

Water Resources Branch

The Water Resources Branch (WRB) in Fort Collins, Colo., has completed a study in Rocky Mountain NP that examines the relationship between back-country use and possible contamination by *Giardia lamblia* in two watersheds that are popular with recreationists. A cooperative effort involving personnel from Rocky Mountain NP, Colorado State University, and WRB, the study uses several techniques, including 1) sampling water for bacteria, 2) collecting wildlife scat and analyzing it for *Giardia* cysts, 3) pumping stream water to determine the presence of *Giardia* cysts, and 4) interviewing hikers, backpackers and other recreationists to determine use patterns and to discover whether those drinking untreated water from streams in the study area were becoming ill. A final project report is being prepared and will be available from the Branch in early 1985.

Technical reports describing previous projects as well as other scientific information useful for management, preservation, and protection of NPS waters are available through WRB. Reports currently in stock are:

Status Report: Acid Rain Research in the National Park Service, 1982. Tech. Rep. 82-1.

Guidelines for Water Quality Program Developments in National Park Service Areas. Tech. Rep. 82-2.

State of the Art in Road Salt Deicing, 1982. Tech. Rep. 82-3.

Water Management in Park and Recreation Areas. Tech. Rep. 82-5.

Summary of Geologic Factors That May Influence the Sensitivity of Selected Watersheds in Rocky Mountain National Park, Colorado, to Atmospheric Deposition. Tech. Rep. 82-6.

Automatic Water Samplers for Field Use. Tech. Rep. 83-1.

Metal Concentrations in Fish at Curecanti National Recreation Area, Gunnison, Colorado. Tech. Rep. 83-3P

Stream Discharge Rating Curves for the Fall River, Rocky Mountain National Park. Tech. Rep. 83-5P.

Bed Material Analysis on the Fall River. Tech. Rep. 83-6P.

Observations on the Ecology of Colorado Squawfish in the Yampa River, Colorado, 1982. Tech. Rep. 83-7.

Hydraulic and Sediment Transport Investigation, Yampa River, Dinosaur National Monument. Tech. Rep. 83-8.

Measurement of Bend Flow Hydraulics on the Fall River at Low State. Tech. Rep. 83-9P.

Development of a Water Quality Monitoring Program for the Big Thicket National Preserve, Texas. Tech. Rep. 84-Bith-1.

Bedload Transport and Hydraulic Geometry Relations for Fall River, Rocky Mountain National Park, Colorado, June-August 1983. Tech. Rep. 84-Romo-1.

Long-term Research into the Effects of Acidic Deposition in Rocky Mountain National Park: Summary Report 1980-1984 (available in January 1985). Tech. Rep. 84-Romo-2.

Portable Kits for Water Chemistry Reconnaissance in the Field. Tech. Rep. 84-2.

Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Tech. Rep. 84-3.

A Resource Manager's Guide to Water Quality Criteria (available in December 1984). Tech. Rep. 84-4.

Requests for reports should be sent to Chief, Water Resources Branch, National Park Service, 301 S. Howes, Fort Collins, Colo. 80521.