ENERGY RELEASE COMPONENT
- ERC is calculated from the 1300 RAWS daily observation of temperature, humidity, daily temperature & RH ranges, and precipitation.
- ERC has low variability and is the best fire danger component for indicating effects of intermediate to long-term drying on fire behavior. This index can serve as a good characterization of seasonal trends.
- Wind is NOT part of the ERC calculation.

BURNING INDEX
- BI gives day to day fluctuations calculated from the 1300 RAWS daily observation of temperature, wind, RH, daily temperature & RH ranges, and precipitation duration.
- Wind has a major influence on BI.
- BI is an estimate of the potential difficulty of fire control as a function of how fast and how hot a fire could burn.

LOCAL THRESHOLDS: CENTRAL FIRE DANGER RATING AREA
- Critical Percentiles for ERC and BI were determined through historical fire analysis
- Any combination of the following greatly increase the likelihood of extreme fire behavior:
  - Temperatures above 85
  - RH below 20%
  - Eye Level Winds >10 mph, especially when wind direction aligns with major drainages
  - Haines Index of 5 or 6
  - Live Fuel Moisture (Sagebrush) of 120 or less

SIGNIFICANT HISTORICAL FIRES

<table>
<thead>
<tr>
<th>DATE</th>
<th>FIRE NAME</th>
<th>SIZE</th>
<th>BI</th>
<th>ERC</th>
<th>TEMP</th>
<th>RH</th>
<th>WIND</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/14/14</td>
<td>Preacher</td>
<td>33,867</td>
<td>124</td>
<td>87</td>
<td>93</td>
<td>16</td>
<td>11</td>
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<tr>
<td>8/9/13</td>
<td>Beaver Creek</td>
<td>111,497</td>
<td>137</td>
<td>96</td>
<td>84</td>
<td>15</td>
<td>11</td>
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<tr>
<td>8/9/13</td>
<td>McCann</td>
<td>23,389</td>
<td>137</td>
<td>96</td>
<td>84</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

This pocket card was approved by the Sawtooth National Forest and Twin Falls BLM Fire Programs.