

HISTORIC SPREADSHEET INSTRUCTIONS

Life Cycle Cost Analysis - Historic										Discount Rate	Input - A	
										Analysis Period (years)	Input - B	
Repair In-kind Alternative										Initial Project Cost	Input - C	
										Service Life (years)	Input - D	
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	
	5	10	15	20	25	30	35	40	45	50		
Project Description:												
Repair/Reconstruct - Future	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Result - 1
Remaining Service Life - Repair						Input - F		Input - F		Input - F		Result - 2
Remaining Service Life - Asset						Input - G		Input - G		Input - G		Result - 3
Life Cycle Cost											Result - 4	
Betterment Alternative										Initial Project Cost	Input - C	
										Service Life (years)	Input - D	
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	
	5	10	15	20	25	30	35	40	45	50		
Project Description:												
Repair/Reconstruct - Future	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Input - E	Result - 1
Remaining Service Life - Repair						Input - F		Input - F		Input - F		Result - 2
Remaining Service Life - Asset						Input - G		Input - G		Input - G		Result - 3
Life Cycle Cost											Result - 4	
										Benefit/Cost Ratio =	Result - 5	

- Input – A** Discount Rate (enter 2 for 2%)
- Input – B** Analysis Period (Based on AASHTO Classification)
- Input – C** Initial Project Cost (Including NEPA, Engineering, Emergency Repairs)
- Input – D** Service Life of Alternative (must equal or exceed Analysis Period)
- Input – E** Damage Repair Cost after Event/Events
- Input – F** Remaining Service Life of Last Repair to end of Analysis Period (enter only once)
- Input – G** Remaining Service Life of Initial Investment to end of Analysis Period (enter only once)
- Result – 1** Present Worth of all Damage Repair Costs
- Result – 2** Present Worth of Remaining Service of Last Repair
- Result – 3** Present Worth of Remaining Service of Initial Investment
- Result – 4** Total Present Worth of Alternative over the Analysis Period
- Result – 5** Benefit - Cost Ratio