### Risk Assessment Matrix

<table>
<thead>
<tr>
<th>SEVERITY</th>
<th>PROBABILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frequent</td>
</tr>
<tr>
<td>E = Extremely High Risk</td>
<td>A</td>
</tr>
<tr>
<td>H = High Risk</td>
<td>E</td>
</tr>
<tr>
<td>M = Moderate Risk</td>
<td>E</td>
</tr>
<tr>
<td>L = Low Risk</td>
<td>H</td>
</tr>
</tbody>
</table>

Table 3-1. Risk Assessment Matrix
<table>
<thead>
<tr>
<th>PROBABILITY</th>
<th>Frequent</th>
<th>Likely</th>
<th>Occasional</th>
<th>Seldom</th>
<th>Unlikely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequent –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occurs very often</td>
<td></td>
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<td></td>
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<tr>
<td>known to happen</td>
<td></td>
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<tr>
<td>regularly.</td>
<td></td>
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<tr>
<td>Likely –</td>
<td></td>
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<td></td>
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<tr>
<td>Occurs several</td>
<td></td>
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<tr>
<td>times, a</td>
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<tr>
<td>common</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>occurrence.</td>
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<td></td>
</tr>
<tr>
<td>Occasional –</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Occurs</td>
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<tr>
<td>sporadically, but</td>
<td></td>
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<tr>
<td>is not</td>
<td></td>
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</tr>
<tr>
<td>uncommon.</td>
<td></td>
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<tr>
<td>Seldom –</td>
<td></td>
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<tr>
<td>Remotely</td>
<td></td>
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<tr>
<td>possible, could</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>occur at some</td>
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<tr>
<td>time.</td>
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</tr>
<tr>
<td>Unlikely –</td>
<td></td>
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<tr>
<td>Can assume it will</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>not occur, but</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>not impossible.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

| SEVERITY       | I | II | III | IV |
| Complete mission failure or the loss of ability to accomplish a mission. | Death or permanent total disability. | Loss of major or mission-critical systems or equipment. | Major property or facility damage. | Severe environmental damage. | Mission-critical security failure. | Unacceptable collateral damage. |
| Severely degraded mission capability or unit readiness. | Permanent partial disability or temporary total disability exceeding three months time. | Extensive major damage to equipment or systems. | Significant damage to property or the environment. | Security failure. | Significant collateral damage. |
| Degraded mission capability or unit readiness. | Minor damage to equipment or systems, property, or the environment. | Lost days due to injury or illness not exceeding three months. | Minor damage to property or the environment. |
| Little or no adverse impact on mission capability. | First aid or minor medical treatment. | Slight equipment or system damage, but fully functional or serviceable. | Little or no property or environmental damage. |

Table 3-2. Risk assessment probability
### Work/Rest and Water Consumption Table

*Applies to average sized, heat-acclimated soldier wearing BDU, hot weather. (See TB MED 507 for further guidance.)*

<table>
<thead>
<tr>
<th>Heat Category</th>
<th>WBGT Index, °F</th>
<th>Easy Work</th>
<th>Moderate Work</th>
<th>Hard Work</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Work/Rest (min)</td>
<td>Water Intake (qt/hr)</td>
<td>Work/Rest (min)</td>
</tr>
<tr>
<td>1</td>
<td>70°F - 81.9°F</td>
<td>NL</td>
<td>½</td>
<td>NL</td>
</tr>
<tr>
<td>2 (GREEN)</td>
<td>82°F - 84.9°F</td>
<td>NL</td>
<td>½</td>
<td>50/10 min</td>
</tr>
<tr>
<td>3 (YELLOW)</td>
<td>85°F - 87.9°F</td>
<td>NL</td>
<td>½</td>
<td>40/20 min</td>
</tr>
<tr>
<td>4 (RED)</td>
<td>88°F - 89.9°F</td>
<td>NL</td>
<td>½</td>
<td>30/30 min</td>
</tr>
<tr>
<td>5 (DARK)</td>
<td>&gt; 90°F</td>
<td>50/10 min</td>
<td>1</td>
<td>20/40 min</td>
</tr>
</tbody>
</table>

- The work/rest times and fluid replacement volumes will sustain performance and hydration for at least 4 hrs of work in the specified heat category. Fluid needs can vary based on individual differences (± ¼ qt/hr) and exposure to full sun or full shade (± ¼ qt/hr). NL = no limit to work time per hr.
- Rest = minimal physical activity (sitting or standing) accomplished in shade if possible.
- **CAUTION:** Hourly fluid intake should not exceed 1½ qts. Daily fluid intake should not exceed 12 qts.

- If wearing body armor, add 5°F to WBGT index in humid climates.
- If doing Easy Work and wearing NBC (MOPP 4) clothing, add 10°F to WBGT index.
- If doing Moderate or Hard Work and wearing NBC (MOPP 4) clothing, add 20°F to WBGT index.

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