# Hazards and Vulnerability Assessment Worksheet

<table>
<thead>
<tr>
<th>Type of Risk/Hazard</th>
<th>Probability</th>
<th>Human Impact +</th>
<th>Property Impact +</th>
<th>Business Impact +</th>
<th>Internal Resources +</th>
<th>External Resources +</th>
<th>= TOTAL</th>
<th>Probability X Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>High to Low 5 → 1</td>
<td>High Impact 5 → 1 Low Impact</td>
<td>Weak 5 → 1 Strong</td>
<td>Weighted Measure for Planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Probability**: High to Low 5 → 1
- **Human Impact +**: High Impact 5 → 1 Low Impact
- **Property Impact +**: Weak 5 → 1 Strong
- **Business Impact +**: Weighted Measure for Planning
- **Internal Resources +**: Weighted Measure for Planning
- **External Resources +**: Weighted Measure for Planning
- **= TOTAL**: Weighted Measure for Planning
- **Probability X Total**: Weighted Measure for Planning
Completing the Hazards and Vulnerability Assessment Worksheet

Use the matrix to calculate risk.  \[ \text{Probability} \times \text{Severity} = \text{Risk} \quad (\text{Severity} = \text{Impact} + \text{Resources}) \]

Total each hazard.  The higher the calculated risk, the higher the priority to mitigate.

1. List hazards in first column.

2. Estimate the probability
   based on history and other known facts.

3. Assess the potential human impact
   by estimating the possibility of death or injury.

4. Assess the potential property impact
   considering potential losses and damages
   - Cost to replace
   - Cost to temporarily replace
   - Cost to repair

5. Assess the potential business impact
   - Business functions
   - Operations
   - Service or supply chain
   - Product distribution
   - Revenue streams
   - Reputation
   - Fines, penalties, and legal expenses
   - Employees unable to report to work
   - Site(s) inaccessible to customers
   - Contract violations

6. Assess Internal and External Resources
   - Do response and recovery resources exist internally?
   - Will external resources respond as quickly and effectively as needed?

The HVA assists to develop various plans, and your training, and exercise efforts