	98.95%	6,022	97.13%	6,101	98.40%	6,128	98.84%
NAPA	1,729	1,645	95.14%	1,650	95.43%	1,692	97.86%	1,651	95.49%	1,690	97.74%	1,693	97.92%
NEVADA	891	670	75.20%	670	75.20%	731	82.04%	690	77.44%	721	80.92%	711	79.80%
ORANGE	41,337	38,915	94.14%	39,017	94.39%	40,319	97.54%	38,956	94.24%	40,144	97.11%	40,225	97.31%

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	476,383	94.68%	478,022	95.00%	491,189	97.62%	477,788	94.96%	487,374	96.86%	489,367	97.26%
COUNTY													
PLACER	4,925	4,523	91.84%	4,546	92.30%	4,687	95.17%	4,528	91.94%	4,661	94.64%	4,655	94.52%
PLUMAS	197	163	82.74%	163	82.74%	180	91.37%	164	83.25%	178	90.36%	173	87.82%
RIVERSIDE	31,722	30,767	96.99%	30,813	97.13%	31,319	98.73%	30,840	97.22%	31,099	98.04%	31,276	98.59%
SACRAMENTO	19,044	17,570	92.26%	17,659	92.73%	18,530	97.30%	17,618	92.51%	18,290	96.04%	18,365	96.43%
SAN_BENITO	927	896	96.66%	902	97.30%	920	99.24%	900	97.09%	910	98.17%	915	98.71%
SAN_BERNARDINO	31,564	30,493	96.61%	30,633	97.05%	31,080	98.47%	30,623	97.02%	30,909	97.92%	31,016	98.26%
SAN_DIEGO	39,478	37,565	95.15%	37,587	95.21%	38,482	97.48%	37,584	95.20%	38,293	97.00%	38,391	97.25%
SAN_FRANCISCO	6,300	5,849	92.84%	5,861	93.03%	6,067	96.30%	5,886	93.43%	5,996	95.17%	6,025	95.63%
SAN_JOAQUIN	10,808	10,390	96.13%	10,432	96.52%	10,657	98.60%	10,446	96.65%	10,584	97.93%	10,615	98.21%
SAN_LUIS_OBISPO	2,609	2,416	92.60%	2,427	93.02%	2,497	95.71%	2,419	92.72%	2,487	95.32%	2,493	95.55%
SAN_MATEO	8,515	8,105	95.18%	8,108	95.22%	8,367	98.26%	8,086	94.96%	8,320	97.71%	8,335	97.89%
SANTA_BARBARA	5,474	5,194	94.88%	5,200	94.99%	5,276	96.38%	5,192	94.85%	5,257	96.04%	5,273	96.33%
SANTA_CLARA	23,793	22,935	96.39%	22,965	96.52%	23,406	98.37%	22,968	96.53%	23,299	97.92%	23,341	98.10%
SANTA_CRUZ	3,309	2,936	88.73%	2,932	88.61%	3,017	91.18%	2,923	88.33%	2,989	90.33%	3,002	90.72%
SHASTA	2,195	1,977	90.07%	1,978	90.11%	2,069	94.26%	1,988	90.57%	2,055	93.62%	2,048	93.30%
SIERRA	26	24	92.31%	24	92.31%	25	96.15%	24	92.31%	25	96.15%	25	96.15%
SISKIYOU	424	327	77.12%	327	77.12%	353	83.25%	326	76.89%	349	82.31%	343	80.90%
SOLANO	5,279	5,043	95.53%	5,068	96.00%	5,205	98.60%	5,061	95.87%	5,168	97.90%	5,186	98.24%
SONOMA	5,902	5,355	90.73%	5,379	91.14%	5,567	94.32%	5,391	91.34%	5,519	93.51%	5,528	93.66%
STANISLAUS	8,468	8,185	96.66%	8,196	96.79%	8,302	98.04%	8,190	96.72%	8,262	97.57%	8,293	97.93%
SUTTER	1,559	1,495	95.89%	1,501	96.28%	1,523	97.69%	1,494	95.83%	1,510	96.86%	1,521	97.56%
TEHAMA	823	763	92.71%	771	93.68%	792	96.23%	768	93.32%	781	94.90%	792	96.23%
TRINITY	122	107	87.70%	105	86.07%	111	90.98%	109	89.34%	112	91.80%	109	89.34%
TULARE	8,024	7,835	97.64%	7,849	97.82%	7,945	99.02%	7,875	98.14%	7,909	98.57%	7,934	98.88%
TUOLUMNE	526	449	85.36%	450	85.55%	486	92.40%	452	85.93%	483	91.83%	478	90.87%
VENTURA	11,364	10,652	93.73%	10,705	94.20%	11,012	96.90%	10,761	94.69%	10,930	96.18%	10,961	96.45%
YOLO	2,289	2,203	96.24%	2,203	96.24%	2,239	97.82%	2,200	96.11%	2,227	97.29%	2,238	97.77%
YUBA	1,191	1,109	93.12%	1,110	93.20%	1,154	96.89%	1,117	93.79%	1,137	95.47%	1,146	96.22%

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%

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					
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%