



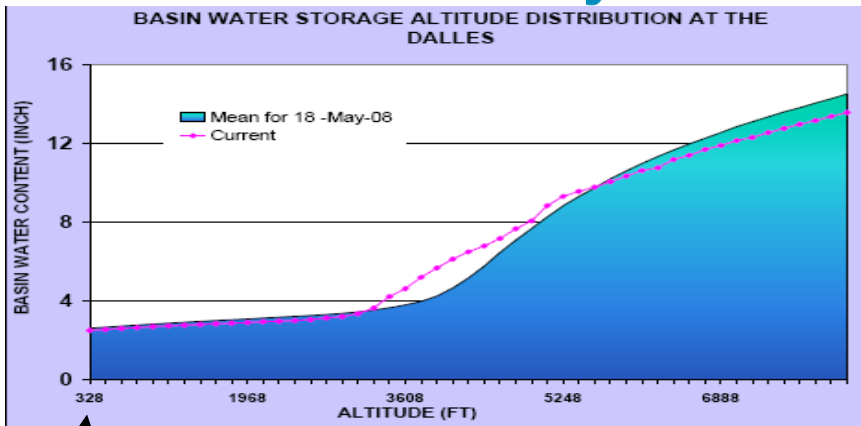
Streamflow Forecasting Service

Provided by HyMet Inc.

RELIABLE SEASONAL FORECASTS OF COLUMBIA RIVER NATURAL INFLOWS

The HyMet Stream flow Forecasting service has been providing reliable forecasts of seasonal inflow of the Columbia River for eight years for distribution to public and private utilities, energy traders and investment banks. These forecasts are distributed by email on a weekly schedule from early December to mid- September.

The HyMet forecasting model uses daily observations of precipitation, temperature and runoff to produce these forecasts. Our Combined Columbia Weekly Forecasts at Grand Coulee, The Dalles and Lower Granite Dams contain detailed charts and tables of forecast hydrograph and basin water storage, which includes snowpack and groundwater storage. Basin water storage is distributed according to altitude to improve the accuracy and timing of the forecasts.



↑ Total basin water storage distribution with altitude for The Dalles Basin for May18, 2008

The Columbia River is the largest hydropower producing basin in Western North America. The 55 hydroelectric dams on its main stem and tributaries have the capacity to generate 36,700 MW annually. It is also a major supplier of irrigation water for Washington, Montana and Idaho farmlands, and is the home for several species of anadromous fish.

Mean Forecast Errors%									
BASIN/ Year	HyMet			NWRFC			ESP		
	GCL	LWG	TDA	GCL	LWG	TDA	GCL	LWG	TDA
2004-05	2.8	11.0	4.5	5.8	10.1	7.4			
2005-06	5.8	7.9	5.0	7.0	6.6	6.4			
2006-07	3.9	21.8	5.3	2.0	13.2	4.8	5.4	15.8	8.4
2007-08	5.6	11.3	7.1	2.9	2.5	2.6	3.2	5.1	3.9
2008-09	7.3	13.9	3.9	8.1	11.2	2.5	7.8	9.0	4.3
Average	5.1	13.2	5.1	5.2	8.7	4.7	5.5	10.0	5.5

← Average errors (%) for the 2005-2009 period of January - July forecasts produced by HyMet and the National weather Service (NWRFC and ESP) at Grand Coulee (GCL), The Dalles (TDA) and Lower Granite (LWG) dams.

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