Toilet Replacement Payback Calculation

Step 1. Calculate Your Combined Water & Sewer Rate

How are you billed?	
or	
Billed per thousand gallons (kgal)	Billed per hundreds of cubic feet (HCF)
water rate	water rate
sewer rate =	sewer rate =
combined water & sewer \$/1000gal	combined water & sewer \$/100 ft ³
Step 2. Calculate Your Expected Annual Water and Cost Savings	
# of people in household	# of people in household
multiply by X 9.7 gallons/person/day	multiply by X 1.3 ft ³ /person/day
= multiply by X 365 days/year	= multiply by X 365 days/year
annual water savings =	annual water savings =
divide by / 1000	divide by / 100
multiply by water X	multiply by water X
& sewer rate (from above)	& sewer rate (from above)
annual cost savings	annual cost savings
Step 3. Calculate The Cost of Replacing All Your Old (pre-1994) Toilets and Payback Period Estimate the cost of a new toilet & installation. You can use a suggested toilet cost of \$75-\$150. If you use a plumber add \$120 for installation	
# of toilets to replace	# of toilets to replace
cost of toilet & install	cost of toilet & install
any rebates received	any rebates received
total installed cost	total installed cost
annual cost savings (from above)	annual cost savings (from above)
payback period* years	payback period* years
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^{*} Assumtions used: replacement of a 3.6 gpf toilet with a 1.6 gpf toilet creating a water savings of 9.7 gallons/person/day or 1.3 ft3/person/day