

2004 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 children 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 8,510 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 2004 kindergarten assessment are similar to previous years. This year 92.9% of the 510,074 students enrolled in reporting kindergartens received all required immunizations (4+ DTP, 3+ Polio, 2+ MMR, 3+ Hep B, and 1+ varicella). There were 6,340 (1.24%) children with personal belief exemptions and 747 (0.15%) children with permanent medical exemptions. Coverage for each vaccine has been higher than 96% and the percent of students meeting the requirement for varicella (one dose of vaccine or physician-documented disease or immunity) has shown continued improvement since 2001.

Table 1: Kindergarten Assessment, 2000-2004

	2000	2001	2002	2003	2004
Number of Schools	8,473	8,705	8,646	8,544	8,510
Number of Students	526,466	523,516	519,397	513,519	510,074
All Required Immunizations	92.20%	90.85%	92.29%	92.53%	92.87%
Conditional Entrants	6.92%	7.83%	6.45%	6.18%	5.74%
Permanent Medical Exemptions	0.11%	0.14%	0.15%	0.13%	0.15%
Personal Belief Exemptions	0.77%	1.19%	1.11%	1.16%	1.24%
DTP 4+	96.3%	96.6%	96.2%	96.5%	96.6%
Polio 3+	96.9%	97.1%	97.2%	96.9%	97.0%
MMR 2+	96.3%	96.7%	97.0%	96.8%	96.9%
Hep B 3+	97.3%	97.7%	98.1%	98.1%	98.3%
Varicella 1+	n/a	96.9%	98.3%	98.6%	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 children 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) 540-2993 or elarez@dhs.ca.gov, or Madina Sharifi at (510) 540-3147 or msharifi@dhs.ca.gov at the California Department of Health Services, Immunization Branch.*

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2004  
 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	510,074	473,705	92.87%	29,282	5.74%	747	0.15%	6,340	1.24%
COUNTY									
ALAMEDA	18,317	16,707	91.21%	1,399	7.64%	38	0.21%	173	0.94%
ALPINE	22	16	72.73%	4	18.18%	0	0.00%	2	9.09%
AMADOR	330	313	94.85%	13	3.94%	1	0.30%	3	0.91%
BUTTE	2,478	2,286	92.25%	93	3.75%	5	0.20%	94	3.79%
CALAVERAS	473	415	87.74%	32	6.77%	0	0.00%	26	5.50%
COLUSA	356	343	96.35%	10	2.81%	0	0.00%	3	0.84%
CONTRA COSTA	13,691	13,078	95.52%	405	2.96%	34	0.25%	174	1.27%
DEL NORTE	350	316	90.29%	17	4.86%	1	0.29%	16	4.57%
EL DORADO	2,174	1,843	84.77%	217	9.98%	3	0.14%	111	5.11%
FRESNO	14,784	14,278	96.58%	414	2.80%	8	0.05%	84	0.57%
GLENN	465	447	96.13%	16	3.44%	0	0.00%	2	0.43%
HUMBOLDT	1,482	1,273	85.90%	95	6.41%	0	0.00%	114	7.69%
IMPERIAL	2,642	2,489	94.21%	143	5.41%	5	0.19%	5	0.19%
INYO	193	186	96.37%	3	1.55%	0	0.00%	4	2.07%
KERN	13,099	12,327	94.11%	601	4.59%	18	0.14%	153	1.17%
KINGS	2,424	2,344	96.70%	69	2.85%	3	0.12%	8	0.33%
LAKE	722	639	88.50%	68	9.42%	1	0.14%	14	1.94%
LASSEN	392	327	83.42%	42	10.71%	2	0.51%	21	5.36%
LOS ANGELES	140,591	128,370	91.31%	11,118	7.91%	122	0.09%	981	0.70%
MADERA	2,253	2,111	93.70%	120	5.33%	0	0.00%	22	0.98%
MARIN	2,828	2,500	88.40%	214	7.57%	7	0.25%	107	3.78%
MARIPOSA	169	154	91.12%	9	5.33%	6	3.55%	0	0.00%
MENDOCINO	1,035	875	84.54%	112	10.82%	0	0.00%	48	4.64%
MERCED	4,369	4,206	96.27%	141	3.23%	2	0.05%	20	0.46%
MODOC	142	124	87.32%	15	10.56%	0	0.00%	3	2.11%
MONO	152	131	86.18%	16	10.53%	1	0.66%	4	2.63%
MONTEREY	5,757	5,498	95.50%	217	3.77%	8	0.14%	34	0.59%
NAPA	1,604	1,515	94.45%	65	4.05%	2	0.12%	22	1.37%
NEVADA	1,066	856	80.30%	102	9.57%	7	0.66%	101	9.47%

KINDERGARTEN ASSESSMENT - CALIFORNIA, 2004  
 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	510,074	473,705	92.87%	29,282	5.74%	747	0.15%	6,340	1.24%
COUNTY									
ORANGE	42,822	39,687	92.68%	2,394	5.59%	120	0.28%	621	1.45%
PLACER	4,742	4,295	90.57%	294	6.20%	26	0.55%	127	2.68%
PLUMAS	189	157	83.07%	12	6.35%	0	0.00%	20	10.58%
RI VERSI DE	29,501	28,217	95.65%	1,022	3.46%	55	0.19%	207	0.70%
SACRAMENTO	18,820	16,964	90.14%	1,519	8.07%	18	0.10%	319	1.70%
SAN BENI TO	981	929	94.70%	42	4.28%	1	0.10%	9	0.92%
SAN BERNARDI NO	31,691	30,473	96.16%	880	2.78%	33	0.10%	305	0.96%
SAN DI EGO	40,130	37,784	94.15%	1,637	4.08%	45	0.11%	664	1.65%
SAN FRANCI SCO	5,938	5,308	89.39%	590	9.94%	5	0.08%	35	0.59%
SAN JOAQUI N	10,623	10,187	95.90%	380	3.58%	8	0.08%	48	0.45%
SAN LUI S OBI SPO	2,497	2,322	92.99%	95	3.80%	8	0.32%	72	2.88%
SAN MATEO	8,392	7,760	92.47%	545	6.49%	7	0.08%	80	0.95%
SANTA BARBARA	5,472	5,059	92.45%	262	4.79%	11	0.20%	140	2.56%
SANTA CLARA	22,986	21,613	94.03%	1,066	4.64%	44	0.19%	263	1.14%
SANTA CRUZ	3,063	2,666	87.04%	247	8.06%	10	0.33%	140	4.57%
SHASTA	2,152	1,916	89.03%	133	6.18%	7	0.33%	96	4.46%
SIERRA	31	29	93.55%	1	3.23%	0	0.00%	1	3.23%
SI SKI YOU	466	371	79.61%	42	9.01%	1	0.21%	52	11.16%
SOLANO	5,387	5,056	93.86%	283	5.25%	5	0.09%	43	0.80%
SONOMA	5,879	5,260	89.47%	387	6.58%	6	0.10%	226	3.84%
STANI SLAUS	8,247	7,840	95.06%	272	3.30%	11	0.13%	124	1.50%
SUTTER	1,394	1,353	97.06%	33	2.37%	1	0.07%	7	0.50%
TEHAMA	834	776	93.05%	27	3.24%	1	0.12%	30	3.60%
TRI NI TY	116	97	83.62%	6	5.17%	0	0.00%	13	11.21%
TULARE	7,756	7,443	95.96%	239	3.08%	11	0.14%	63	0.81%
TUOLUMNE	561	512	91.27%	15	2.67%	2	0.36%	32	5.70%
VENTURA	11,729	10,549	89.94%	947	8.07%	33	0.28%	200	1.71%
YOLO	2,251	2,137	94.94%	72	3.20%	2	0.09%	40	1.78%
YUBA	1,064	978	91.92%	70	6.58%	2	0.19%	14	1.32%

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	510,074	492,596	96.57%	494,593	96.96%	506,377	99.28%	494,092	96.87%	501,139	98.25%	503,969	98.80%
COUNTY													
ALAMEDA	18,317	17,482	95.44%	17,553	95.83%	18,135	99.01%	17,525	95.68%	17,887	97.65%	17,975	98.13%
ALPINE	22	18	81.82%	18	81.82%	21	95.45%	18	81.82%	21	95.45%	21	95.45%
AMADOR	330	321	97.27%	324	98.18%	330	100.00%	323	97.88%	326	98.79%	330	100.00%
BUTTE	2,478	2,423	97.78%	2,429	98.02%	2,470	99.68%	2,421	97.70%	2,456	99.11%	2,455	99.07%
CALAVERAS	473	457	96.62%	453	95.77%	470	99.37%	453	95.77%	463	97.89%	468	98.94%
COLUSA	356	348	97.75%	348	97.75%	356	100.00%	347	97.47%	355	99.72%	354	99.44%
CONTRA COSTA	13,691	13,478	98.44%	13,464	98.34%	13,650	99.70%	13,457	98.29%	13,571	99.12%	13,614	99.44%
DEL NORTE	350	344	98.29%	342	97.71%	348	99.43%	341	97.43%	348	99.43%	349	99.71%
EL DORADO	2,174	2,062	94.85%	2,052	94.39%	2,147	98.76%	2,053	94.43%	2,143	98.57%	2,137	98.30%
FRESNO	14,784	14,531	98.29%	14,572	98.57%	14,735	99.67%	14,647	99.07%	14,610	98.82%	14,737	99.68%
GLENN	465	459	98.71%	461	99.14%	463	99.57%	455	97.85%	454	97.63%	464	99.78%
HUMBOLDT	1,482	1,403	94.67%	1,411	95.21%	1,466	98.92%	1,415	95.48%	1,454	98.11%	1,445	97.50%
IMPERIAL	2,642	2,565	97.09%	2,593	98.15%	2,637	99.81%	2,569	97.24%	2,612	98.86%	2,622	99.24%
INYO	193	191	98.96%	191	98.96%	192	99.48%	192	99.48%	193	100.00%	193	100.00%
KERN	13,099	12,720	97.11%	12,814	97.82%	13,031	99.48%	12,773	97.51%	12,852	98.11%	12,985	99.13%
KINGS	2,424	2,378	98.10%	2,397	98.89%	2,421	99.88%	2,390	98.60%	2,408	99.34%	2,413	99.55%
LAKE	722	673	93.21%	679	94.04%	708	98.06%	673	93.21%	701	97.09%	696	96.40%
LASSEN	392	368	93.88%	366	93.37%	388	98.98%	364	92.86%	387	98.72%	381	97.19%
LOS ANGELES	140,591	134,171	95.43%	134,960	95.99%	139,131	98.96%	134,809	95.89%	137,293	97.65%	138,217	98.31%
MADERA	2,253	2,170	96.32%	2,180	96.76%	2,224	98.71%	2,179	96.72%	2,201	97.69%	2,214	98.27%
MARIN	2,828	2,697	95.37%	2,704	95.62%	2,817	99.61%	2,686	94.98%	2,779	98.27%	2,792	98.73%
MARIPOSA	169	163	96.45%	163	96.45%	167	98.82%	162	95.86%	167	98.82%	166	98.22%
MENDOCINO	1,035	964	93.14%	962	92.95%	1,016	98.16%	953	92.08%	997	96.33%	991	95.75%
MERCED	4,369	4,278	97.92%	4,287	98.12%	4,368	99.98%	4,289	98.17%	4,323	98.95%	4,352	99.61%
MODOC	142	135	95.07%	136	95.77%	141	99.30%	133	93.66%	138	97.18%	136	95.77%
MONO	152	149	98.03%	146	96.05%	150	98.68%	142	93.42%	149	98.03%	147	96.71%
MONTEREY	5,757	5,613	97.50%	5,633	97.85%	5,728	99.50%	5,643	98.02%	5,683	98.71%	5,702	99.04%
NAPA	1,604	1,581	98.57%	1,582	98.63%	1,599	99.69%	1,572	98.00%	1,572	98.00%	1,588	99.00%
NEVADA	1,066	990	92.87%	987	92.59%	1,039	97.47%	988	92.68%	1,025	96.15%	1,025	96.15%
ORANGE	42,822	41,381	96.63%	41,459	96.82%	42,642	99.58%	41,333	96.52%	42,269	98.71%	42,464	99.16%

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	510,074	492,596	96.57%	494,593	96.96%	506,377	99.28%	494,092	96.87%	501,139	98.25%	503,969	98.80%
COUNTY													
PLACER	4,742	4,560	96.16%	4,562	96.20%	4,696	99.03%	4,544	95.82%	4,658	98.23%	4,672	98.52%
PLUMAS	189	178	94.18%	179	94.71%	187	98.94%	181	95.77%	187	98.94%	186	98.41%
RIVERSIDE	29,501	29,000	98.30%	29,111	98.68%	29,427	99.75%	29,066	98.53%	29,102	98.65%	29,376	99.58%
SACRAMENTO	18,820	17,706	94.08%	17,808	94.62%	18,486	98.23%	17,849	94.84%	18,397	97.75%	18,475	98.17%
SAN BENITO	981	957	97.55%	961	97.96%	976	99.49%	961	97.96%	973	99.18%	972	99.08%
SAN BERNARDINO	31,691	31,138	98.26%	31,281	98.71%	31,606	99.73%	31,262	98.65%	31,374	99.00%	31,556	99.57%
SAN DIEGO	40,130	39,040	97.28%	39,140	97.53%	39,983	99.63%	39,143	97.54%	39,595	98.67%	39,878	99.37%
SAN FRANCISCO	5,938	5,506	92.72%	5,530	93.13%	5,704	96.06%	5,682	95.69%	5,632	94.85%	5,654	95.22%
SAN JOAQUIN	10,623	10,391	97.82%	10,411	98.00%	10,575	99.55%	10,373	97.65%	10,475	98.61%	10,553	99.34%
SAN LUIS OBISPO	2,497	2,450	98.12%	2,461	98.56%	2,492	99.80%	2,435	97.52%	2,466	98.76%	2,480	99.32%
SAN MATEO	8,392	8,067	96.13%	8,094	96.45%	8,336	99.33%	8,045	95.87%	8,256	98.38%	8,299	98.89%
SANTA BARBARA	5,472	5,318	97.19%	5,329	97.39%	5,448	99.56%	5,325	97.31%	5,396	98.61%	5,428	99.20%
SANTA CLARA	22,986	22,364	97.29%	22,421	97.54%	22,840	99.36%	22,444	97.64%	22,645	98.52%	22,751	98.98%
SANTA CRUZ	3,063	2,941	96.02%	2,941	96.02%	3,019	98.56%	2,904	94.81%	2,989	97.58%	3,013	98.37%
SHASTA	2,152	2,052	95.35%	2,065	95.96%	2,126	98.79%	2,061	95.77%	2,114	98.23%	2,105	97.82%
SIERRA	31	31	100.00%	31	100.00%	31	100.00%	31	100.00%	30	96.77%	31	100.00%
SISKIYOU	466	437	93.78%	439	94.21%	461	98.93%	436	93.56%	455	97.64%	451	96.78%
SOLANO	5,387	5,247	97.40%	5,280	98.01%	5,354	99.39%	5,266	97.75%	5,315	98.66%	5,332	98.98%
SONOMA	5,879	5,653	96.16%	5,674	96.51%	5,840	99.34%	5,644	96.00%	5,759	97.96%	5,762	98.01%
STANISLAUS	8,247	8,076	97.93%	8,115	98.40%	8,222	99.70%	8,112	98.36%	8,168	99.04%	8,206	99.50%
SUTTER	1,394	1,373	98.49%	1,376	98.71%	1,393	99.93%	1,381	99.07%	1,389	99.64%	1,387	99.50%
TEHAMA	834	820	98.32%	821	98.44%	832	99.76%	820	98.32%	823	98.68%	829	99.40%
TRINITY	116	110	94.83%	110	94.83%	115	99.14%	112	96.55%	116	100.00%	116	100.00%
TULARE	7,756	7,623	98.29%	7,632	98.40%	7,752	99.95%	7,641	98.52%	7,659	98.75%	7,733	99.70%
TUOLUMNE	561	551	98.22%	552	98.40%	559	99.64%	554	98.75%	559	99.64%	558	99.47%
VENTURA	11,729	11,271	96.10%	11,367	96.91%	11,630	99.16%	11,278	96.15%	11,502	98.06%	11,454	97.66%
YOLO	2,251	2,209	98.13%	2,212	98.27%	2,238	99.42%	2,219	98.58%	2,218	98.53%	2,227	98.93%
YUBA	1,064	1,014	95.30%	1,024	96.24%	1,059	99.53%	1,018	95.68%	1,050	98.68%	1,052	98.87%

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	8,510	5,569	65.44%	2,941	34.56%
COUNTY					
ALAMEDA	341	216	63.34%	125	36.66%
ALPINE	2	1	50.00%	1	50.00%
AMADOR	9	7	77.78%	2	22.22%
BUTTE	62	50	80.65%	12	19.35%
CALAVERAS	12	11	91.67%	1	8.33%
COLUSA	6	5	83.33%	1	16.67%
CONTRA COSTA	233	148	63.52%	85	36.48%
DEL NORTE	12	9	75.00%	3	25.00%
EL DORADO	43	32	74.42%	11	25.58%
FRESNO	211	177	83.89%	34	16.11%
GLENN	11	10	90.91%	1	9.09%
HUMBOLDT	60	50	83.33%	10	16.67%
IMPERIAL	46	36	78.26%	10	21.74%
INYO	7	7	100.00%	0	0.00%
KERN	176	138	78.41%	38	21.59%
KINGS	37	29	78.38%	8	21.62%
LAKE	17	12	70.59%	5	29.41%
LASSEN	14	12	85.71%	2	14.29%
LOS ANGELES	2,207	1,227	55.60%	980	44.40%
MADERA	36	32	88.89%	4	11.11%
MARIN	79	46	58.23%	33	41.77%
MARIPOSA	10	10	100.00%	0	0.00%
MENDOCINO	36	28	77.78%	8	22.22%
MERCED	67	53	79.10%	14	20.90%
MODOC	8	7	87.50%	1	12.50%
MONO	8	6	75.00%	2	25.00%
MONTEREY	82	69	84.15%	13	15.85%
NAPA	40	28	70.00%	12	30.00%
NEVADA	34	28	82.35%	6	17.65%

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	8,510	5,569	65.44%	2,941	34.56%
COUNTY					
ORANGE	690	390	56.52%	300	43.48%
PLACER	82	60	73.17%	22	26.83%
PLUMAS	8	6	75.00%	2	25.00%
RIVERSIDE	390	260	66.67%	130	33.33%
SACRAMENTO	325	230	70.77%	95	29.23%
SAN BENITO	19	15	78.95%	4	21.05%
SAN BERNARDINO	443	307	69.30%	136	30.70%
SAN DIEGO	649	421	64.87%	228	35.13%
SAN FRANCISCO	151	78	51.66%	73	48.34%
SAN JOAQUIN	165	126	76.36%	39	23.64%
SAN LUIS OBISPO	60	42	70.00%	18	30.00%
SAN MATEO	182	107	58.79%	75	41.21%
SANTA BARBARA	101	75	74.26%	26	25.74%
SANTA CLARA	377	236	62.60%	141	37.40%
SANTA CRUZ	57	39	68.42%	18	31.58%
SHASTA	61	48	78.69%	13	21.31%
SILVERA	4	4	100.00%	0	0.00%
SISKIYOU	28	25	89.29%	3	10.71%
SOLANO	83	59	71.08%	24	28.92%
SONOMA	133	97	72.93%	36	27.07%
STANISLAUS	128	101	78.91%	27	21.09%
SUTTER	34	28	82.35%	6	17.65%
TEHAMA	23	21	91.30%	2	8.70%
TRINITY	11	11	100.00%	0	0.00%
TULARE	107	93	86.92%	14	13.08%
TUOLUMNE	18	13	72.22%	5	27.78%
VENTURA	208	138	66.35%	70	33.65%
YOLO	42	33	78.57%	9	21.43%
YUBA	25	22	88.00%	3	12.00%