

Total capital, annual and average unit (£₂₀₁₂/m³) costs of reservoirs by costs of reservoirs by size (small, medium, large) and type (unlined, lined).

Reservoir Characteristics		small		medium		large	
		Unlined	Lined	Unlined	Lined	Unlined	Lined
Lined/unlined							
Gross reservoir capacity	m3	46,875	46,875	93,750	93,750	156,250	156,250
Usable storage capacity	m3	37,500	37,500	75,000	75,000	125,000	125,000
Annual Usage	m3	25,125	25,125	50,250	50,250	83,750	83,750
Capital costs							
Reservoir	£	81,891	157,639	122,436	251,168	176,496	375,874
Inlet pumps	£	7,582	7,582	15,163	15,163	22,745	22,745
Inlet works	£	11,000	11,000	8,250	8,250	11,000	11,000
Total capital cost	£	100,473	176,221	145,849	274,582	210,241	409,619
Total capital cost £/ m3 usable storage		2.68	4.70	1.94	3.66	1.68	3.28
Total capital costs (£/ha) at ha		6,698	11,748	4,862	9,153	4,205	8,192
Annual costs							
<i>Fixed costs</i>							
Reservoir	£	7,140	13,744	10,675	21,898	15,388	32,770
Inlet pumps and pipes	£	1,989	1,989	2,779	2,779	4,049	4,049
Insurance	£	502	881	729	1,373	1,051	2,048
Forgone Revenue	£	948	948	1,597	1,597	2,389	2,389
Total Fixed Costs	£	10,580	17,562	15,780	27,647	22,877	41,257
<i>Operating costs</i>							
Engineers inspection fee's	£	175	175	650	650	650	650
Repairs and maintenance	£	1,772	2,909	2,718	4,649	3,950	6,940
Energy	£	471	471	847	847	1,570	1,570
Water abstraction charges	£	188	188	375	375	626	626
Total Operating costs	£	2,606	3,742	4,591	6,522	6,795	9,786
Total annual costs	£	13,186	21,305	20,371	34,169	29,672	51,042
Unit costs	£						
Fixed costs	£	80%	82%	77%	81%	77%	81%
Operating	£	20%	18%	23%	19%	23%	19%
Total average costs (ex reservoir)							
Total unit costs	£/m3 usable storage	0.35	0.57	0.27	0.46	0.24	0.41
Total unit costs	£/m3 usage	0.52	0.85	0.41	0.68	0.35	0.61
Reservoir works only							
excluding inlet, pumps, & filling	£/year	9,901	18,020	15,370	29,168	21,957	43,327
Total unit costs	£/m3 usage	0.39	0.72	0.31	0.58	0.26	0.52