

Appendix F

Environmental Justice Data, High-tempo FCLP Year

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Appendix F provides tables with detailed data used as part of the environmental justice analysis for the high-tempo Field Carrier Landing Practice (FCLP) year. These tables mirror the tables provided in Section 4.11 that provide data for the average year. Table F-1 shows the minority and low-income populations in the census block groups affected by the Day-Night Average Sound Level (DNL) contours under the high-tempo FCLP year. Table F-2 shows the environmental justice communities affected by the DNL contours under the high-tempo FCLP year for the No Action Alternative. Tables F-3 through F-17 present estimates of the affected minority and low-income populations under each alternative and scenario and compare these estimates to the No Action Alternative.

Table F-1 Minority and Low-Income Populations in Census Block Groups Underlying Ault Field and OLF Coupeville DNL Contours¹ for All Alternatives and Scenarios, High-Tempo FCLP Year

<i>Census Block Group</i>	<i>Total Population²</i>	<i>Percent Population Total Minority³</i>	<i>Percent Population below Poverty Level⁴</i>
<i>Island County – Community of Comparison</i>	78,506	16.9%	8.0%
Block Group 1, Census Tract 9701	1,102	18.7%	14.1%
Block Group 2, Census Tract 9701	1,502	13.6%	14.1%
Block Group 1, Census Tract 9702	1,633	35.2% ⁵	23.4%
Block Group 1, Census Tract 9703	791	24.3%	4.4%
Block Group 2, Census Tract 9703	1,203	15.7%	4.4%
Block Group 3, Census Tract 9703	1,044	13.5%	4.4%
Block Group 4, Census Tract 9703	1,951	11.6%	4.4%
Block Group 1, Census Tract 9704	951	39.3%	8.6%
Block Group 2, Census Tract 9704	2,256	31.9%	8.6%
Block Group 1, Census Tract 9706.01	1,299	41.3%	11.2%
Block Group 2, Census Tract 9706.01	981	30.8%	11.2%
Block Group 1, Census Tract 9707	23.5%	28.2%	20.1%
Block Group 1, Census Tract 9708	1,484	25.9%	8.7%
Block Group 1, Census Tract 9710	1,470	12.7%	6.3%
Block Group 1, Census Tract 9711	2,019	14.7%	2.9%
Block Group 2, Census Tract 9711	1,270	7.5%	2.9%
Block Group 3, Census Tract 9713	1,762	5.9%	6.8%
<i>Skagit County – Community of Comparison</i>	116,901	23.3%	11.7%
Block Group 1, Census Tract 9403	1,174	7.4%	6.2%
Block Group 1, Census Tract 9408	2,278	31.7%	18.2%
Block Group 2, Census Tract 9521	658	13.2%	9.1%
Block Group 3, Census Tract 9527	906	12.9%	7.3%

Table F-1 Minority and Low-Income Populations in Census Block Groups Underlying Ault Field and OLF Coupeville DNL Contours¹ for All Alternatives and Scenarios, High-Tempo FCLP Year

<i>Census Block Group</i>	<i>Total Population²</i>	<i>Percent Population Total Minority³</i>	<i>Percent Population below Poverty Level⁴</i>
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Sources: USCB 2012c; 2012f, n.d.[f].

Notes:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² Total population for each affected census block group is the total 2010 population for the entire census block group as reported by the U.S. Census Bureau. These figures may be greater than the total number of residents affected by the DNL contours because in many instances only a portion of the census block group falls under the DNL contours.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$

Table F-2 Environmental Justice Populations at the NAS Whidbey Island Complex under the No Action Alternative, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9% ⁵	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population⁶	11,804	2,674	22.7%	929	7.9%

Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-3 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 1A					
65-70 DNL	4,303	1,096	25.5% ⁵	350	8.1%
70-75 DNL	2,844	608	21.4%	195	6.9%
75+ DNL	5,602	924	16.5%	393	7.0%
Total Affected Population	12,749	2,628	20.6%	938	7.4%
Population Change from No Action Alternative					
65-70 DNL	75	45	-	24	-
70-75 DNL	-619	-247	-	-57	-
75+ DNL	1,489	156	-	42	-
Total Population Change from No Action Alternative⁶	945	-46	0.0%⁷	9	1.0%

Table F-3 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB, 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{(V_1 + V_2) / 2} \times 100$.
- ⁶ Due to rounding, some totals may not sum.
- ⁷ The absolute number of minority residents declined compared to the number under the No Action Alternative.

Table F-4 Environmental Justice Populations at the NAS Whibdey Island Complex under Alternative 1, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 1B					
65-70 DNL	4,159	1,084	26.1% ⁵	345	8.3%
70-75 DNL	3,587	830	23.1%	248	6.9%
75+ DNL	5,420	934	17.2%	402	7.4%
Total Affected Population	13,166	2,848	21.6%	995	7.6%
Population Change from No Action Alternative					
65-70 DNL	-69	33	-	19	-
70-75 DNL	124	-25	-	-4	-
75+ DNL	1,307	166	-	51	-
Total Population Change from No Action Alternative⁶	1,362	174	12.8%	66	4.8%

Table F-4 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB, 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{(V_1 + V_2) / 2} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-5 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 1C					
65-70 DNL	4,893	1,222	25.0% ⁵	376	7.7%
70-75 DNL	3,604	845	23.4%	249	6.9%
75+ DNL	4,764	887	18.6%	399	8.4%
Total Affected Population	13,261	2,954	22.3%	1,024	7.7%
Population Change from No Action Alternative					
65-70 DNL	665	171	-	50	-
70-75 DNL	141	-10	-	-3	-
75+ DNL	651	119	-	48	-
Total Population Change from No Action Alternative⁶	1,457	280	19.2%	95	6.5%

Table F-5 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-6 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 1D					
65-70 DNL	4,291	1,111	25.9% ⁵	354	8.2%
70-75 DNL	3,171	715	22.5%	221	7.0%
75+ DNL	5,660	946	16.7%	403	7.1%
Total Affected Population	13,122	2,772	21.1%	978	7.5%
Population Change from No Action Alternative					
65-70 DNL	63	60	-	28	-
70-75 DNL	-292	-140	-	-31	-
75+ DNL	1,547	178	-	52	-
Total Population Change from No Action Alternative⁶	1,318	98	7.4%	49	3.7%

Table F-6 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-7 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 1E					
65-70 DNL	4,640	1,174	25.3% ⁵	364	7.8%
70-75 DNL	3,593	837	23.3%	248	6.9%
75+ DNL	5,029	909	18.1%	403	8.0%
Total Affected Population	13,262	2,920	22.0%	1,015	7.7%
Population Change from No Action Alternative					
65-70 DNL	412	123	-	38	-
70-75 DNL	130	-18	-	-4	-
75+ DNL	916	141	-	52	-
Total Population Change from No Action Alternative⁶	1,458	246	16.9%	86	5.9%

Table F-7 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 1, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-8 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
<i>Community of Comparison (Island County)</i>			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 2A					
65-70 DNL	4,300	1,098	25.5% ⁵	351	8.2%
70-75 DNL	2,879	600	20.8%	193	6.7%
75+ DNL	5,454	904	16.6%	386	7.1%
Total Affected Population	12,633	2,602	20.6%	930	7.4%
Population Change from No Action Alternative					
65-70 DNL	72	47	-	25	-
70-75 DNL	-584	-255	-	-59	-
75+ DNL	1,341	136	-	35	-
Total Population Change from No Action Alternative⁶	829	-72	0.0%⁷	1	0.1%

Table F-8 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those within Island County as a whole or that contain percentages of low-income populations that are greater than (or equal to) those within Island County. These shaded cells indicate where environmental justice communities have been identified based on the indicated thresholds. The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{(V_1 + V_2) / 2} \times 100$
- ⁶ Due to rounding, some totals may not sum.
- ⁷ The absolute number of minority residents declined compared to the No Action Alternative.

Table F-9 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 2B					
65-70 DNL	4,222	1,088	25.8% ⁵	345	8.2%
70-75 DNL	3,551	822	23.1%	246	6.9%
75+ DNL	5,310	921	17.3%	398	7.5%
Total Affected Population	13,083	2,831	21.6%	989	7.6%
Population Change from No Action Alternative					
65-70 DNL	-6	37	-	19	-
70-75 DNL	88	-33	-	-6	-
75+ DNL	1,197	153	-	47	-
Total Population Change from No Action Alternative⁶	1,279	157	12.3%	60	4.7%

Table F-9 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-10 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 2C					
65-70 DNL	4,793	1,183	24.7% ⁵	366	7.6%
70-75 DNL	3,559	829	23.3%	246	6.9%
75+ DNL	4,698	866	18.4%	391	8.3%
Total Affected Population	13,050	2,878	22.1%	1,003	7.7%
Population Change from No Action Alternative					
65-70 DNL	565	132	-	40	-
70-75 DNL	96	-26	-	-6	-
75+ DNL	585	98	-	40	-
Total Population Change from No Action Alternative⁶	1,246	204	16.4%	74	5.9%

Table F-10 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-11 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 2D					
65-70 DNL	4,280	1,105	25.8% ⁵	352	8.2%
70-75 DNL	3,231	713	22.1%	221	6.8%
75+ DNL	5,460	916	16.8%	393	7.2%
Total Affected Population	12,971	2,734	21.1%	966	7.4%
Population Change from No Action Alternative					
65-70 DNL	52	54	-	26	-
70-75 DNL	-232	-142	-	-31	-
75+ DNL	1,347	148	-	42	-
Total Population Change from No Action Alternative⁶	1,167	60	5.1%	37	3.2%

Table F-11 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-12 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 2E					
65-70 DNL	4,546	1,140	25.1% ⁵	356	7.8%
70-75 DNL	3,538	818	23.1%	244	6.9%
75+ DNL	4,982	893	17.9%	396	7.9%
Total Affected Population	13,066	2,851	21.8%	996	7.6%
Population Change from No Action Alternative					
65-70 DNL	318	89	-	30	-
70-75 DNL	75	-37	-	-8	-
75+ DNL	869	125	-	45	-
Total Population Change from No Action Alternative⁶	1,262	177	14.0%	67	5.3%

Table F-12 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 2, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-13 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 3A					
65-70 DNL	4,283	1,092	25.5% ⁵	348	8.1%
70-75 DNL	2,816	593	21.1%	191	6.8%
75+ DNL	5,531	913	16.5%	389	7.0%
Total Affected Population	12,630	2,598	20.6%	928	7.3%
Population Change from No Action Alternative					
-165-70 DNL	55	41	-	22	-
70-75 DNL	-647	-262	-	-61	-
75+ DNL	1,418	145	-	38	-
Population Change from No Action Alternative⁶	826	-76	0.0%⁷	-1	0.0%⁷

Table F-13 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario A, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.
- ⁷ The absolute number of minority residents and the absolute number of low-income residents declined compared to the No Action Alternative.

Table F-14 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
<i>Community of Comparison (Island County)</i>			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 3B					
65-70 DNL	4,125	1,069	25.9% ⁵	341	8.3%
70-75 DNL	3,541	817	23.1%	244	6.9%
75+ DNL	5,396	928	17.2%	399	7.4%
Total Affected Population	13,062	2,814	21.5%	984	7.5%
Net Change from No Action Alternative					
65-70 DNL	-103	18	-	15	-
70-75 DNL	78	-38	-	-8	-
75+ DNL	1,283	160	-	48	-
Total Population Change from No Action Alternative⁶	1,258	140	11.1%	55	4.4%

Table F-14 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario B, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-15 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
<i>Community of Comparison (Island County)</i>			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 3C					
65-70 DNL	4,767	1,174	24.6% ⁵	363	7.6%
70-75 DNL	3,544	824	23.3%	244	6.9%
75+ DNL	4,671	861	18.4%	389	8.3%
Total Affected Population	12,982	2,859	22.0%	996	7.7%
Population Change from No Action Alternative					
65-70 DNL	539	123	-	37	-
70-75 DNL	81	-31	-	-8	-
75+ DNL	558	93	-	38	-
Total Population Change from No Action Alternative⁶	1,178	185	15.7%	67	5.7%

Table F-15 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario C, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-16 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 3D					
65-70 DNL	4,209	1,091	25.9% ⁵	348	8.3%
70-75 DNL	3,184	714	22.4%	222	7.0%
75+ DNL	5,579	933	16.7%	395	7.1%
Total Affected Population	12,972	2,738	21.1%	965	7.4%
Population Change from No Action Alternative					
65-70 DNL	-19	40	-	22	-
70-75 DNL	-279	-141	-	-30	-
75+ DNL	1,466	165	-	44	-
Total Population Change from No Action Alternative⁶	1,168	64	5.5%	36	3.1%

Table F-16 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario D, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

Table F-17 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
Community of Comparison (Island County)			16.9%		8.0%
No Action Alternative					
65-70 DNL	4,228	1,051	24.9%	326	7.7%
70-75 DNL	3,463	855	24.7%	252	7.3%
75+ DNL	4,113	768	18.7%	351	8.5%
Total Affected Population	11,804	2,674	22.7%	929	7.9%
Alternative 3E					
65-70 DNL	4,536	1,146	25.3% ⁵	357	7.9%
70-75 DNL	3,590	834	23.2%	249	6.9%
75+ DNL	4,985	899	18.0%	394	7.9%
Total Affected Population	13,111	2,879	22.0%	1,000	7.6%
Population Change from No Action Alternative					
65-70 DNL	308	95	-	31	-
70-75 DNL	127	-21	-	-3	-
75+ DNL	872	131	-	43	-
Total Population Change from No Action Alternative⁶	1,307	205	15.7%	71	5.4%

Table F-17 Environmental Justice Populations at the NAS Whidbey Island Complex under Alternative 3, Scenario E, High-Tempo FCLP Year

<i>DNL Contours¹</i>	<i>Total Affected Population²</i>	<i>Total Minority Population³</i>	<i>Percent Minority</i>	<i>Total Low-Income Population⁴</i>	<i>Percent Low Income</i>
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Sources: USCB 2012c, 2012f, n.d.[f].

Note:

- ¹ DNL contours extend into Jefferson and San Juan Counties. However, because no permanent residences are located within these DNL contours, these counties have been excluded from the analysis. Populations on military properties within the DNL contours (NAS Whidbey Island [Ault Field], the Seaplane Base, and OLF Coupeville) have also been excluded from the analysis.
- ² All population estimates for areas under the DNL contours utilized 2010 U.S. Census Bureau data. A 7.1-percent growth factor was applied to the 2010 census statistics to account for population changes between 2010 and 2020 based on medium forecasted population projections during that period for Island County (Washington State Office of Financial Management, 2017). To simplify the analysis, this growth factor was also used for areas of Skagit County that fall under the 65+ dB DNL contours. Section 4.11.2.2 describes the methodology utilized in the analysis in greater detail and also explains why Island County is utilized as the community of comparison throughout the analysis.
- ³ Minority is defined as individuals who are members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American, as well as individuals who self-identify as of Hispanic or Latino origin who are White. Individuals who self-identify as Hispanic or Latino from another race are already included in the analysis.
- ⁴ The analysis relied on poverty data from the 2006-2010 American Community Survey 5-Year Estimates because the U.S. Census Bureau no longer reports poverty data in the decennial census. The American Community Survey does not estimate data at the census block group level; therefore, the percent of the population below the poverty level is displayed in this table at the census tract level. Consequently, census block groups within the same census tract will report the same value.
- ⁵ The grey-shaded cells indicate the alternatives/scenarios that contain percentages of minority populations that are “meaningfully greater” than those in Island County as a whole or that contain percentages of low-income populations that are greater than those in Island County. These shaded cells indicate where environmental justice communities have been identified based upon the indicated thresholds. The following formula (the percent difference between two percentages) was used to calculate whether these statistics differed by more than 15 percent: $\frac{|V_1 - V_2|}{\frac{(V_1 + V_2)}{2}} \times 100$
- ⁶ Due to rounding, some totals may not sum.

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