



**NAVAJO INDIAN IRRIGATION PROJECT  
WATER DELIVERY SYSTEM:  
OPERATION AND MAINTENANCE**

ANNUAL REPORT

FOR

FY 1993

BIA CONTRACT

CTN00X10205

**Navajo Agricultural Products Industry  
P. O. Drawer 1318  
Farmington, NM 87499**

DECEMBER 1993

**NOTICE: This report is a general requirement of the agreement between the Bureau of Indian Affairs and the Navajo Nation/Navajo Agricultural Products Industry for Operation and Maintenance of the Navajo Indian Irrigation Project.**

**Information in this report represents data from only one fiscal year, 1993. The reader is cautioned against drawing conclusions or making recommendations as a result of data in this report. The data presented has been verified, to the extent possible, by the O & M staff.**

SECTION FIVE

5.0 NAPI ACREAGE SERVED

The original design for the Water Delivery System provides for a somewhat greater acreage than that employed by NAPI in any given year. The Congress of the United States authorized a total of 110,630 irrigated acres in the NIIP. The Bureau of Reclamation adjusted the initial Block design acreage about five percent (5%) as an allowance for roads, canals and other factors. The water delivery units were then constructed to about the 95% level on Blocks one, two and three. Other actions created small changes in various field sizes. Then a case was made that the 5% reduction should be added back to new construction so that the original intent of Congress would be satisfied. These factors combine to create different acreage tabulations for completed construction and remaining construction, as shown in TABLE 5.1.

TABLE 5.1

<b>NIIP ACREAGES BY BLOCK</b>				
	<b>Original Design</b>	<b>Delivery Unit Acres</b>	<b>Future Design</b>	<b>NAPI Acres</b>
<b>Block One</b>	9,320	8,872		8,372
<b>Block Two</b>	9,960	9,270		8,957
<b>Block Three</b>	8,760	8,455		8,225
<b>Block Four</b>	10,380	9,885		9,063
<b>Block Five</b>	10,090	9,662		8,680
<b>Block Six</b>	8,330	8,036		7,569
<b>Block Seven</b>	10,410	9,810		6,216
<b>Block Eight</b>	12,130		13,060	
<b>Block Nine</b>	11,220		11,684	
<b>Block Ten</b>	10,400		13,031	
<b>Block Eleven</b>	9,630		8,865	
<b>Totals</b>	110,630	63,990	46,640	57,082

The Delivery Unit Column determines the actual NIIP water delivery capability. The capability equates to an actual volume of water, usually 9 gallons per minute per acre, that must be available at a specific location in the water delivery system. The fact that NAPI may have less total acres in production is a management decision.

A tabulation of the crop by block Cropping Plan for 1993 is summarized as TABLE 5-2.

**TABLE 5.2  
INITIAL CROP BY BLOCK 1993**

CROP	BLK 1	BLK 2	BLK 3	BLK 4	BLK 5	BLK 6	BLK 7	TOTALS
ALFALFA	263	1637	2145	1684	1815			7444
BARLEY WINTER	52			333				385
PINK BEANS	448		376					824
PINTO BEANS	290	2061		1711			392	4454
NAVY BEANS			649			1722	2064	4435
INDIAN CORN						122		122
CORN SHORT		1878	596		2433	3247		8154
CORN MID	880			1440	67	129		2516
CORN-LONG					449			449
FALLOW							3050	3050
WHEAT BARLEY GRAZEOUT	1139			298				1437
MILLET						111		111
ONIONS WHITE						62		62
ORCHARD		224						224
PASTURE HAY GRAZER		171						171
PASTURE	139		82		61	72		344
ONION, YELLOW						129	225	354
POTATOES	1924	391	1178	765	393		1704	6345
SOD	251							251
WINTER WHEAT	2724	576			1990	1824	1222	8336
VINE-MELON/PUMPKINS						79	239	318
W BARLEY-CERT SEED	121			333				454
W BARLEY/SILAGE				376	242			618
ACR-N/GRASS POND			78					78
BEANS BLACK							99	99
CARROTS							53	53
CHILI							51	51
<b>TOTALS</b>	<b>8231</b>	<b>6938</b>	<b>5104</b>	<b>6830</b>	<b>7440</b>	<b>7487</b>	<b>9099</b>	<b>51139</b>

**DOUBLE CROP BY BLOCK 1993**

*see fallow/pond 48011*

HAY GRAZER	489			149	665			1303
NEW ALFALFA			167			480		647
NEW STAND ALFALFA						152		152
BEANS PINK	189							189
BEANS PINTO					242			242
BARLEY	678			244				922
BEANS GRAZEOUT	875							875
W WHEAT	766	2452	2115	1898			2062	9293
<b>TOTALS</b>	<b>2997</b>	<b>2452</b>	<b>2282</b>	<b>2291</b>	<b>907</b>	<b>632</b>	<b>2062</b>	<b>13623</b>

**AGRICULTURAL STABILIZATION & CONSERVATION SERVICE  
ASCS**

*(not irrig.)*

CONSERVATION "ACR"	*	126	541	392		90		1149
CRP	*	626	906	147				1679
CU	*	439	574	1280	1844	1248		5485
<b>TOTALS</b>		<b>439</b>	<b>1326</b>	<b>2727</b>	<b>2483</b>	<b>1248</b>	<b>90</b>	<b>8313</b>

<b>GRAND TOTALS</b>	<b>11667</b>	<b>10716</b>	<b>10113</b>	<b>11604</b>	<b>9595</b>	<b>8219</b>	<b>11161</b>	<b>73075</b>
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1. Conservation ACR= Acreage Conservation Reserve, Acreage set aside for payment purposes.
2. Conservation CU 8%= Conserving Use Acres set aside to draw payment on 092 program.
3. Conservation CU Pay= Difference between planted acres and 92% which they draw payment on 92%.  
See 8% above.
4. CRP= Conservation Reserve Program= Actual acres set aside for payment for a period of 10 years and cannot be grazed or utilized, usually farmers or ranchers plant native grass or a grass of some type for cover.
5. CU-P+CP= Conserving Use Acres Planted or Considered Planted = Example  
12,000 Acre base for corn  
10,000 Planted for harvest  
1,000 ACR not designated  
1,000 CU-P+CP Protects your base

*Ac. farmed 63,990.  
(Project ac. blocks 1-7)*