



California Threat and Hazards Survey

March, 2014

Data Set and Charts

As of 20 March, 2014

Hazards and Threats	Probability	Stress/Impact
Drought	3.59	3.10
Extreme Heat	3.23	3.06
Wildfire	3.13	2.86
Earthquake	3.12	2.74
Flood	3.11	2.49
Severe Storm	2.97	1.91
Cyber Terrorism directed against critical infrastructure	2.87	1.87
Hazardous Material Release	2.73	2.35
Climate Related Hazards	2.51	1.30
Train Accident	2.48	2.98
Epidemic/Pandemic	2.46	2.27
Natural Gas Pipeline Failure	2.42	1.84
Terrorism	2.40	2.00
Civil Disturbance	2.38	2.36
Freeze	2.37	2.69
Agricultural Pests and Diseases	2.37	2.78
Insect Pests and Diseases	2.30	2.42
Landslide	2.28	2.11
Oil Spill	2.26	2.35
Toxic Inhalation Hazard Release	2.26	2.41
Multiple attackers at a single mass gathering/economic target	2.23	2.36
Vehicle-borne Improvised Explosive Device (VBIED) to critical infrastructure	2.07	2.43
Vehicle-borne Improvised Explosive Device (VBIED) to a mass gathering location	2.00	2.30
Dam/Levee Failure	1.99	2.64
Multiple attackers directed against multiple locations/targets	1.99	2.03
Biological Incident	1.83	2.80
Radiological Incident	1.69	2.69
Sea Level Rise/Coastal Flooding	1.67	2.60
Weapon of mass destruction in a major metropolitan center	1.64	2.55
Tsunami	1.51	2.48
Avalanche	1.47	2.55
Volcano	0.92	3.23

Not Probable or No Stress/Impact = 0

Very Unlikely to Occur or Little Stress/Impact = 1

Unlikely to Occur or Some Stress/Impact = 2

Likely to Occur or Major Stress/Impact = 3

Very Likely to Occur or Severe Stress/Impact = 4

Hazards and Threats	Probability	Stress/Impact
Volcano	0.92	3.23
Drought	3.59	3.10
Extreme Heat	3.23	3.06
Train Accident	2.48	2.98
Wildfire	3.13	2.86
Biological Incident	1.83	2.80
Agricultural Pests and Diseases	2.37	2.78
Earthquake	3.12	2.74
Freeze	2.37	2.69
Radiological Incident	1.69	2.69
Dam/Levee Failure	1.99	2.64
Sea Level Rise/Coastal Flooding	1.67	2.60
Avalanche	1.47	2.55
Weapon of mass destruction in a major metropolitan center	1.64	2.55
Flood	3.11	2.49
Tsunami	1.51	2.48
Vehicle-borne Improvised Explosive Device (VBIED) to critical infrastructure	2.07	2.43
Insect Pests and Diseases	2.30	2.42
Toxic Inhalation Hazard Release	2.26	2.41
Multiple attackers at a single mass gathering/economic target	2.23	2.36
Civil Disturbance	2.38	2.36
Hazardous Material Release	2.73	2.35
Oil Spill	2.26	2.35
Vehicle-borne Improvised Explosive Device (VBIED) to a mass gathering location	2.00	2.30
Epidemic/Pandemic	2.46	2.27
Landslide	2.28	2.11
Multiple attackers directed against multiple locations/targets	1.99	2.03
Terrorism	2.40	2.00
Severe Storm	2.97	1.91
Cyber Terrorism directed against critical infrastructure	2.87	1.87
Natural Gas Pipeline Failure	2.42	1.84
Climate Related Hazards	2.51	1.30

Not Probable or No Stress/Impact = 0

Very Unlikely to Occur or Little Stress/Impact = 1

Unlikely to Occur or Some Stress/Impact = 2

Likely to Occur or Major Stress/Impact = 3

Very Likely to Occur or Severe Stress/Impact = 4

Hazards and Threats	Probability	Stress/Impact	Total
Drought	3.59	3.10	11.13
Extreme Heat	3.23	3.06	9.87
Wildfire	3.13	2.86	8.96
Earthquake	3.12	2.74	8.56
Flood	3.11	2.49	7.74
Train Accident	2.48	2.98	7.40
Agricultural Pests and Diseases	2.37	2.78	6.58
Hazardous Material Release	2.73	2.35	6.42
Freeze	2.37	2.69	6.39
Severe Storm	2.97	1.91	5.66
Civil Disturbance	2.38	2.36	5.62
Epidemic/Pandemic	2.46	2.27	5.60
Insect Pests and Diseases	2.30	2.42	5.57
Toxic Inhalation Hazard Release	2.26	2.41	5.43
Cyber Terrorism directed against critical infrastructure	2.87	1.87	5.35
Oil Spill	2.26	2.35	5.30
Dam/Levee Failure	1.99	2.64	5.25
Multiple attackers at a single mass gathering/economic target	2.23	2.36	5.25
Biological Incident	1.83	2.80	5.11
Vehicle-borne Improvised Explosive Device (VBIED) to critical infrastructure	2.07	2.43	5.04
Landslide	2.28	2.11	4.81
Terrorism	2.40	2.00	4.79
Vehicle-borne Improvised Explosive Device (VBIED) to a mass gathering location	2.00	2.30	4.60
Radiological Incident	1.69	2.69	4.54
Natural Gas Pipeline Failure	2.42	1.84	4.46
Sea Level Rise/Coastal Flooding	1.67	2.60	4.34
Weapon of mass destruction in a major metropolitan center	1.64	2.55	4.18
Multiple attackers directed against multiple locations/targets	1.99	2.03	4.03
Avalanche	1.47	2.55	3.74
Tsunami	1.51	2.48	3.73
Climate Related Hazards	2.51	1.30	3.26
Volcano	0.92	3.23	2.97

Not Probable or No Stress/Impact = 0

Very Unlikely to Occur or Little Stress/Impact = 1

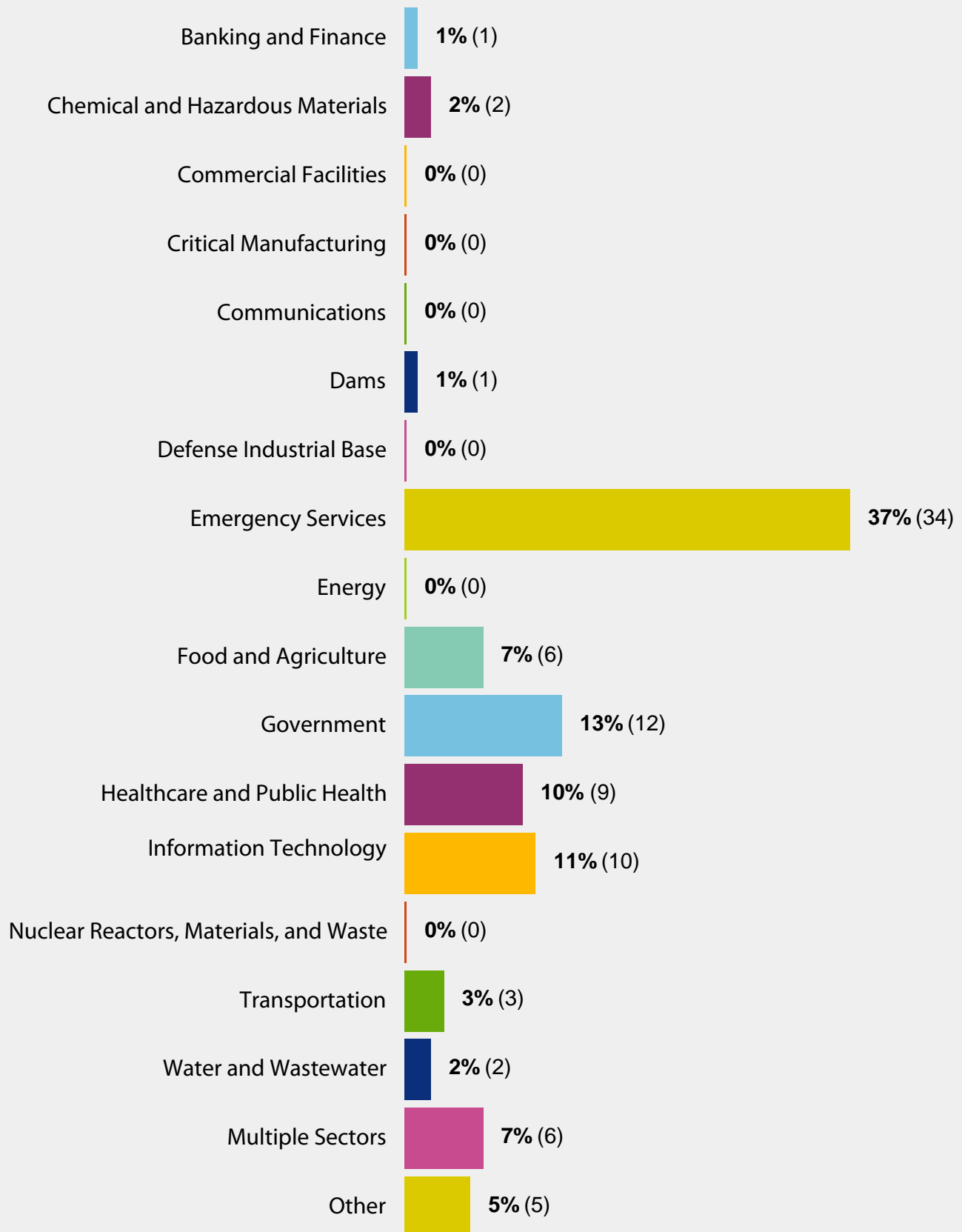
Unlikely to Occur or Some Stress/Impact = 2

Likely to Occur or Major Stress/Impact = 3

Very Likely to Occur or Severe Stress/Impact = 4

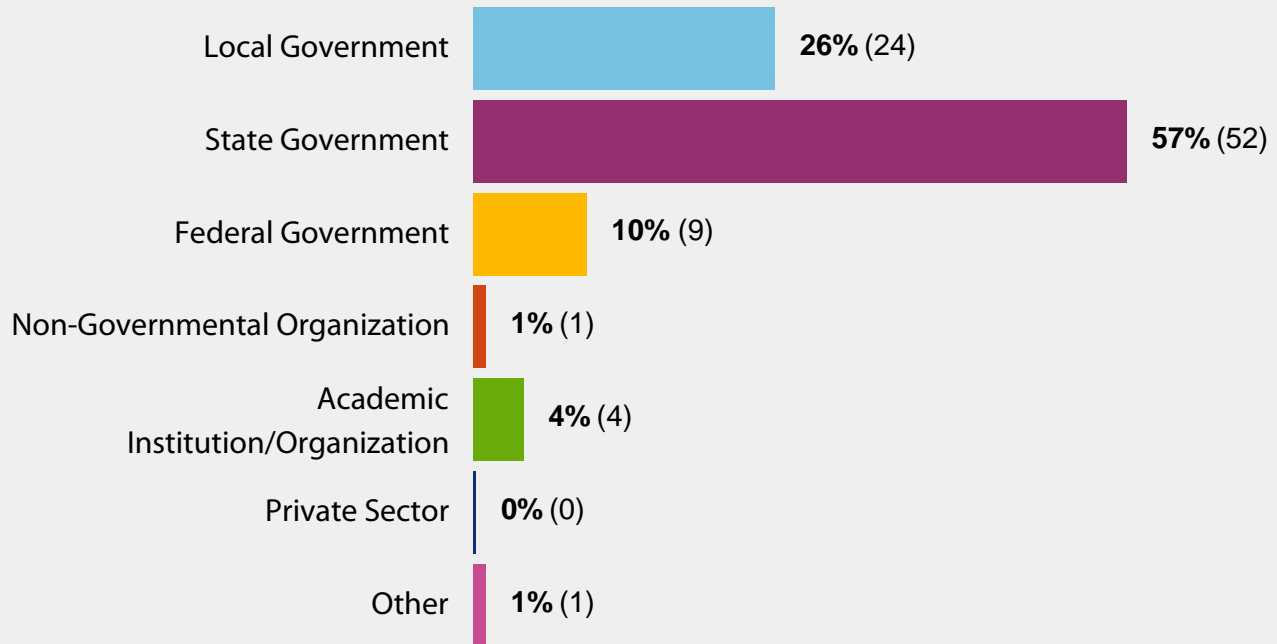
Probability X Stress/Impact = Total

Functional Area of Experience/Knowledge



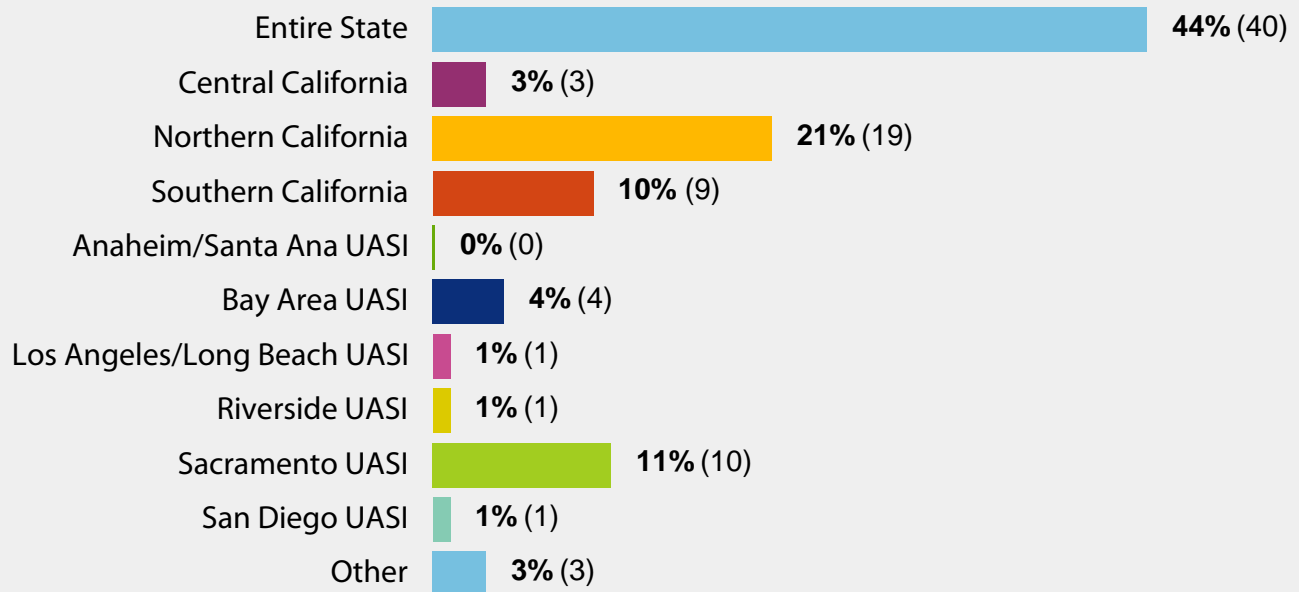
* 91 total responses, 100% of submissions

Affiliation



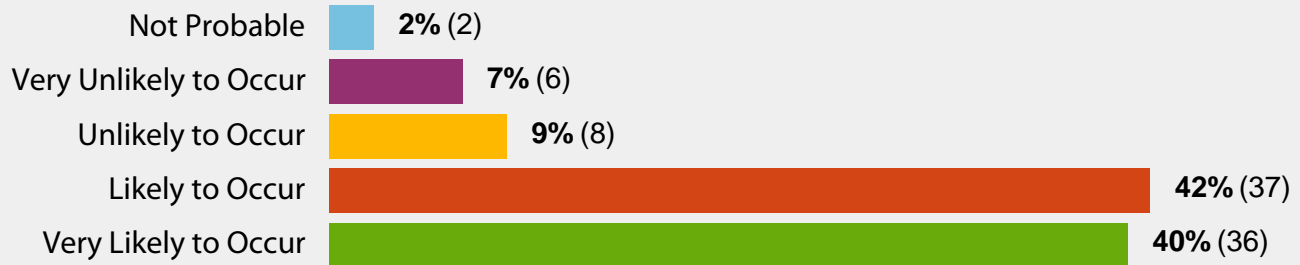
* 91 total responses, 100% of submissions

Geographic Area of Experience/Knowledge



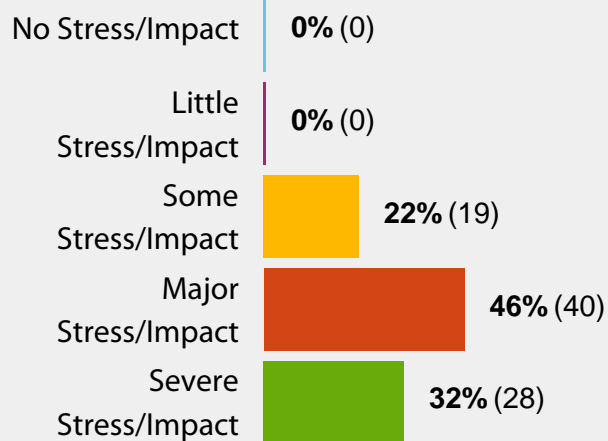
* 91 total responses, 100% of submissions

Overall Natural Hazard Probability



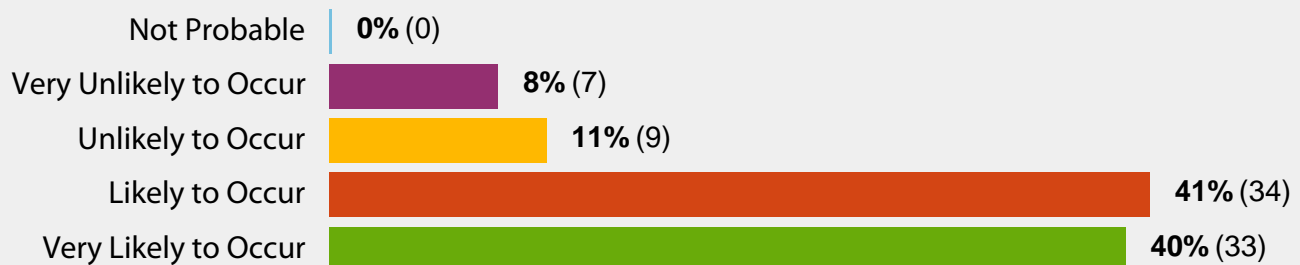
* 89 total responses, 98% of submissions

Overall Natural Hazard Stress/Impact



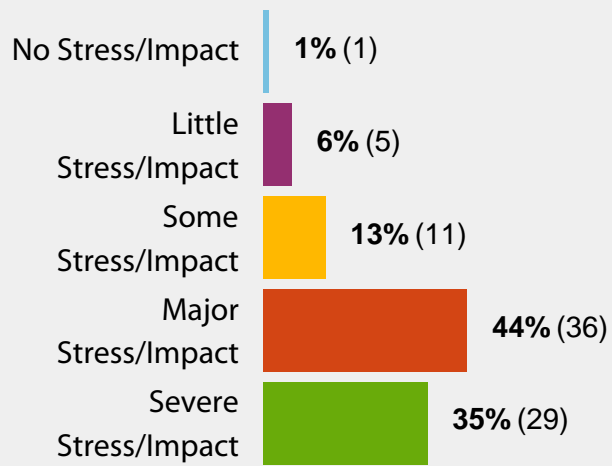
* 87 total responses, 96% of submissions

Earthquake Probability



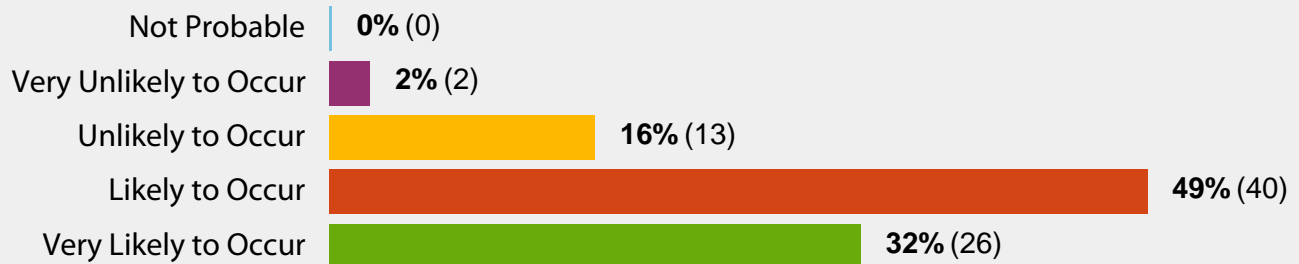
* 83 total responses, 91% of submissions

Earthquake Stress/Impact



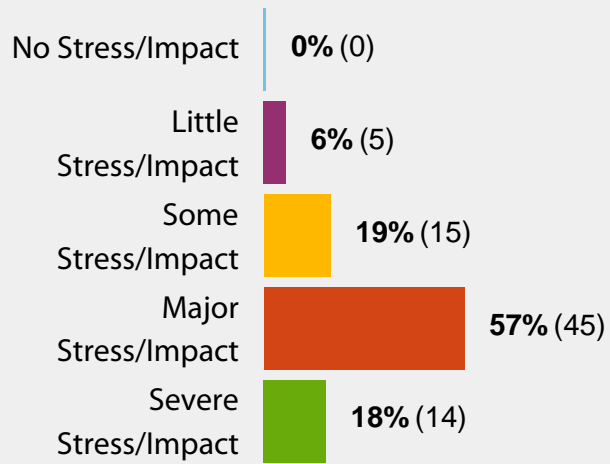
* 82 total responses, 90% of submissions

Flood Probability



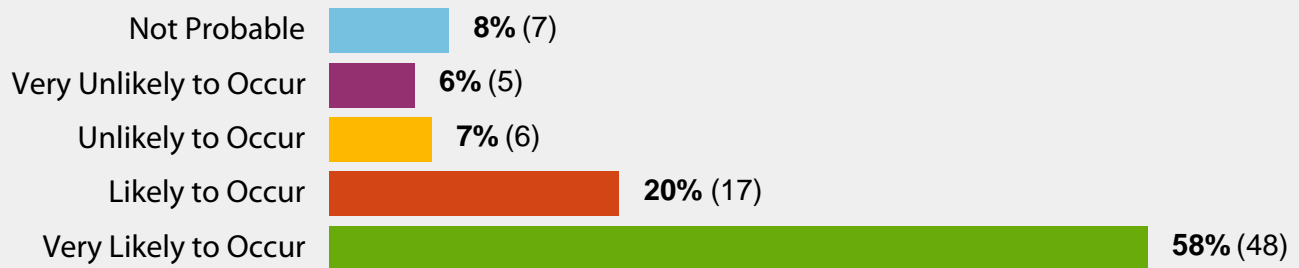
* 81 total responses, 89% of submissions

Flood Stress/Impact



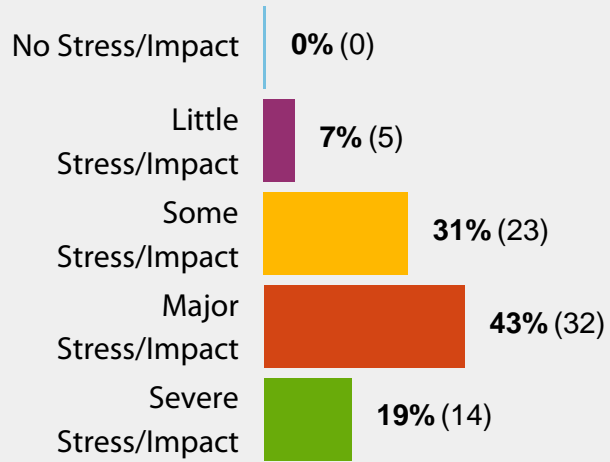
* 79 total responses, 87% of submissions

Wildfire Probability



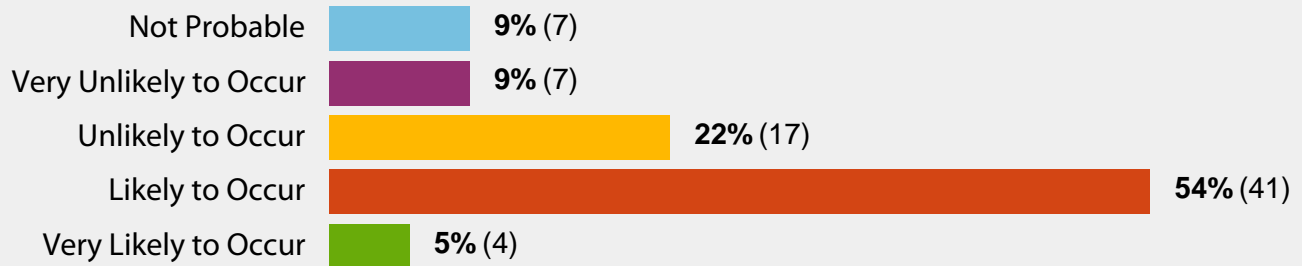
* 83 total responses, 91% of submissions

Wildfire Stress/Impact



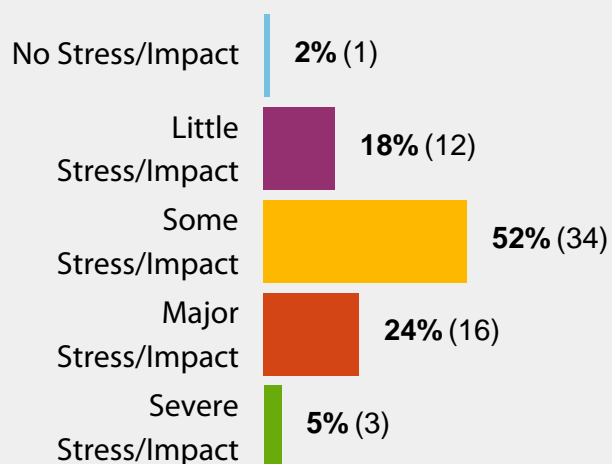
* 74 total responses, 81% of submissions

Agricultural Pests and Diseases Probability



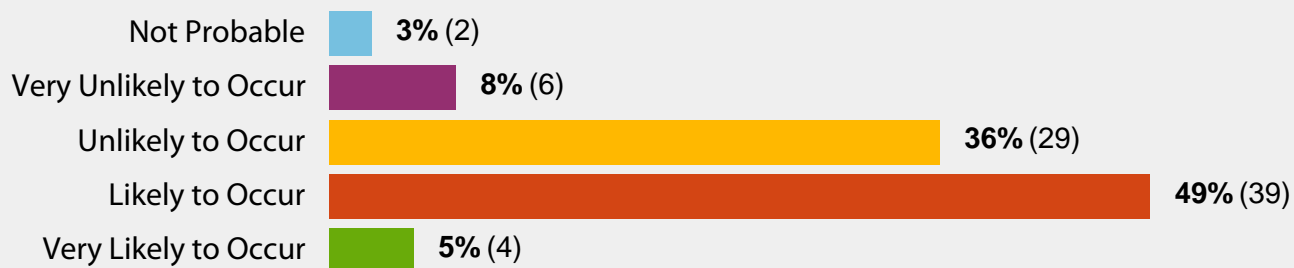
* 76 total responses, 84% of submissions

Agricultural Pests and Diseases Stress/Impact



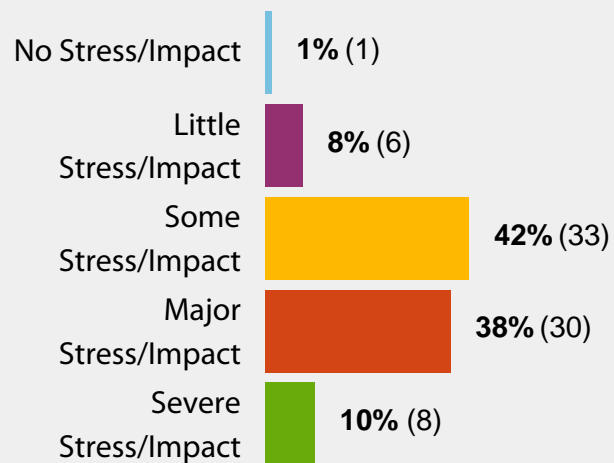
* 66 total responses, 73% of submissions

Epidemic/Pandemic Probability



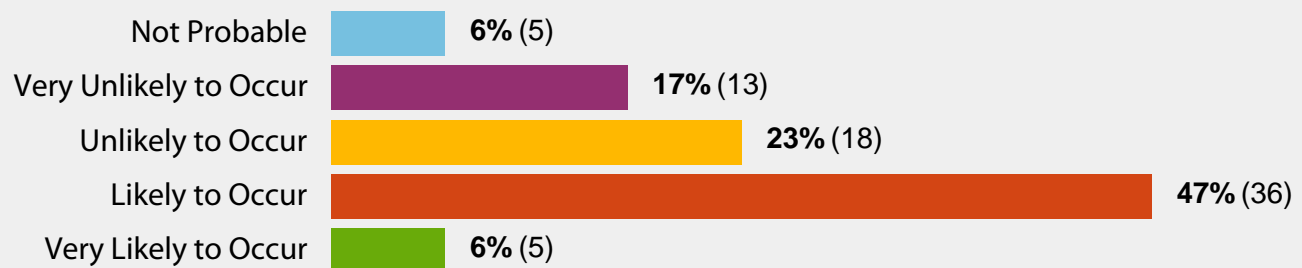
* 80 total responses, 88% of submissions

Epidemic/Pandemic Stress/Impact



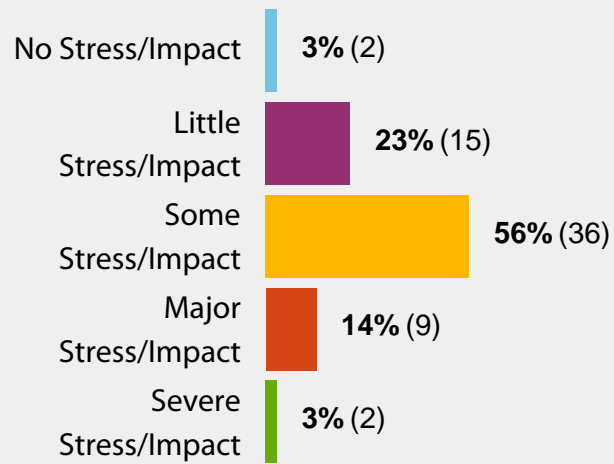
* 78 total responses, 86% of submissions

Insect Pests and Diseases Probability



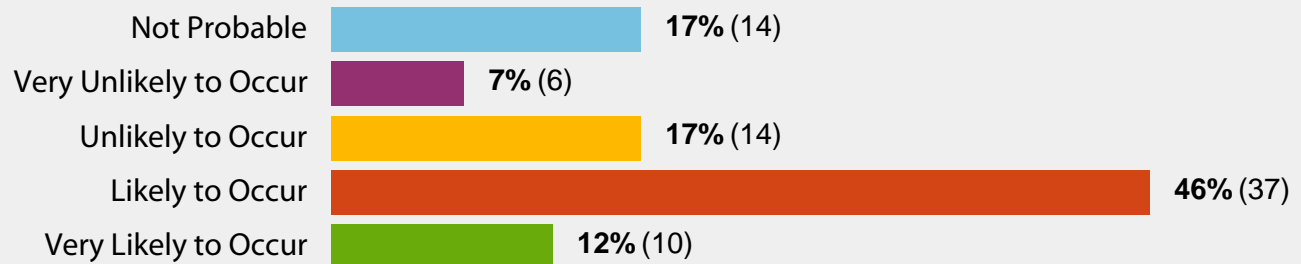
* 77 total responses, 85% of submissions

Insect Pests and Diseases Stress/Impact



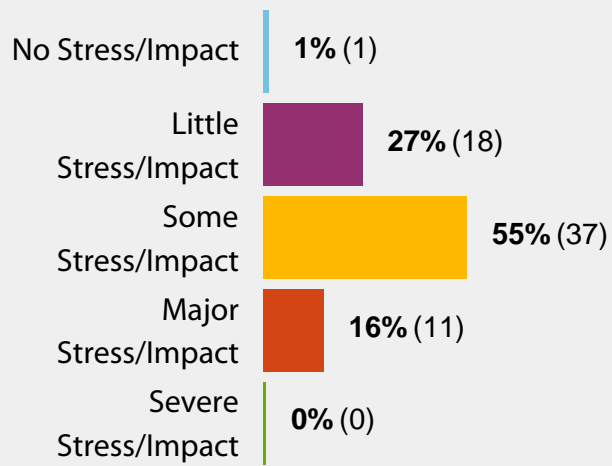
* 64 total responses, 70% of submissions

Landslide Probability



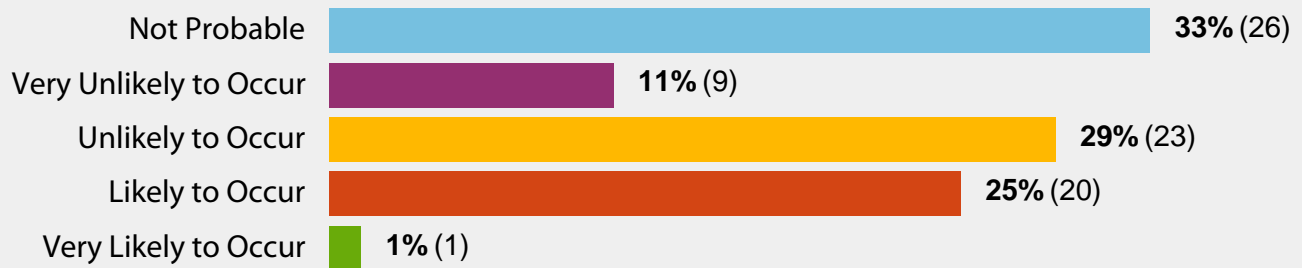
* 81 total responses, 89% of submissions

Landslide Stress/Impact



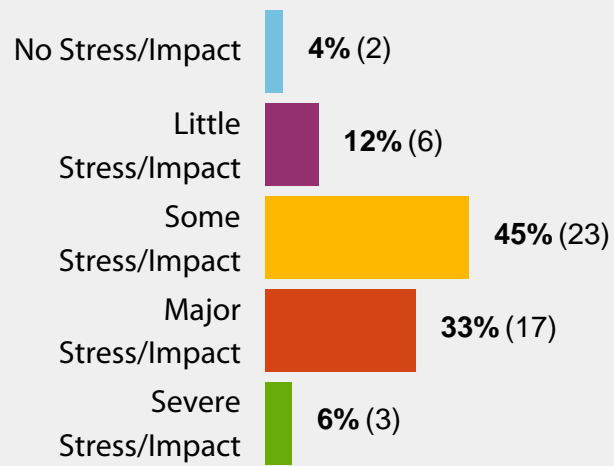
* 67 total responses, 74% of submissions

Tsunami Probability



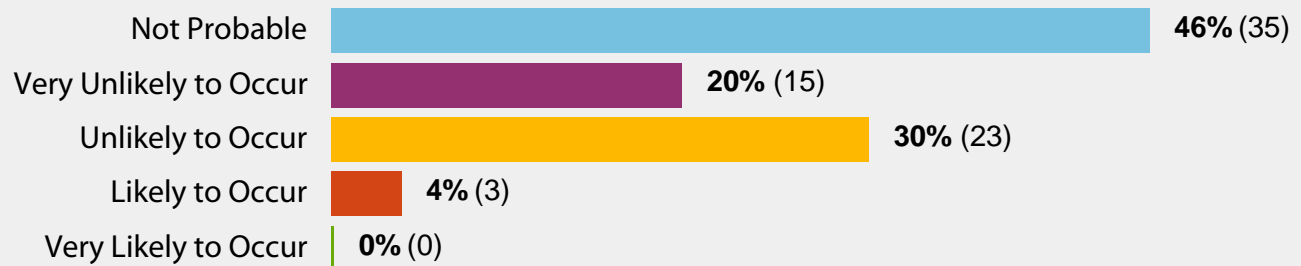
* 79 total responses, 87% of submissions

Tsunami Stress/Impact



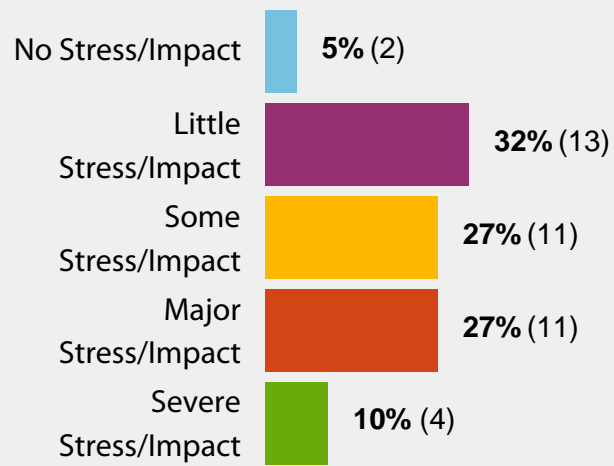
* 51 total responses, 56% of submissions

Volcano Probability



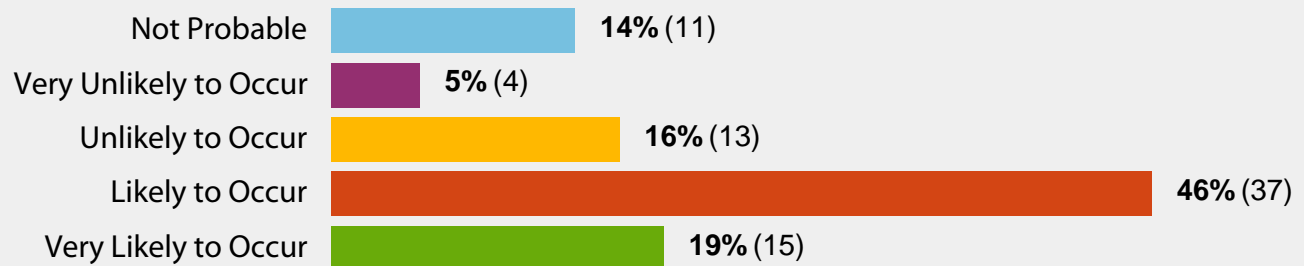
* 76 total responses, 84% of submissions

Volcano Stress/Impact



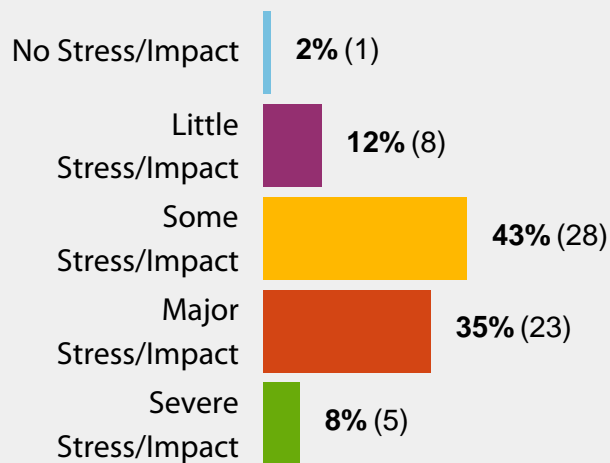
* 41 total responses, 45% of submissions

Climate Related Hazards Probability



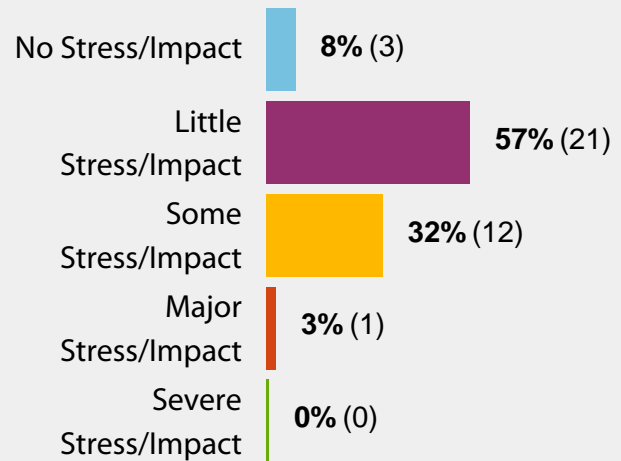
* 80 total responses, 88% of submissions

Climate Related Hazards Stress/Impact



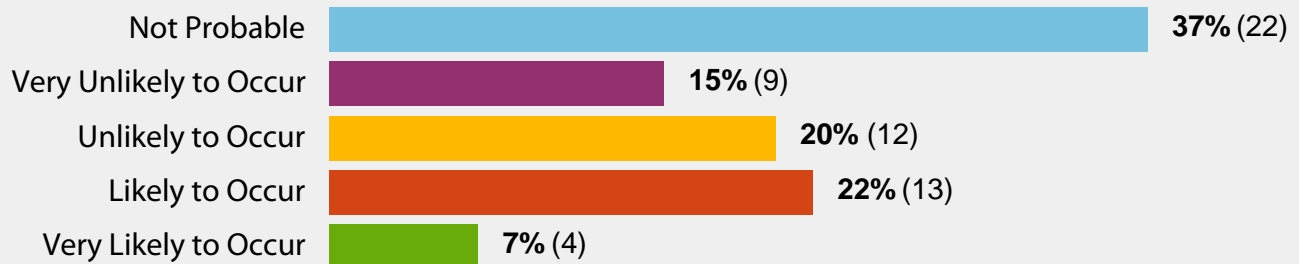
* 65 total responses, 71% of submissions

Avalanche Stress/Impact



* 37 total responses, 41% of submissions

Avalanche Probability



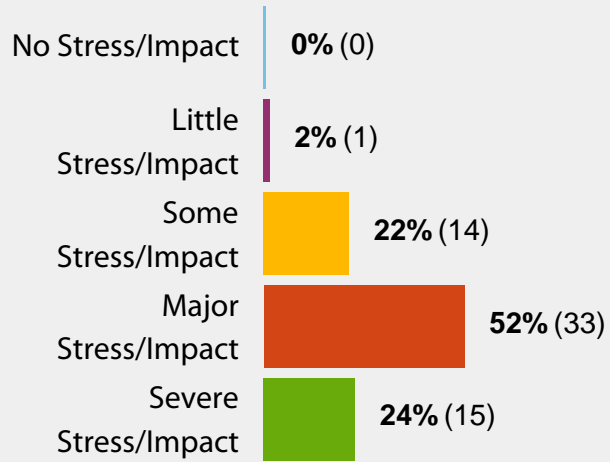
* 60 total responses, 66% of submissions

Drought Probability



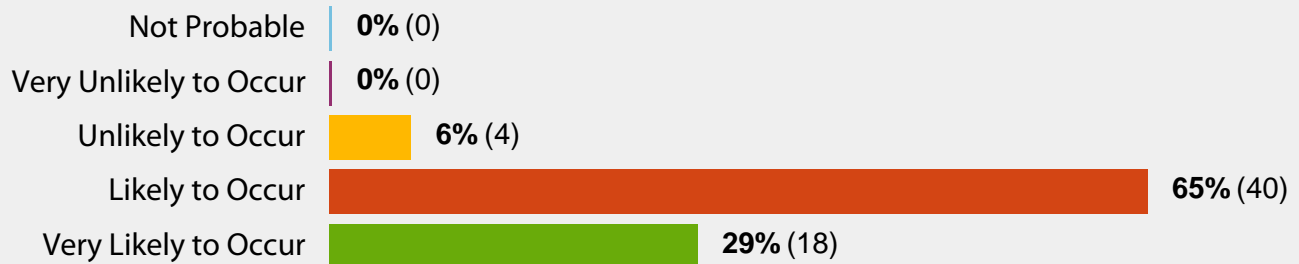
* 63 total responses, 69% of submissions

Drought Stress/Impact



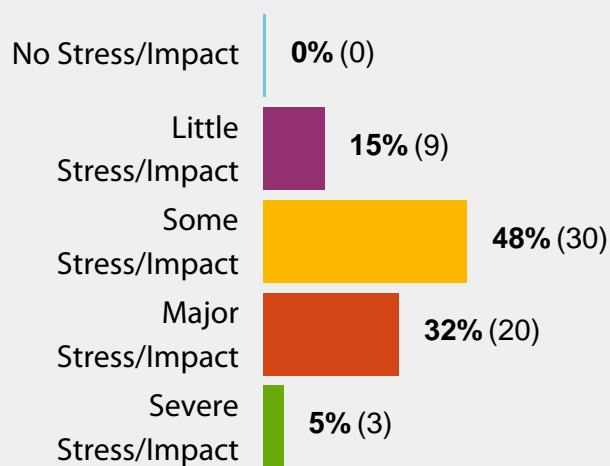
* 63 total responses, 69% of submissions

Extreme Heat Probability



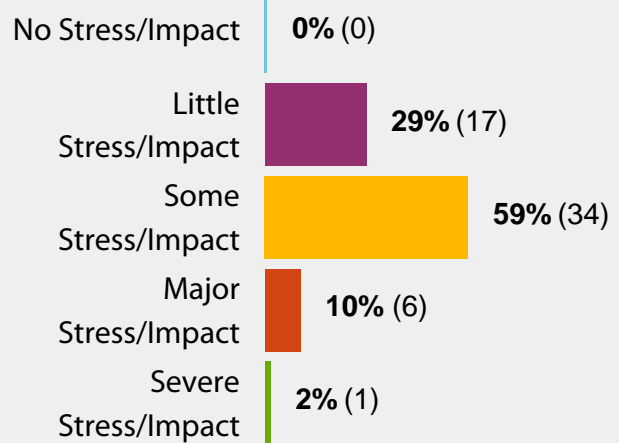
* 62 total responses, 68% of submissions

Extreme Heat Stress/ Impact



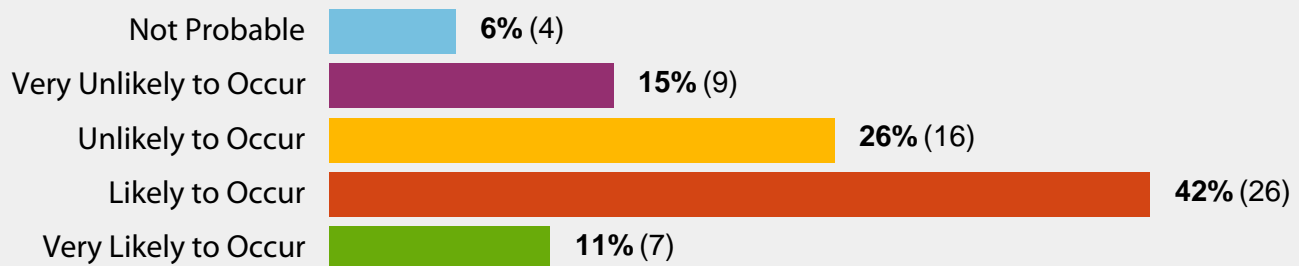
* 62 total responses, 68% of submissions

Freeze Stress/Impact



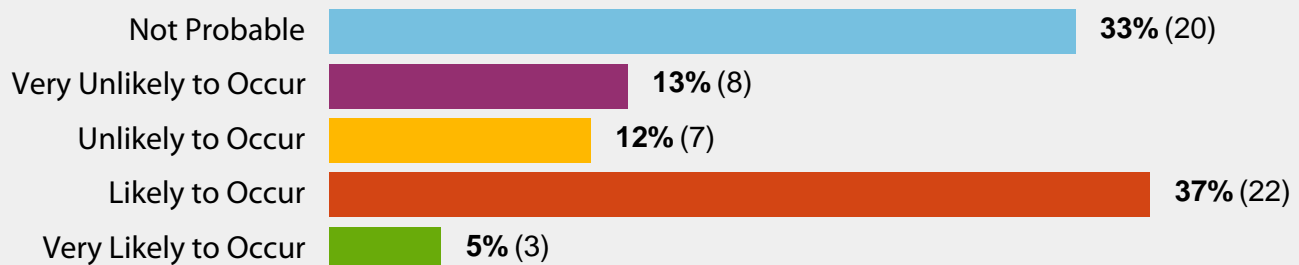
* 58 total responses, 64% of submissions

Freeze Probability



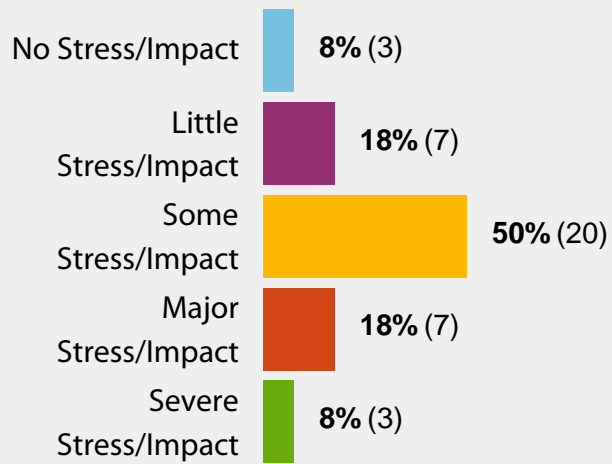
* 62 total responses, 68% of submissions

Sea Level Rise/Coastal Flooding Probability



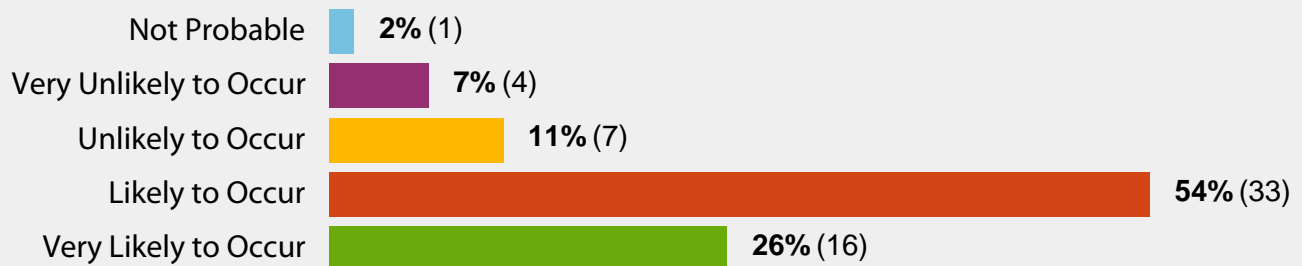
* 60 total responses, 66% of submissions

Sea Level Rise/Coastal Flooding Stress/Impact



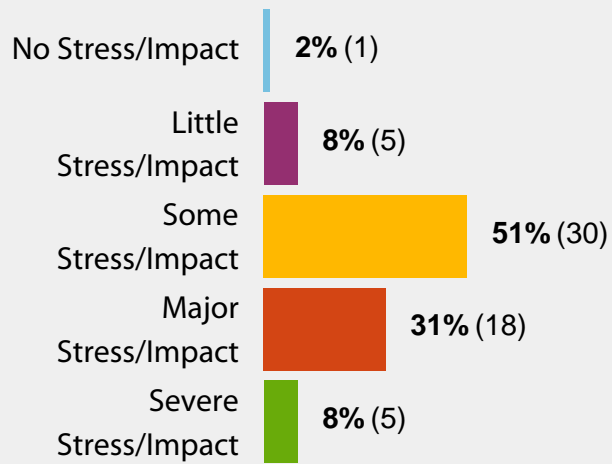
* 40 total responses, 44% of submissions

Severe Storm Probability



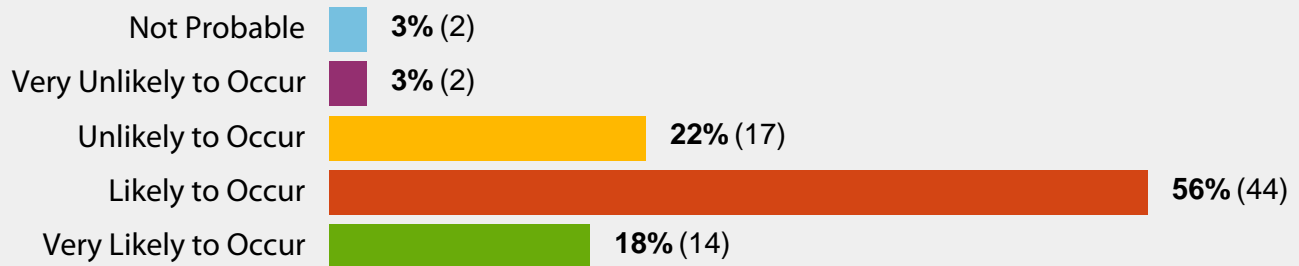
* 61 total responses, 67% of submissions

Severe Storm Stress/ Impact



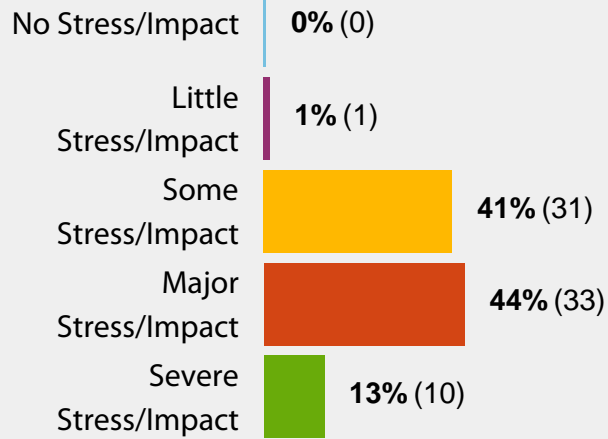
* 59 total responses, 65% of submissions

Overall Technological Hazard Probability



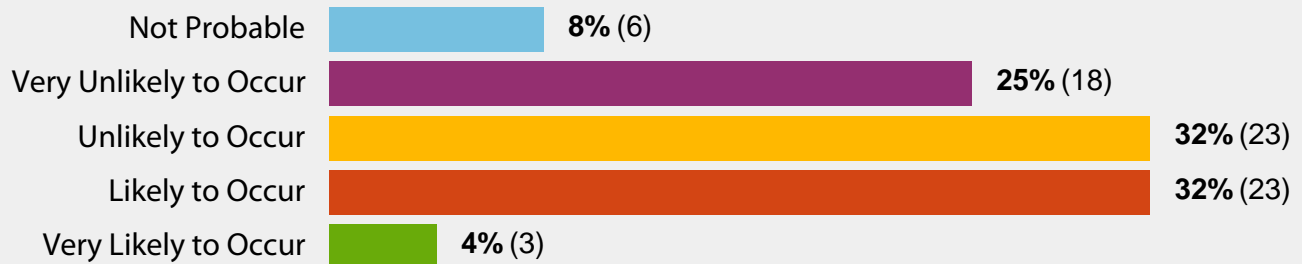
* 79 total responses, 87% of submissions

Overall Technological Hazard Stress/Impact



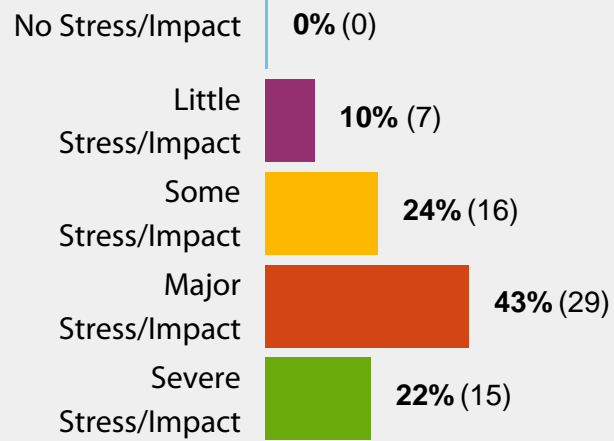
* 75 total responses, 82% of submissions

Dam/Levee Failure Probability



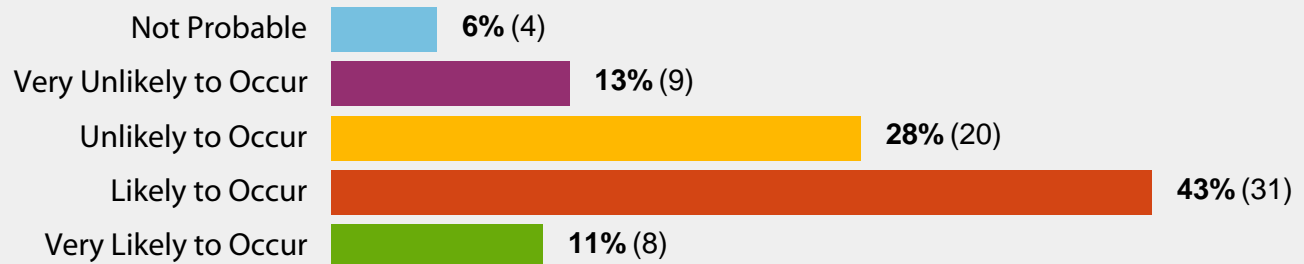
* 73 total responses, 80% of submissions

Dam/Levee Failure Stress/ Impact



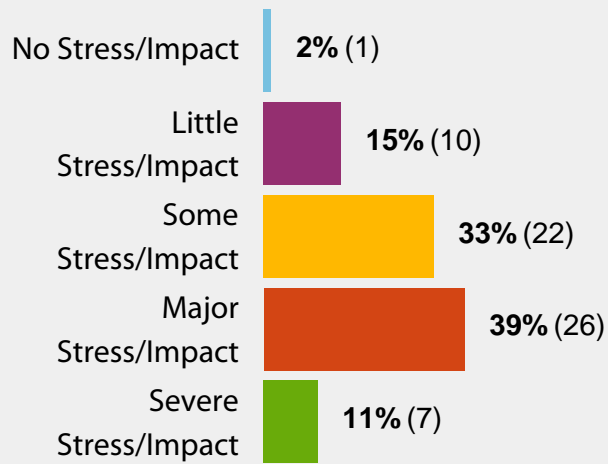
* 67 total responses, 74% of submissions

Natural Gas Pipeline Failure Probability



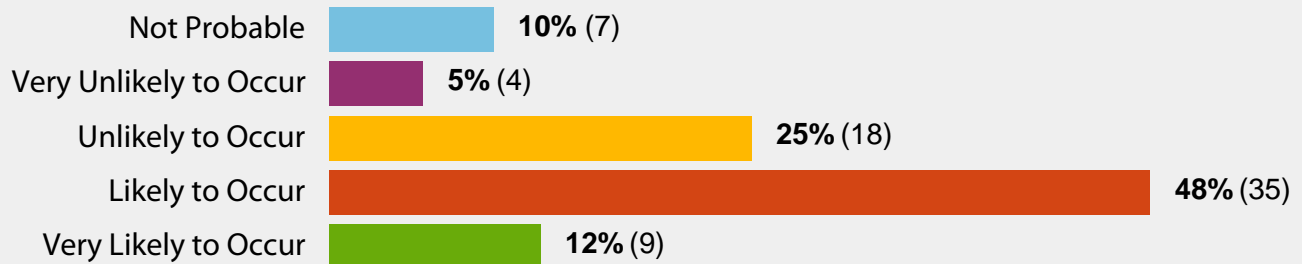
* 72 total responses, 79% of submissions

Natural Gas Pipeline Failure Stress/Impact



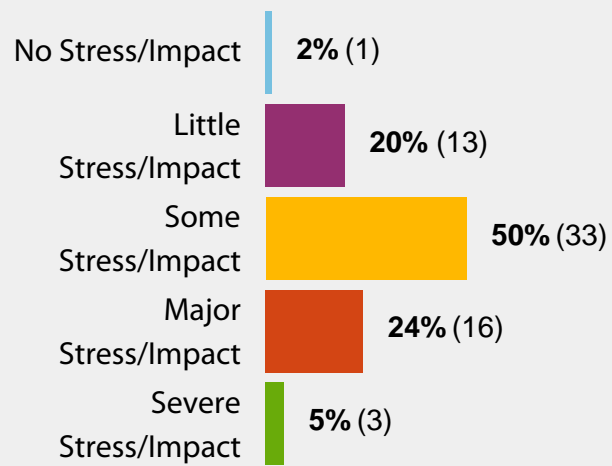
* 66 total responses, 73% of submissions

Train Accident Probability



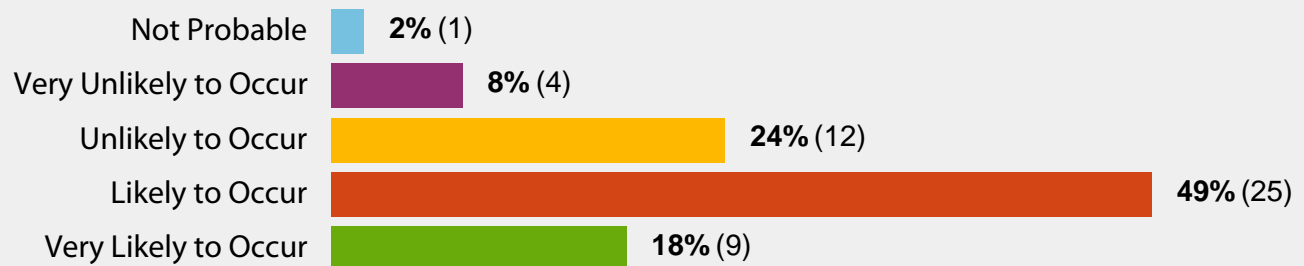
* 73 total responses, 80% of submissions

Train Accident Stress/ Impact



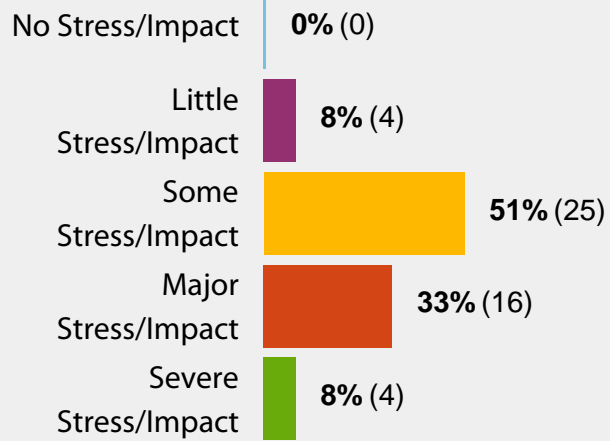
* 66 total responses, 73% of submissions

Hazardous Material Release Probability



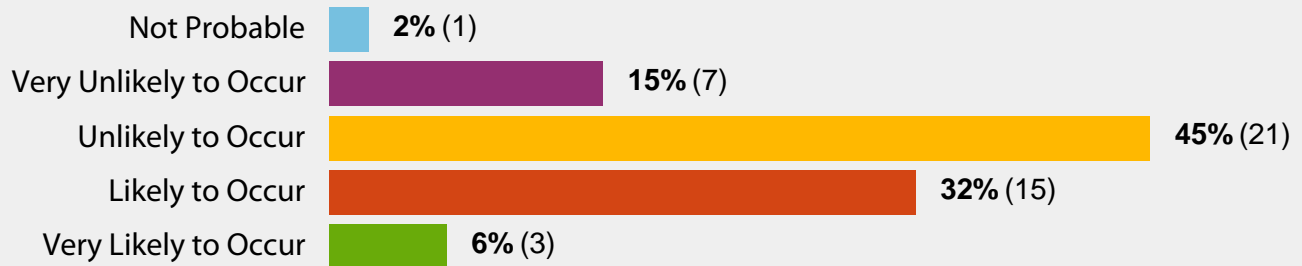
* 51 total responses, 56% of submissions

Hazardous Material Release Stress/Impact



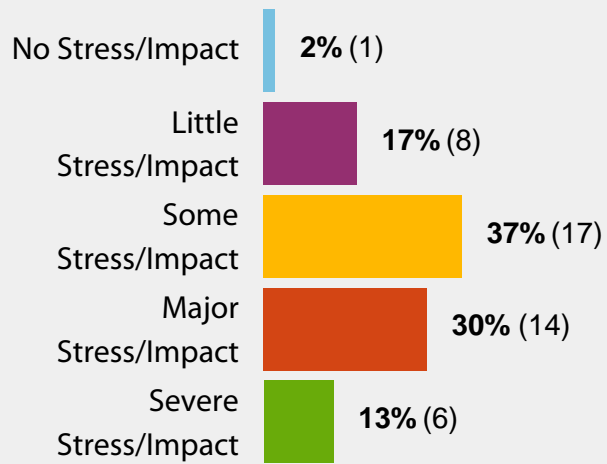
* 49 total responses, 54% of submissions

Toxic Inhalation Hazard Release Probability



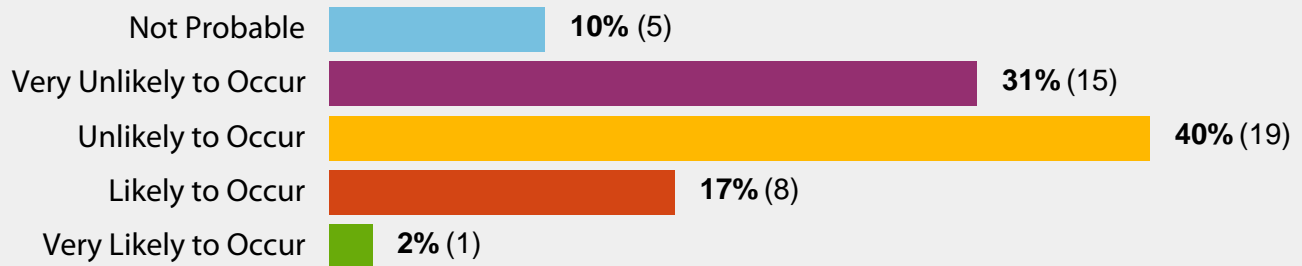
* 47 total responses, 52% of submissions

Toxic Inhalation Hazard Release Stress/Impact



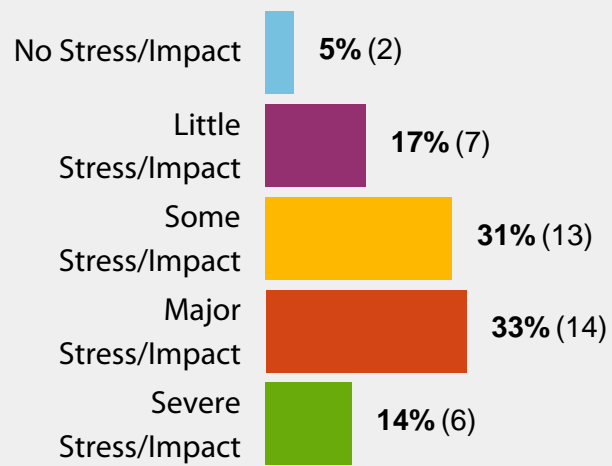
* 46 total responses, 51% of submissions

Radiological Incident Probability



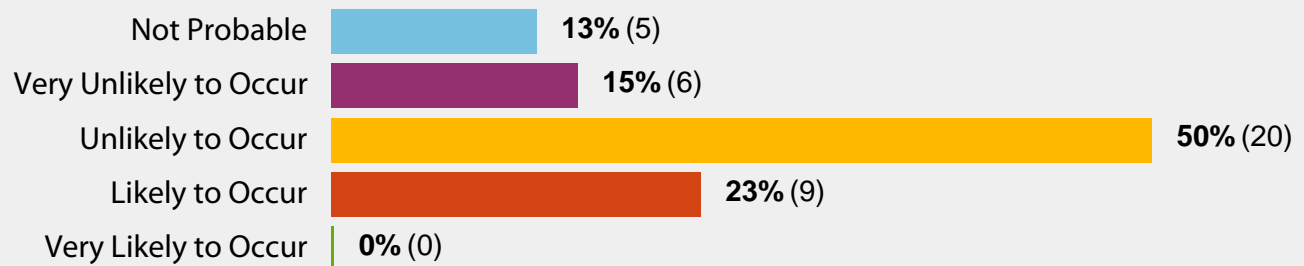
* 48 total responses, 53% of submissions

Radiological Incident Stress/Impact



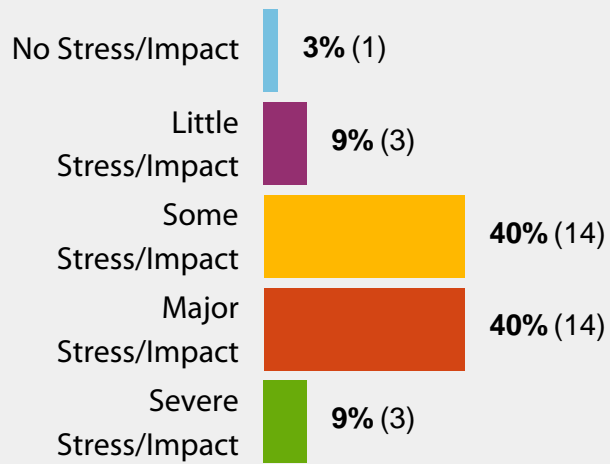
* 42 total responses, 46% of submissions

Biological Incident Probability



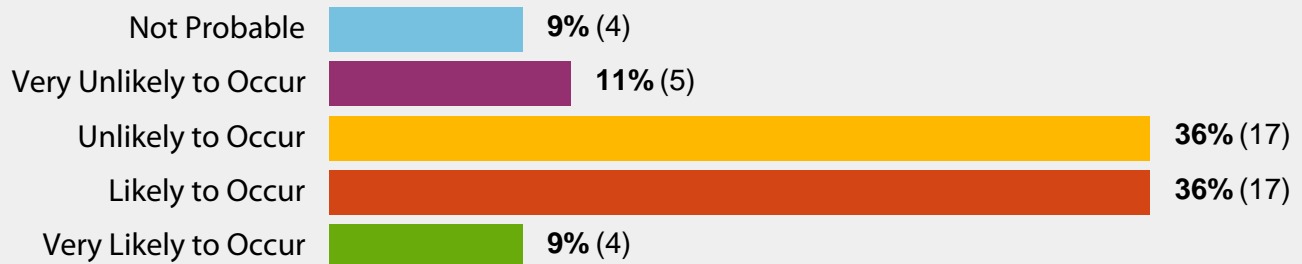
* 40 total responses, 44% of submissions

Biological Incident Stress/ Impact



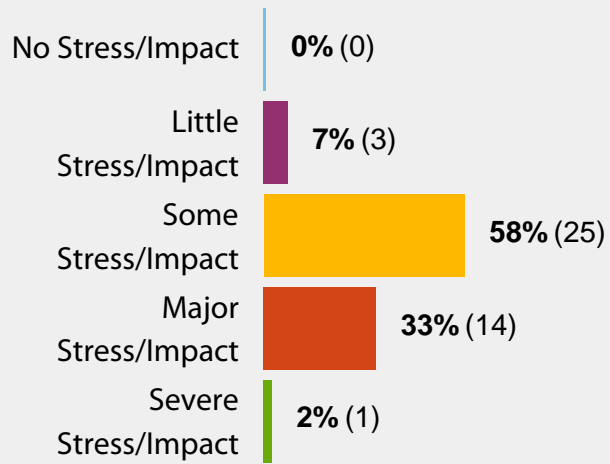
* 35 total responses, 38% of submissions

Oil Spill Probability



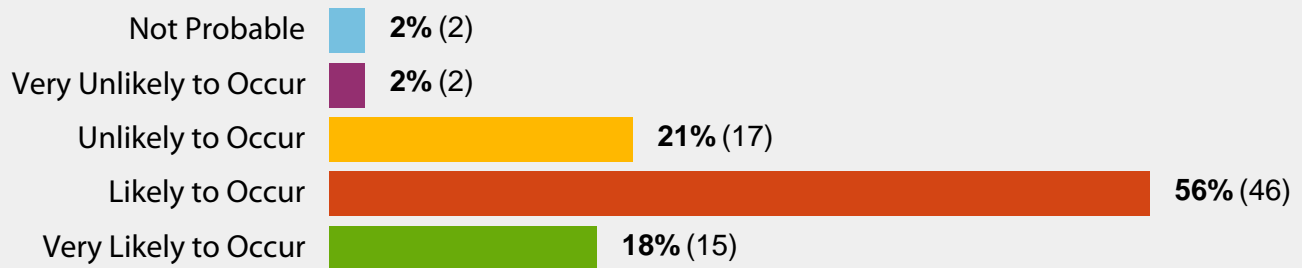
* 47 total responses, 52% of submissions

Oil Spill Stress/Impact



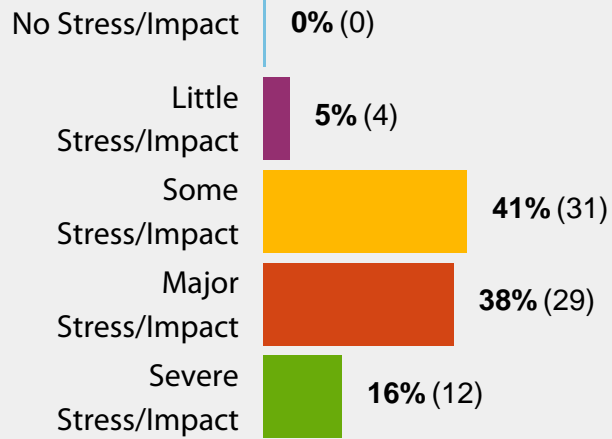
* 43 total responses, 47% of submissions

Overall Man-made Threat Probability



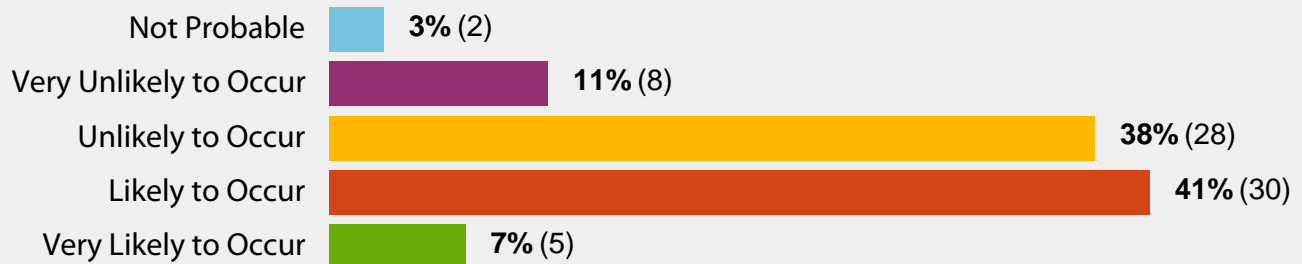
* 82 total responses, 90% of submissions

Overall Man-made Threat Stress/Impact



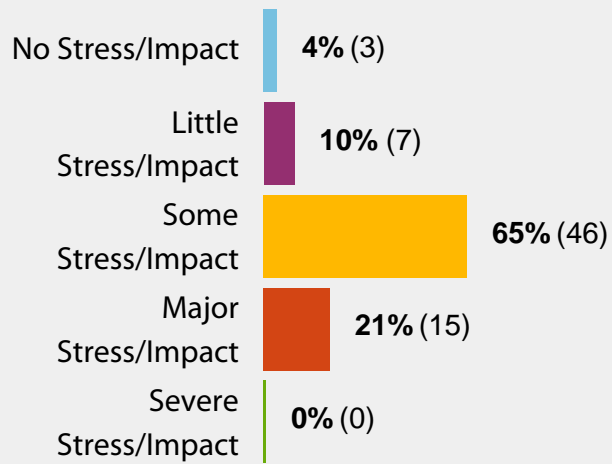
* 76 total responses, 84% of submissions

Civil Disturbance Probability



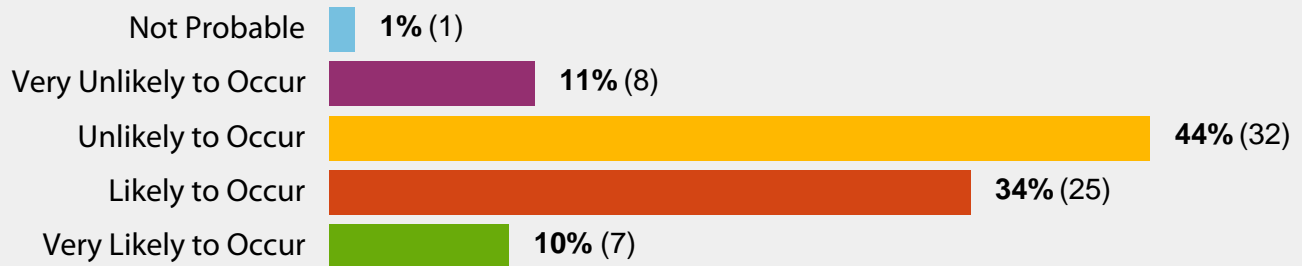
* 73 total responses, 80% of submissions

Civil Disturbance Stress/ Impact



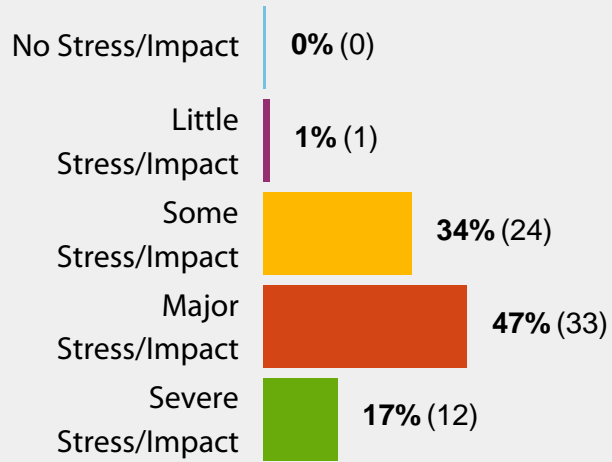
* 71 total responses, 78% of submissions

Terrorism Probability



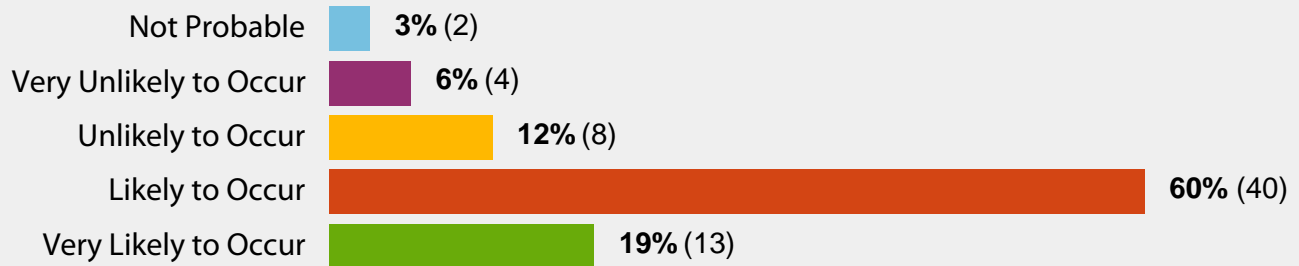
* 73 total responses, 80% of submissions

Terrorism Stress/Impact



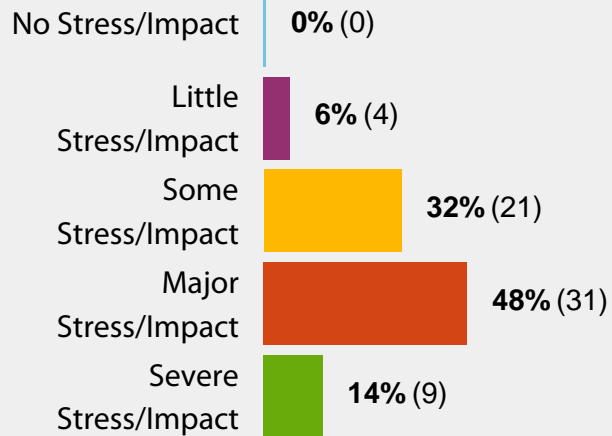
* 70 total responses, 77% of submissions

Cyber Terrorism directed against critical infrastructure Probability



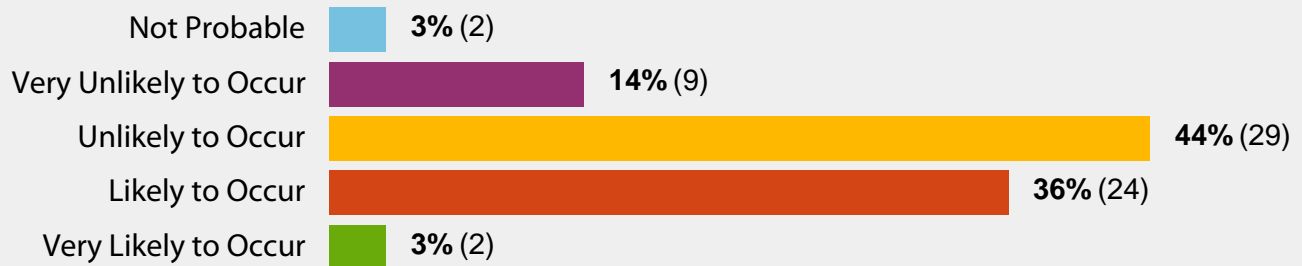
* 67 total responses, 74% of submissions

Cyber Terrorism directed against critical infrastructure Stress/Impact



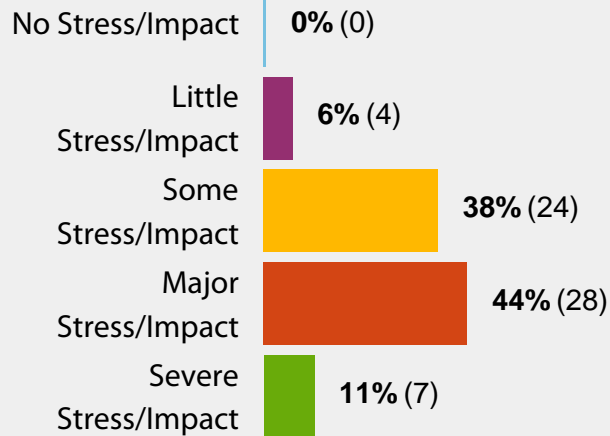
* 65 total responses, 71% of submissions

Multiple attackers at a single mass gathering/economic target Probability



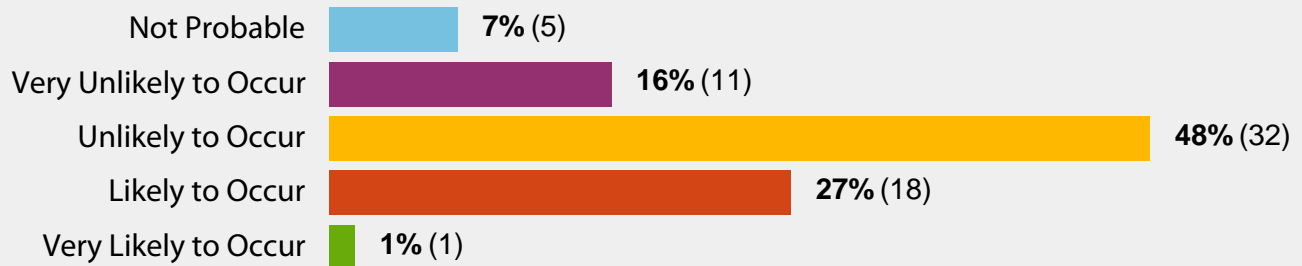
* 66 total responses, 73% of submissions

Multiple attackers at a single mass gathering/ economic target Stress/ Impact



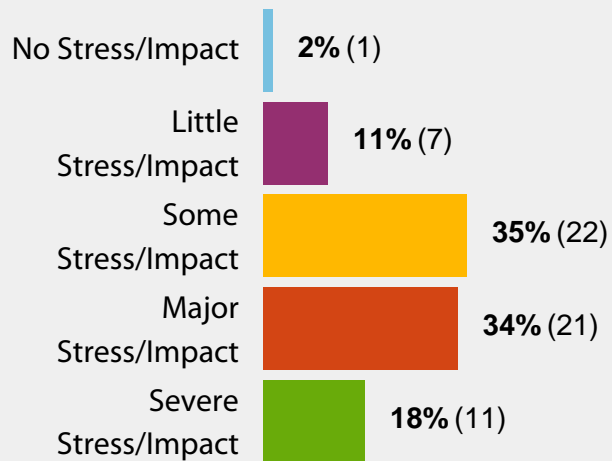
* 63 total responses, 69% of submissions

Multiple attackers directed against multiple locations/targets Probability



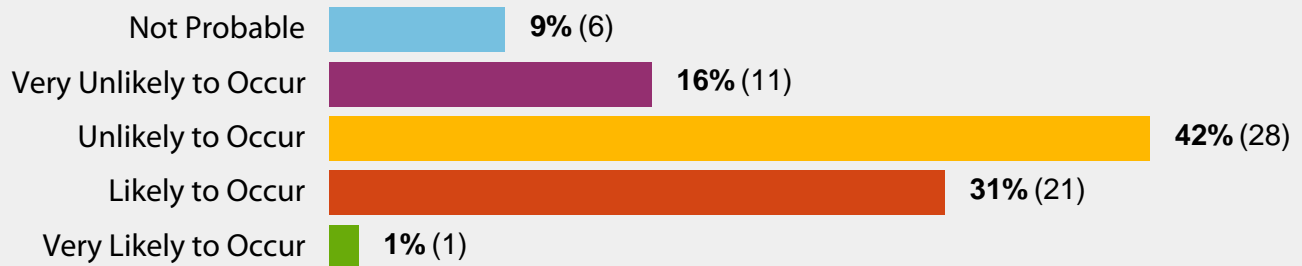
* 67 total responses, 74% of submissions

Multiple attackers directed against multiple locations/targets Stress/ Impact



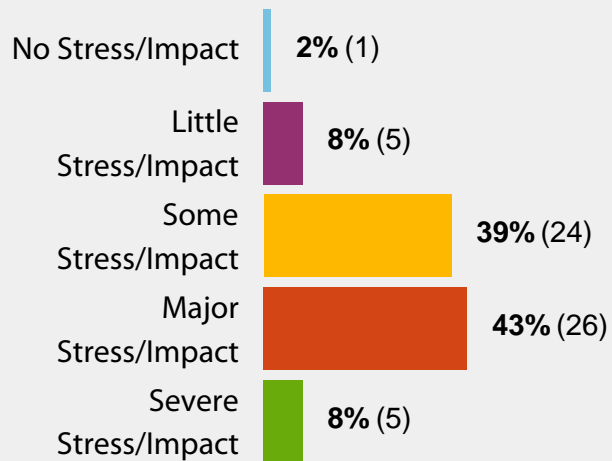
* 62 total responses, 68% of submissions

Vehicle-borne Improvised Explosive Device (VBIED) to a mass gathering location Probability



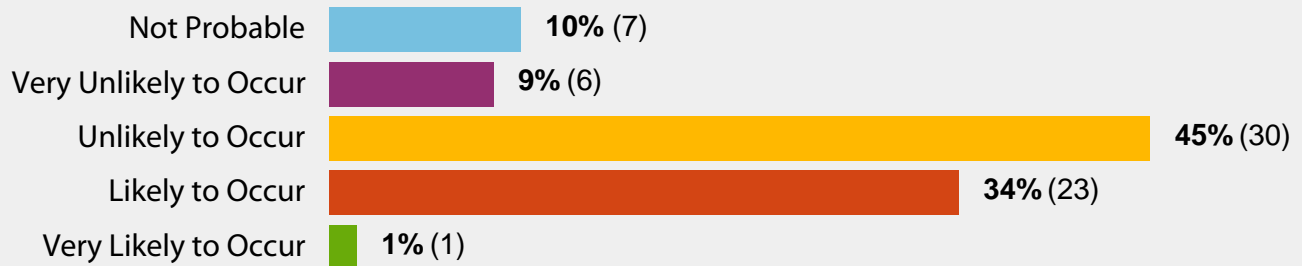
* 67 total responses, 74% of submissions

Vehicle-borne Improvised Explosive Device (VBIED) to a mass gathering location Stress/Impact



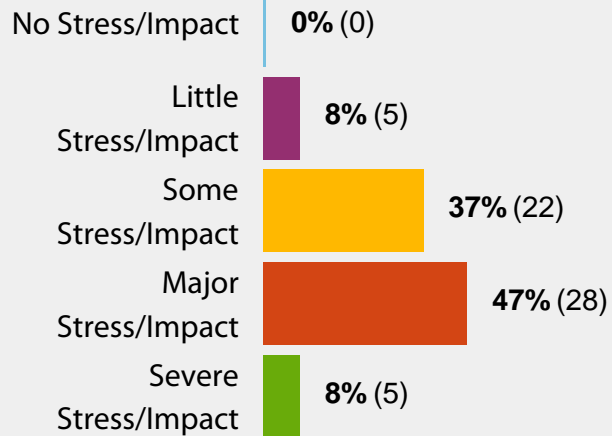
* 61 total responses, 67% of submissions

Vehicle-borne Improvised Explosive Device (VBIED) to critical infrastructure Probability



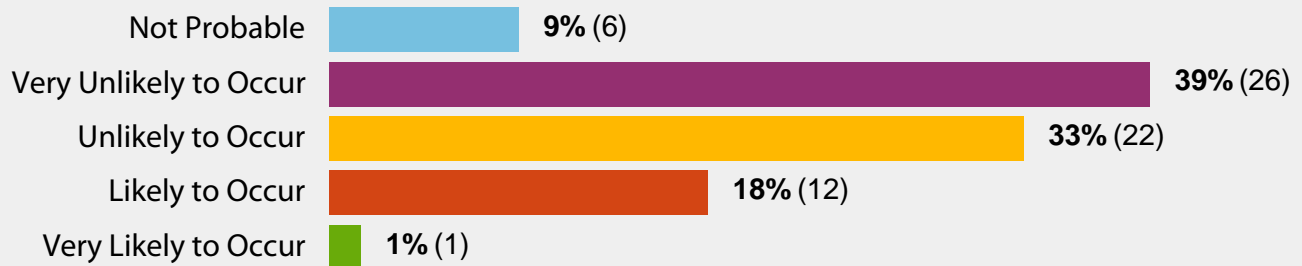
* 67 total responses, 74% of submissions

Vehicle-borne Improvised Explosive Device (VBIED) to critical infrastructure Stress/Impact



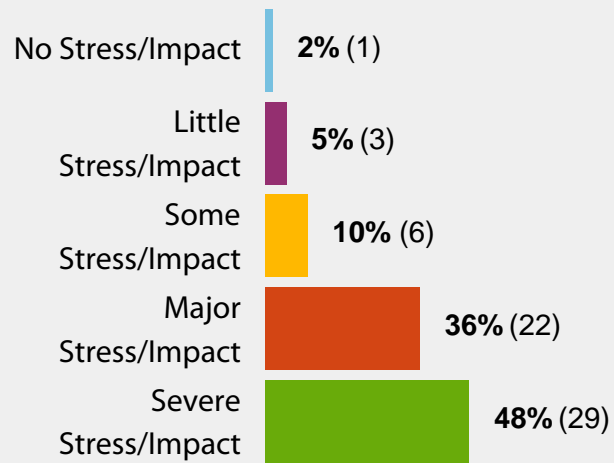
* 60 total responses, 66% of submissions

Weapon of mass destruction in a major metropolitan center Probability



* 67 total responses, 74% of submissions

Weapon of mass destruction in a major metropolitan center Stress/Impact



* 61 total responses, 67% of submissions