

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 Manual Adjustment		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		N/A	1.0	39	53	60
Suffolk Municipal	40	47	80	4.0	6.6	80	2.0	2.0	90	110	120
Tangier Island	0	0	0	0.0	0.0	14	0.0	0.0	-	-	-
Tappahannock Municipal	12	10	14	0.2	0.8		N/A	1.0	-	31	36
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	0.4	(0.4)	14	0.5	0.5	17	22	24
Twin County	10	11	14	0.4	(0.4)	55	0.0	0.0	55	55	55
Virginia Highlands	60	57	55	0.4	0.6	33	0.5	0.5	36	41	43
Virginia Tech	29	30	33	1.4	3.6	28	2.0	1.0	35	49	56
Wakefield Municipal	14	10	28	0.8	1.2	98	1.0	1.0	103	113	118
Warrenton-Fauquier	90	92	98	(2.0)	(1.8)	26	0.0	0.0	26	26	26
Waynesboro	46	35	26	0.3	0.2	15	0.3	0.3	16	19	21
Whitman Strip	12	14	15	(0.6)	(1.6)	19	0.0	0.0	19	19	19
William M. Tuck	25	27	19	0.9	1.8	56	1.4	1.4	63	76	88
Williamsburg-Jamestown	47	47	56	1.7	2.0	79	1.9	1.9	88	107	111
Winchester Regional	62	69	79								
Total	2,055	2,141	2,437	38.2	59.2	2,446			2,663	3,082	3,218
Annual Growth Rate vs 2000	1.8%	2.7%	-						1.7%	1.6%	1.1%
Carrier Airports											
Charlottesville-Albemarle	60	55	93	3.3	7.6	93	2	2	103	123	131
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	4,082
Annual Growth Rate vs 2000	1.6%	2.8%	-						1.7%	1.5%	1.1%

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	-	-	-	-	-	-	-	-	-	-
Tappahannock Municipal	12	10	14	17	-	-	-	-	-	16	17	20	22
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
Lynchburg-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%
Air 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	5	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	28	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	18	18
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	66	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	81	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	82	13	5	7	1	5	93	88	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	18	1	0	114	84	9	3	22	1	0	119
Norfolk International	54	15	23	12	3	0	107	51	14	23	18	3	0	107
Richmond International	33	24	12	30	8	1	108	31	22	12	38	9	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	3	3	7	2	0	20
Shenandoah Valley Regional	58	24	4	0	1	0	87	83	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	18	6	745	446	120	61	131	20	7	765
	58.5%	16.5%	7.9%	13.8%	2.4%	0.8%	100.0%	58.8%	15.3%	7.8%	17.1%	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	58
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	68	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	180	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.