Present Value of a Dam Notes on Solution



Decomposing into streams of costs and benefits:



One approach: PV of net cash flows

yr	cost	benefit	net	
0	5	0	-5	-5.00
1	5	0	-5	-4.76
2	5	0	-5	-4.54
3	5	0	-5	-4.32
4	5	60	55	45.25

Total PV 26.6

Alternate approach: separate PV of construction and benefits

PV of construction costs

yr	cost	PV
0	5	5.0
1	5	4.8
2	5	4.5
3	5	4.3
4	5	4.1
	PV of costs	22.7

PV of benefits

yr 4	benefit 60	< PV of B/i in year 4
yr 0	benefit 49	< Year 4 value brought back to year 0
	PV of bene	fits 49.4

Net PV 26.6