

Ten Days for Flood Protection

Group #: _____

Calculation

- Cost of protection

Actions	Lead-time (day)									
	10	9	8	7	6	5	4	3	2	1
Preposition	1,000	1,250	1,500	1,750	2,000	2,250	2,500	-	-	-
Evacuation	2,500	2,400	2,300	2,200	2,100	2,000	1,900	2,300	3,000	4,000
Construction	2,500	3,000	3,500	4,000	4,500	-	-	-	-	-

- Benefit of protection

Actions	No flood	2yr	10yr	20yr
Preposition	0	3,000	3,500	4,000
Evacuation	0	1,000	3,000	5,000
Construction	0	6,500	7,500	8,500

- Flood damage

No flood	2yr	10yr	20yr
0	4,000	7,000	12,000

Total = Benefit of protection - Cost of protection - Flood damage

Decision table

Actions		Lead-time (day)									
		10	9	8	7	6	5	4	3	2	1
Round 1	Preposition								-	-	-
	Evacuation										
	Construction						-	-	-	-	-
Round 2	Preposition								-	-	-
	Evacuation										
	Construction						-	-	-	-	-

Balance table

Initial purse: 30,000

Flood events	Round 1	Round 2
Total cost		
Total benefit		
Damage		
Balance		