

Canyon Water Users Water Rate Analysis - PRV Stations

% of Water Bill Used For Capital Improvements	27.00%			
→ Credit Period (Years)	25			
Interest % charged to Canyon Water Users	4.00%	% to Canyon	% to City	Replacement Interval (yr)
Interest % earned by City reserve/sinking fund	0.50%			
PRV Repairs	\$ 206,892	98.06%	1.94%	20
Chlorination Station Capital Cost	\$ 117,000	95.83%	4.17%	20
Bartholomew Tank	\$ 1,400,000	3.35%	96.65%	50
Water Penstock	\$ 6,700,000	0.47%	99.53%	50
Contingency %	10.00%			

June 1991 June 2005 Double Rate Credit (yrs) 14

Canyon Connections with PRV Data						Canyon Water User Costs								27% of Water Bill over Credit Period and Double Billing Credits (if applicable)						City Monthly Costs calculated over respective Replacement Interval Period				
Accounts	PRV Station Capital Cost	PRV Cost to Cyn Users (%)	Special Circumstance Cost to Cyn User (%)	# Users on Connection	Priority	PRV Connection Monthly Cost	PRV Individual User Monthly Cost	Chlorination Station Monthly Cost	Chlorination Station Individual User Monthly Cost	Bartholomew Tank Monthly Cost	Bartholomew Tank Individual User Monthly Cost	Water Penstock Monthly Cost	Water Penstock Individual User Monthly Cost	Total Billing Over Last 3-Years	Average Individual Water Bill Over 3 Year Period	Account Capital Projects Credit During Credit Period	Account Double Rate Credit Within Credit Period	Account Capital Projects Monthly Credit	Account Double Rate Monthly Credit	PRV Stations	Chlorination Station	Bartholomew Tank	Water Penstock	
Hobble Creek Haven	\$16,220.00	98%		43	Low	\$105.67	\$2.46	\$355.88	\$8.28	\$94.66	\$2.20	\$64.24	\$1.49	\$29,583.09	\$19.11	\$66,561.95	\$37,274.69	\$221.87	\$221.87	\$2.00	\$14.84	\$2,504.50	\$12,341.95	
Robertson (Service upgrade)	\$12,156.32	98%		1	Low	\$79.19	\$79.19	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$1,415.06	\$39.31	\$3,183.89	\$1,782.98	\$10.61	\$10.61	\$1.50	\$0.35	\$58.24	\$287.02	
Compass	\$8,097.00	98%		1	Low	\$52.75	\$52.75	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$365.90	\$10.16	\$823.28	\$461.03	\$2.74	\$2.74	\$1.00	\$0.35	\$58.24	\$287.02	
Stub	\$0.00	0%	0%	1	Low	\$0.00	\$0.00	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.35	\$58.24	\$287.02
Holiday Hills + McKell	\$28,458.97	98%		26	High	\$185.40	\$7.13	\$215.18	\$8.28	\$57.23	\$2.20	\$38.84	\$1.49	\$9,816.34	\$10.49	\$22,086.77	\$12,368.59	\$73.62	\$73.62	\$3.51	\$8.98	\$1,514.35	\$7,462.57	
John Njelson & Drown	\$12,752.22	98%		2	High	\$83.08	\$41.54	\$16.55	\$8.28	\$4.40	\$2.20	\$2.99	\$1.49	\$2,105.70	\$29.25	\$4,737.83	\$2,653.18	\$15.79	\$15.79	\$1.58	\$0.69	\$116.49	\$574.04	
* Mackey (connected November 2006)	\$10,100.00	98%		1	Medium	\$65.80	\$65.80	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$11,716.45	\$325.46	\$6,326.88	\$0.00	\$21.09	\$0.00	\$1.25	\$0.35	\$58.24	\$287.02	
Thornhill, Reeb, & vacant	\$28,319.84	98%		3	High	\$184.49	\$61.50	\$24.83	\$8.28	\$6.60	\$2.20	\$4.48	\$1.49	\$1,144.55	\$10.60	\$2,575.24	\$1,442.13	\$8.58	\$8.58	\$3.50	\$1.04	\$174.73	\$861.07	
* Dee's Riding Ranch (connected March 2008)	\$9,225.89	98%		1	High	\$60.10	\$60.10	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$1,614.85	\$44.86	\$581.35	\$0.00	\$1.94	\$0.00	\$1.14	\$0.35	\$58.24	\$287.02	
Cox - (Smith Ranch 1" connection)	\$9,225.89	98%		1	High	\$60.10	\$60.10	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$574.35	\$15.95	\$1,292.29	\$723.68	\$4.31	\$4.31	\$1.14	\$0.35	\$58.24	\$287.02	
Thomas - (Smith Ranch 4" connection)	\$28,458.97	98%		2	High	\$185.40	\$92.70	\$16.55	\$8.28	\$4.40	\$2.20	\$2.99	\$1.49	\$398.60	\$5.54	\$896.85	\$502.24	\$2.99	\$2.99	\$3.51	\$0.69	\$116.49	\$574.04	
Hatch - (Laney, Hatch, Watkins, Parker, Paxton, Brown, A&W)	\$25,068.30	98%		7	High	\$163.31	\$23.33	\$57.93	\$8.28	\$15.41	\$2.20	\$10.46	\$1.49	\$3,362.02	\$13.34	\$7,564.55	\$4,236.15	\$25.22	\$25.22	\$3.10	\$2.42	\$407.71	\$2,009.15	
Stub (west side)	\$0.00	0%	0%	1	Low	\$0.00	\$0.00	\$8.28	\$8.28	\$2.20	\$2.20	\$1.49	\$1.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.35	\$58.24	\$287.02	
Subtotal	\$188,083.40																							
Contingency	\$18,808.34																							
TOTAL	\$206,891.74			90		\$1,225.30		\$744.86		\$198.12		\$134.45		AVG/Month = \$19.86	\$116,630.85	\$61,444.67	\$388.77	\$365.74	\$23.23	\$31.07	\$5,241.97	\$25,831.99		

City Single Residential Connection cost @ 7595 Connections = \$4.10 per month
 City Single Residential & Commercial cost @ 8206 Connections = \$3.79 per month
 All Canyon & All City Connections Equal Pmt@ 8,296 Connections = \$4.03 per month

Years to Credit on Bill
 25 14

Canyon Group Cost @	90 Users	= \$17.20 per month
#1 Only PRV Costs		\$13.61 per month
#2 Only Chlorination Costs		\$8.28 per month
#3 Only Tank Costs		\$2.20 per month
#4 Only Penstock Costs		\$1.49 per month
#5 Capital Projects Credit	Years to Credit on Bill 25	-\$4.32 per month
#6 Double Rate Credit	Years to Credit on Bill 14	-\$4.06 per month
#7 No Chlorination Costs		\$8.93 per month
#8 No Capital Projects Credits		\$21.52 per month
#9 No Double Rate Credits		\$21.27 per month
#10 No Credits At All		\$25.59 per month
#10 All Costs Shared Evenly by All City & Canyon Water Users		\$4.03 per month

← (ALL COSTS & ALL CREDITS INCLUDED)

City connections per PRV Station =	413.20
Canyon connections per PRV Station =	8.18
City has	50.50 times more connections per PRV than the Canyon
City	1.94%
Canyon	98.06%

City connections per Chlorination Station =	2066
Canyon connections per Chlorination Station =	90
City has	22.96 times more connections per Chlorination Station than the Canyon
City	4.17%
Canyon	95.83%

Canyon Tank Storage Requirements	
400 gallons per ERC (State Standard for households)	
2,848 gallons per irrigated acre (State Standard)	
0.23 acres per ERC (City). Use 15% of this number	
Fire flow is 1,500 gpm for 2 hours	
Household	36,000
Irrigation	8,843
Fire flow	0
	44,843
Bartholomew Tank holds 1.34 million gallons	
Canyon percent of tank =	3.35%

City Water System ERC's		
	ERC	Percent
City	8,206	43.27%
ERC's of other connections	2,886	15.22%
Irrigated Acres	1,745	7,784
Canyon	90	41.04%
	90	0.47%
Total	18,966	