

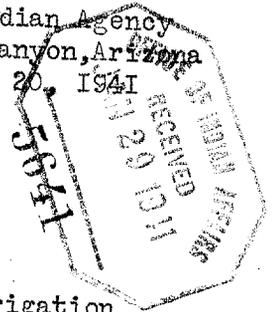
January 20, 1941

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DEPARTMENT OF THE INTERIOR
UNITED STATES INDIAN FIELD SERVICE

Hopi Indian Agency
Keams Canyon, Arizona
January 20, 1941



Commissioner of Indian Affairs
Washington, D.C.

Attention; Mr. A.L. Wathen
Director of Irrigation

Sir:-

Herewith is transmitted our annual crop report covering the
Irrigation projects for the year of 1940.

As stated in these reports production on some of the tracts
was small, however, we believe that the Indians are now in a better
position to take a hold of the advantages in having irrigation and
will produce more abundant yield next year.

Respectfully

Seth Wilson
Seth Wilson
Superintendent

RG 75, BIA, CCF
9056-1936-341 (M-C-)
Hopi
Box 20

#3

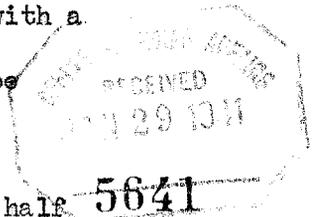
ANNUAL CROP REPORT 1940

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
 Project Phillips Farms Units 18 Gardens
 Calendar Year 1940

(1) Crops Irrigated	Unit	(2)		(3)		(4)		TOTAL	Aver. Acre Yield	Average Mar- ket Value Per Unit	Acre	Total Market Value
		By Indians Acres	Yield	Agency and Schools Acres	Yield	Missions and Traders Acres	Yield					
Beans (Green)	Lbs.	1.266	3000					3000	2370	7 1/2	165.90	\$210.00
Beets	"	.046	500					500	10870	5 1/2	543.50	27.50
Corn (Sweet)	"	1.172	4450					4450	3790	2 1/2	75.92	89.00
" (Pop)	"	.295	450					450	1525	5 1/2	76.25	22.50
Cabbage	"	.141	1800					1800	12769	2 1/2	255.38	36.00
Carrots	"	.094	1500					1500	15957	5 1/2	797.85	75.00
Lettuce	"	.094	500					500	5300	5 1/2	265.00	25.00
Melons	"	.098	1600					1600	16326	2 1/2	326.52	32.00
Onions	"	.421	3000					3000	7123	5 1/2	356.15	150.00
Peppers (Green)	"	.225	2600					2600	11521	5 1/2	576.05	130.00
Peas (Field)	"	5.551	9200					9200	1637	3 1/2	49.71	276.66
Potatoes (Irish)	"	.312	1200					1200	3848	8 1/2	115.29	36.00
Radish	"	.062	200					200	3225	10 1/2	322.50	20.00
Spinish	"	.078	300					300	3846	5 1/2	192.30	15.00
Squash	"	.062	800					800	12900	1 1/2	129.00	8.00
Irrigable but Not Cropped												
Total Irri- gated		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

Remarks :

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

Acres	Crop Value
9.917	\$1152.00

CROP REPORT

IRRIGATION PROJECT DATA

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					
From 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

Remarks:

Acres	Crop Value
11	\$95.10

Eleven acres was farmed by three families

CROP REPORT

IRRIGATION PROJECT DATA

Project Jeddito Project

Unit _____

Calendar Year 1940

(1) Crops Irrigated	Unit	(2)		(3)		(4)		TOTAL	Aver. Acre Yield	Average Mar- ket Value Per Unit	Total Market Value
		By Indians Acres	Yield	Agency and Schools Acres	Yield	Missions and Traders Acres	Yield				
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
- (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.

Acres _____

Crop Value _____

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.

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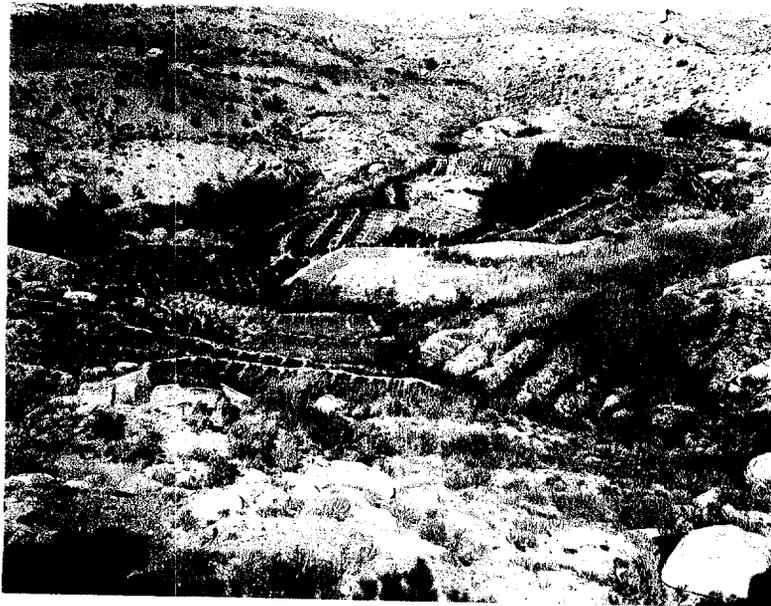
Cost per Hour Operated	\$.36
Cost per Acre Watered	\$.997
Cost per Acre Foot	\$ 2.178
Equipment depreciation per hour operation	.15

Cost of Gasoline computed at 13 ¢ per gallon

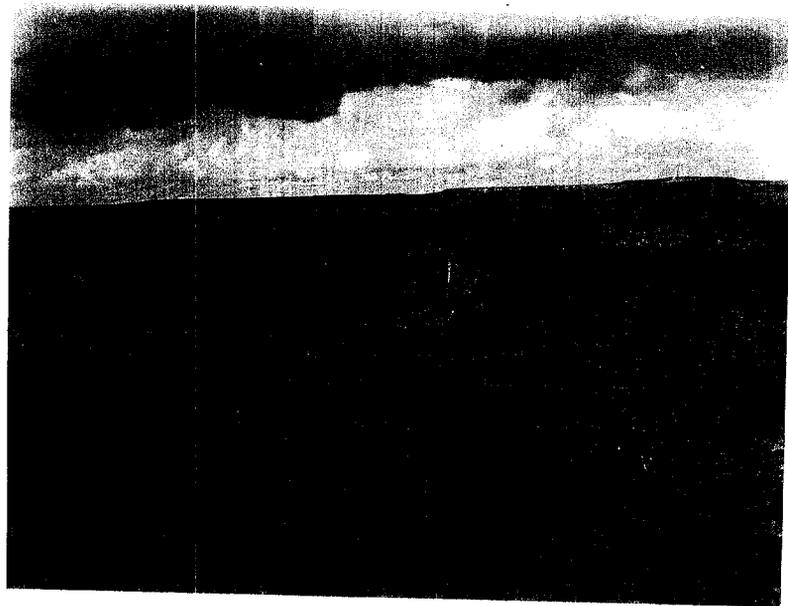
Lubricating Oil 28 ¢ " "



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.



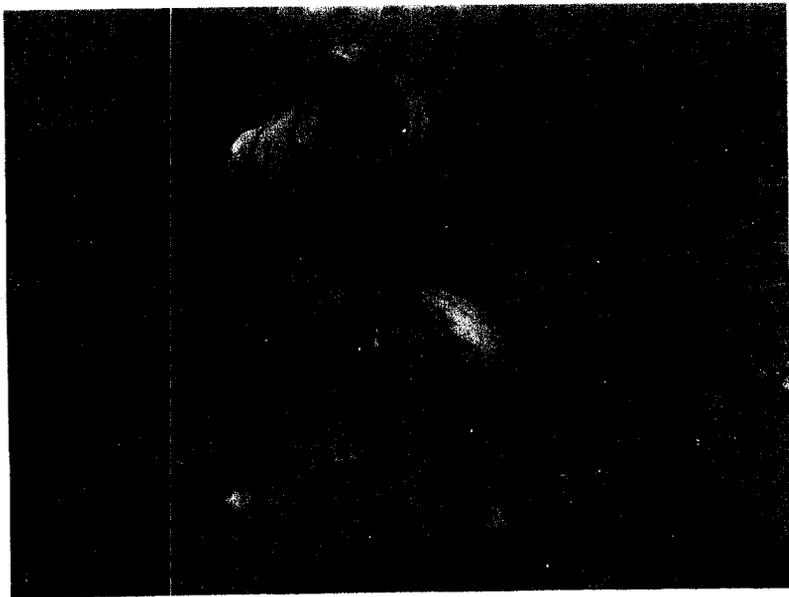
Birdseye view of part of Phillips Farms gardens.



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



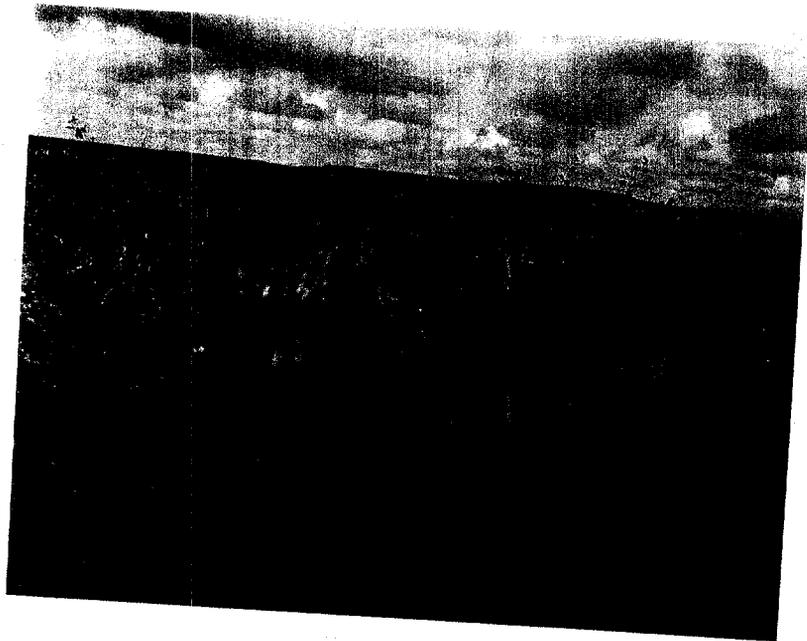
Native corn does well under irrigation.

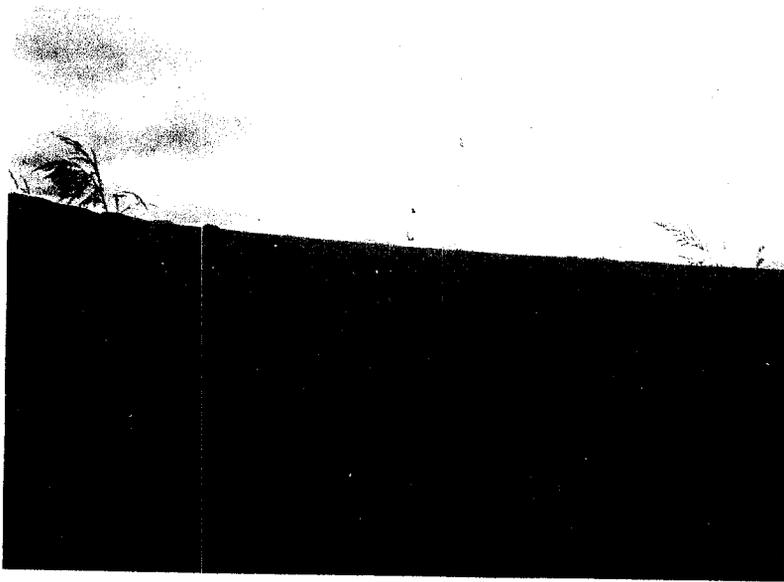


A patch of melons on Phillips Farms. This Indian is plucking an old fashioned musk melon for noon lunch.

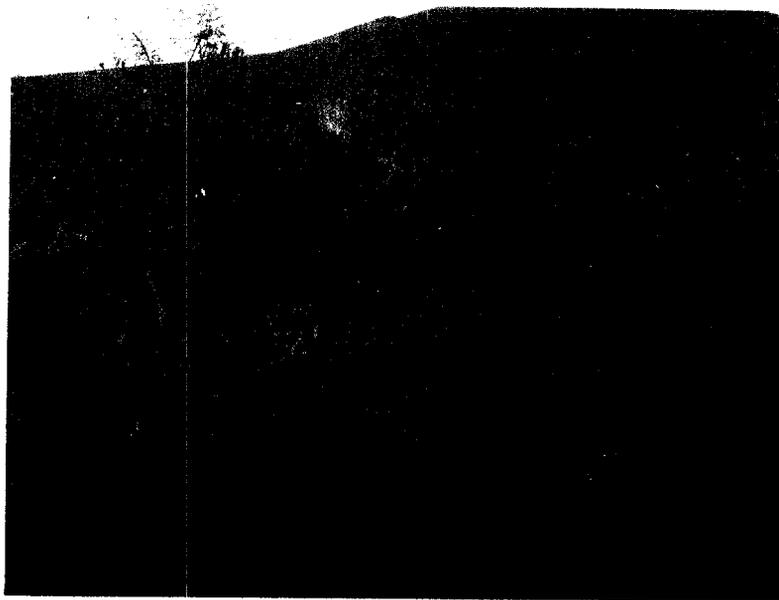


Beans are heavy producers on land that was barren before irrigation.





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.