Shocks



An **oil spill** upstream of Manila **pollutes** all the **water** coming from the Angat Dam

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It is espe

It is a dry year and an especially **dry month** that causes **water shortages** in Manila

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A heavy rain event causes a landslide that rolls onto a main road and into a section of coastal wetland

Shock Impact:

Coastal Wetlands

≝ 0 **८** 0 **𝒯** −1

A **typhoon** over the Pacific causes high **storm surges** on Manila's shores

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Shock Impact:

Informal Settlements

-1 88 -2 **9** -1

Coastal Wetlands

-1 88 -1 9 -2

Infrastructure

-2 & -1 \mathbb{B} 0

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You are lucky, **no disaster** occurs this
round.
Time to breathe!

Shock Impact:

Informal Settlements

-1 88 -1 99 -1

-1 **88** -1 **9** 0

Infrastructure Coastal Wetlands

₫ 0 **८ -1 ७ -2**

Drinking Water System

-1 88 -2 9 -1

Shock Impact:

Informal Settlements

-1 & -1 \$\mathcal{B}\$ 0

Shock Impact:

Drinking Water System

2 -1 & -1 \ \mathcal{P} 0

-1 **8** -1 **9** -1

Infrastructure

INCE BACK

	Stresses	Round	0	1	2	3	4	5	6	7	8
	Global Warming	⊡ ⊡	no shock	x1	x1	x1	x2	x2	x3	x3	х3
	Sea Level Rise	⊠		x1	x1	x2	x2	х3	х3	х3	x 3
	□ Growing Population □			x2	x2	x2	x1	x1	x1	x1	x1

Total Resilience Score

-10	-9	10	11	30	31	50
-11	-8	9	12	29	32	49
-12	-7	8	13	28	33	48
-13	-6	7	14	27	34	47
-14	-5	6	15	26	35	46
-15	-4	5	16	25	36	45
-16	-3	4	17	24	37	44
-17	-2	3	18	23	38	43
-18	-1	2	19	22	39	42
-19	0	1	20	21	40	41