

NATURAL RESOURCES SPECIALIST - ECOLOGIST

KIND OF WORK

Professional aquatic biology work.

NATURE AND PURPOSE

Under general supervision, conduct assigned biological surveys of rivers, lakes, wetlands; perform related work as required.

At this level, focus of work is on applying standard methods to collection and analysis of data to contribute to major reports or for clearly defined projects/programs. At the Intermediate level, by contrast, incumbents are also involved in assisting in planning reviews and investigations and providing biological and technical expertise to DNR staff and the public.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Plan hydrographic and limnological surveys to ensure data collected is accurate and complete by determining the scope of the survey, identifying staff, equipment and material needs, and scheduling field work.

Implement surveys and inventories so decisions will be based on sound data by training seasonal employees in methods and techniques; conducting and leading surveys; following established methods and procedures; writing summaries and making recommendations.

Interpret and summarize field data to provide basic limnological data for management purposes by applying standard methods for determining morphometric parameters and water chemistry, interpreting aerial photos, and constructing contour maps.

Performs other related duties.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Aquatic and terrestrial biology, ecology, limnology, chemistry, statistics, surveying, and soil science sufficient to conduct investigations.

Cartography, aerial photography and contouring, and drafting procedures sufficient to construct maps from data collected in the field.

Standard methods for determining morphometric parameters and water chemistry sufficient to analyze and interpret data.

Ability to:

Adapt survey procedures to particular weather conditions and lake features.

Communicate orally and in writing with diverse audiences.

Communicate with seasonal survey crews sufficient to instruct them in equipment usage, sounding and mapping procedures and to demonstrate techniques.

Plan a survey schedule sufficient to obtain relevant data in a timely and efficient manner.

Est.: 4/87T.C.: 6/93

Rev.:

Former Title(s): NR Specialist

Aquatic Biologist