

Table 18

**SUMMARY OF FLOOD DAMAGE OBSERVED AND PREVENTED**  
**Columbia River and Tributaries**

POINT	RIVER	UNREGULATED <sup>1</sup>			OBSERVED			CALCULATED DAMAGES	
		Flow (kcfs)	Stage (ft)	Date	Flow (kcfs)	Stage (ft)	Date	\$1000	
								Obs	Prev'd <sup>2</sup>
Bonniers Fry, ID	Kootenai		73.1	Jun 19		60.7	Jun 17	0	4,851
Columbia Fls, MT	Flathead	63.9		May 26	40.9		May 26	0	1,867
Hope, ID	Pend Oreille		2060.9	Jun 23		2062.5	Aug 19	0	0
Newport, WA	Pend Oreille	92.4		Jun 23	75.8		Jun 1	0	110
Cle Elum, WA	Yakima	11.1		May 25	5.8		Jun 26	0	159
Parker, WA	Yakima	29.2		May 26	13.3		May 26	0	4,250
Flat Creek, WY	Snake	24.3		Jun 18	19.9		Jun 18	28	723
Heise, ID	Snake	38.8		May 30	20.9		Jun 23	0	540
Shelly, ID	Snake	56.1		May 31	27.9		Jun 2	NA	NA
Carey, ID	Little Wood	0.80		Apr 3	0.79		Jun 19	0	52
Boise, ID	Boise	16.4		May 26	6.6		Mar 11	139	38,177
Owyhee, OR	Owyhee	7.8		May 27	2.6		Apr 20	0	15
Emmett, ID	Payette	23.2		May 30	12.2		May 30	0	918
Weiser, ID	Snake	110.3		Jun 4	50.6		May 26	0	15,300
Spalding, ID	Clearwater	86.2		May 26	56.8		May 26	0	0
Lwr Granite, WA	Snake	270.4		May 30	187.5		May 27	NA	NA
The Dalles, OR <sup>3</sup>	Columbia	714.8		Jun 20	379.3		Jun 4		33,260
Vancouver, WA	Columbia		24.6	Jun21		14.6	Dec 30		0.17
<b>COLUMBIA BASIN SUBTOTAL</b>									96,140
Salem, OR	Willamette	240.3		Dec 30	155.4		Dec 30		1,509,310
<b>GRAND TOTAL</b>									1,605,450

<sup>1</sup> In the Columbia River Basin, flows are those which would have resulted without regulation by Mica, Libby, Duncan, Arrow Lakes, Hungry Horse, Flathead, Noxon Rapids, Pend Oreille, Grand Coulee, Chelan, Jackson Lake, Palisades, American Falls, Dworshak, run-of-river projects, Grand Coulee pumping, and major irrigation diversions in the Snake and Yakima River Basins.

In the Willamette and western Washington Basins, flows are those which would have resulted without regulation by Hills Creek, Lookout Point, Falls Creek, Cottage Grove, Dorena, Fern Ridge, Blue River, Cougar, Detroit, Green Peter, Foster, Howard Hanson, Mud Mountain, Wynoochee, and Mossyrock Projects.

<sup>2</sup> Damages prevented are those prevented by reservoirs and diversions noted above. Additional damages prevented by levees and channel improvements are not included in the prevented amounts. Observed damages in uncontrolled tributaries are not included.

<sup>3</sup> Damages are included in the Vancouver, WA values.

\* The unregulated winter flood was slightly higher than the snowmelt flood: 31 Oct 1997 unregulated peak 9.55 kcfs with an corresponding observed peak of 1.74 kcfs on 1 Nov 1997.