Synopsis of Skagit River Hydrology Differences (November 2008)

Unregulated Peak Flow: Frequency Distribution Data Point Input Differences (cubic feet per second)

Consultant	Year				
	1897	**1909**	**1917**	**1921**	**1932**
Corps of Engineers	265,000	245,000	210,000	228,000	182,000
Northwest Hydraulic Consultants	220,000	205,000	185,000	195,000	182,000
Pacific International Engineering	181,200	179,000	158,700	169,700	165,000

100-Year Unregulated Peak Flow Estimates

Consultant	Location		
	Concrete	**Sedro-Woolley**	**Mount Vernon**
Corps of Engineers	278,000	272,220	237,500
Northwest Hydraulic Consultants	254,000	248,720	217,000
Pacific International Engineering	240,800	240,400	199,700

100-Year Regulated (includes effect of dam storage) Peak Flow Estimates

Consultant	Location		
	Concrete	**Sedro-Woolley**	**Mount Vernon**
Corps of Engineers	209,490	215,270	192,900*
Northwest Hydraulic Consultants	191,400	196,690	176,250*
Pacific International Engineering	184,400	184,700	162,200

*this flow is not possible at this location

500-Year Unregulated Peak Flow Estimates

Consultant	Location		
	Concrete	**Sedro-Woolley**	**Mount Vernon**
Corps of Engineers	373,000	371,670	324,270
Northwest Hydraulic Consultants	330,000	328,820	286,890
Pacific International Engineering	309,500	302,300	251,120

500-Year Regulated (includes effect of dam storage) Peak Flow Estimates

Consultant	Location		
	Concrete	**Sedro-Woolley**	**Mount Vernon**
Corps of Engineers	316,530	322,900	281,720
Northwest Hydraulic Consultants	268,080	274,180	239,210
Pacific International Engineering	229,400	231,700	195,700