

UNITED STATES DEPARTMENT OF THE INTERIOR

Fred E. Seaton, Secretary

BUREAU OF INDIAN AFFAIRS

Glenn L. Emmons, Commissioner

NAVAJO PROJECT, NEW MEXICO

SUPPLEMENTAL REPORT

March, 1957

To

FEASIBILITY REPORT

January, 1955

NAVAJO AGENCY

WINDOW ROCK, ARIZONA

Diversion Requirements

The diversion requirements for the Navajo Project, under the new plan, are shown in the following tabulation. ^{1/}

Use	Productive ^{1/} Area Acres	Diversion Requirement	
		Acre-feet Per acre	Acre-feet
Shiprock Division			
Served from gravity canals	70,359	5.00	351,800
Served from pump canals	25,822	4.50	116,200
South San Juan Division	8,918	4.50	40,130
Total	105,099	4.83	508,130

^{1/} The productive area excludes farmsteads and other non-productive areas within the farm units, which are estimated to average 5 percent of the irrigable area.

Stream Depletion

The new average annual stream depletion that would be attributable to the Navajo Project is shown in the following tabulation.

Use	Productive Area Acres	Depletion Requirement	
		Acre-feet Per acre	Acre-feet
Shiprock Division			
Served from gravity canals	70,359	2.5	175,900
Served from pump canals	25,822	2.2	56,800
South San Juan Division	8,918	2.2	19,600
Reservoir evaporation loss			28,800 ^{1/}
Total	105,099		281,800 28,800

^{1/} Evaporation based on reservoir studies made for 1955 report.