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# **Flight Operations Data**

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**Table A.1 2003 Flight Operations at NAS Whidbey Island and OLF Coupeville**

Tenant Name	Aircraft Type	Operation Type	Description	CY2003 Operations				
				0700-2200	2200-0700	Total		
CVWP	EA-6B	Departure	Departure	3,935	241	4,176		
			VFR to OLF Coupeville - Interfacility	531	109	640		
			<b>Total All Departures</b>	<b>4,466</b>	<b>350</b>	<b>4,816</b>		
		Arrival	Overhead-Break	1,860	136	1,996		
			VFR from OLF Coupeville - Interfacility	531	109	640		
			TACAN	411	25	436		
			IFR Full-Stop	1,643	101	1,744		
			<b>Total All Arrivals</b>	<b>4,445</b>	<b>371</b>	<b>4,816</b>		
		Closed Pattern	FCLP	18,983	3,967	22,950		
			Touch and Go	9,160	433	9,593		
			Depart and ReEnter	238	17	255		
			GCA Box	2,032	1,832	3,864		
			<b>Total All Closed Patterns</b>	<b>30,413</b>	<b>6,249</b>	<b>36,662</b>		
		<b>GRAND TOTALS</b>				<b>39,324</b>	<b>6,970</b>	<b>46,294</b>
		CPRW	P-3	Departure	LO-TACAN	4,289	81	4,370
IFR	3,668				145	3,813		
<b>Total All Departures</b>	<b>7,957</b>				<b>226</b>	<b>8,183</b>		
Arrival	VFR			4,290	81	4,371		
	LO-TACAN			1,834	72	1,906		
	IFR Full-Stop			1,834	72	1,906		
	<b>Total All Arrivals</b>			<b>7,958</b>	<b>225</b>	<b>8,183</b>		
Closed Pattern	Touch and Go			12,867	244	13,111		
	GCA Box			4,661	175	4,836		
	<b>Total All Closed Patterns</b>			<b>17,528</b>	<b>419</b>	<b>17,947</b>		
<b>GRAND TOTALS</b>				<b>33,443</b>	<b>870</b>	<b>34,313</b>		
TRANSPORT	C-9	Departure	Departure	211	114	325		
		Arrival	Straight-In Arrival	211	114	325		
		<b>GRAND TOTALS</b>				<b>422</b>	<b>227</b>	<b>649</b>
STATION	C-12	Departure	Departure	65	35	100		
		Arrival	Straight-In Arrival	65	35	100		
		<b>GRAND TOTALS</b>				<b>129</b>	<b>70</b>	<b>199</b>
TRANSIENT	Transient	Departure	Departure	164	88	252		
		Arrival	Straight-In Arrival	164	88	252		
		<b>GRAND TOTALS</b>				<b>328</b>	<b>176</b>	<b>504</b>
			<b>Total LTO Operations (for GSE calculations)</b>			<b>13,675</b>		
Tenant Name	Aircraft Type	Operation Type	Description	CY2003 Operations				
				0700-2200	2200-0700	Total		
CVWP	EA-6B	Closed Pattern	FCLP	6,390	1,292	7,682		
			Total All Closed Patterns	6,390	1,292	7,682		

Note: Each FCLP and T&G operation is counted as two operations, one arrival and one departure. For air quality purposes, they are counted as one operation; therefore, total FCLP and T&G operations listed on the air quality calculation tables are one-half the operations listed in this table.

Source: Wyle Laboratories, Inc. 2004 (based on data provide by Whidbey personnel, August 2004).

**Table A.2 2013 Projected Flight Operations at NAS Whidbey Island and OLF Coupeville**

Tenant Name	Aircraft Type	Operation Type	Description	CY2013 Operations				
				0700-2200	2200-0700	Total		
CVWP	EA-18G	Departure	Departure	3,749	229	3,978		
			VFR to OLF Coupeville - Interfacility	506	104	610		
			<b>Total All Departures</b>	<b>4,255</b>	<b>333</b>	<b>4,588</b>		
		Arrival	Overhead-Break	1,772	129	1,901		
			VFR from OLF Coupeville - Interfacility	506	104	610		
			TACAN	391	24	415		
			IFR Full-Stop	1,566	96	1,662		
			<b>Total All Arrivals</b>	<b>4,235</b>	<b>353</b>	<b>4,588</b>		
		Closed Pattern	FCLP	15,122	3,160	18,282		
			Touch and Go	8,727	412	9,139		
			Depart and ReEnter	226	17	243		
			GCA Box	1,936	1,745	3,681		
			<b>Total All Closed Patterns</b>	<b>26,011</b>	<b>5,334</b>	<b>31,345</b>		
		<b>GRAND TOTALS</b>				<b>34,501</b>	<b>6,020</b>	<b>40,521</b>
		CPRW	P-3	Departure	LO-TACAN	4,289	81	4,370
					IFR	3,668	145	3,813
<b>Total All Departures</b>	<b>7,957</b>				<b>226</b>	<b>8,183</b>		
Arrival	VFR			4,290	81	4,371		
	LO-TACAN			1,834	72	1,906		
	IFR Full-Stop			1,834	72	1,906		
	<b>Total All Arrivals</b>			<b>7,958</b>	<b>225</b>	<b>8,183</b>		
Closed Pattern	Touch and Go			12,867	244	13,111		
	GCA Box			4,661	175	4,836		
	<b>Total All Closed Patterns</b>			<b>17,528</b>	<b>419</b>	<b>17,947</b>		
<b>GRAND TOTALS</b>				<b>33,443</b>	<b>870</b>	<b>34,313</b>		
TRANSPORT	C-9	Departure	Departure	211	114	325		
		Arrival	Straight-In Arrival	211	114	325		
		<b>GRAND TOTALS</b>				<b>422</b>	<b>227</b>	<b>649</b>
TRANSIENT	Transient	Departure	Departure	164	88	252		
		Arrival	Straight-In Arrival	164	88	252		
		<b>GRAND TOTALS</b>				<b>328</b>	<b>176</b>	<b>504</b>
STATION	C-12	C-12 will not operate in 2013				<b>0</b>		
<b>Total LTO Operations (for GSE calculations)</b>						<b>13,348</b>		
Tenant Name	Aircraft Type	Operation Type	Description	CY2013 Operations				
CVWP	EA-18G	Closed Pattern	FCLP	5,091	1,029	6,120		
			<b>Total All Closed Patterns</b>	<b>5,091</b>	<b>1,029</b>	<b>6,120</b>		

Note: Each FCLP and T&G operation is counted as two operations, one arrival and one departure. For air quality purposes, they are counted as one operation; therefore, total FCLP and T&G operations listed on the air quality calculation tables are one-half the operations listed in this table.

Source: Wyle Laboratories, Inc. 2004 (based on data provide by Whidbey personnel, August 2004).

**Table A.3 2003 Existing and Projected Maintenance Testing Operations at NAS Whidbey Island**

Note: Any C-9, C-12 and Transient Aircraft Maintenance will not be modeled.

Aircraft Type	Maintenance Operation	Engine Mode	Engine Power Setting (N2)	No. of Engines in Use	Operations Per year	Time-In-Mode per Engine (min)	
EA-6B	Low Power	Main Engine Run	Idle (60%)	1	2592	15	
			75%	1	2592	5	
	Low Power/Water Wash	Main Engine Run	Idle (60%)	2	1080	25	
			75%	2	1080	8	
	High Power	Main Engine Run	Engine Start/Taxi	Idle (60%)	2	360	16
			Intermediate Power	70%	2	360	15
High Power			98%	2	360	10	

Aircraft Type	Maintenance Operation	Engine Mode	Engine Power Setting (N1)	No. of Engines in Use	Operations Per year	Time-In-Mode per Engine (min)
EA-18G	Water Wash	Main Engine Run	Ground Idle	1	57	10
	Low Power- 2 Engines	Main Engine Run	Ground Idle	2	701	15
			80%	2	701	15
	High Power	Main Engine Run	Ground Idle	2	34	10
			80%	2	34	10
			90%	2	34	10
			MIL 96%	2	34	10
			AB 97%	2	34	3

Aircraft Type	Maintenance Operation	Location	Engine Power Setting (ESHP)	No. of Engines in Use	Operations Per year	Time per Operation Type (min)
P-3	Low Power	Flight Line	1,000	1	520	15
	Prop Dynamic Balancing	Flight Line (50%)	1,500	1	40	15
		High-Power Area (50%)	1,500	1	40	15
	Out-Of-Phase Turn	Flight Line	250 (Low Idle)	4	42	30
			450 (Normal Idle)	4	42	10
			1,000	4	42	10
	High Power	Red Label Delta	1,500	2 (2 idling)	50	15
			2,750	2 (2 idling)	50	15
			4,300	2 (2 idling)	50	10
	High Power	Red Label Delta	1,500	2 (2 idling)	50	15
			2,750	2 (2 idling)	50	15
4,300			2 (2 idling)	50	10	

Test Cell (Engine/ Aircraft Type)	Maintenance Operation	Engine Power Setting	No. of Engines in Use	Operations Per year	Time-In-Mode per Engine (min)
J52-P-408A (EA-6B)	Engine Test Cell	Gr Idle (56%) N2	1	174	25
		76% N2	1	174	10
		90% N2	1	174	10
		97% N2	1	174	10
		100% N2	1	174	5
F414-GE-400 (EA-18G)	Engine Test Cell	Gr Idle (56% N2)	1	71	9
		80% N2	1	71	51
		97% N2 (A/B)	1	71	3

Source: Wyle Laboratories, Inc. 2004.

## Table A.4 Historic Flight Operations

Table 3-1. Historical Flight Operations for NAS Whidbey Island and OLF Coupeville - 1976 to 2002

Year	NAS Whidbey Island Ault Field			OLF Coupeville	Total	
	FCLP	OTHER	TOTAL	FCLP	FCLP	OPERATIONS
	(a)	(b)	(a+b)	(d)	(a+d)	(a+b+d)
1976	29,245	90,948	120,193	17,810	47,055	138,003
1977	27,064	61,449	88,513	17,748	44,812	106,261
1978	31,308	95,896	127,204	24,378	55,686	151,582
1979	17,720	78,963	96,683	20,282	38,002	116,965
1980	25,102	79,000	104,102	12,190	37,292	116,292
1981	26,443	62,805	89,248	16,848	43,291	106,096
1982	26,696	77,639	104,335	14,472	41,168	118,807
1983	36,418	82,019	118,437	11,782	48,200	130,219
1984	32,400	80,842	113,242	12,726	45,126	125,968
1985	29,185	72,267	101,452	13,934	43,119	115,386
1986	27,475	77,529	105,004	22,232	49,707	127,236
1987	27,202	110,480	137,682	30,350	57,552	168,032
1988	47,734	101,396	149,130	30,442	78,176	179,572
1989	50,186	87,850	138,036	22,596	72,782	160,632
1990	51,758	104,582	156,340	32,080	83,838	188,420
1991	43,662	90,632	134,294	27,088	70,750	161,382
1992	54,516	84,515	139,031	25,844	80,360	164,875
1993	36,422	79,551	115,973	21,324	57,746	137,297
1994	36,472	74,990	111,462	21,628	58,100	133,090
1995	30,494	74,936	105,430	19,854	50,348	125,284
1996	22,832	86,895	109,727	13,066	35,898	122,793
1997	30,740	88,093	118,833	9,736	40,476	128,569
1998	19,516	77,433	96,949	6,808	26,324	103,757
1999	17,194	77,014	94,208	6,752	23,946	100,960
2000	16,536	84,424	100,960	6,378	22,914	107,338
2001	16,132	79,857	95,989	3,568	19,700	99,557
2002	17,090	77,069	94,159	4,100	21,190	98,259

Source: McCarter, 12 Aug 04

Source: Wyle Laboratories, Inc. 2004.