Q. Provide the details by plant of the derivation of the 2004 forecast of 4,582 GWh hydroelectric generation based on a 30-year average (Production evidence, Table 7, page 30).

A. The following table provides the expected net generation from each of Hydro's hydroelectric plants based upon records for the most recent 30 years (1973-2002).

Plant	Conversion Factor GWh/Mm³	30-Year Inflows Mm³	Fisheries Releases Requirements Mm³	Average Spill Mm³	Useful Water Mm³	Average Energy GWh
Bay d'Espoir	0.4333	6208.61	32.73	43.30	6132.59	2657
Upper Salmon	0.1295	4560.45	94.33	48.94	4417.18	572
Cat Arm	0.9005	834.04	0.00	20.09	813.95	733
Hinds Lake	0.5380	670.98	14.54	1.61	654.83	352
Granite Canal	N/A	N/A	N/A	N/A	N/A	224
Paradise River	0.0913	524.56	0.00	119.41	405.15	37
Mini-Hydro	N/A	N/A	N/A	N/A	N/A	7.15
TOTAL						4582

With the exception of Granite Canal and the mini-hydro facilities, annual average production is based on historic average water to energy conversion factor for the plant which is applied to the average water available for use at the generating stations. The average water available for use is determined from average historic watershed inflow records with a reduction for water releases due to spill and for fisheries flow requirements.

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1	Fisheries Release Requirements are as per agreement with the Department
2	of Fisheries and Oceans and are based on historic average releases.
3	
4	The production from the mini-hydro plants is based on actual production,
5	while the estimated production from Granite Canal is based upon a power
6	and energy analysis.