

2002-2003 KINDERGARTEN IMMUNIZATION ASSESSMENT RESULTS

The California Department of Health Services, Immunization Branch (IZ) and local health departments conduct school assessments each fall to monitor compliance with California school immunization law. Assessments are performed at licensed childcare/Head Start centers, kindergartens, and seventh grade schools. Each September, assessment forms are sent out to California schools and childcare centers for completion by school staffs.

8,646 kindergartens reported with active enrollment for the school year 2002-2003. Our analysis of immunization coverage level was based on the students enrolled in these schools. The total enrollment reported by these schools was 519,397 kindergarten students, a slight decrease as compared to previous years (table 1).

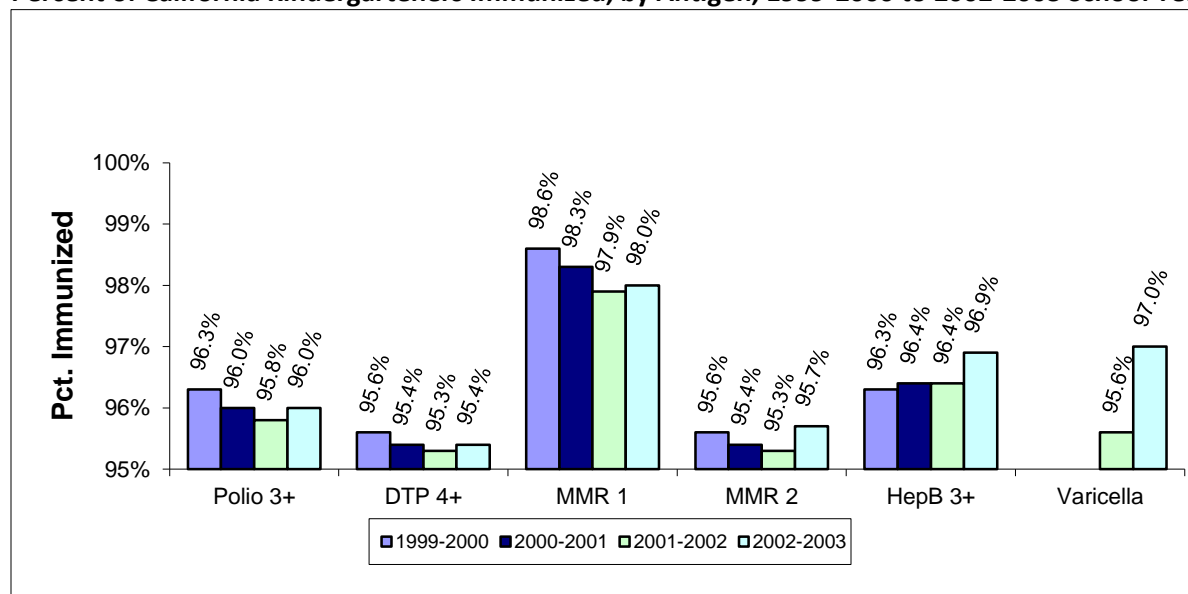
Table 1: Kindergarten Immunization Assessment, 1999-2000 to 2002-2003 School Years

	1999-2000	2000-2001	2001-2002	2002-2003
Number of Schools	8,539	8,473	8,705	8,646
Number of Students	527,640	526,466	523,516	519,397
Pct. With all Req. Imm.¹	91.9%	92.2%	90.9%	92.3%

This year's immunization assessment showed the percent of kindergarten students with all required immunizations is 92.3%², slightly higher than last year (table 1). All individual antigen coverage levels exceed 95% (figure 1). The coverage level for varicella³ vaccine alone is higher than last year, at 97.0% (figure 1); it has only been a requirement since 2001. Fourth dose of DTP has the lowest coverage level among individual antigens; this is a continual trend from previous years.

Figure 1

Percent of California Kindergarteners Immunized, by Antigen, 1999-2000 to 2002-2003 School Years



Source: Kindergarten Immunization Assessment: 1999-2000 to 2002-2003 School Years

Prepared by California Department of Health Services, Immunization Branch

¹ 3+ Polio, 4+ DTP/DTaP, 1+ MMR, 3+ Hep B, and Varicella.

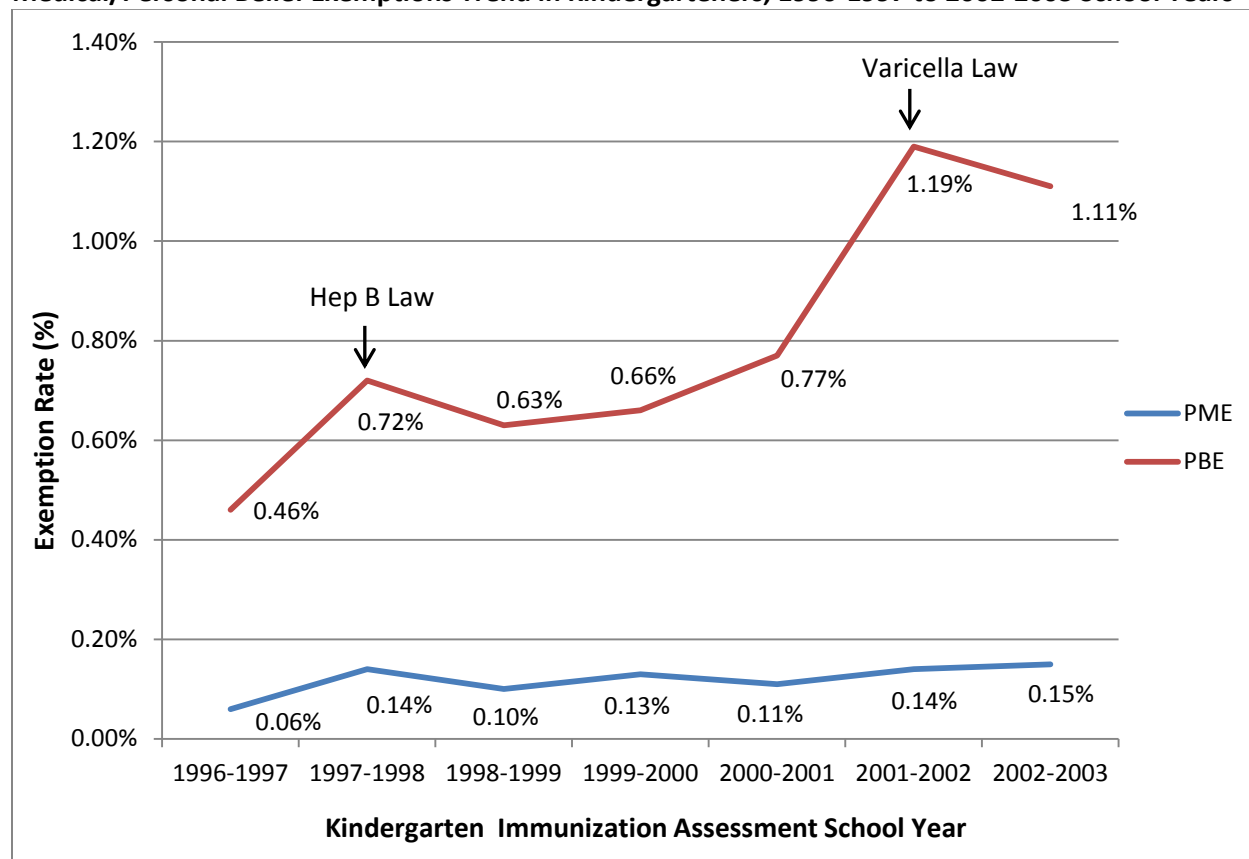
² Denominator includes PBEs and PMEs.

³ One dose of varicella vaccine or physician documented disease/immunity.

This year, 0.15% and 1.11% of kindergarten students had permanent medical exemptions (PME) and personal belief exemptions (PBE), respectively. We are pleased to note the percentage of children with PBEs is lower than last year.

Figure 2

Medical/Personal Belief Exemptions Trend in Kindergarteners, 1996-1997 to 2002-2003 School Years



Source: Kindergarten Immunization Assessment: 1996-1997 to 2002-2003 School Years

Prepared by California Department of Health Services, Immunization Branch

Statewide breakdowns by health departments and type of school are enclosed in the Coordinator Updates. Data by school district will be sent to County Immunization Coordinators. Data by school district and by individual school are also available upon request. For further information regarding the Kindergarten Assessment, please contact Nadine Wei at 510/540-2993(e-mail nwei@dhs.ca.gov) or Madina Sharifi at 510/ 540-3147(e-mail msharifi@dhs.ca.gov).

KINDERGARTEN IMMUNIZATION ASSESSMENT - CALIFORNIA, 2002-2003

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	519,397	479,348	92.29%	33,523	6.45%	784	0.15%	5,742	1.11%
COUNTY									
ALAMEDA	18,574	16,849	90.71%	1,547	8.33%	39	0.21%	139	0.75%
ALPINE	18	16	88.89%	2	11.11%	0	0.00%	0	0.00%
AMADOR	344	334	97.09%	6	1.74%	0	0.00%	4	1.16%
BUTTE	2,433	2,238	91.99%	102	4.19%	8	0.33%	85	3.49%
CALAVERAS	427	390	91.33%	11	2.58%	4	0.94%	22	5.15%
COLUSA	320	297	92.81%	19	5.94%	0	0.00%	4	1.25%
CONTRA COSTA	13,728	13,112	95.51%	413	3.01%	18	0.13%	185	1.35%
DEL NORTE	345	332	96.23%	7	2.03%	1	0.29%	5	1.45%
EL DORADO	2,043	1,840	90.06%	116	5.68%	4	0.20%	83	4.06%
FRESNO	14,653	14,020	95.68%	553	3.77%	9	0.06%	71	0.48%
GLENN	465	444	95.48%	17	3.66%	0	0.00%	4	0.86%
HUMBOLDT	1,488	1,322	88.84%	86	5.78%	17	1.14%	63	4.23%
IMPERIAL	2,598	2,453	94.42%	140	5.39%	1	0.04%	4	0.15%
INYO	225	215	95.56%	10	4.44%	0	0.00%	0	0.00%
KERN	12,078	11,167	92.46%	726	6.01%	47	0.39%	138	1.14%
KINGS	2,335	2,229	95.46%	92	3.94%	2	0.09%	12	0.51%
LAKE	744	635	85.35%	87	11.69%	3	0.40%	19	2.55%
LASSEN	395	306	77.47%	72	18.23%	1	0.25%	16	4.05%
LOS ANGELES	148,609	134,840	90.73%	12,748	8.58%	133	0.09%	888	0.60%
MADERA	2,259	2,113	93.54%	130	5.75%	1	0.04%	15	0.66%
MARIN	2,741	2,491	90.88%	142	5.18%	6	0.22%	102	3.72%
MARIPOSA	194	177	91.24%	10	5.15%	1	0.52%	6	3.09%
MENDOCINO	1,071	900	84.03%	120	11.20%	0	0.00%	51	4.76%
MERCED	4,131	3,954	95.72%	161	3.90%	1	0.02%	15	0.36%
MODOC	133	121	90.98%	4	3.01%	1	0.75%	7	5.26%
MONO	158	140	88.61%	12	7.59%	1	0.63%	5	3.16%
MONTEREY	6,315	5,968	94.51%	277	4.39%	6	0.10%	64	1.01%
NAPA	1,599	1,496	93.56%	70	4.38%	0	0.00%	33	2.06%
NEVADA	1,044	825	79.02%	86	8.24%	1	0.10%	132	12.64%

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BY COUNTY

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	NUMBER	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
STATE TOTAL	519,397	479,348	92.29%	33,523	6.45%	784	0.15%	5,742	1.11%
COUNTY									
ORANGE	44,374	41,304	93.08%	2,516	5.67%	119	0.27%	435	0.98%
PLACER	4,555	4,124	90.54%	240	5.27%	8	0.18%	183	4.02%
PLUMAS	206	188	91.26%	8	3.88%	0	0.00%	10	4.85%
RIVERSIDE	27,588	26,080	94.53%	1,286	4.66%	36	0.13%	186	0.67%
SACRAMENTO	18,568	16,528	89.01%	1,832	9.87%	18	0.10%	190	1.02%
SAN BENITO	992	938	94.56%	46	4.64%	1	0.10%	7	0.71%
SAN BERNARDINO	30,569	29,098	95.19%	1,175	3.84%	47	0.15%	249	0.81%
SAN DIEGO	40,981	38,537	94.04%	1,764	4.30%	40	0.10%	640	1.56%
SAN FRANCISCO	6,634	6,006	90.53%	580	8.74%	5	0.08%	43	0.65%
SAN JOAQUIN	10,236	9,648	94.26%	507	4.95%	23	0.22%	58	0.57%
SAN LUIS OBISPO	2,671	2,456	91.95%	117	4.38%	12	0.45%	86	3.22%
SAN MATEO	8,295	7,564	91.19%	626	7.55%	18	0.22%	87	1.05%
SANTA BARBARA	5,628	5,169	91.84%	324	5.76%	4	0.07%	131	2.33%
SANTA CLARA	24,617	22,826	92.72%	1,519	6.17%	68	0.28%	204	0.83%
SANTA CRUZ	3,351	2,941	87.76%	216	6.45%	12	0.36%	182	5.43%
SHASTA	2,141	1,892	88.37%	158	7.38%	6	0.28%	85	3.97%
SIERRA	38	29	76.32%	7	18.42%	0	0.00%	2	5.26%
SISKIYOU	459	389	84.75%	28	6.10%	0	0.00%	42	9.15%
SOLANO	5,708	5,368	94.04%	296	5.19%	6	0.11%	38	0.67%
SONOMA	5,733	5,250	91.58%	265	4.62%	12	0.21%	206	3.59%
STANISLAUS	8,194	7,714	94.14%	348	4.25%	9	0.11%	123	1.50%
SUTTER	1,366	1,278	93.56%	79	5.78%	2	0.15%	7	0.51%
TEHAMA	800	724	90.50%	50	6.25%	2	0.25%	24	3.00%
TRINITY	112	109	97.32%	2	1.79%	0	0.00%	1	0.89%
TULARE	7,441	7,086	95.23%	301	4.05%	2	0.03%	52	0.70%
TUOLUMNE	551	480	87.11%	33	5.99%	0	0.00%	38	6.90%
VENTURA	12,445	11,094	89.14%	1,131	9.09%	26	0.21%	194	1.56%
YOLO	2,438	2,244	92.04%	152	6.23%	3	0.12%	39	1.60%
YUBA	1,239	1,060	85.55%	151	12.19%	0	0.00%	28	2.26%

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	519,397	495,240	95.35%	498,423	95.96%	509,192	98.04%	497,200	95.73%	503,099	96.86%	503,957	97.03%
COUNTY													
ALAMEDA	18,574	17,551	94.49%	17,677	95.17%	18,183	97.89%	17,651	95.03%	17,885	96.29%	17,892	96.33%
ALPINE	18	17	94.44%	17	94.44%	18	100.00%	16	88.89%	18	100.00%	17	94.44%
AMADOR	344	337	97.97%	338	98.26%	340	98.84%	337	97.97%	337	97.97%	339	98.55%
BUTTE	2,433	2,268	93.22%	2,285	93.92%	2,327	95.64%	2,282	93.79%	2,315	95.15%	2,304	94.70%
CALAVERAS	427	393	92.04%	396	92.74%	400	93.68%	396	92.74%	398	93.21%	396	92.74%
COLUSA	320	303	94.69%	303	94.69%	316	98.75%	303	94.69%	316	98.75%	311	97.19%
CONTRA COSTA	13,728	13,298	96.87%	13,338	97.16%	13,507	98.39%	13,308	96.94%	13,408	97.67%	13,451	97.98%
DEL NORTE	345	335	97.10%	336	97.39%	338	97.97%	335	97.10%	335	97.10%	338	97.97%
EL DORADO	2,043	1,884	92.22%	1,890	92.51%	1,932	94.57%	1,902	93.10%	1,938	94.86%	1,928	94.37%
FRESNO	14,653	14,291	97.53%	14,375	98.10%	14,540	99.23%	14,372	98.08%	14,381	98.14%	14,479	98.81%
GLENN	465	452	97.20%	451	96.99%	459	98.71%	453	97.42%	457	98.28%	457	98.28%
HUMBOLDT	1,488	1,369	92.00%	1,369	92.00%	1,385	93.08%	1,364	91.67%	1,382	92.88%	1,376	92.47%
IMPERIAL	2,598	2,540	97.77%	2,549	98.11%	2,585	99.50%	2,526	97.23%	2,544	97.92%	2,558	98.46%
INYO	225	220	97.78%	222	98.67%	223	99.11%	223	99.11%	220	97.78%	219	97.33%
KERN	12,078	11,507	95.27%	11,620	96.21%	11,866	98.24%	11,625	96.25%	11,680	96.70%	11,781	97.54%
KINGS	2,335	2,290	98.07%	2,299	98.46%	2,319	99.31%	2,295	98.29%	2,280	97.64%	2,296	98.33%
LAKE	744	679	91.26%	691	92.88%	712	95.70%	686	92.20%	707	95.03%	676	90.86%
LASSEN	395	341	86.33%	344	87.09%	368	93.16%	340	86.08%	367	92.91%	342	86.58%
LOS ANGELES	148,609	141,127	94.97%	142,221	95.70%	145,741	98.07%	142,136	95.64%	143,820	96.78%	143,940	96.86%
MADERA	2,259	2,155	95.40%	2,175	96.28%	2,213	97.96%	2,170	96.06%	2,187	96.81%	2,199	97.34%
MARIN	2,741	2,564	93.54%	2,574	93.91%	2,614	95.37%	2,556	93.25%	2,585	94.31%	2,579	94.09%
MARIPOSA	194	181	93.30%	182	93.81%	185	95.36%	185	95.36%	186	95.88%	185	95.36%
MENDOCINO	1,071	947	88.42%	956	89.26%	1,013	94.58%	954	89.08%	1,000	93.37%	992	92.62%
MERCED	4,131	4,030	97.56%	4,055	98.16%	4,102	99.30%	4,035	97.68%	4,061	98.31%	4,080	98.77%
MODOC	133	123	92.48%	122	91.73%	125	93.98%	123	92.48%	125	93.98%	123	92.48%
MONO	158	148	93.67%	149	94.30%	152	96.20%	147	93.04%	144	91.14%	149	94.30%
MONTEREY	6,315	6,104	96.66%	6,119	96.90%	6,214	98.40%	6,126	97.01%	6,142	97.26%	6,170	97.70%
NAPA	1,599	1,540	96.31%	1,545	96.62%	1,562	97.69%	1,534	95.93%	1,535	96.00%	1,551	97.00%
NEVADA	1,044	854	81.80%	855	81.90%	890	85.25%	856	81.99%	886	84.87%	868	83.14%

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	519,397	495,240	95.35%	498,423	95.96%	509,192	98.04%	497,200	95.73%	503,099	96.86%	503,957	97.03%
COUNTY													
ORANGE	44,374	42,557	95.91%	42,740	96.32%	43,662	98.40%	42,468	95.70%	43,251	97.47%	43,311	97.60%
PLACER	4,555	4,216	92.56%	4,240	93.08%	4,339	95.26%	4,250	93.30%	4,308	94.58%	4,315	94.73%
PLUMAS	206	193	93.69%	193	93.69%	196	95.15%	195	94.66%	195	94.66%	193	93.69%
RIVERSIDE	27,588	26,763	97.01%	26,936	97.64%	27,325	99.05%	26,815	97.20%	26,941	97.65%	27,157	98.44%
SACRAMENTO	18,568	17,195	92.61%	17,367	93.53%	18,218	98.12%	17,303	93.19%	17,877	96.28%	17,844	96.10%
SAN BENITO	992	960	96.77%	971	97.88%	980	98.79%	968	97.58%	969	97.68%	972	97.98%
SAN BERNARDINO	30,569	29,508	96.53%	29,681	97.10%	30,081	98.40%	29,789	97.45%	29,829	97.58%	29,935	97.93%
SAN DIEGO	40,981	39,255	95.79%	39,438	96.23%	40,154	97.98%	39,354	96.03%	39,785	97.08%	39,942	97.46%
SAN FRANCISCO	6,634	6,256	94.30%	6,246	94.15%	6,406	96.56%	6,314	95.18%	6,359	95.85%	6,307	95.07%
SAN JOAQUIN	10,236	9,850	96.23%	9,956	97.26%	10,123	98.90%	9,941	97.12%	9,985	97.55%	10,051	98.19%
SAN LUIS OBISPO	2,671	2,517	94.23%	2,525	94.53%	2,564	95.99%	2,516	94.20%	2,542	95.17%	2,529	94.68%
SAN MATEO	8,295	7,841	94.53%	7,869	94.86%	8,157	98.34%	7,825	94.33%	8,055	97.11%	8,053	97.08%
SANTA BARBARA	5,628	5,329	94.69%	5,363	95.29%	5,472	97.23%	5,328	94.67%	5,388	95.74%	5,434	96.55%
SANTA CLARA	24,617	23,621	95.95%	23,779	96.60%	24,273	98.60%	23,566	95.73%	23,983	97.42%	24,028	97.61%
SANTA CRUZ	3,351	3,051	91.05%	3,076	91.79%	3,133	93.49%	3,060	91.32%	3,091	92.24%	3,080	91.91%
SHASTA	2,141	1,954	91.27%	1,966	91.83%	2,023	94.49%	1,958	91.45%	2,007	93.74%	1,980	92.48%
SIERRA	38	33	86.84%	33	86.84%	35	92.11%	30	78.95%	34	89.47%	33	86.84%
SISKIYOU	459	403	87.80%	405	88.24%	413	89.98%	407	88.67%	408	88.89%	413	89.98%
SOLANO	5,708	5,510	96.53%	5,544	97.13%	5,630	98.63%	5,510	96.53%	5,565	97.49%	5,591	97.95%
SONOMA	5,733	5,390	94.02%	5,401	94.21%	5,486	95.69%	5,381	93.86%	5,415	94.45%	5,419	94.52%
STANISLAUS	8,194	7,895	96.35%	7,916	96.61%	8,037	98.08%	7,891	96.30%	7,941	96.91%	7,973	97.30%
SUTTER	1,366	1,321	96.71%	1,322	96.78%	1,355	99.19%	1,316	96.34%	1,340	98.10%	1,333	97.58%
TEHAMA	800	750	93.75%	761	95.13%	771	96.38%	754	94.25%	765	95.63%	753	94.13%
TRINITY	112	110	98.21%	111	99.11%	111	99.11%	110	98.21%	109	97.32%	110	98.21%
TULARE	7,441	7,235	97.23%	7,265	97.63%	7,360	98.91%	7,281	97.85%	7,295	98.04%	7,334	98.56%
TUOLUMNE	551	488	88.57%	486	88.20%	510	92.56%	488	88.57%	500	90.74%	502	91.11%
VENTURA	12,445	11,745	94.38%	11,902	95.64%	12,164	97.74%	11,684	93.89%	11,999	96.42%	11,857	95.28%
YOLO	2,438	2,327	95.45%	2,344	96.14%	2,390	98.03%	2,336	95.82%	2,346	96.23%	2,357	96.68%
YUBA	1,239	1,119	90.31%	1,134	91.53%	1,195	96.45%	1,126	90.88%	1,178	95.08%	1,155	93.22%

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	8,646	5,512	63.75%	3,134	36.25%
COUNTY					
ALAMEDA	360	212	58.89%	148	41.11%
ALPINE	4	3	75.00%	1	25.00%
AMADOR	9	6	66.67%	3	33.33%
BUTTE	64	48	75.00%	16	25.00%
CALAVERAS	14	12	85.71%	2	14.29%
COLUSA	6	5	83.33%	1	16.67%
CONTRA COSTA	240	150	62.50%	90	37.50%
DEL NORTE	11	9	81.82%	2	18.18%
EL DORADO	44	32	72.73%	12	27.27%
FRESNO	209	171	81.82%	38	18.18%
GLENN	12	10	83.33%	2	16.67%
HUMBOLDT	63	52	82.54%	11	17.46%
IMPERIAL	46	36	78.26%	10	21.74%
INYO	9	8	88.89%	1	11.11%
KERN	178	137	76.97%	41	23.03%
KINGS	37	30	81.08%	7	18.92%
LAKE	17	12	70.59%	5	29.41%
LASSEN	14	12	85.71%	2	14.29%
LOS ANGELES	2,263	1,217	53.78%	1,046	46.22%
MADERA	37	34	91.89%	3	8.11%
MARIN	77	44	57.14%	33	42.86%
MARIPOSA	10	9	90.00%	1	10.00%
MENDOCINO	36	29	80.56%	7	19.44%
MERCED	63	47	74.60%	16	25.40%
MODOC	8	7	87.50%	1	12.50%
MONO	8	7	87.50%	1	12.50%
MONTEREY	92	73	79.35%	19	20.65%
NAPA	42	27	64.29%	15	35.71%
NEVADA	32	27	84.38%	5	15.63%

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		PUBLIC		PRIVATE	
		NUMBER OF SCHOOLS	PERCENT OF TOTAL	NUMBER OF SCHOOLS	PERCENT OF TOTAL
STATE TOTAL	8,646	5,512	63.75%	3,134	36.25%
COUNTY					
ORANGE	687	383	55.75%	304	44.25%
PLACER	80	62	77.50%	18	22.50%
PLUMAS	7	6	85.71%	1	14.29%
RIVERSIDE	375	237	63.20%	138	36.80%
SACRAMENTO	326	228	69.94%	98	30.06%
SAN BENITO	20	15	75.00%	5	25.00%
SAN BERNARDINO	432	298	68.98%	134	31.02%
SAN DIEGO	664	417	62.80%	247	37.20%
SAN FRANCISCO	157	77	49.04%	80	50.96%
SAN JOAQUIN	161	121	75.16%	40	24.84%
SAN LUIS OBISPO	62	44	70.97%	18	29.03%
SAN MATEO	183	108	59.02%	75	40.98%
SANTA BARBARA	101	74	73.27%	27	26.73%
SANTA CLARA	394	245	62.18%	149	37.82%
SANTA CRUZ	62	42	67.74%	20	32.26%
SHASTA	62	47	75.81%	15	24.19%
SIERRA	4	4	100.00%	0	0.00%
SISKIYOU	30	24	80.00%	6	20.00%
SOLANO	96	62	64.58%	34	35.42%
SONOMA	139	100	71.94%	39	28.06%
STANISLAUS	131	100	76.34%	31	23.66%
SUTTER	31	25	80.65%	6	19.35%
TEHAMA	21	19	90.48%	2	9.52%
TRINITY	12	12	100.00%	0	0.00%
TULARE	110	93	84.55%	17	15.45%
TUOLUMNE	17	13	76.47%	4	23.53%
VENTURA	206	134	65.05%	72	34.95%
YOLO	44	33	75.00%	11	25.00%
YUBA	27	23	85.19%	4	14.81%