

**ANNUAL WATER-RESOURCES REVIEW,
WHITE SANDS MISSILE RANGE,
NEW MEXICO, 1985**

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ABSTRACT

Hydrologic data were collected at White Sands Missile Range in 1985. The total ground-water withdrawal in 1985 was 676,433,800 gallons. The 11 supply wells in the Post Headquarters well field produced 642,056,000 gallons, or about 95 percent of the total. The six Range area supply wells produced 34,377,800 gallons. The total ground-water withdrawal was 8,841,200 gallons less in 1985 than 1984.

Water samples from six Post Headquarters supply wells were collected for major chemical analysis. The greatest dissolved-sodium concentration was 33 milligrams per liter in water from supply well SW-22, and the greatest dissolved-chloride concentration was 27 milligrams per liter in water from supply well SW-16. Water from supply well SW-11 had the greatest concentrations of dissolved calcium (69 milligrams per liter) and dissolved sulfate (120 milligrams per liter).

Water samples from 19 other wells were collected for pH and specific-conductance analysis. The pH ranged from 7.6 in water from test well T-6 to 8.3 in water from test wells T-8 and T-17. The specific conductance ranged from 254 microsiemens per centimeter at 25 degrees Celsius in water from test well T-17 to 2,010 microsiemens per centimeter at 25 degrees Celsius in water from test well T-14.

Depth-to-water measurements in the Post Headquarters supply wells showed seasonal fluctuations as well as continued long-term declines. Three of the four test wells equipped with continuous recorders continued to show water-level declines in 1985.

INTRODUCTION

This report presents water-resources data that were collected at White Sands Missile Range (fig. 1) during 1985 by personnel of the U.S. Geological Survey and White Sands Missile Range. Ground-water pumpage, water-level measurements, and chemical-quality data summarized in this report were obtained as a result of the continuing water-resources hydrologic-data-collection program sponsored by the Installation Support Directorate, White Sands Missile Range.

This report is the eighteenth Annual Water-Resources Review prepared for White Sands Missile Range. The 1968 report and subsequent annual reports are available for inspection at the District Office of the U.S. Geological Survey, Water Resources Division, Albuquerque, New Mexico.