

Hopi Indian Agency
 Annual Narrative and Cost Report
 Water Supply Operation and Maintenance
 Irrigation Operation and Maintenance
 Fiscal Year 1944
 Burton A. Ladd, Superintendent

Weather Conditions

Precipitation for the past year on the Hopi jurisdiction was below normal which was reflected in the below normal harvest of the Hopi farmers. Severe winds in the early spring blowing sand into the Jeddito and Pclacca washes upstream from the projects retarded the normal flow of the washes resulting in a shortage of water during the early growing season.

Water Supply

A shortage of water in the early summer on both the Jeddito and Phillips Farms projects hampered the crops. After small floods came down the washes the channels were cleaned and normal flow was resumed. During the winter months water was delivered to the projects and the ground was allowed to absorb as much as possible. The early spring run-off in the Oraibi wash was diverted on to the Hardrocks projects; however, the run-off was small and only lasted a few days.

Farm Activities and Market Conditions

A good crop of corn and garden truck was produced on the projects amounting in value to approximately \$2,500.00. All farming is subsistence and no produce was sold. A little trading of products between the Hopis themselves is carried on.

Operation and Maintenance

The projects were maintained in good condition. Ditch cleaning and repairs to structures was the principal work. The pumping plant on the Phillips Farms project was overhauled and a new system of cooling installed.

Construction

An allotment of \$2,000.00 was received from the Miscellaneous Gardens fund and this money was used to level approximately 35 acres of land on the Hardrocks project. The main canal was cleaned out and relined and the project was put in shape to receive this year's run-off. The land that was ready was planted this spring to Victory Gardens by the Oraibi community. A large amount of leveling needs to be done to put additional land of the project in condition for farming.

Land Irrigated

The three Hopi projects, namely, Jeddito (57 acres), Phillips Farms (43 acres) and Hardrocks (35 acres) were all watered through the winter and spring months in preparation for the planting. After the planting the water supply was short.

Water Supply Operation & Maintenance

The regular water supply maintenance activities were carried on throughout the year. Materials and supplies were hard to get and many developments had to be slighted in order to maintain more essential wells.

Hopi Indian Agency
Annual Narrative Report

continued:

Water Supply Operation and Maintenance (continued)

A new well was drilled in the Hopi ram pasture. Water was found at a depth of 435 feet in the Morrison sandstone. This well on a bailer test made six gallons a minute. At present the well is being operated with an engine and pump jacks and we intend to purchase a new windmill and tower out of this year's funds. This well was developed in new territory and is a very valuable asset to the livestock program.

The old agency well at Keams Canyon was cleaned out and that has helped the production for this well. All school wells were kept in operating condition. The engine and pump at the Toreva Day School was overhauled and repaired during which time it was necessary to haul water for the school.

Four new concrete frost boxes equipped with float valves were installed at various locations. Much delay was experienced in trying to keep automotive equipment operating in order to cover the jurisdiction.

Llewellyn Kingsley,

Foreman, Water Development

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