

Examples of Annual Rent Calculations under the New Water Rent Structure

All imperial water volumes are converted to their equivalent metric units in cubic metres. Imperial area measures, which are used in permits over Crown land, are converted to their equivalent in hectares, refer to Table 1.

Table 1: Metric Conversion

Volume of Area	Imperial Measure	Conversion Factor to Cubic Metres or Hectares
1	Gallons (British)	0.00454609
1	Acre-feet	1,233.48
1	Cubic-feet	0.0283168
1	Acres	0.404685

Table 2 provides an example of how the new water rental rates are calculated. Rounding, which is required for metrification, is carried out to 4 significant figures, following rules provided by the Canadian Standards Association and approved by the Standards Council of Canada.

Table 2: Annual New Water Rent Calculations (2009 rental rates).

Water Use	Authorized Amount (imperial)	Authorized Amount (metric) Rounded to 4 significant figures	Annual Amount (metric) Rounded to 4 significant figures	New Annual Rental Rates (per 1,000 cubic metres) \$25.00 minimum	Rental Calculation Annual Amount X Rental Rate / 1,000	New Annual Rental	Former Rental (e.g. 2005)
Domestic	500 gallons a day	2.273 cubic metres a day	829.6 cubic metres a year	\$0.60 \$25.00 minimum	$\frac{829.6 \times \$0.60}{1,000}$ = \$0.50	minimum rent of \$25.00 would be applied	\$19.00
Irrigation (small-scale)	10 acre-feet per annum	12,330 cubic metres per annum	12,330 cubic metres per year	\$0.60 (phase in for 2009) \$25.00 minimum	$\frac{12,330 \times \$0.60}{1,000}$ = \$7.40	minimum rent of \$25.00 would be applied	\$22.00
Irrigation (large-scale)	100 acre-feet per annum	123,300 cubic metres per annum	123,300 cubic metre per year	\$0.60 (phase in for 2009) \$25.00 minimum	$\frac{123,300 \times \$0.60}{1,000}$ = \$73.98	\$73.98	\$55.00

Examples of Annual Rent Calculations under the New Water Rent Structure, continued

Table 2: Annual New Water Rent Calculations, continued

Water Use	Authorized Amount (imperial)	Authorized Amount (metric) Rounded to 4 significant figures	Annual Amount (metric) Rounded to 4 significant figures	New Annual Rental Rates (per 1,000 cubic metres)	Rental Calculation Annual Amount X Rental Rate / 1,000	New Annual Rental	Former Rental (e.g. 2005)
Nursery	40 acre-feet per annum	49,340 cubic metres per annum	49,340 cubic metres per year	\$0.60 \$25.00 minimum	$\frac{49,340 \times \$0.60}{1,000}$ = \$29.60	\$29.60	\$48.00
Pulp Mill Operation	50 cubic-feet per second	1.416 cubic metres per second	44,650,000 cubic metres a year	\$0.85 (phase in for 2009) \$100.00 minimum	$\frac{44,650,000 \times \$0.85}{1,000}$ = \$37,952.50	\$37,952.50	\$19,100.00
Placer Mining	0.5 cubic-feet per second	0.01416 cubic metres per second	446,500 cubic metres a year	\$0.45 \$100.00 minimum	$\frac{446,500 \times \$0.45}{1,000}$ = \$200.93	\$200.93	\$192.00
Residential Waterpower (supplied by landowner to residence)	5 cubic-feet per second	0.1416 cubic metres per second	4,465,000 cubic metres a year	\$0.01 (phase in for 2009) \$100.00 minimum	$\frac{4,465,000 \times \$0.01}{1,000}$ = \$44.65	minimum rent of \$100.00 would be applied	\$50.00
Stockwatering	1,000 gallons a day	4.546 cubic metres a day	1,659 cubic metres a year	\$0.60 \$25.00 minimum	$\frac{1,659 \times \$0.60}{1,000}$ = \$1.00	minimum rent of \$25.00 would be applied	\$30.00

Examples of Annual Rent Calculations under the New Water Rent Structure, continued

Table 2: Annual New Water Rent Calculations, continued

Water Use	Authorized Amount (imperial)	Authorized Amount (metric) Rounded to 4 significant figures	Annual Amount (metric) Rounded to 4 significant figures	New Annual Rental Rates (per 1,000 cubic metres)	Rental Calculation Annual Amount X Rental Rate / 1,000	New Annual Rental	Former Rental (e.g. 2005)
Storage (small-scale)	0.5 acre-feet per annum	616.7 cubic metres per annum	616.7 cubic metres per year	\$0.01 (phase in for 2009) \$25.00 minimum	$\frac{616.7 \times \$0.01}{1,000}$ = \$0.006	minimum rent of \$25.00 would be applied	\$11.00
Storage (large-scale) e.g. for waterpower production reservoir	20,000 acre-feet per annum	24,670,000 cubic metres per annum	24,670,000 cubic metres per year	\$0.01 (phase in for 2009) \$25.00 minimum	$\frac{24,670,000 \times \$0.01}{1,000}$ = \$246.70	\$246.70	\$110.00
Waterworks (water supply by a Local Authority)	25,000,000 gallons a year	113,700 cubic metres a year	113,700 cubic metres a year	\$1.10 \$100.00 minimum	$\frac{113,700 \times \$1.10}{1,000}$ = \$125.07	\$125.07	\$175.00
Permit over Crown land (small-scale) e.g. pipe to water source	0.25 acres	0.1012 hectares	0.1012 hectares a year	\$7.50 per hectare \$10.00 minimum rent	$0.1012 \times \$7.50$ = \$0.76	minimum rent of \$10.00 would be applied	\$6.00
Permit over Crown land (large-scale) e.g. large reservoir	10,000 acres	4,047 hectares	4,047 hectares a year	\$7.50 per hectare \$10.00 minimum rent	$4,047 \times \$7.50$ = \$30,352.50	\$30,352.50	\$30,000.00