

Lloyd's City Risk Index 2015-2025

Analysing the economic exposure from 18 threats over ten years from 2015

Understand the risks: www.lloyds.com

San Francisco, US

Average GDP growth rate: 1.39%

Average annual GDP: \$453.20bn*

Total GDP@Risk: \$41.35bn

Share of Average annual GDP: 9.12%

GDP@Risk ranking

Global: 31 Regional: 4 National: 4

GDP@Risk by threat type

Threat	GDP@Risk	Share of Total GDP@Risk
Market crash	\$10.53bn	25.47%
Oil price shock	\$6.60bn	15.96%
Cyber attack	\$5.90bn	14.27%
Earthquake	\$5.67bn	13.71%
Flood	\$5.48bn	13.24%
Human pandemic	\$3.51bn	8.48%
Drought	\$0.89bn	2.14%
Solar storm	\$0.82bn	1.97%
Power outage	\$0.70bn	1.69%
Wind storm	\$0.55bn	1.34%
Plant epidemic	\$0.45bn	1.10%
Sovereign default	\$0.23bn	0.56%
Terrorism	\$0.03bn	0.07%
Freeze	\$0.00bn	0.00%
Heatwave	\$0.00bn	0.00%
Nuclear accident	\$0.00bn	0.00%
Tsunami	\$0.00bn	0.00%
Volcano	\$0.00bn	0.00%

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Insight

The Global Financial Centres Index ranks San Francisco second in the US (after New York) and eighth globally, in large part because of the growing importance of financial technology, which plays to its strengths as the home of Silicon Valley.

Accordingly finance- and infrastructure-related threats - such as Market crash, Oil price shock, Cyber attack and Solar storm - account for more than half of the city's Total GDP@Risk. Economic exposure to Cyber attack is the 10th highest globally, Solar storm the 13th and Oil price shock the 14th.

San Francisco's biggest Natural threat is Earthquake (22nd). The city is situated on the San Andreas Fault and has a 63% chance of experiencing a temblor of magnitude 6.7 or larger in the next 30 years. The 1989 Loma Prieta quake, a 6.9-magnitude tremor, caused 63 deaths, 3,757 injuries and \$6bn in damage in the Bay Area. In the past 15 years the city has spent more than \$10bn to improve its resilience to a major quake, retrofitting public buildings and infrastructure to withstand intense shaking, and passing laws requiring some property owners to evaluate and upgrade their buildings.

However, with periodic episodes of storm surges, flash flooding and inundation from San Francisco Bay, the city has almost as much GDP@Risk from Flood as it does from Earthquake.

Among its Emerging threats (\$10.68bn, 25.82%), Cyber attack, Solar storm and Human pandemic contribute almost a quarter of its total potential losses.

Sources:

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