

**Table REC 4-23. 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
<b>Critical Dry</b>															
1988	800 - 2500 cfs	0	0	21	25	21	17	<b>84</b>	27	20	0	0	0	0	<b>47</b>
1992	800 - 2500 cfs	0	9	15	25	23	10	<b>82</b>	29	9	0	0	0	0	<b>38</b>
1994	800 - 2500 cfs	0	4	27	27	23	3	<b>84</b>	30	21	0	0	0	0	<b>51</b>
<b>Average</b>		<b>0</b>	<b>4</b>	<b>21</b>	<b>26</b>	<b>22</b>	<b>10</b>	<b>83</b>	<b>29</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>
<b>Dry</b>															
1990	800 - 2500 cfs	0	2	18	28	28	16	<b>92</b>	28	19	8	0	0	0	<b>55</b>
1991	800 - 2500 cfs	14	14	24	26	27	12	<b>117</b>	28	22	10	0	0	0	<b>60</b>
2001	800 - 2500 cfs	12	22	22	28	29	28	<b>141</b>	18	16	0	0	0	0	<b>34</b>
2007	800 - 2500 cfs	5	16	20	29	31	26	<b>127</b>	28	21	0	0	0	0	<b>49</b>
<b>Average</b>		<b>8</b>	<b>14</b>	<b>21</b>	<b>28</b>	<b>29</b>	<b>21</b>	<b>119</b>	<b>26</b>	<b>20</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>
<b>Below Normal</b>															
1989	800 - 2500 cfs	25	31	27	16	31	15	<b>145</b>	7	24	18	0	0	0	<b>49</b>
2002	800 - 2500 cfs	24	28	28	28	26	7	<b>141</b>	12	16	14	0	0	0	<b>42</b>
2003	800 - 2500 cfs	28	25	28	30	31	30	<b>172</b>	14	3	11	0	0	0	<b>28</b>
2004	800 - 2500 cfs	22	29	29	30	30	30	<b>170</b>	16	24	5	0	0	0	<b>45</b>
<b>Average</b>		<b>25</b>	<b>28</b>	<b>28</b>	<b>26</b>	<b>30</b>	<b>21</b>	<b>157</b>	<b>12</b>	<b>17</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>
<b>Above Normal</b>															
1993	800 - 2500 cfs	22	30	29	30	31	11	<b>153</b>	0	0	14	9	0	0	<b>23</b>
1999	800 - 2500 cfs	25	31	29	29	30	19	<b>163</b>	16	1	17	5	0	0	<b>39</b>
2000	800 - 2500 cfs	27	31	29	31	31	20	<b>169</b>	11	13	18	0	0	0	<b>42</b>
2005	800 - 2500 cfs	30	14	26	22	17	26	<b>135</b>	0	0	15	13	0	0	<b>28</b>
<b>Average</b>		<b>26</b>	<b>27</b>	<b>28</b>	<b>28</b>	<b>27</b>	<b>19</b>	<b>155</b>	<b>7</b>	<b>4</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>33</b>
<b>Wet</b>															
1995	800 - 2500 cfs	0	0	5	30	30	15	<b>80</b>	0	0	0	17	0	0	<b>17</b>
1997	800 - 2500 cfs	30	31	29	29	31	18	<b>168</b>	19	23	21	0	0	0	<b>63</b>
1998	800 - 2500 cfs	9	15	18	31	30	26	<b>129</b>	15	2	0	13	0	0	<b>30</b>
2006	800 - 2500 cfs	0	5	30	31	29	17	<b>112</b>	0	0	20	1	0	0	<b>21</b>
<b>Average</b>		<b>10</b>	<b>13</b>	<b>21</b>	<b>30</b>	<b>30</b>	<b>19</b>	<b>122</b>	<b>9</b>	<b>6</b>	<b>10</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>33</b>

**Table REC 4-24. 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
<b>Critical Dry</b>															
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	45	
1994	500 - 2500 cfs	0	2	8	7	2	3	22	30	31	4	0	0	65	
<b>Average</b>		3	1	3	3	1	1	12	30	26	4	0	0	60	
<b>Dry</b>															
1990	500 - 2500 cfs	10	2	6	26	28	16	88	28	28	16	0	0	72	
1991	500 - 2500 cfs	28	31	25	24	24	11	143	28	21	18	1	0	68	
2001	500 - 2500 cfs	19	9	9	19	21	15	92	23	20	0	0	0	43	
<b>Total</b>		57	42	40	69	73	42	323	79	69	34	1	0	183	
<b>Average</b>		19	14	13	23	24	14	108	26	23	11	0	0	61	
<b>Below Normal</b>															
1989	500 - 2500 cfs	23	31	27	11	21	6	119	6	24	24	0	0	2	56
2002	500 - 2500 cfs	30	21	2	1	0	3	57	10	16	21	0	0	47	
2003	500 - 2500 cfs	28	23	27	15	19	22	134	11	1	20	0	0	32	
2004	500 - 2500 cfs	23	31	27	11	20	6	118	13	24	20	0	0	57	
<b>Average</b>		26	27	21	10	15	9	107	10	16	21	0	0	48	
<b>Above Normal</b>															
1993	500 - 2500 cfs	19	30	29	29	31	20	158	0	0	14	22	0	0	36
1999	500 - 2500 cfs	25	31	30	22	24	12	144	16	0	15	18	0	0	49
2000	500 - 2500 cfs	30	30	25	29	25	20	159	5	12	25	0	0	42	
2005	500 - 2500 cfs	19	30	29	29	31	20	158	0	0	15	22	0	0	37
<b>Average</b>		23	30	28	27	28	18	155	5	3	17	16	0	0	41
<b>Wet</b>															
1995	500 - 2500 cfs	0	0	4	28	31	16	79	0	0	0	22	15	0	37
1997	500 - 2500 cfs	30	27	19	27	31	17	151	19	20	29	0	0	68	
1998	500 - 2500 cfs	7	12	18	30	31	25	123	14	0	0	19	0	0	33
2006	500 - 2500 cfs	0	0	5	29	31	16	81	0	0	19	19	0	0	38
<b>Average</b>		9	10	12	29	31	19	109	8	5	12	15	4	0	44

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

**Table REC 4-26. 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
<b>Critical Dry</b>															
1988	350 - 2500 cfs	30	1	23	18	8	2	<b>82</b>	30	31	16	0	0	0	<b>77</b>
1992	350 - 2500 cfs	30	22	7	2	3	3	<b>67</b>	30	21	0	0	0	0	<b>51</b>
1994	350 - 2500 cfs	30	31	21	12	4	3	<b>101</b>	30	31	9	0	0	0	<b>70</b>
<b>Average</b>		<b>30</b>	<b>18</b>	<b>17</b>	<b>11</b>	<b>5</b>	<b>3</b>	<b>83</b>	<b>30</b>	<b>28</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66</b>
<b>Dry</b>															
1990	350 - 2500 cfs	30	1	29	29	30	21	<b>140</b>	4	27	26	5	0	0	<b>62</b>
1991	350 - 2500 cfs	26	30	30	28	26	17	<b>157</b>	6	5	22	13	0	0	<b>46</b>
2001	350 - 2500 cfs	28	31	16	5	15	1	<b>96</b>	15	13	16	0	0	0	<b>44</b>
2007	350 - 2500 cfs	30	31	28	29	30	21	<b>169</b>	16	18	26	0	0	0	<b>60</b>
<b>Average</b>		<b>29</b>	<b>23</b>	<b>26</b>	<b>23</b>	<b>25</b>	<b>15</b>	<b>141</b>	<b>10</b>	<b>16</b>	<b>23</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>53</b>
<b>Below Normal</b>															
1989	350 - 2500 cfs	4	1	29	22	31	18	<b>105</b>	6	24	28	0	0	2	<b>60</b>
2002	350 - 2500 cfs	14	31	28	0	6	4	<b>83</b>	10	16	24	0	0	0	<b>50</b>
2003	350 - 2500 cfs	12	0	21	21	12	27	<b>93</b>	11	1	21	6	0	0	<b>39</b>
2004	350 - 2500 cfs	5	24	29	22	31	17	<b>128</b>	13	24	23	0	0	0	<b>60</b>
<b>Average</b>		<b>9</b>	<b>14</b>	<b>27</b>	<b>16</b>	<b>20</b>	<b>17</b>	<b>102</b>	<b>10</b>	<b>16</b>	<b>24</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>52</b>
<b>Above Normal</b>															
1993	350 - 2500 cfs	0	0	14	31	31	21	<b>97</b>	0	0	8	31	5	0	<b>44</b>
1999	350 - 2500 cfs	6	0	22	31	31	19	<b>109</b>	7	0	9	31	4	0	<b>51</b>
2000	350 - 2500 cfs	16	17	30	18	13	5	<b>99</b>	0	1	30	14	0	1	<b>46</b>
2005	350 - 2500 cfs	0	0	12	31	31	21	<b>95</b>	0	0	7	31	4	0	<b>42</b>
<b>Average</b>		<b>6</b>	<b>4</b>	<b>20</b>	<b>28</b>	<b>27</b>	<b>17</b>	<b>100</b>	<b>2</b>	<b>0</b>	<b>14</b>	<b>27</b>	<b>3</b>	<b>0</b>	<b>46</b>
<b>Wet</b>															
1995	350 - 2500 cfs	0	0	0	20	31	18	<b>69</b>	0	0	0	18	31	1	<b>50</b>
1997	350 - 2500 cfs	24	27	30	31	31	18	<b>161</b>	14	10	28	17	0	1	<b>70</b>
1998	350 - 2500 cfs	0	0	0	22	31	28	<b>81</b>	0	0	0	19	26	14	<b>59</b>
2006	350 - 2500 cfs	0	0	0	28	31	18	<b>77</b>	0	0	15	31	8	0	<b>54</b>
<b>Average</b>		<b>6</b>	<b>7</b>	<b>8</b>	<b>25</b>	<b>31</b>	<b>21</b>	<b>97</b>	<b>4</b>	<b>3</b>	<b>11</b>	<b>21</b>	<b>16</b>	<b>4</b>	<b>58</b>