

Stable Distribution Intuitions

Peril	Standard Alpha
Earthquake	0.6 – 1.0
Windstorm	0.8 – 1.3
Flood	1.0 – 1.5
Convective storm	1.8 – 2.2
Wildfire	1.5 – 1.8

```
Manipulate[Module[{dist, plot}, dist = StableDistribution[alpha, beta, mu, 1];  
  plot = Plot[PDF[dist, x], {x, -10, 10}, PlotRange -> All,  
    PlotLabel -> Row[{"Stable Distribution:  $\alpha$  = ", alpha}]],  
  {{alpha, 1, "Tail Exponent ( $\alpha$ )"}, 0.1, 2, 0.1},  
  {{beta, 0, "Skewness Parameter ( $\beta$ )"}, -1, 1, 0.1},  
  {{mu, 0, "Location Parameter ( $\mu$ )"}, -10, 10, 0.1}]
```

Out[]=

