

**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
<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 4-25. 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
<b>Average</b>		<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>12</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>															
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
1990	500 - 2500 cfs	10	2	6	26	28	16	88	28	28	16	0	0	0	72
1991	500 - 2500 cfs	28	31	25	24	11	11	143	28	28	21	18	1	0	68
2001	500 - 2500 cfs	19	9	9	19	15	15	92	23	23	20	0	0	0	43
<b>Total</b>		<b>57</b>	<b>42</b>	<b>40</b>	<b>69</b>	<b>73</b>	<b>42</b>	<b>323</b>	<b>79</b>	<b>79</b>	<b>69</b>	<b>34</b>	<b>1</b>	<b>0</b>	<b>183</b>
<b>Average</b>		<b>19</b>	<b>14</b>	<b>13</b>	<b>23</b>	<b>24</b>	<b>14</b>	<b>108</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>															
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
1989	500 - 2500 cfs	23	31	27	11	21	6	119	24	24	24	0	0	0	56
1992	500 - 2500 cfs	30	21	2	1	0	3	57	10	16	21	0	0	0	47
2003	500 - 2500 cfs	28	23	27	15	19	22	134	1	20	20	0	0	0	32
2004	500 - 2500 cfs	23	31	27	11	20	6	118	13	24	20	0	0	0	57
<b>Average</b>		<b>26</b>	<b>27</b>	<b>21</b>	<b>10</b>	<b>15</b>	<b>9</b>	<b>107</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>															
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
1993	500 - 2500 cfs	19	30	29	31	20	0	158	0	14	22	0	0	0	36
1999	500 - 2500 cfs	25	31	30	22	24	12	144	16	16	15	18	0	0	49
2000	500 - 2500 cfs	30	30	25	29	25	29	159	5	20	25	0	0	0	42
2005	500 - 2500 cfs	19	30	29	31	20	0	158	0	15	22	0	0	0	37
<b>Average</b>		<b>23</b>	<b>30</b>	<b>28</b>	<b>27</b>	<b>28</b>	<b>18</b>	<b>155</b>	<b>5</b>	<b>17</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>

<b>Wet</b>															
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
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	19	20	29	0	0	68
1998	500 - 2500 cfs	7	12	18	30	31	25	123	14	14	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>		<b>9</b>	<b>10</b>	<b>12</b>	<b>29</b>	<b>31</b>	<b>19</b>	<b>109</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  
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 4-27. 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
<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>

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
<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>

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	2	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
<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>

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
<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>

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	0	59
2006	350 - 2500 cfs	0	0	28	31	31	18	77	0	0	15	31	8	0	54
<b>Average</b>		<b>6</b>	<b>7</b>	<b>25</b>	<b>31</b>	<b>25</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>