

discount rate 7.00%

Gravity					
year	costs	power costs	benefits	discounted costs	discounted benefits
0	2900000			2900000	0
1	10000		220000	9345.7943925234	205607.476635514
2	10000		220000	8734.3872827321	192156.520220107
3	10000		220000	8162.9787689085	179585.532915987
4	10000		220000	7628.9521204753	167836.946650456
40	10000		390000	667.80381015314	26044.3485959725
sum				3033317.0884264	3398384.02689121
2. Calculate B/C ratio					1.12

Pumping					
year	costs	power costs	benefits	discounted costs	discounted benefits
0	1500000			1500000	0
1	25000	70000	220000	88785.046728972	205607.476635514
2	25000	70000	220000	82976.679185955	192156.520220107
3	25000	70000	220000	77548.298304631	179585.532915987
4	25000	70000	220000	72475.045144515	167836.946650456
40	25000	110000	390000	9015.3514370674	26044.3485959725
sum				3222177.1489728	3398384.02689121
2. Calculate B/C ratio					1.05

Plan 1: Gravity, Plan 2: Pumping	
PW of diff costs	188860.0605
PW of diff benefits	0
Calculate diff in B/C ratio	0