

2004-2005 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 children 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 8,510 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 this fall's kindergarten immunization 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 95% 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 the 2001-2002 school year.

Table 1: Kindergarten Immunization Assessment, 2000-2001 thru 2004-2005 School Years

	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
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+	95.4%	95.3%	95.4%	95.2%	95.2%
Polio 3+	96.0%	95.8%	96.0%	95.6%	95.6%
MMR 2+	95.4%	95.3%	95.7%	95.6%	95.5%
Hep B 3+	96.4%	96.4%	96.9%	96.8%	96.9%
Varicella 1+	n/a	95.6%	97.0%	97.3%	97.4%

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 IMMUNIZATION ASSESSMENT - CALIFORNIA, 2004-2005

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	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%

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%
RIVERSIDE	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 BENITO	981	929	94.70%	42	4.28%	1	0.10%	9	0.92%
SAN BERNARDINO	31,691	30,473	96.16%	880	2.78%	33	0.10%	305	0.96%
SAN DIEGO	40,130	37,784	94.15%	1,637	4.08%	45	0.11%	664	1.65%
SAN FRANCISCO	5,938	5,308	89.39%	590	9.94%	5	0.08%	35	0.59%
SAN JOAQUIN	10,623	10,187	95.90%	380	3.58%	8	0.08%	48	0.45%
SAN LUIS OBISPO	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%
SISKIYOU	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%
STANISLAUS	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%
TRINITY	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	485,509	95.18%	487,506	95.58%	499,290	97.89%	487,005	95.48%	494,052	96.86%	496,882	97.41%
COUNTY													
ALAMEDA	18,317	17,271	94.29%	17,342	94.68%	17,924	97.85%	17,314	94.52%	17,676	96.50%	17,764	96.98%
ALPINE	22	16	72.73%	16	72.73%	19	86.36%	16	72.73%	19	86.36%	19	86.36%
AMADOR	330	317	96.06%	320	96.97%	326	98.79%	319	96.67%	322	97.58%	326	98.79%
BUTTE	2,478	2,324	93.79%	2,330	94.03%	2,371	95.68%	2,322	93.70%	2,357	95.12%	2,356	95.08%
CALAVERAS	473	431	91.12%	427	90.27%	444	93.87%	427	90.27%	437	92.39%	442	93.45%
COLUSA	356	345	96.91%	345	96.91%	353	99.16%	344	96.63%	352	98.88%	351	98.60%
CONTRA COSTA	13,691	13,270	96.92%	13,256	96.82%	13,442	98.18%	13,249	96.77%	13,363	97.60%	13,406	97.92%
DEL NORTE	350	327	93.43%	325	92.86%	331	94.57%	324	92.57%	331	94.57%	332	94.86%
EL DORADO	2,174	1,948	89.60%	1,938	89.14%	2,033	93.51%	1,939	89.19%	2,029	93.33%	2,023	93.05%
FRESNO	14,784	14,439	97.67%	14,480	97.94%	14,643	99.05%	14,555	98.45%	14,518	98.20%	14,645	99.06%
GLENN	465	457	98.28%	459	98.71%	461	99.14%	453	97.42%	452	97.20%	462	99.35%
HUMBOLDT	1,482	1,289	86.98%	1,297	87.52%	1,352	91.23%	1,301	87.79%	1,340	90.42%	1,331	89.81%
IMPERIAL	2,642	2,555	96.71%	2,583	97.77%	2,627	99.43%	2,559	96.86%	2,602	98.49%	2,612	98.86%
INYO	193	187	96.89%	187	96.89%	188	97.41%	188	97.41%	189	97.93%	189	97.93%
KERN	13,099	12,549	95.80%	12,643	96.52%	12,860	98.18%	12,602	96.21%	12,681	96.81%	12,814	97.82%
KINGS	2,424	2,367	97.65%	2,386	98.43%	2,410	99.42%	2,379	98.14%	2,397	98.89%	2,402	99.09%
LAKE	722	658	91.14%	664	91.97%	693	95.98%	658	91.14%	686	95.01%	681	94.32%
LASSEN	392	345	88.01%	343	87.50%	365	93.11%	341	86.99%	364	92.86%	358	91.33%
LOS ANGELES	140,591	133,068	94.65%	133,857	95.21%	138,028	98.18%	133,706	95.10%	136,190	96.87%	137,114	97.53%
MADERA	2,253	2,148	95.34%	2,158	95.78%	2,202	97.74%	2,157	95.74%	2,179	96.72%	2,192	97.29%
MARIN	2,828	2,583	91.34%	2,590	91.58%	2,703	95.58%	2,572	90.95%	2,665	94.24%	2,678	94.70%
MARIPOSA	169	157	92.90%	157	92.90%	161	95.27%	156	92.31%	161	95.27%	160	94.67%
MENDOCINO	1,035	916	88.50%	914	88.31%	968	93.53%	905	87.44%	949	91.69%	943	91.11%
MERCED	4,369	4,256	97.41%	4,265	97.62%	4,346	99.47%	4,267	97.67%	4,301	98.44%	4,330	99.11%
MODOC	142	132	92.96%	133	93.66%	138	97.18%	130	91.55%	135	95.07%	133	93.66%
MONO	152	144	94.74%	141	92.76%	145	95.39%	137	90.13%	144	94.74%	142	93.42%
MONTEREY	5,757	5,571	96.77%	5,591	97.12%	5,686	98.77%	5,601	97.29%	5,641	97.99%	5,660	98.32%
NAPA	1,604	1,557	97.07%	1,558	97.13%	1,575	98.19%	1,548	96.51%	1,548	96.51%	1,564	97.51%
NEVADA	1,066	882	82.74%	879	82.46%	931	87.34%	880	82.55%	917	86.02%	917	86.02%

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	485,509	95.18%	487,506	95.58%	499,290	97.89%	487,005	95.48%	494,052	96.86%	496,882	97.41%
COUNTY													
ORANGE	42,822	40,640	94.90%	40,718	95.09%	41,901	97.85%	40,592	94.79%	41,528	96.98%	41,723	97.43%
PLACER	4,742	4,407	92.94%	4,409	92.98%	4,543	95.80%	4,391	92.60%	4,505	95.00%	4,519	95.30%
PLUMAS	189	158	83.60%	159	84.13%	167	88.36%	161	85.19%	167	88.36%	166	87.83%
RIVERSIDE	29,501	28,738	97.41%	28,849	97.79%	29,165	98.86%	28,804	97.64%	28,840	97.76%	29,114	98.69%
SACRAMENTO	18,820	17,369	92.29%	17,471	92.83%	18,149	96.43%	17,512	93.05%	18,060	95.96%	18,138	96.38%
SAN BENITO	981	947	96.53%	951	96.94%	966	98.47%	951	96.94%	963	98.17%	962	98.06%
SAN BERNARDINO	31,691	30,800	97.19%	30,943	97.64%	31,268	98.67%	30,924	97.58%	31,036	97.93%	31,218	98.51%
SAN DIEGO	40,130	38,331	95.52%	38,431	95.77%	39,274	97.87%	38,434	95.77%	38,886	96.90%	39,169	97.61%
SAN FRANCISCO	5,938	5,466	92.05%	5,490	92.46%	5,664	95.39%	5,642	95.02%	5,592	94.17%	5,614	94.54%
SAN JOAQUIN	10,623	10,335	97.29%	10,355	97.48%	10,519	99.02%	10,317	97.12%	10,419	98.08%	10,497	98.81%
SAN LUIS OBISPO	2,497	2,370	94.91%	2,381	95.35%	2,412	96.60%	2,355	94.31%	2,386	95.55%	2,400	96.12%
SAN MATEO	8,392	7,980	95.09%	8,007	95.41%	8,249	98.30%	7,958	94.83%	8,169	97.34%	8,212	97.86%
SANTA BARBARA	5,472	5,167	94.43%	5,178	94.63%	5,297	96.80%	5,174	94.55%	5,245	95.85%	5,277	96.44%
SANTA CLARA	22,986	22,057	95.96%	22,114	96.21%	22,533	98.03%	22,137	96.31%	22,338	97.18%	22,444	97.64%
SANTA CRUZ	3,063	2,791	91.12%	2,791	91.12%	2,869	93.67%	2,754	89.91%	2,839	92.69%	2,863	93.47%
SHASTA	2,152	1,949	90.57%	1,962	91.17%	2,023	94.01%	1,958	90.99%	2,011	93.45%	2,002	93.03%
SIERRA	31	30	96.77%	30	96.77%	30	96.77%	30	96.77%	29	93.55%	30	96.77%
SISKIYOU	466	384	82.40%	386	82.83%	408	87.55%	383	82.19%	402	86.27%	398	85.41%
SOLANO	5,387	5,199	96.51%	5,232	97.12%	5,306	98.50%	5,218	96.86%	5,267	97.77%	5,284	98.09%
SONOMA	5,879	5,421	92.21%	5,442	92.57%	5,608	95.39%	5,412	92.06%	5,527	94.01%	5,530	94.06%
STANISLAUS	8,247	7,941	96.29%	7,980	96.76%	8,087	98.06%	7,977	96.73%	8,033	97.41%	8,071	97.87%
SUTTER	1,394	1,365	97.92%	1,368	98.13%	1,385	99.35%	1,373	98.49%	1,381	99.07%	1,379	98.92%
TEHAMA	834	789	94.60%	790	94.72%	801	96.04%	789	94.60%	792	94.96%	798	95.68%
TRINITY	116	97	83.62%	97	83.62%	102	87.93%	99	85.34%	103	88.79%	103	88.79%
TULARE	7,756	7,549	97.33%	7,558	97.45%	7,678	98.99%	7,567	97.56%	7,585	97.80%	7,659	98.75%
TUOLUMNE	561	517	92.16%	518	92.34%	525	93.58%	520	92.69%	525	93.58%	524	93.40%
VENTURA	11,729	11,038	94.11%	11,134	94.93%	11,397	97.17%	11,045	94.17%	11,269	96.08%	11,221	95.67%
YOLO	2,251	2,167	96.27%	2,170	96.40%	2,196	97.56%	2,177	96.71%	2,176	96.67%	2,185	97.07%
YUBA	1,064	998	93.80%	1,008	94.74%	1,043	98.03%	1,002	94.17%	1,034	97.18%	1,036	97.37%

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%
SIERRA	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%