

**Table REC 4-24. Whitewater Boating Opportunities by Year and Water Year Type - Peaking Reach
Tunnel Chute Run (Indian Bar Rafting Access to Ruck-a-Chucky)**

Water Year and Year Type	Flow Range	Days Flows Meet Criteria													
		IMPAIRED							UNIMPAIRED						
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
Critical Dry															
1988	800 - 2500 cfs	0	0	21	25	21	17	84	27	20	0	0	0	0	47
1992	800 - 2500 cfs	0	9	15	25	23	10	82	29	9	0	0	0	0	38
1994	800 - 2500 cfs	0	4	27	27	23	3	84	30	21	0	0	0	0	51
Average		0	4	21	26	22	10	83	29	17	0	0	0	0	45
Dry															
1990	800 - 2500 cfs	0	2	18	28	28	16	92	28	19	8	0	0	0	55
1991	800 - 2500 cfs	14	14	24	26	27	12	117	28	22	10	0	0	0	60
2001	800 - 2500 cfs	12	22	22	28	29	28	141	18	16	0	0	0	0	34
2007	800 - 2500 cfs	5	16	20	29	31	26	127	28	21	0	0	0	0	49
Average		8	14	21	28	29	21	119	26	20	5	0	0	0	50
Below Normal															
1989	800 - 2500 cfs	25	31	27	16	31	15	145	7	24	18	0	0	0	49
2002	800 - 2500 cfs	24	28	28	28	26	7	141	12	16	14	0	0	0	42
2003	800 - 2500 cfs	28	25	28	30	31	30	172	14	3	11	0	0	0	28
2004	800 - 2500 cfs	22	29	29	30	30	30	170	16	24	5	0	0	0	45
Average		25	28	28	26	30	21	157	12	17	12	0	0	0	41
Above Normal															
1993	800 - 2500 cfs	22	30	29	30	31	11	153	0	0	14	9	0	0	23
1999	800 - 2500 cfs	25	31	29	29	30	19	163	16	1	17	5	0	0	39
2000	800 - 2500 cfs	27	31	29	31	31	20	169	11	13	18	0	0	0	42
2005	800 - 2500 cfs	30	14	26	22	17	26	135	0	0	15	13	0	0	28
Average		26	27	28	28	27	19	155	7	4	16	7	0	0	33
Wet															
1995	800 - 2500 cfs	0	0	5	30	30	15	80	0	0	0	17	0	0	17
1997	800 - 2500 cfs	30	31	29	29	31	18	168	19	23	21	0	0	0	63
1998	800 - 2500 cfs	9	15	18	31	30	26	129	15	2	0	13	0	0	30
2006	800 - 2500 cfs	0	5	30	31	29	17	112	0	0	20	1	0	0	21
Average		10	13	21	30	30	19	122	9	6	10	8	0	0	33

Table REC 4-25. Whitewater Boating Opportunities by Year and Water Year Type - Peaking Reach
 Mammoth Bar Run (Ruck-a-Chucky to Mammoth Bar)

Water Year and Year Type	Flow Range	Days Flows Meet Criteria													
		IMPAIRED						UNIMPAIRED							
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1988	500 - 2500 cfs	3	0	2	1	0	0	6	30	30	9	0	0	0	69
1992	500 - 2500 cfs	6	2	0	0	1	0	9	29	16	0	0	0	0	45
1994	500 - 2500 cfs	0	2	8	7	2	3	22	30	31	4	0	0	0	65
Average		3	1	3	1	1	1	12	30	26	4	0	0	0	60

Dry																		
		1990	1991	2001	Total												Average	
		500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1990	500 - 2500 cfs	10	2	6	26	28	16	88	28	28	28	16	0	0	0	0	0	72
1991	500 - 2500 cfs	28	31	25	24	24	11	143	28	28	21	18	1	0	0	0	0	68
2001	500 - 2500 cfs	19	9	9	19	15	42	92	23	23	20	0	0	0	34	1	0	43
Total		57	42	40	69	73	42	323	79	79	69	34	1	0	0	0	0	183
Average		19	14	13	23	24	14	108	26	23	23	11	0	0	0	0	0	61

Below Normal																			
		1989	2002	2003	2004	Average													
		500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1989	500 - 2500 cfs	23	31	27	11	21	6	119	6	24	24	0	24	0	0	0	0	2	56
2002	500 - 2500 cfs	30	21	2	1	0	3	57	10	16	21	0	21	0	0	0	0	0	47
2003	500 - 2500 cfs	28	23	27	15	19	22	134	11	1	20	0	20	0	0	0	0	0	32
2004	500 - 2500 cfs	23	31	27	11	20	6	118	13	24	20	0	20	0	0	0	0	0	57
Average		26	27	21	10	15	9	107	10	16	21	0	21	0	0	0	0	1	48

Above Normal																			
		1993	1999	2000	2005	Average													
		500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1993	500 - 2500 cfs	19	30	29	31	29	0	158	0	14	22	0	14	0	22	0	0	0	36
1999	500 - 2500 cfs	25	31	30	22	22	16	144	16	0	15	18	15	0	18	0	0	0	49
2000	500 - 2500 cfs	30	25	29	25	29	5	159	5	12	25	0	25	0	22	0	0	0	42
2005	500 - 2500 cfs	19	30	29	29	29	0	158	0	15	15	0	15	0	22	0	0	0	37
Average		23	30	28	27	28	5	155	3	17	16	0	16	0	0	0	0	0	41

Wet																			
		1995	1997	1998	2006	Average													
		500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	500 - 2500 cfs	Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1995	500 - 2500 cfs	0	0	4	28	31	16	79	0	0	0	0	0	0	22	15	0	0	37
1997	500 - 2500 cfs	30	27	19	27	31	17	151	19	20	29	0	29	0	29	0	0	0	68
1998	500 - 2500 cfs	7	12	18	30	31	25	123	14	0	0	0	19	0	19	0	0	0	33
2006	500 - 2500 cfs	0	0	5	29	31	16	81	0	0	0	0	19	0	19	0	0	0	38
Average		9	10	12	29	31	19	109	8	5	12	15	4	0	0	0	0	0	44

**Table REC 4-26. Whitewater Boating Opportunities by Year and Water Year Type - Peaking Reach
Murderer's Bar Run (Mammoth Bar to Confluence)**

Water Year and Year Type	Flow Range	Days Flows Meet Criteria													
		IMPAIRED							UNIMPAIRED						
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
Critical Dry															
1988	500 - 2500 cfs	7	0	3	9	7	0	26	30	30	9	0	0	0	69
1992	500 - 2500 cfs	8	2	1	0	1	1	13	29	16	0	0	0	0	45
1994	500 - 2500 cfs	0	2	14	4	0	2	22	30	31	4	0	0	0	65
Average		5	1	6	4	3	1	20	30	26	4	0	0	0	60
Dry															
1990	500 - 2500 cfs	12	4	13	28	30	20	107	28	28	16	0	0	0	72
1991	500 - 2500 cfs	29	31	26	28	26	16	156	28	21	18	1	0	0	68
2001	500 - 2500 cfs	21	12	3	11	21	2	70	23	20	0	0	0	0	43
Total		62	47	42	67	77	38	333	79	69	34	1	0	0	183
Average		21	16	14	22	26	13	111	26	23	11	0	0	0	61
Below Normal															
1989	500 - 2500 cfs	23	31	29	22	31	16	152	6	24	24	0	0	2	56
2002	500 - 2500 cfs	30	13	2	1	0	2	48	10	16	21	0	0	0	47
2003	500 - 2500 cfs	30	25	28	10	10	25	128	11	1	20	0	0	0	32
2004	500 - 2500 cfs	24	31	29	22	31	16	153	13	24	20	0	0	0	57
Average		27	25	22	14	18	15	120	10	16	21	0	0	1	48
Above Normal															
1993	500 - 2500 cfs	22	31	30	31	31	21	166	0	0	14	22	0	0	36
1999	500 - 2500 cfs	25	31	30	27	31	16	160	16	0	15	18	0	0	49
2000	500 - 2500 cfs	30	31	29	17	9	6	122	5	12	25	0	0	0	42
2005	500 - 2500 cfs	23	31	30	31	31	21	167	0	0	15	22	0	0	37
Average		25	31	30	27	26	16	154	5	3	17	16	0	0	41
Wet															
1995	500 - 2500 cfs	0	0	9	31	31	15	86	0	0	0	22	15	0	37
1997	500 - 2500 cfs	30	31	22	27	31	14	155	19	20	29	0	0	0	68
1998	500 - 2500 cfs	16	19	23	31	31	17	137	14	0	0	19	0	0	33
2006	500 - 2500 cfs	0	0	10	31	31	15	87	0	0	19	19	0	0	38
Average		12	13	16	30	31	15	116	8	5	12	15	4	0	44

Table REC 4-27. Whitewater Boating Opportunities by Year and Water Year Type - Peaking Reach
 Confluence Run (Confluence to Oregon Bar)

Water Year and Year Type	Flow Range	Days Flows Meet Criteria													
		IMPAIRED						UNIMPAIRED							
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1988	350 - 2500 cfs	30	1	23	18	8	2	82	30	31	16	0	0	0	77
1992	350 - 2500 cfs	30	22	7	2	3	3	67	30	21	0	0	0	0	51
1994	350 - 2500 cfs	30	31	21	12	4	3	101	30	31	9	0	0	0	70
Average		30	18	17	11	5	3	83	30	28	8	0	0	0	66

Dry															
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1990	350 - 2500 cfs	30	1	29	29	30	21	140	4	27	26	5	0	0	62
1991	350 - 2500 cfs	26	30	30	28	26	17	157	6	5	22	13	0	0	46
2001	350 - 2500 cfs	28	31	16	5	15	1	96	15	13	16	0	0	0	44
2007	350 - 2500 cfs	30	31	28	29	30	21	169	16	18	26	0	0	0	60
Average		29	23	26	23	25	15	141	10	16	23	5	0	0	53

Below Normal															
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1989	350 - 2500 cfs	4	1	29	22	31	18	105	6	24	28	0	0	0	60
2002	350 - 2500 cfs	14	31	28	0	6	4	83	10	16	24	0	0	0	50
2003	350 - 2500 cfs	12	0	21	12	27	27	93	11	1	21	6	0	0	39
2004	350 - 2500 cfs	5	24	29	22	31	17	128	13	24	23	0	0	0	60
Average		9	14	27	16	20	17	102	10	16	24	2	0	1	52

Above Normal															
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1993	350 - 2500 cfs	0	0	14	31	31	21	97	0	8	31	5	0	0	44
1999	350 - 2500 cfs	6	0	22	31	31	19	109	7	0	9	31	4	0	51
2000	350 - 2500 cfs	16	17	30	18	13	5	99	0	1	30	14	0	1	46
2005	350 - 2500 cfs	0	0	12	31	31	21	95	0	0	7	31	4	0	42
Average		6	4	20	28	27	17	100	2	0	14	27	3	0	46

Wet															
		Apr	May	Jun	Jul	Aug	Sep	Total	Apr	May	Jun	Jul	Aug	Sep	Total
1995	350 - 2500 cfs	0	0	20	31	31	18	69	0	0	18	31	1	1	50
1997	350 - 2500 cfs	24	27	30	31	31	18	161	14	10	28	17	0	1	70
1998	350 - 2500 cfs	0	0	22	31	28	28	81	0	0	19	26	14	14	59
2006	350 - 2500 cfs	0	0	28	31	31	18	77	0	0	15	31	8	0	54
Average		6	7	25	31	21	97	4	3	11	21	16	4	4	58