

Skagit County
Mitigation 20/20 Task™
Estimated Population at Risk, by Hazard

Neighborhood Type		Estimated	Percent Population Considered At	Total Estimated Population At Risk
Anacortes				
Hazard Civil Disturbance				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	10%	221
Industrial/Manufacturing/Commercial	Mixed Use	1,231	30%	369
Residential	Residential	11,369	2%	227
Hazard Crime				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	10%	221
Industrial/Manufacturing/Commercial	Mixed Use	1,231	40%	492
Residential	Residential	11,369	5%	568
Hazard Drought				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	100%	2,214
Industrial/Manufacturing/Commercial	Mixed Use	1,231	20%	246
Residential	Residential	11,369	50%	5,685
Hazard Earthquake				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	10%	221
Industrial/Manufacturing/Commercial	Mixed Use	1,231	40%	492
Residential	Residential	11,369	40%	4,548
Hazard Economic Crisis				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	60%	739
Residential	Residential	11,369	40%	4,548
Hazard Flooding				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Residential	Residential	11,369	10%	1,137
Hazard Hazardous Materials				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	20%	246
Residential	Residential	11,369	20%	2,274

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Page 1 of 4

* Explanation of analysis methodology provided at end of report

	Neighborhood Type	Estimated	Percent Population Considered At	Total Estimated Population At Risk
Hazard High Winds				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	25%	554
Industrial/Manufacturing/Commercial	Mixed Use	1,231	20%	246
Residential	Residential	11,369	20%	2,274
Hazard Infestation, Disease				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	100%	2,214
Residential	Residential	11,369	80%	9,095
Hazard Key Employer Crisis				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	20%	246
Residential	Residential	11,369	100%	11,369
Hazard Landslide, Erosion				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Residential	Residential	11,369	10%	1,137
Hazard Lightning				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	10%	221
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Hazard Loss of Electrical Service				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	80%	985
Residential	Residential	11,369	100%	11,369
Hazard Loss of Gas Service				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	80%	985
Residential	Residential	11,369	100%	11,369
Hazard Loss of Sewer Service				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	80%	985
Residential	Residential	11,369	90%	10,232

	Neighborhood Type	Estimated	Percent Population Considered At	Total Estimated Population At Risk
Hazard Loss of Water Service				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	80%	985
Residential	Residential	11,369	90%	10,232
Hazard Major Fire - Urban				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	40%	492
Residential	Residential	11,369	40%	4,548
Hazard Major Fire -Wildland				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	100%	2,214
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Residential	Residential	11,369	5%	568
Hazard Radiological				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Residential	Residential	11,369	10%	1,137
Hazard Severe Winter Storm				
Neighborhood Name				
Forest Lands	Mixed Use	2,214	50%	1,107
Industrial/Manufacturing/Commercial	Mixed Use	1,231	100%	1,231
Residential	Residential	11,369	100%	11,369
Hazard Storm surge, Tsunami				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	10%	123
Residential	Residential	11,369	1%	114
Hazard Telecommunications				
Neighborhood Name				
Industrial/Manufacturing/Commercial	Mixed Use	1,231	100%	1,231
Residential	Residential	11,369	100%	11,369

Neighborhood Type	Estimated	Percent Population Considered At	Total Estimated Population At Risk
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To make jurisdiction-wide analysis of the population at risk for each hazard type feasible and practical for mitigation planning purposes, a simplified approach has been used. The estimate of the population at risk for specific hazards is accomplished in the following manner: The population in a specific neighborhood is estimated by local planners, based on readily available data or their best judgment in the absence of suitable data. The population could be residents, workers, visitors, institutionalized individuals, mixed population types, etc., depending on the characteristics of the neighborhood. The percentage of the area of the specific neighborhood threatened by the identified hazard is then estimated by local planners, again based on readily available data or their best judgment. The percent of the neighborhood at risk is then used as a multiplier to determine the estimated number of people at risk from that hazard. The methodology is simplistic but conservative, in that it assumes occupied structures are uniformly distributed throughout the neighborhood in relation to the area of risk, that the population is present in the neighborhood on a 24 hour, 7 day basis, and that all individuals are equally vulnerable to the impacts of the hazard event. The derived estimates for the number of people at risk may therefore be higher than actually is the case, but the estimates are considered satisfactory to support the local mitigation planning process.