

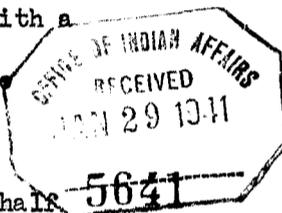
ANNUAL CROP REPORT 1940

HOPI JURISDICTION

In writing this 1940 crop report, we do so knowing that the results accomplished are small to what may have been expected. However, considering the fact that this year is the first time many of the Indians, who planted, had used irrigation the results were fairly good. Since they have had a chance to observe the workings of the past season, next year may be approached with a reasonable amount of assurance that greater results may be obtained.

On the Phillips Farms Project there were eighteen half-acre gardens planted to vegetables. Several of these were very satisfactory. This was due to the adaptability of the individual who planted and cared for them. Eleven acres, subject to irrigation and laid out for farms, were planted to beans and corn. The yield was small as it was planted Indian fashion. There is no doubt that this farm land would have produced much more had advantage been taken of existing conditions.

The Jeddito Project was planted to Sudan grass. A conservative estimate of 165 tons was produced on the fifty five acres.



This growth was plowd under as green manure. Both the Jeddito and Phillips Farms Projects have been sown to winter rye. This rye will be used as green manure in the spring tilling.

The results obtained from both of the above projects, were such to further justify our current construction program, which covers the completion of both projects.

CROP REPORT

IRRIGATION PROJECT DATA

Calendar Year 1940

Project Phillipe Farms Units 18 Gardens

(1) Crops Irrigated	Unit	(2) By Indians		(3) Agency and Schools		(4) Missions and Traders		TOTAL		Aver. Acre Yield	Average Market Value Per		Total Market Value
		Acres	Yield	Acres	Yield	Acres	Yield	Acres	Yield		Unit	Acre	
Beans (Green)	Lbs.	1.266	3000					1.266	3000	2370	7¢	165.90	\$210.00
Beets	"	.046	500					.046	500	10870	5¢	543.50	27.50
Corn (Sweet)	"	1.172	4450					1.172	4450	3790	2¢	75.92	89.00
m (Pop)	"	.295	450					.295	450	1525	5¢	76.25	22.50
Cabbage	"	.141	1800					.141	1800	12769	2¢	255.38	36.00
Carrots	"	.094	1500					.094	1500	15957	5¢	797.85	75.00
Lettuce	"	.094	500					.094	500	5300	5¢	265.00	25.00
Melons	"	.098	1600					.098	1600	16326	2¢	326.52	32.00
Onions	"	.421	3000					.421	3000	7123	5¢	356.15	150.00
Peppers (Green)	"	.225	2600					.225	2600	11521	5¢	576.05	130.00
Peas (Field)	"	5.551	9200					5.551	9200	1637	3¢	49.71	276.00
Potatoes (Irish)	"	.312	1200					.312	1200	3848	3¢	115.29	36.00
Radish	"	.062	200					.062	200	3225	10¢	322.50	20.00
Spinish	"	.078	300					.078	300	3846	5¢	192.30	15.00
Squash	"	.062	800					.062	800	12900	1¢	129.00	8.00
Irrigable but Not Cropped													
Total Irrigated		9.917						9.917					
Area Double Cropped													
Net Area Irrigated		9.917						9.917					

- (1) List of Crops irrigated
- (2) Area irrigated by Indians
- (3) Area irrigated by Schools and Agency
- (4) Area irrigated by Missions and Traders

Acres	Crop Value
9.917	\$1152.00

Remarks:

18 half acre garden tracts cultivated by one family to each garden.

IRRIGATION PROJECT DATA

CROP REPORT

Project Phillips Farms Unit _____

Calendar Year 1940

(1) Crops Irrigated	Unit	(2) By Indians		(3) Agency and Schools		(4) Missions and Traders		TOTAL		Aver. Acre Yield	Average Market Value Per		Total Market Value
		Acres	Yield	Acres	Yield	Acres	Yield	Acres	Yield		Unit	Acres	
Corn	Bu.	10	89					10	89	8.09	.90¢	\$8.01	\$80.10
Beans (Dry)	Lbs.	1	300					1	300	300	.05	15.00	15.00
Irrigable but Not Cropped													
Total Irrigated		11						11					
Area Double Cropped													
Net Area Irrigated													

- (1) List of Crops irrigated
- (2) Area irrigated by Indians
- (3) Area irrigated by Schools and Agency
- (4) Area irrigated by Missions and Traders

Acres	Crop Value
11	\$95.10

Remarks:

Eleven acres was farmed by three families

IRRIGATION PROJECT DATA

CROP REPORT

Calendar Year 1940

Project Jeddito Project Unit _____

(1) Crops Irrigated	Unit	(2) By Indians		(3) Agency and Schools		(4) Missions and Traders		TOTAL		Aver. Acre Yield	Average Mar- ket Value Per		Total Market Value
		Acres	Yield	Acres	Yield	Acres	Yield	Acres	Yield		Unit	Acre	
Sudan Grass	Tons	55	165					55	165	3	Green Manure		
Irrigable but Not Cropped													
Total Irri- gated		55						55					
Area Double Cropped													
Net Area Irrigated													

- (1) List of Crops irrigated Acres Crop Value
- (2) Area irrigated by Indians _____
- (3) Area irrigated by Schools and Agency _____
- (4) Area irrigated by Missions and Traders _____

Remarks:

The above land was sown to Sudan grass and plowed under for green manure.

DATA ON PUMP OPERATIONS AT PHILIPS FARMS

Hours Pump Operated	266
Gasoline Consumed	705 Gallons
Oil "	61 Qts.
Acres Watered	96
----- Or -----	
Hours Operated per Acre Watered	2.77
Gasoline per Hour Operated	2.65 Gallons
Oil " " "	.023 Qts.
Acre Feet Pumped	44.081
Hours Operated per Acre feet Pumped	6 Hrs. 3 Min.
----- And -----	
Cost per Hour Operated	\$.36
Cost per Acre Watered	\$.997
Cost per Acre Foot	\$ 2.178
Equipment depreciation per hour operation	.15
Cost of Gasoline computed at	13 ¢ per gallon
Lubricating Oil	28 ¢ " "



Terraced gardens used by the village of Walpi.
A copious spring runs from beneath the cap rock
above.



There is plenty of evidence that gardens like
these were in use probably 500 years ago.



Birdseye view of west of Phillip's garden.



Row of cabbage with lettuce gone to seed and corn in the back ground.



Birdseye view of part of Phillips Farms
gardens.



A row of cabbage with lettuce gone to seed
and corn in the back ground.



Native corn does well under irrigation.



A patch of melons on Phillips Farms. This Indian is plucking an old fashioned musk melon for noon lunch.



Native corn does well under irrigation.



A patch of melons on Phillips Farms. This Indian is plucking an old-fashioned musk melon for noon lunch.



Beans are heavy producers on land that was barren before irrigation.



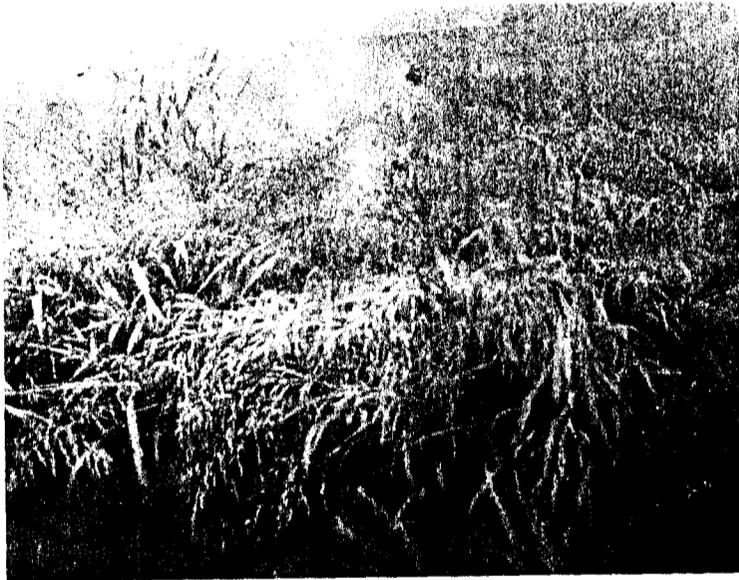


Beans are heavy producers on land that was barren before irrigation.





Grass field in the area of the project.



Grass field in the area of the project.



Sudan grass planted in rows spaced forty two inches apart on Jeddito Project.



Growth is so heavy; looks as tho it was sown broadcast. Note Indian inspecting crop.