

Name: _____

Flood Prevention Budget Planning Science Notebook Page

Your city needs to create an emergency plan for the rapidly approaching flood season (March - May). An emergency plan describes what a city will do to prepare for the impacts of natural hazards. You have been asked to show city leaders how data can be used to help the city prepare for the incoming flood season.

City:

- You live in a fairly small city, home to only 160,000 people. The city is surrounded by mountainous terrain with a large, straightened river running through the middle. There is an empty area of land you believe would be perfect for a reservoir.

Average Weather Data:

	March	April	May
Average high in °F	49	55	64
Average low in °F	21	24	31
Average liquid precipitation in inches	4.35	2.16	1.30
Average snowfall in inches	34	16	4

Planning Budget

- \$315,000 (keep in mind you should leave at least \$20,000 in the budget to pay for the repairs)

As the main lead on the building of a functional emergency plan, you need to make some choices on how you think your city should spend their emergency funds to prevent future floods from happening in the most efficient and cost-effective way possible.

Item	Cost
Patrol Truck	\$2,000 per truck
Repair Truck	\$4,000 per truck
Dirt Levee	\$10,500
Rock Levee	\$13,000
I-Wall Levee	\$16,000
T-Wall Levee	\$19,000
Soda Ash-lined Reservoir	\$97,000
Bentonite-lined Reservoir	\$282,000

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Item	Number of/ Type of	Cost
Patrol Truck		
Repair Truck		
Levee		
Reservoir		
	Cost Total:	

Why did you make the choices you did? Why did you decide on that type of levee and that reservoir?
