

District #3

Moencopi-Tuba  
Pasture Canyon  
Reservoir Canyon  
(Moencopi Wash)

Estimated cost to complete \$403,000  
(Includes Moencopi-Tuba, Reservoir, and Pasture Canyon Projects)

Moencopi-Tuba:

Estimated cost to complete \$97,000  
Ultimate acreage 640  
Under canal 640  
Acreage cultivated to date (Maximum) 626

Direct Diversion--Water supply during the last few years has been inadequate to serve all farms.

Main canal subject to side-hill drainage.  
Some subjugation and leveling would be of value.  
Surveys have been initiated but not completed to determine available water supply for Pasture Canyon, Reservoir Canyon, and Moencopi Tuba. It is believed that a common system could be designed, including an infiltration line that would not only conserve but also make a more equal distribution of present water supply possible. Surveys should be completed.

No expansion of present acreage is possible.

Possible diversion site above Tuba-Keams Bridge would pick up additional water but canal would require closed conduit to land. Hopi canal would eliminate a pipe flume

Reservoir Canyon: Estimated cost to complete \$146,000  
Pasture Canyon: Estimated cost to complete 160,000  
Ultimate acreage 301  
Under canal 301  
Maximum irrigated & cultivated to date 301

Springs and storage located in Pasture Canyon.  
Sheep Dip Reservoir storage small--30' plus acre-feet. Crest could be raised 10' for a capacity of 200 acre-feet.

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Hopi Reservoir storage capacity 100 acre-feet. Crest could be raised 15', raising storage capacity to 800 acre-feet.

Studies of water supply necessary to determine proposed use by Tuba School. Doubtful whether water enough for all.

Canal system needs cleaning and release in pipeline in areas of extreme canal loss through project.

Moencopi Tuba and Reservoir should be operated as a unit with equal division of all waters.

Some leveling on project and side hill drainage control.

Extension studies, surveys, and planning necessary

Moencopi Tuba	1950 Estimates	
Diversions	10,000	
Main canal-North 1.8 miles	10,000	
2.0 miles	32,000	
Main canal-South	5,000	
Main canal-Hopi	10,000	
Subjugation, leveling, 300 acres	<u>30,000</u>	\$97,000
Reservoir Canyon:		
Diversions	20,000	
Main canal-4 miles pipe	126,000	
Subjugation	<u>0</u>	146,000
Pasture Canyon		
3 miles pipe to Reservoir Canyon	95,000	
Hopi Reservoir--20' lift.	<u>65,000</u>	160,000
		<u>\$ 403,000</u>

(Estimate Provisional)

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