

Appendix B

2000 VATSP Forecasts



Delta Airport Consultants, Inc.

TABLE 1 VATSP UPDATE BASED AIRCRAFT FORECAST

Airport Name	Historic Based Aircraft			Annual Growth Rates Based Aircraft per Year		BAC 2000	Future Growth Rates		Forecast Based Aircraft		
	1990	1995	2000	1990 - 2000	1995 - 2000		Baseline Projection	Manual Adjustment	2005	2015	2020
General Aviation Airports											
Smith Mountain Lake	9	16	13	0.4	(0.6)	13	0.0	0.0	13	13	13
Stafford (New)	N/A	N/A	N/A	N/A	N/A	80	2.0	2.0	39	53	61
Suffolk Municipal	40	47	80	4.0	6.6	14	0.0	0.0	90	110	127
Tangier Island	0	0	0	0.0	0.0		0.5	0.5	17	-	-
Tappahannock Municipal	12	10	14	0.2	0.8		N/A	1.0	-	31	31
Tappahanock (Replacement)	N/A	N/A	N/A	N/A	N/A	10	0.0	0.0	10	10	10
Tazewell County	13	12	10	(0.3)	(0.4)	14	0.5	0.5	17	22	22
Twin County	10	11	14	0.4	0.6	55	0.0	0.0	55	55	55
Virginia Highlands	60	57	55	(0.5)	(0.4)	33	0.5	0.5	36	41	41
Virginia Tech	29	30	33	0.4	0.6						
Wakefield Municipal	14	10	28	1.4	3.6	28	2.0	1.4	35	49	49
Warrenton-Fauquier	90	92	98	0.8	1.2	98	1.0	1.0	103	113	113
Waynesboro	46	35	26	(2.0)	(1.8)	26	0.0	0.0	26	26	26
Whitman Strip	12	14	15	0.3	0.2	15	0.3	0.3	16	19	19
William M. Tuck	25	27	19	(0.6)	(1.6)	19	0.0	0.0	19	19	19
Williamsburg-Jamestown	47	47	56	0.9	1.8	56	1.4	1.4	63	76	76
Winchester Regional	62	69	79	1.7	2.0	79	1.9	1.9	88	107	107
Total	2,055	2,141	2,437	38.2	59.2	2,446			2,663	3,082	3,082
Annual Growth Rate vs 2000	1.8%	2.7%	-						1.7%	1.6%	1.6%
Carrier Airports											
Charlottesville-Albemarle	60	55	93	3.3	7.6	93	2	2	103	123	123
Lynchburg Regional	47	32	47	0.0	3.0	47	1.5	1.0	52	62	62
Newport News-Williamsburg Intl	126	99	114	(1.2)	3.0	114	0.9	0.9	119	128	128
Norfolk International	109	78	107	(0.2)	5.8	107	2.8	0.0	107	107	107
Richmond International	75	92	108	3.3	3.2	108	3.3	1.0	113	123	123
Roanoke Regional	101	113	117	1.6	0.8	117	1.2	1.6	125	141	141
Ronald Reagan Washington Natl	37	23	20	(1.7)	(0.6)	20	0.0	0.0	20	20	20
Shenandoah Valley Regional	46	80	87	4.1	1.4	87	2.0	1.4	94	108	108
Washington Dulles Intl	49	59	52	0.3	(1.4)	52	0.0	0.0	52	52	52
Total	650	631	745	9.5	22.8	730			785	864	864
Annual Growth Rate vs 2000	1.2%	3.0%	-						1.5%	1.1%	1.1%
Total	2,705	2,772	3,182	47.7	82.0	3,176			3,448	3,946	3,946
Annual Growth Rate vs 2000	1.6%	2.8%	-						1.7%	1.5%	1.5%

Notes:
 Growth rate constrained between 0 and 2 based aircraft per year for airports with less than 100 BAC in 2000
 Growth rate constrained between 0 and 4 based aircraft per year for airports with more than 100 BAC in 2000
 Boxed cells indicate manual adjustments due to new airports

TABLE 2 VATSP UPDATE, FAA, AND MASTER PLAN FORECASTS

Airport Name	Historic Based Aircraft			VATSP Update Forecast			FAA Terminal Area Forecasts			Master Plan Forecasts			
	1990	1995	2000	2005	2015	2020	2000	2005	2015	2000	2005	2015	2020
General Aviation Airports													
New London	48	43	58	68	88	98	-	-	-	-	-	-	-
New Market	14	38	33	35	40	42	-	-	-	-	-	-	-
New River Valley	30	21	24	24	24	24	21	21	21	23	24	27	29
Orange County	26	21	22	22	22	22	22	22	22	29	35	41	43
Shannon	133	136	141	139	145	148	170	170	170	-	-	-	-
Smith Mountain Lake	9	16	13	13	13	13	-	-	-	-	-	-	-
Stafford (New)	-	-	-	39	53	60	-	-	-	-	-	-	-
Suffolk Municipal	40	47	80	90	110	120	50	55	65	-	-	-	-
Tangier Island	0	0	0	-	-	-	-	-	-	16	17	20	22
Tappahannock Municipal	12	10	14	17	-	-	-	-	-	-	-	-	-
Tappahannock (Replacement)	-	-	-	-	31	36	-	-	-	-	-	-	-
Tazewell County	13	12	10	10	10	10	13	13	13	14	17	21	22
Twin County	10	11	14	17	22	24	9	9	9	12	14	16	17
Virginia Highlands	60	57	55	55	55	55	55	55	55	68	75	93	103
Virginia Tech	29	30	33	36	41	43	28	28	28	-	-	-	-
Wakefield Municipal	14	10	28	35	49	56	-	-	-	-	-	-	-
Warrenton-Fauquier	90	92	98	103	113	118	109	119	140	116	128	152	164
Waynesboro	46	35	26	26	26	26	-	-	-	37	49	75	88
Whitman Strip	12	14	15	16	19	20	-	-	-	-	-	-	-
William M. Tuck	25	27	19	19	19	19	25	25	25	24	29	35	37
Winchester-Jamestown	47	47	56	63	76	83	52	52	52	50	54	60	62
Winchester Regional	62	69	79	88	107	116	96	101	111	109	122	147	159
Total	2,055	2,141	2,437	2,663	3,082	3,287	2,099	2,168	2,309	2,096	2,333	2,782	3,009
Annual Growth Rate vs 2000	1.7%	2.6%	-	1.8%	1.6%	1.5%	-	0.6%	0.6%	-	2.2%	1.9%	1.8%
Major Carrier Airports													
Charlottesville-Albemarle	60	55	93	103	123	133	61	65	74	70	77	92	99
Lynchburg Regional	47	32	47	52	62	67	42	46	52	44	49	59	64
Newport News-Williamsburg Intl	126	99	114	119	128	132	68	74	84	-	-	-	-
Norfolk International	109	78	107	107	107	107	102	110	125	-	-	-	-
Richmond International	75	92	108	113	123	128	251	262	281	122	122	122	122
Roanoke Regional	101	113	117	125	141	149	122	122	122	127	130	136	139
Ronald Reagan Washington Natl	37	23	20	20	20	20	24	24	24	-	-	-	-
Shenandoah Valley Regional	46	80	87	94	108	115	80	80	80	-	-	-	-
Washington Dulles Intl	49	59	52	52	52	52	40	40	40	-	-	-	-
Total	650	631	745	785	864	903	790	823	882	363	378	409	424
Annual Growth Rate vs 2000	1.4%	3.4%	-	1.0%	1.0%	1.0%	-	0.8%	0.7%	-	0.8%	0.8%	0.8%
Total	2,705	2,772	3,182	3,448	3,946	4,190	2,889	2,991	3,191	2,459	2,711	3,190	3,433
Annual Growth Rate vs 2000	1.6%	2.8%	-	1.6%	1.4%	1.4%	-	0.7%	0.7%	-	2.0%	1.8%	1.7%

TABLE 3 BASED AIRCRAFT FLEET MIX

Airport Name	2000 Fleet Mix							2005 Projected Fleet Mix						
	SEP	MEP	MET	MEJ	HEL	OTH	TOT	SEP	MEP	MET	MEJ	HEL	OTH	TOT
General Aviation Airports														
Smith Mountain Lake	9	4	0	0	0	0	13	9	4	0	0	0	0	13
Stafford (New)	0	0	0	0	0	0	0	31	0	0	2	0	0	33
Suffolk Municipal	72	6	1	0	2	0	80	81	5	1	0	3	0	90
Tangler Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tappahannock Municipal	14	0	0	0	0	0	14	17	0	0	0	0	0	17
Tappahannock (Replacement)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tazewell County	5	1	1	0	0	3	10	5	1	1	0	0	3	10
Twin County	10	0	0	0	0	4	14	11	0	0	0	0	5	17
Virginia Highlands	40	5	0	0	3	7	55	37	5	1	1	3	8	55
Virginia Tech	24	3	2	0	1	3	33	24	3	2	1	1	4	36
Wakefield Municipal	26	1	0	0	0	1	28	32	1	0	0	0	1	35
Warrenton-Fauquier	81	11	0	0	0	6	98	85	11	0	0	0	7	103
Waynesboro	15	2	0	0	0	9	26	14	2	0	0	0	10	26
Whitman Strip	0	0	0	0	0	15	15	0	0	0	0	0	16	16
William M. Tuck	19	0	0	0	0	0	19	19	0	0	0	0	0	19
Williamsburg-Jamestown	50	5	0	0	1	0	56	58	5	0	0	1	0	63
Winchester Regional	66	11	1	1	0	0	79	74	12	1	2	0	0	88
	2,015	221	54	35	23	89	2,437	2,174	229	66	61	27	105	2,663
	82.7%	9.1%	2.2%	1.4%	0.9%	3.7%	100.0%	81.8%	8.6%	2.5%	2.3%	1.0%	3.9%	100.0%
Air Carrier Airports														
Charlottesville-Albemarle	62	13	5	7	1	5	93	66	14	6	10	1	6	103
Lynchburg Regional	37	6	3	1	0	0	47	41	6	3	1	0	0	52
Newport News-Williamsburg Intl	85	9	3	16	1	0	114	84	9	3	22	1	0	119
Norfolk International	54	15	23	12	3	0	107	51	14	23	16	3	0	107
Richmond International	33	24	12	30	6	1	108	31	22	12	36	8	1	113
Roanoke Regional	90	17	6	3	1	0	117	95	18	7	4	1	0	125
Ronald Reagan Washington Natl	5	4	3	8	2	0	20	4	13	3	7	2	0	20
Shenandoah Valley Regional	58	24	4	0	1	0	87	63	25	5	0	1	0	94
Washington Dulles Intl	12	11	0	28	1	0	52	10	9	0	32	1	0	52
Total	436	123	59	103	16	6	745	446	120	61	131	20	7	785
	58.5%	16.5%	7.9%	13.8%	2.1%	0.8%	100.0%	58.8%	15.3%	7.8%	16.7%	2.5%	0.9%	100.0%
Total	2,451	344	113	138	41	95	3,182	2,619	349	127	192	47	112	3,448
	77.0%	10.8%	3.6%	4.3%	1.3%	3.0%	100.0%	78.0%	10.1%	3.7%	5.6%	1.4%	3.3%	100.0%

Notes:
 Fleet mix assumed to change at average of Historic VA rate and rate of FAA active aircraft forecasts for first 5 years, at FAA rate for next ten years, and at FAA rate with jet growth tempered by 25% for the final 6 years.

TABLE 3 BASED AIRCRAFT FLEET MIX

Airport Name	2015 Projected Fleet Mix							2020 Projected Fleet Mix						
	SEP	MEP	MET	MEJ	HEL	OTH	TOT	SEP	MEP	MET	MEJ	HEL	OTH	TOT
General Aviation Airports														
Smith Mountain Lake	9	4	0	0	0	0	13	9	4	0	0	0	0	13
Stafford (New)	41	0	8	3	0	0	53	48	0	10	4	0	0	60
Suffolk Municipal	99	6	2	0	3	0	110	108	7	2	0	4	0	120
Tangier Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tappahannock Municipal	29	0	2	0	0	0	31	33	0	3	0	0	0	36
Tappahannock (Replacement)	29	0	2	0	0	0	31	33	0	3	0	0	0	36
Tazewell County	5	1	1	0	0	3	10	5	1	1	0	0	4	10
Twin County	14	0	0	0	0	7	22	16	0	0	0	0	8	24
Virginia Highlands	37	4	1	2	3	8	55	36	4	1	2	3	8	55
Virginia Tech	27	3	2	2	1	4	41	28	3	3	3	2	5	43
Wakefield Municipal	45	2	0	0	0	2	49	52	2	0	0	0	3	56
Warrenton-Fauquier	93	11	0	0	0	8	113	97	12	0	0	0	9	118
Waynesboro	14	2	0	0	0	10	26	14	2	0	0	0	11	26
Whitman Strip	0	0	0	0	0	19	19	0	0	0	0	0	20	20
William M. Tuck	19	0	0	0	0	0	19	19	0	0	0	0	0	19
Williamsburg-Jamestown	88	6	0	0	2	0	76	75	7	0	0	2	0	83
Winchester Regional	89	13	1	3	0	0	107	97	14	2	3	0	0	116
Total	2,545	240	86	100	32	125	3,129	2,711	245	93	121	34	136	3,341
	81.3%	7.7%	2.8%	3.2%	1.0%	4.0%	100.0%	81.1%	7.3%	2.8%	3.6%	1.0%	4.1%	100.0%
Air Carrier Airports														
Charlottesville-Albemarle	76	14	7	17	1	8	123	60	15	7	21	2	8	133
Lynchburg Regional	48	7	4	3	0	0	62	52	7	5	3	0	0	67
Newport News-Williamsburg Intl	83	8	3	32	1	0	128	83	8	3	38	1	0	132
Norfolk International	48	12	23	21	3	0	107	46	11	22	24	3	0	107
Richmond International	29	19	12	53	9	1	123	28	18	12	60	9	1	128
Roanoke Regional	106	18	8	7	1	0	141	112	18	8	9	2	0	149
Ronald Reagan Washington Natl	4	3	3	9	2	0	20	4	2	2	10	2	0	20
Shenandoah Valley Regional	73	28	6	0	2	0	108	79	28	6	0	2	0	115
Washington Dulles Intl	8	7	0	37	1	0	52	7	6	0	38	1	0	52
Total	475	116	64	179	20	9	864	491	114	67	201	21	9	903
	55.1%	13.4%	7.5%	20.7%	2.3%	1.0%	100.0%	54.4%	12.7%	7.4%	22.2%	2.3%	1.0%	100.0%
Total	3,020	356	151	280	52	134	3,993	3,202	359	160	322	55	146	4,244
	75.6%	8.9%	3.8%	7.0%	1.3%	3.4%	100.0%	75.5%	8.5%	3.8%	7.6%	1.3%	3.4%	100.0%

Notes:

Fleet mix assumed to change at average of Historic VA rate and rate of FAA active aircraft forecasts for first 5 years, at FAA rate for next ten years, and at FAA rate with jet growth tempered by 25% for the final 5 years.

**TABLE 4
VATSP UPDATE OPERATIONS FORECAST**

Airport Name	2000 Ops Forecast by Type - Preferred							2005 Ops Forecast by Type - Preferred						
	SEP	MEP	MET	MEJ	HEL	OTH	TOT	SEP	MEP	MET	MEJ	HEL	OTH	TOT
Tappahannock (Replacement)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tazewell County	2,299	397	619	43	100	1,283	4,740	2,325	393	642	45	104	1,453	4,962
Twin County	3,872	182	128	55	128	1,710	6,074	4,602	225	158	68	158	2,291	7,501
Virginia Highlands	15,113	1,948	473	203	1,728	3,063	22,527	15,128	1,924	1,038	903	1,896	3,402	24,282
Virginia Tech	9,129	1,177	1,329	124	708	1,338	13,805	9,870	1,256	1,479	886	835	1,608	15,936
Wakefield Municipal	8,949	571	221	95	221	482	10,539	11,510	727	286	123	286	701	13,633
Warrenton-Fauquier	28,857	3,920	786	337	786	2,734	37,421	31,188	4,160	857	367	857	3,361	40,789
Waynesboro	6,694	753	-	-	349	3,834	11,630	6,763	743	-	-	368	4,332	12,204
Whitman Strip	2,178	188	-	-	269	6,328	8,963	2,434	210	-	-	301	7,072	10,017
William M. Tuck	6,390	210	147	63	147	42	6,996	6,582	217	152	65	152	43	7,220
Williamsburg-Jamestown	17,956	1,709	-	-	1,043	125	20,833	20,760	1,938	-	-	1,277	145	24,120
Winchester Regional	23,365	3,692	1,145	788	626	179	29,794	26,929	4,171	1,354	1,127	725	207	34,513
Subtotal	727,414	80,227	42,361	21,806	31,338	42,929	946,076	815,855	88,056	52,384	36,091	36,611	51,833	1,080,830
OPBA	361	363	784	623	1,363	482	388	375	384	789	589	1,335	494	406
Growth vs 2000														2.7%
Air Carrier Airports														
Charlottesville-Abemarle	40,335	6,553	4,263	3,598	1,746	341	56,836	44,876	7,144	4,918	5,229	2,053	388	64,608
Lynchburg Regional	34,095	4,605	3,625	1,045	936	267	44,574	38,710	5,133	4,276	1,455	1,070	306	50,949
Newport News-Williamsburg Intl	143,334	14,866	8,928	20,346	5,528	1,164	193,966	148,283	15,024	9,576	27,769	6,064	1,248	207,964
Norfolk International	27,872	5,365	10,782	4,098	2,199	303	50,419	27,683	5,239	11,123	5,347	2,372	312	52,077
Richmond International	29,142	10,758	8,603	13,494	5,730	409	68,136	29,855	10,434	8,862	17,712	6,312	442	73,617
Roanoke Regional	51,060	7,700	4,715	1,792	1,913	406	67,585	55,915	8,270	5,354	2,437	2,184	448	74,607
Ronald Reagan Washington Natl	30,520	11,272	12,640	16,475	8,247	478	79,632	29,903	10,386	12,293	20,443	8,610	493	82,127
Shenandoah Valley Regional	14,823	2,660	819	171	441	114	19,027	16,562	2,912	939	191	499	127	21,230
Washington Dulles Intl	25,744	10,601	1,411	26,449	2,566	403	67,173	24,705	9,312	1,462	31,117	2,604	418	69,618
Subtotal	396,725	74,178	55,786	87,469	29,306	3,884	647,348	416,492	73,855	58,804	111,700	31,767	4,181	696,797
OPBA	910	603	946	849	1,628	647	869	934	617	962	853	1,617	578	888
Growth vs 2000														1.5%
Total	1,124,139	154,405	98,147	109,275	60,644	46,813	1,593,424	1,232,347	161,911	111,187	147,790	68,378	56,013	1,777,627
OPBA	459	449	869	792	1,479	493	501	470	464	872	789	1,453	489	516
rowth vs 2000														2.2%