

2008-2009 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 8,219 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 the results from this fall's kindergarten immunization assessment. This year 91.7% of the 501,046 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 928 (0.19%) students with permanent medical exemptions and 9,529 (1.90%) students with personal belief exemptions. Immunization coverage was above 93% for each vaccine.

Table 1: Kindergarten Immunization Assessment, 2008-2009*

Number of Schools	8,219
Number of Students	501,046
All Required Immunizations	91.7%
Conditional Entrants	6.3%
Permanent Medical Exemptions	0.19%
Personal Belief Exemptions	1.90%
4+ DTP	93.7%
3+ Polio	94.1%
2+ MMR	94.1%
3+ Hep B	96.3%
1+ Var (or physician-documented disease)	96.8%

*Individual antigen status is unavailable for students with Personal Beliefs Exemptions. Therefore, individual antigen immunization coverage may be underestimated; anecdotal evidence suggests a small percentage of students may have some but not all required immunizations.

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 Teresa Lee at (510) 620-3746 or Teresa.Lee2@cdph.ca.gov, or Madina Sharifi at (510) 620-3757 or Madina.Sharifi@cdph.ca.gov at the California Department of Health Services, Immunization Branch.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2008-2009

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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	501,046	459,261	91.66%	31,328	6.25%	928	0.19%	9,529	1.90%
COUNTY									
ALAMEDA	17,641	15,994	90.66%	1,444	8.19%	14	0.08%	189	1.07%
ALPINE	18	17	94.44%	1	5.56%	0	0.00%	0	0.00%
AMADOR	349	323	92.55%	7	2.01%	0	0.00%	19	5.44%
BUTTE	2,548	2,337	91.72%	110	4.32%	4	0.16%	97	3.81%
CALAVERAS	388	319	82.22%	43	11.08%	0	0.00%	26	6.70%
COLUSA	361	352	97.51%	6	1.66%	0	0.00%	3	0.83%
CONTRA COSTA	14,194	13,278	93.55%	573	4.04%	32	0.23%	311	2.19%
DEL NORTE	330	309	93.64%	5	1.52%	0	0.00%	16	4.85%
EL DORADO	2,211	1,948	88.10%	111	5.02%	2	0.09%	150	6.78%
FRESNO	15,656	14,687	93.81%	847	5.41%	14	0.09%	108	0.69%
GLENN	441	422	95.69%	13	2.95%	1	0.23%	5	1.13%
HUMBOLDT	1,439	1,082	75.19%	204	14.18%	7	0.49%	146	10.15%
IMPERIAL	2,891	2,720	94.09%	161	5.57%	4	0.14%	6	0.21%
INYO	197	188	95.43%	3	1.52%	0	0.00%	6	3.05%
KERN	13,458	12,289	91.31%	937	6.96%	43	0.32%	189	1.40%
KINGS	2,372	2,290	96.54%	57	2.40%	1	0.04%	24	1.01%
LAKE	550	486	88.36%	46	8.36%	2	0.36%	16	2.91%
LASSEN	334	277	82.93%	47	14.07%	2	0.60%	8	2.40%
LOS ANGELES	125,222	113,140	90.35%	10,296	8.22%	158	0.13%	1,628	1.30%
MADERA	2,347	2,238	95.36%	75	3.20%	3	0.13%	31	1.32%
MARIN	3,145	2,625	83.47%	311	9.89%	10	0.32%	199	6.33%
MARIPOSA	149	118	79.19%	25	16.78%	0	0.00%	6	4.03%
MENDOCINO	1,061	897	84.54%	82	7.73%	2	0.19%	80	7.54%
MERCED	4,331	4,125	95.24%	161	3.72%	4	0.09%	41	0.95%
MODOC	132	123	93.18%	4	3.03%	1	0.76%	4	3.03%
MONO	123	120	97.56%	1	0.81%	1	0.81%	1	0.81%
MONTEREY	6,331	5,944	93.89%	318	5.02%	8	0.13%	61	0.96%
NAPA	1,818	1,705	93.78%	72	3.96%	2	0.11%	39	2.15%
NEVADA	797	618	77.54%	63	7.90%	1	0.13%	115	14.43%

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	501,046	459,261	91.66%	31,328	6.25%	928	0.19%	9,529	1.90%
COUNTY									
ORANGE	41,450	37,305	90.00%	3,059	7.38%	164	0.40%	922	2.22%
PLACER	4,359	3,807	87.34%	353	8.10%	24	0.55%	175	4.01%
PLUMAS	259	228	88.03%	10	3.86%	0	0.00%	21	8.11%
RIVERSIDE	31,587	29,895	94.64%	1,279	4.05%	61	0.19%	352	1.11%
SACRAMENTO	18,705	16,405	87.70%	1,721	9.20%	60	0.32%	519	2.77%
SAN BENITO	887	838	94.48%	39	4.40%	1	0.11%	9	1.01%
SAN BERNARDINO	31,044	29,195	94.04%	1,412	4.55%	47	0.15%	390	1.26%
SAN DIEGO	40,748	38,019	93.30%	1,638	4.02%	55	0.13%	1,036	2.54%
SAN FRANCISCO	6,248	5,668	90.72%	465	7.44%	11	0.18%	104	1.66%
SAN JOAQUIN	10,686	10,160	95.08%	398	3.72%	11	0.10%	117	1.09%
SAN LUIS OBISPO	2,747	2,456	89.41%	162	5.90%	11	0.40%	118	4.30%
SAN MATEO	9,112	8,141	89.34%	786	8.63%	21	0.23%	164	1.80%
SANTA BARBARA	5,446	5,081	93.30%	197	3.62%	6	0.11%	162	2.97%
SANTA CLARA	25,203	23,816	94.50%	984	3.90%	47	0.19%	356	1.41%
SANTA CRUZ	2,941	2,509	85.31%	203	6.90%	15	0.51%	214	7.28%
SHASTA	2,164	1,847	85.35%	205	9.47%	8	0.37%	104	4.81%
SIERRA	36	32	88.89%	3	8.33%	0	0.00%	1	2.78%
SISKIYOU	489	371	75.87%	56	11.45%	1	0.20%	61	12.47%
SOLANO	5,247	5,032	95.90%	159	3.03%	5	0.10%	51	0.97%
SONOMA	6,009	5,270	87.70%	377	6.27%	12	0.20%	350	5.82%
STANISLAUS	8,120	7,690	94.70%	187	2.30%	10	0.12%	233	2.87%
SUTTER	1,653	1,500	90.74%	95	5.75%	1	0.06%	57	3.45%
TEHAMA	878	815	92.82%	29	3.30%	0	0.00%	34	3.87%
TRINITY	148	124	83.78%	10	6.76%	0	0.00%	14	9.46%
TULARE	8,213	7,940	96.68%	218	2.65%	3	0.04%	52	0.63%
TUOLUMNE	545	424	77.80%	57	10.46%	0	0.00%	64	11.74%
VENTURA	11,662	10,410	89.26%	976	8.37%	37	0.32%	239	2.05%
YOLO	2,462	2,248	91.31%	145	5.89%	0	0.00%	69	2.80%
YUBA	1,164	1,064	91.41%	82	7.04%	1	0.09%	17	1.46%

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	501,046	469,373	93.68%	471,708	94.14%	485,752	96.95%	471,445	94.09%	482,714	96.34%	484,739	96.75%
COUNTY													
ALAMEDA	17,641	16,465	93.33%	16,559	93.87%	17,209	97.55%	16,591	94.05%	17,007	96.41%	17,141	97.17%
ALPINE	18	17	94.44%	17	94.44%	18	100.00%	17	94.44%	17	94.44%	17	94.44%
AMADOR	349	327	93.70%	327	93.70%	330	94.56%	327	93.70%	329	94.27%	330	94.56%
BUTTE	2,548	2,365	92.82%	2,374	93.17%	2,422	95.05%	2,369	92.97%	2,418	94.90%	2,420	94.98%
CALAVERAS	388	322	82.99%	326	84.02%	349	89.95%	336	86.60%	349	89.95%	351	90.46%
COLUSA	361	353	97.78%	354	98.06%	358	99.17%	354	98.06%	358	99.17%	355	98.34%
CONTRA COSTA	14,194	13,429	94.61%	13,479	94.96%	13,773	97.03%	13,514	95.21%	13,710	96.59%	13,746	96.84%
DEL NORTE	330	312	94.55%	312	94.55%	313	94.85%	311	94.24%	311	94.24%	312	94.55%
EL DORADO	2,211	1,969	89.05%	1,973	89.24%	2,051	92.76%	1,983	89.69%	2,041	92.31%	2,038	92.18%
FRESNO	15,656	14,867	94.96%	14,964	95.58%	15,310	97.79%	15,127	96.62%	15,223	97.23%	15,271	97.54%
GLENN	441	428	97.05%	427	96.83%	433	98.19%	426	96.60%	435	98.64%	435	98.64%
HUMBOLDT	1,439	1,137	79.01%	1,133	78.74%	1,237	85.96%	1,145	79.57%	1,225	85.13%	1,197	83.18%
IMPERIAL	2,891	2,812	97.27%	2,817	97.44%	2,868	99.20%	2,806	97.06%	2,849	98.55%	2,850	98.58%
INYO	197	189	95.94%	190	96.45%	190	96.45%	189	95.94%	189	95.94%	190	96.45%
KERN	13,458	12,500	92.88%	12,581	93.48%	12,761	94.82%	12,539	93.17%	12,689	94.29%	12,747	94.72%
KINGS	2,372	2,309	97.34%	2,325	98.02%	2,343	98.78%	2,315	97.60%	2,337	98.52%	2,344	98.82%
LAKE	550	493	89.64%	493	89.64%	522	94.91%	496	90.18%	521	94.73%	522	94.91%
LASSEN	334	295	88.32%	298	89.22%	321	96.11%	297	88.92%	316	94.61%	314	94.01%
LOS ANGELES	125,222	116,988	93.42%	117,824	94.09%	121,701	97.19%	117,443	93.79%	120,727	96.41%	121,478	97.01%
MADERA	2,347	2,255	96.08%	2,269	96.68%	2,290	97.57%	2,280	97.15%	2,295	97.78%	2,297	97.87%
MARIN	3,145	2,768	88.01%	2,782	88.46%	2,916	92.72%	2,728	86.74%	2,867	91.16%	2,892	91.96%
MARIPOSA	149	124	83.22%	124	83.22%	137	91.95%	121	81.21%	133	89.26%	134	89.93%
MENDOCINO	1,061	924	87.09%	929	87.56%	961	90.57%	915	86.24%	962	90.67%	964	90.86%
MERCED	4,331	4,151	95.84%	4,177	96.44%	4,230	97.67%	4,180	96.51%	4,259	98.34%	4,266	98.50%
MODOC	132	124	93.94%	125	94.70%	126	95.45%	125	94.70%	126	95.45%	126	95.45%
MONO	123	121	98.37%	121	98.37%	120	97.56%	121	98.37%	121	98.37%	121	98.37%
MONTEREY	6,331	6,034	95.31%	6,051	95.58%	6,233	98.45%	6,058	95.69%	6,205	98.01%	6,217	98.20%
NAPA	1,818	1,727	94.99%	1,731	95.21%	1,761	96.86%	1,739	95.65%	1,753	96.42%	1,765	97.08%
NEVADA	797	644	80.80%	640	80.30%	669	83.94%	629	78.92%	663	83.19%	664	83.31%

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	501,046	469,373	93.68%	471,708	94.14%	485,752	96.95%	471,445	94.09%	482,714	96.34%	484,739	96.75%
COUNTY													
ORANGE	41,450	38,349	92.52%	38,414	92.68%	40,016	96.54%	38,404	92.65%	39,789	95.99%	39,931	96.34%
PLACER	4,359	3,939	90.36%	4,015	92.11%	4,131	94.77%	3,995	91.65%	4,121	94.54%	4,124	94.61%
PLUMAS	259	230	88.80%	232	89.58%	238	91.89%	234	90.35%	236	91.12%	236	91.12%
RIVERSIDE	31,587	30,324	96.00%	30,438	96.36%	31,084	98.41%	30,366	96.13%	30,917	97.88%	31,062	98.34%
SACRAMENTO	18,705	16,813	89.89%	16,952	90.63%	17,964	96.04%	16,940	90.56%	17,743	94.86%	17,838	95.36%
SAN BENITO	887	842	94.93%	848	95.60%	875	98.65%	856	96.51%	873	98.42%	874	98.53%
SAN BERNARDINO	31,044	29,633	95.45%	29,761	95.87%	30,409	97.95%	29,803	96.00%	30,246	97.43%	30,384	97.87%
SAN DIEGO	40,748	38,518	94.53%	38,577	94.67%	39,539	97.03%	38,598	94.72%	39,348	96.56%	39,463	96.85%
SAN FRANCISCO	6,248	5,819	93.13%	5,816	93.09%	5,955	95.31%	5,866	93.89%	5,905	94.51%	5,937	95.02%
SAN JOAQUIN	10,686	10,287	96.27%	10,302	96.41%	10,510	98.35%	10,305	96.43%	10,451	97.80%	10,490	98.17%
SAN LUIS OBISPO	2,747	2,482	90.35%	2,505	91.19%	2,608	94.94%	2,498	90.94%	2,600	94.65%	2,605	94.83%
SAN MATEO	9,112	8,370	91.86%	8,402	92.21%	8,861	97.25%	8,448	92.71%	8,788	96.44%	8,829	96.89%
SANTA BARBARA	5,446	5,139	94.36%	5,188	95.26%	5,255	96.49%	5,156	94.67%	5,234	96.11%	5,239	96.20%
SANTA CLARA	25,203	24,212	96.07%	24,274	96.31%	24,676	97.91%	24,222	96.11%	24,599	97.60%	24,653	97.82%
SANTA CRUZ	2,941	2,555	86.88%	2,566	87.25%	2,684	91.26%	2,558	86.98%	2,669	90.75%	2,685	91.30%
SHASTA	2,164	1,883	87.01%	1,891	87.38%	2,003	92.56%	1,894	87.52%	2,000	92.42%	2,003	92.56%
SIERRA	36	32	88.89%	32	88.89%	34	94.44%	32	88.89%	34	94.44%	34	94.44%
SISKIYOU	489	380	77.71%	383	78.32%	415	84.87%	384	78.53%	411	84.05%	411	84.05%
SOLANO	5,247	5,073	96.68%	5,109	97.37%	5,175	98.63%	5,107	97.33%	5,145	98.06%	5,167	98.48%
SONOMA	6,009	5,354	89.10%	5,372	89.40%	5,587	92.98%	5,380	89.53%	5,552	92.39%	5,548	92.33%
STANISLAUS	8,120	7,745	95.38%	7,764	95.62%	7,859	96.79%	7,755	95.50%	7,852	96.70%	7,866	96.87%
SUTTER	1,653	1,532	92.68%	1,527	92.38%	1,588	96.07%	1,522	92.08%	1,580	95.58%	1,583	95.77%
TEHAMA	878	824	93.85%	830	94.53%	841	95.79%	823	93.74%	837	95.33%	839	95.56%
TRINITY	148	126	85.14%	127	85.81%	133	89.86%	126	85.14%	133	89.86%	133	89.86%
TULARE	8,213	7,987	97.25%	8,050	98.02%	8,150	99.23%	8,057	98.10%	8,112	98.77%	8,140	99.11%
TUOLUMNE	545	435	79.82%	438	80.37%	461	84.59%	443	81.28%	470	86.24%	466	85.50%
VENTURA	11,662	10,687	91.64%	10,803	92.63%	11,223	96.24%	10,833	92.89%	11,166	95.75%	11,204	96.07%
YOLO	2,462	2,275	92.40%	2,285	92.81%	2,380	96.67%	2,280	92.61%	2,355	95.65%	2,368	96.18%
YUBA	1,164	1,079	92.70%	1,085	93.21%	1,146	98.45%	1,079	92.70%	1,113	95.62%	1,123	96.48%

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	8,219	5,727	69.68%	2,492	30.32%
COUNTY					
ALAMEDA	320	210	65.63%	110	34.38%
ALPINE	2	2	100.00%	0	0.00%
AMADOR	9	7	77.78%	2	22.22%
BUTTE	56	44	78.57%	12	21.43%
CALAVERAS	13	12	92.31%	1	7.69%
COLUSA	7	6	85.71%	1	14.29%
CONTRA COSTA	237	159	67.09%	78	32.91%
DEL NORTE	12	10	83.33%	2	16.67%
EL DORADO	44	35	79.55%	9	20.45%
FRESNO	227	190	83.70%	37	16.30%
GLENN	11	10	90.91%	1	9.09%
HUMBOLDT	59	49	83.05%	10	16.95%
IMPERIAL	46	37	80.43%	9	19.57%
INYO	7	6	85.71%	1	14.29%
KERN	177	145	81.92%	32	18.08%
KINGS	38	31	81.58%	7	18.42%
LAKE	13	11	84.62%	2	15.38%
LASSEN	13	12	92.31%	1	7.69%
LOS ANGELES	1,978	1,217	61.53%	761	38.47%
MADERA	37	35	94.59%	2	5.41%
MARIN	69	44	63.77%	25	36.23%
MARIPOSA	9	9	100.00%	0	0.00%
MENDOCINO	34	29	85.29%	5	14.71%
MERCED	63	52	82.54%	11	17.46%
MODOC	6	5	83.33%	1	16.67%
MONO	5	5	100.00%	0	0.00%
MONTEREY	92	77	83.70%	15	16.30%
NAPA	46	29	63.04%	17	36.96%
NEVADA	29	23	79.31%	6	20.69%

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	8,219	5,727	69.68%	2,492	30.32%
COUNTY					
ORANGE	670	400	59.70%	270	40.30%
PLACER	76	58	76.32%	18	23.68%
PLUMAS	9	6	66.67%	3	33.33%
RIVERSIDE	395	286	72.41%	109	27.59%
SACRAMENTO	311	235	75.56%	76	24.44%
SAN BENITO	21	17	80.95%	4	19.05%
SAN BERNARDINO	445	337	75.73%	108	24.27%
SAN DIEGO	638	441	69.12%	197	30.88%
SAN FRANCISCO	131	71	54.20%	60	45.80%
SAN JOAQUIN	177	146	82.49%	31	17.51%
SAN LUIS OBISPO	63	47	74.60%	16	25.40%
SAN MATEO	181	110	60.77%	71	39.23%
SANTA BARBARA	102	76	74.51%	26	25.49%
SANTA CLARA	382	245	64.14%	137	35.86%
SANTA CRUZ	58	38	65.52%	20	34.48%
SHASTA	60	48	80.00%	12	20.00%
SIERRA	2	2	100.00%	0	0.00%
SISKIYOU	27	26	96.30%	1	3.70%
SOLANO	86	61	70.93%	25	29.07%
SONOMA	134	103	76.87%	31	23.13%
STANISLAUS	126	105	83.33%	21	16.67%
SUTTER	32	28	87.50%	4	12.50%
TEHAMA	25	23	92.00%	2	8.00%
TRINITY	11	11	100.00%	0	0.00%
TULARE	109	97	88.99%	12	11.01%
TUOLUMNE	18	15	83.33%	3	16.67%
VENTURA	204	140	68.63%	64	31.37%
YOLO	44	32	72.73%	12	27.27%
YUBA	23	22	95.65%	1	4.35%