

HYDROMETEOROLOGIST

GENERAL

Under the direction of the Head of the Hydrology Section the incumbent oversees the preparation of operational runoff forecasts for river basins in Manitoba and the development of new or modified forecasting procedures. The incumbent also provides hydrometeorological and climatological expertise, supervises the operation of the flood forecast centre, and makes recommendations regarding staffing and budget.

TYPICAL DUTIES

Determines and supervises methodologies used in the development of procedures for forecasting runoff volumes and peak discharges for river basins in Manitoba.

Co-ordinates collection and evaluation of climatological and hydrometric data.

Supervises the application of flood forecasting procedures.

Co-ordinates field surveys to determine runoff conditions.

Prepares forecasts of streamflow to facilitate operation of major flood control works in the Province.

Provides consultation to the private sector, government agencies and other branches of the department.

Maintains liaison with forecasting agencies in the United States and in neighbouring Provinces.

Plans, organizes and carries out workshops and seminars on hydrometeorology.

Supervises professional and technical staff.

Prepares written reports.

Performs other related duties as assigned.

QUALIFICATIONS

Knowledge, Abilities and Skills

Knowledge of theoretical and applied meteorology and hydrology.

Good knowledge of mathematics, physics and statistics.

Familiarity with FORTRAN computer programming.

Ability to plan and supervise work of support staff.

Ability to establish and maintain effective working relationships.

Ability to communicate effectively.

Education, Training and Experience

Graduation from a recognized university in Science with specialization in Physics and Hydrology plus a minimum of five years' experience in Operational Meteorology and Hydrology.