

4.1. Demand Projections

Table 49 presents the 1996 historical data by primary position, and the projected values from the year 1997 to 2002 (recall that the last historical year provided for the study was 1996) at the state level. Table 50, that follows, shows the year to year changes in numbers associated with each of these primary positions.

Table 49: State Level Projections of Demand by Position

	All	Projections					
	1996	1997	1998	1999	2000	2001	2002
Administrative	2585	2604	2629	2644	2651	2659	2668
Guidance Counselors	1456	1466	1476	1477	1479	1477	1477
Librarians	947	952	964	966	969	971	969
Other Professional Staff	1027	1033	1040	1041	1038	1035	1034
Special Education	4399	4428	4458	4465	4467	4464	4464
Early Childhood Education	188	194	194	192	192	195	195
Elementary	18837	18945	19147	19331	19473	19651	19825
Middle School Language Arts	918	916	907	901	894	894	902
Middle School Art & Music	271	272	269	266	266	265	267
Middle School Social Studies	559	557	552	548	545	545	547
Middle School Foreign Lang.	90	90	90	90	88	89	89
Middle School Math	589	587	581	576	572	574	577
Middle School Science	527	525	521	516	513	513	517
Middle School Voc. Ed.	161	161	159	157	155	155	157
Middle School Other	1030	1025	1015	1007	999	1000	1009
High School Language Arts	1879	1930	1973	1988	1998	1985	1961
High School Art & Music	808	829	851	855	861	852	844
High School Social Studies	1193	1224	1253	1261	1268	1260	1243
High School Foreign Language	635	651	666	671	674	669	662
High School Math	1294	1325	1356	1367	1372	1362	1347
High School Biology	136	138	143	144	143	143	141
High School Chemistry	97	98	101	102	102	102	100
High School Physics	96	101	107	111	118	125	131
High School Other Science	1005	1029	1054	1058	1064	1054	1042
High School Voc. Ed.	1832	1878	1917	1927	1932	1920	1900
High School Other	3848	3943	4031	4057	4066	4034	3986
Total	46417	46911	47464	47728	47909	48003	48064

Table 50: Year to Year Change in Demand for Positions

	Year to Year Change in Number of Positions Demanded						Comments
	1997	1998	1999	2000	2001	2002	
Administrative	19	25	15	7	8	9	Steady increase in positions
Guidance Counselors	10	10	1	2	-2	0	Increase at start, then small decline
Librarians	5	12	2	3	2	-2	Increase until 2002
Other Professional Staff	6	7	1	-3	-3	-1	Increase until 2000
Special Education	29	30	7	2	-3	0	Increase until 2001
Early Childhood Education	6	0	-2	0	3	0	Stable demand, with small fluctuations
Elementary	108	202	184	142	178	174	Strong increase 98,99, then continued growth
Middle School Language Arts	-2	-9	-6	-7	0	8	Declines until 2001
Middle School Art & Music	1	-3	-3	0	-1	2	Declines starting in 1998, increase in 2002
Middle School Social Studies	-2	-5	-4	-3	0	2	Decline to 2000, then increase in 2002
Middle School Foreign Lang.	0	0	0	-2	1	0	Stable until 2000
Middle School Math	-2	-6	-5	-4	2	3	Declines until 2001, then increases
Middle School Science	-2	-4	-5	-3	0	4	Declines until 2001, increase in 2002
Middle School Voc. Ed.	0	-2	-2	-2	0	2	Declines until 2001, increase in 2002
Middle School Other	-5	-10	-8	-8	1	9	Declines until 2000, increase to 2002
High School Language Arts	51	43	15	10	-13	-24	Reduced increases until 2000, declines from 2001-2002
High School Art & Music	21	22	4	6	-9	-8	Reduced increases until 2000, declines from 2001-2002
High School Social Studies	31	29	8	7	-8	-17	Reduced increases until 2000, declines from 2001-2002
High School Foreign Language	16	15	5	3	-5	-7	Reduced increases until 2000, declines from 2001-2002
High School Math	31	31	11	5	-10	-15	Reduced increases until 2000, declines from 2001-2002
High School Biology	2	5	1	-1	0	-2	Reduced increases until 1999, declines from 2000 and 2002
High School Chemistry	1	3	1	0	0	-2	Reduced increases until 1999, declines in 2002
High School Physics	5	6	4	7	7	6	Increases throughout period
High School Other Science	24	25	4	6	-10	-12	Mixed increases until 2000, declines from 2001-2002
High School Voc. Ed.	46	39	10	5	-12	-20	Reduced increases until 2000, declines from 2001-2002
High School Other	95	88	26	9	-32	-48	Reduced increases until 2000, declines from 2001-2002

Table 51 shows the projections in terms of the number of entrants---being new entrants, reenrants, and transfers, that are needed to maintain the level of supply demanded in table 50 above.

Table 51: Number of Entrants Demanded by Position

Position	Number of Entrants Demanded by Position					
	1997	1998	1999	2000	2001	2002
Administrative	198	213	208	211	216	226
Guidance Counselors	119	124	121	122	124	127
Librarians	65	70	67	68	69	73
Other Professional Staff	91	94	91	93	93	96
Special Education	496	509	499	504	511	518
Early Childhood Education	26	22	20	22	24	23
Elementary	1328	1466	1503	1516	1603	1653
Middle School Language Arts	55	49	53	55	63	71
Middle School Art & Music	15	13	14	15	16	20
Middle School Social Studies	41	38	40	40	46	50
Middle School Foreign Lang.	17	16	16	18	19	19
Middle School Math	50	45	48	50	53	59
Middle School Science	50	45	47	49	53	58
Middle School Voc. Ed.	17	16	16	15	17	19
Middle School Other	150	146	147	150	158	169
High School Language Arts	144	146	123	120	103	96
High School Art & Music	92	94	83	82	74	73
High School Social Studies	119	119	106	107	94	91
High School Foreign Language	80	81	75	73	68	65
High School Math	138	141	126	124	110	109
High School Biology	18	18	16	16	17	15
High School Chemistry	10	10	7	8	7	7
High School Physics	12	13	11	11	11	11
High School Other Science	127	129	118	118	109	106
High School Voc. Ed.	145	144	120	119	106	101
High School Other	573	584	542	535	502	491

Table 52: Projected *Change* in Entrants Demanded

Position	Projected Change in Entrants Demanded					Comments
	1998	1999	2000	2001	2002	
Administrative	15	-5	3	5	10	Drop in demand in 1999, then increases
Guidance Counselors	5	-3	1	2	3	Drop in demand in 1999, then increases
Librarians	5	-3	1	1	4	Drop in demand in 1999, then increases
Other Professional Staff	3	-3	2	0	3	Drop in demand in 1999, then increases
Special Education	13	-10	5	7	7	Drop in demand in 1999, then increases
Early Childhood Education	-4	-2	2	2	-1	Initial declines, increases in 2000,2001, then declines
Elementary	138	37	13	87	50	Strong increases, then tapering, with increases in 2001
Middle School Language Arts	-6	4	2	8	8	Decline in 1998, followed by increases
Middle School Art & Music	-2	1	1	1	4	Decline in 1998, followed by increases
Middle School Social Studies	-3	2	0	6	4	Decline in 1998, followed by increases
Middle School Foreign Lang.	-1	0	2	1	0	Decline in 1998, then mixed increases
Middle School Math	-5	3	2	3	6	Decline in 1998, followed by increases
Middle School Science	-5	2	2	4	5	Decline in 1998, followed by increases
Middle School Voc. Ed.	-1	0	-1	2	2	Mixed changes
Middle School Other	-4	1	3	8	11	Decline in 1998, followed by increases
High School Language Arts	2	-23	-3	-17	-7	Initial increases, then declines
High School Art & Music	2	-11	-1	-8	-1	Initial increases, then declines
High School Social Studies	0	-13	1	-13	-3	Initial increases, then declines
High School Foreign Language	1	-6	-2	-5	-3	Initial increases, then declines
High School Math	3	-15	-2	-14	-1	Initial increases, then declines
High School Biology	0	-2	0	1	-2	Mixed change
High School Chemistry	0	-3	1	-1	0	Mixed change
High School Physics	1	-2	0	0	0	Mixed change
High School Other Science	2	-11	0	-9	-3	Mixed change
High School Voc. Ed.	-1	-24	-1	-13	-5	Declines throughout
High School Other	11	-42	-7	-33	-11	Initial increases, then declines