

2010-2011 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 8,189 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 the fall 2010-2011 kindergarten report. This year 90.7% of the 509,849 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 962 (0.19%) students with permanent medical exemptions and 11,868 (2.33%) students with personal belief exemptions. Immunization coverage was above 92% for each vaccine.

Table 1: Kindergarten Immunization Assessment, 2010-2011*

Number of Schools	8,189
Number of Students	509,849
All Required Immunizations	90.7%
Conditional Entrants	6.8%
Permanent Medical Exemptions	0.19%
Personal Belief Exemptions	2.33%
4+ DTP	92.8%
3+ Polio	93.1%
2+ MMR	93.1%
3+ Hep B	95.7%
1+ Var (or physician-documented disease)	96.1%

*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 Renee Mehra at (510)620-3757 or Renee.Mehra@cdph.ca.gov at the California Department of Health Services, Immunization Branch.

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2010-2011

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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	509,849	462,235	90.66%	34,784	6.82%	962	0.19%	11,868	2.33%
COUNTY									
ALAMEDA	17,871	16,114	90.17%	1,511	8.46%	24	0.13%	222	1.24%
ALPINE	13	13	100.00%	0	0.00%	0	0.00%	0	0.00%
AMADOR	311	294	94.53%	5	1.61%	0	0.00%	12	3.86%
BUTTE	2,542	2,238	88.04%	163	6.41%	10	0.39%	131	5.15%
CALAVERAS	403	302	74.94%	74	18.36%	2	0.50%	25	6.20%
COLUSA	371	358	96.50%	8	2.16%	0	0.00%	5	1.35%
CONTRA COSTA	13,975	12,862	92.04%	769	5.50%	47	0.34%	297	2.13%
DEL NORTE	315	285	90.48%	7	2.22%	0	0.00%	23	7.30%
EL DORADO	2,552	2,167	84.91%	182	7.13%	8	0.31%	195	7.64%
FRESNO	15,780	14,990	94.99%	582	3.69%	18	0.11%	190	1.20%
GLENN	476	456	95.80%	18	3.78%	0	0.00%	2	0.42%
HUMBOLDT	1,548	1,173	75.78%	210	13.57%	3	0.19%	162	10.47%
IMPERIAL	2,896	2,657	91.75%	223	7.70%	4	0.14%	12	0.41%
INYO	220	211	95.91%	3	1.36%	0	0.00%	6	2.73%
KERN	14,474	12,968	89.60%	1,213	8.38%	57	0.39%	236	1.63%
KINGS	2,618	2,519	96.22%	61	2.33%	5	0.19%	33	1.26%
LAKE	780	703	90.13%	52	6.67%	2	0.26%	23	2.95%
LASSEN	308	264	85.71%	38	12.34%	0	0.00%	6	1.95%
LOS ANGELES	123,940	110,668	89.29%	11,177	9.02%	138	0.11%	1,957	1.58%
MADERA	2,302	2,168	94.18%	106	4.60%	1	0.04%	27	1.17%
MARIN	3,314	2,741	82.71%	329	9.93%	7	0.21%	237	7.15%
MARIPOSA	302	222	73.51%	71	23.51%	0	0.00%	9	2.98%
MENDOCINO	1,157	969	83.75%	101	8.73%	2	0.17%	85	7.35%
MERCED	4,502	4,140	91.96%	333	7.40%	4	0.09%	25	0.56%
MODOC	121	114	94.21%	5	4.13%	0	0.00%	2	1.65%
MONO	151	140	92.72%	6	3.97%	0	0.00%	5	3.31%
MONTEREY	6,624	6,196	93.54%	339	5.12%	12	0.18%	77	1.16%
NAPA	1,742	1,631	93.63%	67	3.85%	2	0.11%	42	2.41%
NEVADA	790	577	73.04%	72	9.11%	1	0.13%	140	17.72%

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	509,849	462,235	90.66%	34,784	6.82%	962	0.19%	11,868	2.33%
COUNTY									
ORANGE	41,555	36,980	88.99%	3,322	7.99%	145	0.35%	1,108	2.67%
PLACER	5,359	4,751	88.65%	363	6.77%	15	0.28%	230	4.29%
PLUMAS	180	160	88.89%	7	3.89%	0	0.00%	13	7.22%
RIVERSIDE	32,152	30,137	93.73%	1,371	4.26%	52	0.16%	592	1.84%
SACRAMENTO	19,326	16,399	84.85%	2,276	11.78%	28	0.14%	623	3.22%
SAN BENITO	879	834	94.88%	33	3.75%	1	0.11%	11	1.25%
SAN BERNARDINO	31,978	30,024	93.89%	1,333	4.17%	59	0.18%	562	1.76%
SAN DIEGO	41,839	38,353	91.67%	2,083	4.98%	87	0.21%	1,316	3.15%
SAN FRANCISCO	6,611	5,880	88.94%	636	9.62%	12	0.18%	83	1.26%
SAN JOAQUIN	11,031	10,524	95.40%	365	3.31%	17	0.15%	125	1.13%
SAN LUIS OBISPO	2,703	2,348	86.87%	205	7.58%	7	0.26%	143	5.29%
SAN MATEO	9,180	8,141	88.68%	831	9.05%	19	0.21%	189	2.06%
SANTA BARBARA	5,926	5,525	93.23%	200	3.37%	11	0.19%	190	3.21%
SANTA CLARA	25,512	23,858	93.52%	1,115	4.37%	71	0.28%	468	1.83%
SANTA CRUZ	3,452	2,849	82.53%	262	7.59%	4	0.12%	337	9.76%
SHASTA	2,162	1,755	81.17%	266	12.30%	3	0.14%	138	6.38%
SIERRA	34	31	91.18%	1	2.94%	0	0.00%	2	5.88%
SISKIYOU	501	403	80.44%	37	7.39%	0	0.00%	61	12.18%
SOLANO	5,230	4,945	94.55%	199	3.80%	14	0.27%	72	1.38%
SONOMA	6,009	5,359	89.18%	275	4.58%	10	0.17%	365	6.07%
STANISLAUS	8,525	8,040	94.31%	202	2.37%	5	0.06%	278	3.26%
SUTTER	1,760	1,582	89.89%	51	2.90%	6	0.34%	121	6.88%
TEHAMA	944	863	91.42%	40	4.24%	4	0.42%	37	3.92%
TRINITY	135	112	82.96%	1	0.74%	0	0.00%	22	16.30%
TULARE	8,376	8,070	96.35%	218	2.60%	7	0.08%	81	0.97%
TUOLUMNE	457	344	75.27%	67	14.66%	0	0.00%	46	10.07%
VENTURA	11,965	10,590	88.51%	973	8.13%	34	0.28%	368	3.08%
YOLO	2,435	2,164	88.87%	198	8.13%	3	0.12%	70	2.87%
YUBA	1,235	1,074	86.96%	129	10.45%	1	0.08%	31	2.51%

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	509,849	472,919	92.76%	474,823	93.13%	491,224	96.35%	474,756	93.12%	488,090	95.73%	490,044	96.12%
COUNTY													
ALAMEDA	17,871	16,620	93.00%	16,693	93.41%	17,344	97.05%	16,822	94.13%	17,180	96.13%	17,336	97.01%
ALPINE	13	13	100.00%	13	100.00%	13	100.00%	13	100.00%	13	100.00%	13	100.00%
AMADOR	311	298	95.82%	298	95.82%	299	96.14%	298	95.82%	295	94.86%	299	96.14%
BUTTE	2,542	2,272	89.38%	2,282	89.77%	2,359	92.80%	2,262	88.99%	2,341	92.09%	2,345	92.25%
CALAVERAS	403	312	77.42%	316	78.41%	357	88.59%	331	82.13%	351	87.10%	359	89.08%
COLUSA	371	363	97.84%	361	97.30%	366	98.65%	363	97.84%	364	98.11%	365	98.38%
CONTRA COSTA	13,975	13,095	93.70%	13,132	93.97%	13,537	96.87%	13,193	94.40%	13,480	96.46%	13,490	96.53%
DEL NORTE	315	287	91.11%	288	91.43%	288	91.43%	286	90.79%	288	91.43%	287	91.11%
EL DORADO	2,552	2,211	86.64%	2,223	87.11%	2,328	91.22%	2,219	86.95%	2,319	90.87%	2,316	90.75%
FRESNO	15,780	15,166	96.11%	15,222	96.46%	15,456	97.95%	15,309	97.02%	15,434	97.81%	15,455	97.94%
GLENN	476	458	96.22%	459	96.43%	474	99.58%	458	96.22%	473	99.37%	472	99.16%
HUMBOLDT	1,548	1,226	79.20%	1,216	78.55%	1,331	85.98%	1,244	80.36%	1,321	85.34%	1,305	84.30%
IMPERIAL	2,896	2,768	95.58%	2,779	95.96%	2,874	99.24%	2,742	94.68%	2,848	98.34%	2,841	98.10%
INYO	220	213	96.82%	213	96.82%	214	97.27%	213	96.82%	211	95.91%	214	97.27%
KERN	14,474	13,179	91.05%	13,261	91.62%	13,539	93.54%	13,275	91.72%	13,458	92.98%	13,543	93.57%
KINGS	2,618	2,539	96.98%	2,551	97.44%	2,578	98.47%	2,555	97.59%	2,565	97.98%	2,576	98.40%
LAKE	780	713	91.41%	715	91.67%	746	95.64%	730	93.59%	738	94.62%	748	95.90%
LASSEN	308	274	88.96%	276	89.61%	296	96.10%	268	87.01%	297	96.43%	293	95.13%
LOS ANGELES	123,940	114,520	92.40%	115,071	92.84%	119,695	96.57%	114,772	92.60%	118,863	95.90%	119,510	96.43%
MADERA	2,302	2,210	96.00%	2,222	96.52%	2,262	98.26%	2,220	96.44%	2,240	97.31%	2,261	98.22%
MARIN	3,314	2,849	85.97%	2,862	86.36%	3,029	91.40%	2,851	86.03%	2,985	90.07%	3,003	90.62%
MARIPOSA	302	239	79.14%	249	82.45%	270	89.40%	233	77.15%	265	87.75%	266	88.08%
MENDOCINO	1,157	992	85.74%	983	84.96%	1,051	90.84%	985	85.13%	1,044	90.23%	1,045	90.32%
MERCED	4,502	4,266	94.76%	4,314	95.82%	4,440	98.62%	4,303	95.58%	4,426	98.31%	4,406	97.87%
MODOC	121	114	94.21%	114	94.21%	119	98.35%	114	94.21%	119	98.35%	119	98.35%
MONO	151	142	94.04%	145	96.03%	146	96.69%	143	94.70%	145	96.03%	145	96.03%
MONTEREY	6,624	6,293	95.00%	6,311	95.27%	6,502	98.16%	6,318	95.38%	6,482	97.86%	6,490	97.98%
NAPA	1,742	1,646	94.49%	1,648	94.60%	1,694	97.24%	1,647	94.55%	1,686	96.79%	1,693	97.19%
NEVADA	790	611	77.34%	600	75.95%	629	79.62%	601	76.08%	628	79.49%	624	78.99%

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	509,849	472,919	92.76%	474,823	93.13%	491,224	96.35%	474,756	93.12%	488,090	95.73%	490,044	96.12%
COUNTY													
ORANGE	41,555	38,025	91.51%	38,151	91.81%	39,989	96.23%	38,064	91.60%	39,547	95.17%	39,711	95.56%
PLACER	5,359	4,898	91.40%	4,892	91.29%	5,047	94.18%	4,900	91.43%	5,057	94.36%	5,058	94.38%
PLUMAS	180	160	88.89%	160	88.89%	166	92.22%	160	88.89%	166	92.22%	163	90.56%
RIVERSIDE	32,152	30,611	95.21%	30,716	95.53%	31,360	97.54%	30,666	95.38%	31,175	96.96%	31,326	97.43%
SACRAMENTO	19,326	16,882	87.35%	17,008	88.01%	18,355	94.98%	17,048	88.21%	18,155	93.94%	18,240	94.38%
SAN BENITO	879	843	95.90%	849	96.59%	867	98.63%	845	96.13%	862	98.07%	865	98.41%
SAN BERNARDINO	31,978	30,391	95.04%	30,536	95.49%	31,178	97.50%	30,586	95.65%	31,035	97.05%	31,149	97.41%
SAN DIEGO	41,839	38,944	93.08%	39,033	93.29%	40,178	96.03%	39,035	93.30%	39,930	95.44%	40,116	95.88%
SAN FRANCISCO	6,611	6,034	91.27%	6,022	91.09%	6,246	94.48%	6,176	93.42%	6,211	93.95%	6,240	94.39%
SAN JOAQUIN	11,031	10,625	96.32%	10,667	96.70%	10,856	98.41%	10,652	96.56%	10,832	98.20%	10,859	98.44%
SAN LUIS OBISPO	2,703	2,401	88.83%	2,419	89.49%	2,539	93.93%	2,412	89.23%	2,514	93.01%	2,524	93.38%
SAN MATEO	9,180	8,365	91.12%	8,394	91.44%	8,917	97.14%	8,393	91.43%	8,887	96.81%	8,893	96.87%
SANTA BARBARA	5,926	5,587	94.28%	5,611	94.68%	5,699	96.17%	5,579	94.14%	5,675	95.76%	5,683	95.90%
SANTA CLARA	25,512	24,296	95.23%	24,340	95.41%	24,839	97.36%	24,328	95.36%	24,722	96.90%	24,781	97.13%
SANTA CRUZ	3,452	2,935	85.02%	2,932	84.94%	3,082	89.28%	2,895	83.86%	3,061	88.67%	3,066	88.82%
SHASTA	2,162	1,810	83.72%	1,824	84.37%	1,956	90.47%	1,828	84.55%	1,939	89.69%	1,951	90.24%
SIERRA	34	31	91.18%	32	94.12%	32	94.12%	32	94.12%	32	94.12%	32	94.12%
SISKIYOU	501	408	81.44%	411	82.04%	425	84.83%	408	81.44%	419	83.63%	422	84.23%
SOLANO	5,230	5,007	95.74%	5,036	96.29%	5,113	97.76%	5,026	96.10%	5,083	97.19%	5,113	97.76%
SONOMA	6,009	5,420	90.20%	5,437	90.48%	5,573	92.74%	5,445	90.61%	5,539	92.18%	5,559	92.51%
STANISLAUS	8,525	8,093	94.93%	8,129	95.35%	8,227	96.50%	8,102	95.04%	8,191	96.08%	8,214	96.35%
SUTTER	1,760	1,600	90.91%	1,603	91.08%	1,625	92.33%	1,601	90.97%	1,617	91.88%	1,620	92.05%
TEHAMA	944	876	92.80%	889	94.17%	903	95.66%	876	92.80%	898	95.13%	903	95.66%
TRINITY	135	112	82.96%	112	82.96%	113	83.70%	112	82.96%	113	83.70%	113	83.70%
TULARE	8,376	8,123	96.98%	8,157	97.39%	8,269	98.72%	8,161	97.43%	8,249	98.48%	8,268	98.71%
TUOLUMNE	457	360	78.77%	364	79.65%	402	87.96%	357	78.12%	398	87.09%	403	88.18%
VENTURA	11,965	10,873	90.87%	10,938	91.42%	11,486	96.00%	10,948	91.50%	11,437	95.59%	11,433	95.55%
YOLO	2,435	2,220	91.17%	2,239	91.95%	2,351	96.55%	2,245	92.20%	2,318	95.20%	2,344	96.26%
YUBA	1,235	1,100	89.07%	1,105	89.47%	1,195	96.76%	1,108	89.72%	1,169	94.66%	1,176	95.22%

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	8,189	5,758	70.31%	2,431	29.69%
COUNTY					
ALAMEDA	319	208	65.20%	111	34.80%
ALPINE	1	1	100.00%	0	0.00%
AMADOR	6	6	100.00%	0	0.00%
BUTTE	61	47	77.05%	14	22.95%
CALAVERAS	12	11	91.67%	1	8.33%
COLUSA	7	6	85.71%	1	14.29%
CONTRA COSTA	232	156	67.24%	76	32.76%
DEL NORTE	10	9	90.00%	1	10.00%
EL DORADO	47	38	80.85%	9	19.15%
FRESNO	224	192	85.71%	32	14.29%
GLENN	11	10	90.91%	1	9.09%
HUMBOLDT	62	51	82.26%	11	17.74%
IMPERIAL	45	38	84.44%	7	15.56%
INYO	8	6	75.00%	2	25.00%
KERN	182	150	82.42%	32	17.58%
KINGS	38	31	81.58%	7	18.42%
LAKE	19	13	68.42%	6	31.58%
LASSEN	12	12	100.00%	0	0.00%
LOS ANGELES	1,931	1,226	63.49%	705	36.51%
MADERA	35	32	91.43%	3	8.57%
MARIN	78	46	58.97%	32	41.03%
MARIPOSA	10	9	90.00%	1	10.00%
MENDOCINO	32	27	84.38%	5	15.63%
MERCED	63	52	82.54%	11	17.46%
MODOC	7	5	71.43%	2	28.57%
MONO	6	5	83.33%	1	16.67%
MONTEREY	89	75	84.27%	14	15.73%
NAPA	41	24	58.54%	17	41.46%
NEVADA	26	22	84.62%	4	15.38%

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	8,189	5,758	70.31%	2,431	29.69%
COUNTY					
ORANGE	658	395	60.03%	263	39.97%
PLACER	98	74	75.51%	24	24.49%
PLUMAS	8	5	62.50%	3	37.50%
RIVERSIDE	396	289	72.98%	107	27.02%
SACRAMENTO	304	231	75.99%	73	24.01%
SAN BENITO	19	16	84.21%	3	15.79%
SAN BERNARDINO	443	341	76.98%	102	23.02%
SAN DIEGO	638	447	70.06%	191	29.94%
SAN FRANCISCO	145	73	50.34%	72	49.66%
SAN JOAQUIN	175	145	82.86%	30	17.14%
SAN LUIS OBISPO	59	45	76.27%	14	23.73%
SAN MATEO	174	109	62.64%	65	37.36%
SANTA BARBARA	102	77	75.49%	25	24.51%
SANTA CLARA	395	249	63.04%	146	36.96%
SANTA CRUZ	64	44	68.75%	20	31.25%
SHASTA	59	47	79.66%	12	20.34%
SIERRA	2	2	100.00%	0	0.00%
SISKIYOU	26	25	96.15%	1	3.85%
SOLANO	82	59	71.95%	23	28.05%
SONOMA	126	99	78.57%	27	21.43%
STANISLAUS	129	110	85.27%	19	14.73%
SUTTER	35	30	85.71%	5	14.29%
TEHAMA	24	22	91.67%	2	8.33%
TRINITY	11	11	100.00%	0	0.00%
TULARE	109	97	88.99%	12	11.01%
TUOLUMNE	16	13	81.25%	3	18.75%
VENTURA	210	140	66.67%	70	33.33%
YOLO	43	31	72.09%	12	27.91%
YUBA	25	24	96.00%	1	4.00%