

Table 15

**MONTHLY FORECASTS VERSUS ACTUAL RUNOFF
COLUMBIA RIVER ABOVE THE DALLES, OREGON**

YEAR	JANUARY – JULY RUNOFF VOLUME (KAF)						
	NWS FORECAST ISSUE DATE						OBSERVED ¹
	JAN 1	FEB 1	MAR 1	APR 1	MAY 1	JUN 1	
1970	82,500	99,500	93,400	94,300	95,100	---	95,700
1971	110,900	129,500	126,000	134,000	133,000	135,000	137,500
1972	110,100	128,000	138,700	146,100	146,000	146,000	151,700
1973	93,100	90,500	84,700	83,000	80,400	78,700	71,200
1974	123,000	140,000	146,000	149,000	147,000	147,000	156,300
1975	96,100	106,200	114,700	116,700	115,200	113,000	112,400
1976	113,000	116,000	121,000	124,000	124,000	124,000	122,800
1977	75,700	62,200	55,900	58,100	53,800	57,400	53,800
1978	120,000	114,000	108,000	101,000	104,000	105,000	105,600
1979	88,000	78,600	93,000	87,300	89,900	89,700	83,100
1980	88,900	88,900	88,900	89,700	90,600	97,700	95,800
1981	106,000	84,700	84,500	81,900	83,200	95,900	103,500
1982	110,000	120,000	126,000	130,000	131,000	128,000	129,900
1983	110,000	108,000	113,000	121,000	121,000	119,000	118,700
1984	113,000	103,000	97,600	102,000	107,000	114,000	119,000
1985	131,000	109,000	105,000	98,600	98,600	100,000	87,700
1986	96,800	93,300	103,300	106,000	108,000	108,000	108,300
1987	88,900	81,900	78,000	80,000	76,700	75,800	76,500
1988	79,200	74,800	72,700	74,000	76,100	75,000	72,700
1989	101,100	102,000	94,200	99,500	98,600	96,900	90,600
1990	86,500	101,000	104,000	96,000	96,000	99,500	99,700
1991	116,000	110,000	107,000	106,000	106,000	104,000	107,000
1992	92,600	89,100	83,300	71,200	71,200	67,800	70,400
1993	92,600	86,500	77,300	76,600	81,900	86,100	88,000
1994	79,700	76,300	78,100	73,200	75,500	74,600	75,000
1995	101,000	99,600	94,300	99,600	99,600	97,900	117,100
1996	116,000	122,000	130,000	126,000	134,000	141,000	139,300
1997	138,000	145,000	142,000	149,000	153,000	159,000	159,000
1998	86,400	95,200	91,700	90,800	89,100	101,000	104,050
1999	116,000	119,000	130,000	128,000	124,000	123,000	124,080
2000	105,000	106,000	105,000	105,000	105,000	102,000	98,000
2001	80,400	66,400	58,600	56,100	56,500	55,500	58,200
2002	98,700	101,000	97,300	96,400	98,200	100,000	103,800
2003	80,500	75,600	74,900	85,300	90,200	89,300	87,700

¹ Average 1971-2000 observed Jan-Jul runoff volume is 106.0 maf.