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ARIZONA DEPARTMENT OF WATER RESOURCES

STATE FINANCIAL ASSISTANCE

ON

FLOOD CONTROL PROJECTS

A Report to the  
Thirty fifth legislature  
January 1981



006.101

State of Arizona



## DEPARTMENT OF WATER RESOURCES

222 North Central Avenue, Suite 850, Phoenix, Arizona 85004

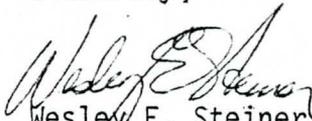
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Pursuant to the requirements of Section 45-2709 A.R.S., the Arizona Department of Water Resources hereby transmits the eighth annual report on the status of the Flood Control Assistance Program (A.R.S. 45-2701 through 2711).

This report addresses those flood control projects eligible for financial assistance under the program and itemizes the disbursement of State funds to each eligible project. A functional description is presented for each project as well as a program synopsis which highlights the significant project activities during the past year. Also included is an estimate of State appropriations required to pay anticipated claims from local project sponsors during Fiscal Year 1981-82.

Sincerely,

  
Wesley E. Steiner  
Director

Think Conservation!

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,  
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

TABLE OF CONTENTS

	Page
LETTER OF TRANSMITTAL.....	i
INTRODUCTION.....	iii
GUIDELINES FOR STATE ASSISTANCE.....	1
STATUS OF PROJECTS RECEIVING APPROPRIATIONS.....	3
✓ Indian Bend Wash Project.....	3
Williams-Chandler Watershed.....	4
Apache Junction-Gilbert Watershed.....	5
✓ Buckhorn-Mesa Watershed.....	6
✓ Wickenburg Watershed.....	7
Foote Wash Watershed.....	7
✓ Harquahala Valley Watershed.....	7
✓ Cave Buttes Dam.....	8
✓ Adobe Dam.....	9
New River Dam.....	9
✓ Arizona Canal Diversion Channel.....	10
PROGRAM SYNOPSIS.....	12
SUMMARY TABLE.....	15
PROJECT MAPS	

## INTRODUCTION

Before any federal flood control project can be constructed by either the Corps of Engineers or the Soil Conservation Service, all land rights and utility relocations required for project construction must be provided by local or State interests. This requirement has historically slowed project development in Arizona. Many projects have been authorized by the Federal Government, only to be abandoned because of the inability of local sponsors to provide their share of the project costs.

Calendar year 1980 was the eighth year of the 15-year State Flood Control Assistance Program authorized by the Legislature in 1973 to accelerate needed flood control projects in Arizona. This program, as outlined in ARS 45-2701 through 45-2711, authorizes the State to financially assist local sponsors by reimbursing them for up to one-half the cost of lands and utility relocations required to accommodate the construction of federal flood control projects. Guidelines for sponsors to follow in determining eligible project costs and submitting claims for reimbursement have been prepared by the Arizona Department of Water Resources (formerly Arizona Water Commission). Copies of these Guidelines have been distributed to all sponsors expected to request funds from the Flood Control Assistance Program.

Since its inception in 1973, several amendments have been adopted which served to streamline the program administration and expedite the disbursement of State funds to local sponsors. The existence of this program has proven to be a key factor in the installation of several large flood control projects in Arizona. A summary of program appropriations and project disbursements is listed on page 15.

## GUIDELINES FOR STATE ASSISTANCE

To provide a uniform policy in administering the program for financial assistance, a set of guidelines has been prepared for use by local sponsoring agencies. The policies have been published as "Guidelines for State Financial Assistance on Flood Control Projects" Arizona Water Commission, December 1973. Local sponsoring agencies must adhere to these guidelines to be eligible for State reimbursement. In general, the guidelines set forth the following:

1. Local sponsoring agencies must accept full responsibility for performance of the local cooperation requirements of federal flood control projects. These requirements include, but are not limited to, purchasing all necessary lands, easements and rights-of-way as well as making all necessary relocations. The sponsors must undertake all negotiations and legal actions necessary for acquisition of rights-of-way.
2. Local sponsoring agencies are responsible for justification of all costs for which State reimbursement is sought.
3. Local sponsors must diligently pursue acquisition of land rights to minimize cost increases due to inflationary trends or area development.
4. Local sponsoring agencies must have adopted appropriate floodplain regulations before they are eligible to receive State reimbursement.
5. Local sponsors must have rights-of-way appraisals made by qualified appraisers.
6. Local sponsors purchasing lands, easements or rights-of-way for more than 120 percent of appraised value will not be eligible for full State reimbursement benefits unless prior approval by the Department of Water Resources for such purchase has been obtained.
7. Costs associated with land acquisition which are eligible for State assistance include appraisal fees, survey costs, title reports, title insurance, preparation of deeds and agreements, costs of printing summons and complaints, filing fees, reporter's fees, witness fees, jury fees, recording fees and similar expenses directly attributable to the acquisition of rights-of-way.
8. Costs associated with eminent domain proceedings are eligible expenditures.
9. Severance damages or construction costs to mitigate severance damages are eligible expenditures.

10. The costs of necessary relocations are eligible only to the extent that they provide facilities of equivalent usefulness and quality. The Department of Water Resources will determine the extent of reimbursement eligible on relocations where betterments are involved.
11. Costs associated with relocation which are eligible for State assistance include, but are not limited to, engineering and surveying, and contract administration and inspection.
12. Local sponsoring agencies must follow procedures for filing claims as established in the guidelines. Forms for filing such claims are provided by the Department of Water Resources.
13. The local sponsoring agency is required to have a compliance audit prepared following project completion. This audit must determine the amount of expenditures eligible for State financial assistance.
14. Disbursements will be made to sponsors for all claims as soon as claims qualify and State funds are available.

STATUS AND DESCRIPTION OF PROJECTS  
RECEIVING APPROPRIATIONS

Continuing progress on flood control during 1980 was evidenced by the initiation of construction on four major projects - the Indian Bend Wash Interceptor Channel, Adobe Dam, the RWCD Floodway, and the Saddleback F.R.S. and Diversion structures in Harquahala Valley. Several other projects were being brought closer to construction through the continued acquisition of land rights and the preparation of engineering plans and specifications.

Approximately \$5,000,000 was available for distribution to local sponsors at the end of December 1980. This amount resulted from a carryover of approximately \$1,000,000 from Fiscal Year 1980 and a \$4,000,000 appropriation for Fiscal Year 1981. Program disbursements during calendar year 1980 approximated \$3,500,000.

Local sponsors indicate project expenditures in excess of \$3,000,000 have been encumbered as of December 31, 1980, and will be submitted for 50 percent reimbursement during early 1981. The Flood Control District of Maricopa County reports that negotiations for \$10,000,000 of project required rights-of-way are currently underway and should be largely culminated prior to the end of June 1981. If this occurs, the District will easily be able to submit claims exceeding the available balance of the current program appropriations.

Indian Bend Wash Project

The Indian Bend Wash flood control project was authorized by Congress as a feature of the 1965 Flood Control Act.

This particular project is a fine example of a flood control project that has the support of environmental groups. The project plan prepared by the Corps of Engineers and approved by local sponsors includes: (1) inlet and interceptor channels to be constructed by the Federal Government; (2) a five-mile greenbelt, 600 to 1,100 feet wide, to be developed by the city; and (3) an outlet channel to be constructed by the Federal Government. A map of the project area showing proposed facilities is shown on Plate 1.

The overall project incorporates numerous recreation features. The cost of these features will be shared by the City of Scottsdale and the Federal Government. No State monies will be expended to support recreation aspects of the project. State funds will be used to match local expenditures for land

rights necessary for the inlet, outlet, interceptor and side channels and to replace low flow bridges over the wash.

The local sponsors for the project are the Flood Control District of Maricopa County, City of Scottsdale and the City of Tempe. Expenditures of funds for rights-of-way which are eligible for State assistance are coordinated primarily by the Flood Control District of Maricopa County, however, the City of Scottsdale has made independent requests for reimbursement of some features.

The City of Scottsdale has been active in the process of acquiring rights-of-way and relocating utilities with the financial assistance of the Flood Control District. Such assistance provided the city is included in the reimbursement requests made by the District.

As of December 31, 1980, \$3,602,785 has been disbursed to the Flood Control District and \$2,263,971 to the City of Scottsdale for the Indian Bend Wash Project.

Present estimates indicate that the Flood Control District will request an additional reimbursement for approximately \$250,000 by June 30, 1981. No additional claims are expected from the City of Scottsdale during the remainder of Fiscal Year 1980-81. Claims totaling \$750,000 for expenditures on the Interceptor and Side Channels are anticipated during F.Y. 81-82.

#### Williams-Chandler Watershed

The Williams-Chandler Watershed is located in eastern Maricopa and Northern Pinal Counties. The watershed extends from Chandler on the west to the Superstition Mountains on the east. A map of the watershed locating the proposed and existing flood control features is shown on Plate 2.

Planning and construction are being carried out by the Soil Conservation Service under Public Law 566 at the request of a number of local sponsoring agencies. The Flood Control District of Maricopa County is providing the necessary land rights and utility relocations for the project.

Two flood retarding structures and a connecting floodway have already been constructed as features of the watershed plan and are in operation. These structures, Vineyard Road Dam and Rittenhouse Dam, were completed in 1968 and 1969, respectively, and the local costs associated with their construction, which were borne entirely by the Flood Control District, are not eligible for State reimbursement.

The feature of the watershed flood control plan authorized for State financial assistance is the portion of the Roosevelt Water Conservation District (RWCD) Floodway within the watershed. The RWCD Floodway will drain waters from the lower portions of the Buckhorn-Mesa, Apache Junction-Gilbert and Williams-Chandler watersheds and will consist of a flood channel adjacent to the east side of the existing RWCD canal extending from Brown Road in the north to the Gila River in the south, a distance of about 22.5 miles. That portion of the flood channel in the Williams-Chandler watershed is approximately 14.5 miles long. Protection will be provided to the RWCD canal, agricultural lands and rural housing and commercial development in the watershed. Construction started on Reach 1 of the floodway during August 1980.

The Flood Control District of Maricopa County has received \$799,157 reimbursement for expenditures to date on this project. It is anticipated that the State will be requested to reimburse an additional \$589,300 by June 30, 1981. Present estimates indicate that requests for approximately \$200,000 will be made by the District in Fiscal Year 1981-82.

#### Apache Junction-Gilbert Watershed

The Apache Junction-Gilbert Watershed is located immediately north of the Williams-Chandler Watershed and is bounded by the Chandler-Mesa area on the west and the Superstition Mountains on the east as depicted on Plate 2.

Watershed planning and construction are being carried out by the Soil Conservation Service under the provisions of Public Law 566 at the request of a number of local sponsoring agencies. The Flood Control District of Maricopa County is providing the necessary land rights and utility relocations.

Two flood retarding structures and a major floodway have already been constructed as features of the watershed plan and are currently in operation. These structures, Powerline Dam along with the North Diversion and Powerline Floodway, were completed in 1967 and 1968, respectively. Local costs, which were borne entirely by the District, are not reimbursable under the assistance program.

The feature of the watershed flood control plan authorized for State financial assistance is a 7.25-mile segment of the RWCD Floodway. Construction of this segment of the floodway is estimated to commence around 1983 after the floodway has been completed through the Williams-Chandler Watershed.

To date, the Flood Control District of Maricopa County has received \$324,770 as reimbursement for eligible expenditures on this project. Present estimates indicate the District will request an additional reimbursement of \$412,000 prior to June 30, 1981. It is anticipated that an additional \$800,000 in State funds will be required during Fiscal Year 1981-82 in order to meet the District's requests for reimbursement of eligible expenditures.

#### Buckhorn-Mesa Watershed

The Buckhorn-Mesa Watershed project is located in eastern Maricopa and northern Pinal Counties. The watershed extends from Mesa on the west to the Superstition Mountains on the east. A map of the watershed locating the proposed flood control features is shown on Plate 2.

Planning and construction are being carried out by the Soil Conservation Service under Public Law 566 at the request of a number of local sponsoring agencies. The Flood Control District of Maricopa County is providing the necessary land rights and utility relocations for the project.

Two separate flood control systems have been planned to control floodwaters emanating from the watershed. The first of these systems, which includes the recently completed Spook Hill Flood Retarding Structure, consists of an elaborate interconnecting network of five flood retarding structures, three floodways and two outlets. This flood control system will provide protection to the Central Arizona Project aqueduct, county and State roads, and rapidly growing housing and commercial development within the watershed. The Spook Hill structure was completed in November 1979, and preparations are presently being made to commence construction of the Signal Butte Floodway in late 1981.

The second flood control system in this watershed is the northern 1½ miles of the RWCD Floodway. Benefits accruing as a result of this project have been discussed previously under the Williams-Chandler and Apache Junction-Gilbert Watersheds. Construction of this segment of the floodway is not expected prior to 1985.

To date, the Flood Control District of Maricopa County has received \$1,584,518 as reimbursement for flood control expenditures in this watershed. An additional \$426,700 in claims is expected prior to the end of F.Y. 1980-81.

It is presently anticipated that \$1,070,000 in reimbursement will be requested by the Flood Control District during F.Y. 1981-82.

### Wickenburg Watershed

The Wickenburg Watershed is located in northwestern Maricopa County and southwestern Yavapai County. Project features are Sunnycove and Sunset Dams which provide protection to the City of Wickenburg. Construction was undertaken by the Soil Conservation Service under Public Law 566 at the request of several local sponsoring agencies. The Flood Control District of Maricopa County provided necessary land rights and utility relocations for the project. Right-of-way acquisition and utility relocations were completed before construction started as required under Public Law 566. Project construction was completed in 1976.

After the completion of a final audit of project expenditures in October 1977, the Commission disbursed the final assistance payment for this project on January 31, 1979. Disbursements for this project totaled \$99,464.

### Foote Wash Watershed

The Foote Wash Watershed is located in Graham County, southeast of Safford. Construction, which was completed in 1977, was administered by the Soil Conservation Service as a Resource Conservation and Development Project. Graham County provided necessary land rights and utility relocations for the project.

The project, which includes two flood retarding structures and related outlet pipes to San Simon Creek, provides flood control protection to irrigation facilities, agricultural lands and rural development between the project facilities and the Gila River. Acquisition of all necessary rights-of-way has been completed and a claim for reimbursement was received by the Water Commission in 1978. While this claim was being reviewed, a project audit was performed and submitted to the Commission in September 1978. As a result, the Commission combined the cost of the audit with the amount due from the claim and made a final project payment in the amount of \$23,868. This disbursement was presented to Graham County in October 1978 and completed State assistance for the Foote Wash Watershed. The originally estimated cost for this project was significantly reduced since many property owners donated land rights or provided these rights at minimum cost.

### Harquahala Valley Watershed

The Harquahala Valley Watershed is located in northwestern Maricopa County

and eastern Yuma County. It includes the southern end of the Harquahala Mountains, the Big Horn Mountains and a broad alluvial plain. The watershed drains into Centennial Wash. A map of the watershed locating proposed flood control features is shown on Plate 4.

The project will be constructed under Public Law 566 as requested by a number of local sponsoring agencies. Preliminary plans were prepared by the Arizona Water Commission as authorized by Senate Bill 1152 in 1973. Construction, which will be carried out by the Soil Conservation Service, began in November 1980.

The Harquahala Valley Watershed project consists of proposed works of improvement including both conservation land treatment and structural measures. Saddleback Flood Retarding Structure, Harquahala Flood Retarding Structure, Harquahala Floodway, Saddleback Diversion and the Centennial Levee are the structural features that will be implemented. The project will afford flood control protection to local agricultural interests, the CAP aqueduct, county and State roads and a proposed irrigation water distribution system.

The Flood Control District of Maricopa County is the agency providing necessary land rights and utility relocations for the project. To date, the Flood Control District has received \$494,885 as reimbursement for eligible expenditures associated with this project. Present estimates indicate the remainder of the \$560,000 appropriated by HB 2140 in 1977 will be claimed by the end of F.Y. 1980-81.

#### PHASE B

The Federal Flood Control Act of 1965 authorized a five-phase comprehensive plan for flood control in the Phoenix metropolitan area. Phase A is the Indian Bend Wash Project. Phase B provides for flood control improvements on New River and other streams within the urban area. Project planning and construction will be carried out under the supervision of the U.S. Army Corps of Engineers. Authorized features presently proposed for construction are shown on Plate 3. General descriptions and probable schedules for the proposed project are presented in the following paragraphs.

#### Cave Buttes Dam

Cave Buttes Dam which was completed in October 1979, is located approximately 1/2 mile below Cave Creek Dam. Cave Buttes Dam is an earthfill structure

approximately 109 feet high and provides a reservoir capacity of 46,600 acre-feet at the spillway crest. This structure will reduce the peak design flow for the Standard Project Flood in Cave Creek from 54,000 cfs to 486 cfs.

Cave Creek Dam provided flood control on Cave Creek against flows up to the magnitudes of those which can be expected about once every 25 to 50 years. Additionally, it has been determined that the spillway is inadequate and would require considerable modification to meet accepted safety standards. A major flood in Cave Creek would overtop this structure and cause significant flooding in downtown Phoenix if the Cave Buttes facility had not been constructed.

To date, \$2,376,398 has been disbursed to the Flood Control District of Maricopa County as reimbursement for eligible expenditures associated with the acquisition of project rights-of-way and utility relocation work. It is presently estimated that future disbursements of approximately \$171,700 will be made prior to June 30, 1981, which should fulfill the State's commitment on this project.

#### Adobe Dam

Adobe Dam will be constructed on Skunk Creek across Deer Valley Road about one mile west of the Black Canyon Highway. This dam will be a compacted earth-fill structure with a maximum height of 63 feet. The crest of the dam will have a length of 2.1 miles. The storage capacity of the reservoir will be approximately 18,350 acre-feet at the spillway crest which includes 2,700 acre-feet for accumulated sediment. In order to achieve maximum benefits from construction of the dam at the selected site, extensive modifications will be required to the Black Canyon Highway bridges over Skunk Creek as a result of proposed channelization of Skunk Creek at this location. Following the completion of final design and land rights acquisition, project construction commenced in November 1980.

Through December 1980, the Department has disbursed \$4,835,626 to the Flood Control District of Maricopa County as reimbursement for land rights and utility relocations required prior to project construction. Additional claims totaling \$431,900 are expected prior to June 30, 1981. Present estimates indicate \$117,500 will be required during F.Y. 1981-82 in order to meet the District's requests for reimbursement of project expenditures.

#### New River Dam

The New River Dam will be constructed on New River about eight miles upstream

from its confluence with Skunk Creek. Preliminary plans indicate the main dam will be a compacted earthfill structure with a maximum height of about 92 feet. The crest of the embankment will be approximately 2,800 feet long. An earthfill dike about 7,000 feet northwest of the right abutment of the main embankment will be required along the west edge of the detention basin area to confine the design floods. The dike will have a crest length of 5,800 feet and a maximum height of about 30 feet. The reservoir for this dam will have a gross capacity of 34,500 acre-feet of which 4,920 acre-feet will be for the accumulation of sediment.

Since the majority of the land rights for this project was completed in 1978, activity during the past year has been very limited. Construction is estimated to commence in mid-1985.

Through December 1980, the State has disbursed \$1,457,342 to the Flood Control District of Maricopa County for reimbursement of eligible expenditures associated with this project. Additional claims totaling \$7,100 are expected prior to June 30, 1981. It is estimated that \$238,000 will be required during F.Y. 1981-82 in order to meet the District's requests for reimbursement of project expenditures.

#### Arizona Canal Diversion Channel

The Arizona Canal Diversion Channel will be located just upstream from the Arizona Canal and will be nearly parallel to it. Where possible, the alignment will be such that the left wall of the channel will be at the north right-of-way line of the Canal. The diversion channel will extend from near 40th Street to Skunk Creek, a distance of about 17.3 miles. The design capacity of the diversion channel will increase from 6,800 cubic feet per second at Cudia City Wash near 40th Street to 36,000 cubic feet per second at the Skunk Creek confluence.

The channel diverts flows from the Cave Creek drainage area which would, if allowed to continue southerly from Cave Creek at the Arizona Canal, cause serious flood damages to development downstream.

As of December 31, 1980, State contributions totaling \$1,779,503 have been disbursed to the Flood Control District of Maricopa County for reimbursement of eligible project expenditures. It is anticipated that the Department will receive additional reimbursement requests totaling \$4,223,100 prior to June 30, 1981. Present estimates indicate that \$2,824,500 will be required during F.Y. 1981-82 in order to meet the District's requests for reimbursement of project expenditures.

Expenditures on this project could be many times greater if funds were available. Total expenditures for the local share of this project will probably exceed \$35,000,000 and any delay in acquiring necessary land rights simply increases the total amount necessary.

The Flood Control District is in a position of having to purchase certain rights-of-way for the Arizona Canal Diversion Channel at a time earlier than would be considered necessary from a project scheduling standpoint. It is common knowledge that the project will be constructed and there is speculation among property owners along the channel alignment that home prices will become depressed. In several instances this has created claims of hardship. The Flood Control District, due to a lack of funds, has not been able to purchase developed properties ahead of schedule requirements. The District has been purchasing undeveloped land where necessary to prevent development from occurring which would later increase acquisition costs.

## PROGRAM SYNOPSIS

The following summary presents a brief outline of progress on each eligible project during the past year.

1. Indian Bend Wash. The Corps of Engineers awarded a \$2,000,000 construction contract for the Interceptor Channel on October 17, 1980. Actual construction began on November 17, 1980, and is expected to be completed within 15 months. Preparation of the Design Memorandum for the collector and side channel system continued during the past year and should be published in draft form during early 1981. The Flood Control District of Maricopa County cannot initiate acquisition of land rights for the side channel system until the Design Memorandum is completed.
2. Adobe Dam. Acquisition of land rights and relocation of utilities was completed by the Flood Control District of Maricopa County during 1980 to the extent that the Corps was able to award an 8.3 million dollar construction contract on September 29, 1980. Project construction commenced in early November 1980 and is expected to be completed by December 1981.
3. New River Dam. Very little activity occurred at the local level on this project during the past year since the majority of the project right-of-way was acquired during previous years. However, the Corps of Engineers continued work on the Project Design Memorandum which should be completed by mid-1981.
4. Arizona Canal Diversion Channel. Although there was very little project right-of-way acquired during 1980, property appraisals for approximately 8 million dollars of real estate were acquired which allowed the local sponsor to initiate negotiations for several parcels during the late part of the year. Actual property acquisitions should accelerate rapidly during 1981 as much of the preparatory groundwork was been completed during the past year.
5. Williams-Chandler Watershed (RWCD Floodway). Acquisition of all required land rights was completed for Reach 1 during 1980 which enabled the Soil Conservation Service to award a 3 million dollar construction contract in July 1980. Construction of Reach 1 commenced in August and is expected to be completed in one year. Plans for construction of the Highway 87

and Southern Pacific Railroad bridges neared completion during the past year and construction work is expected to commence during early 1981. Continued progress was made during the year toward the final acquisitions of the remaining right-of-way for Reaches 2, 3 and 4.

6. Apache Junction-Gilbert Watershed (RWCD Floodway). Due to a concentration of efforts on other projects scheduled for earlier construction dates, the Flood Control District of Maricopa County did not actively pursue the acquisition of land rights in this watershed during 1980. To date, right-of-way acquisition is approximately 35% complete. Preliminary planning and design has been completed by the Soil Conservation Service.
7. Buckhorn-Mesa Watershed.
  - a) RWCD Floodway -- The Flood Control District of Maricopa County reported no activity on this project during 1980. To date, approximately 49 percent of the project right-of-way has been acquired. Preliminary planning and design has been completed by the Soil Conservation Service.
  - b) Signal Butte Floodway -- Approximately 75 percent of the project right-of-way was obtained during 1980. Preliminary planning and design has been completed by the Soil Conservation Service.
  - c) Signal Butte and Pass Mountain Flood Retarding Structures -- The local sponsor indicates no activity has taken place on these projects during the past year other than filing applications for project required State and federal lands. The Soil Conservation Service has initiated work on preliminary project planning and design.
8. Harquahala Valley Watershed.
  - a) Saddleback Flood Retarding Structure and Diversion -- With the completed acquisition of all required right-of-way for these two structures during 1979, the Soil Conservation Service awarded a 3.5 million dollar construction contract in October 1980. Project construction began in November 1980 and should be completed within 15 months.
  - b) Harquahala Flood Retarding Structure and Floodway -- Right-of-way acquisition for this phase of the project was completed by the local sponsor during 1980. Additionally, the Soil Conservation Service brought the final project design to within 95 percent of completion

during the past year which should allow project construction to commence by mid-1981.

- c) Centennial Levee -- No activity was reported on this project during 1980 at either the local or federal level. Preliminary planning and design is approximately 50 percent complete.

SUMMARY TABLE  
FLOOD CONTROL ASSISTANCE PROGRAM  
(December 31, 1980)

Project	Appropriation to Date 1/	Disbursements through 12/31/80	Estimated Claims to be Submitted Prior to 6/30/81 <sup>3/</sup>	Appropriation Requested FY 81-82	Estimated State Funds Req'd to Complete Project beyond FY 81-82 Requested Appropriation <sup>4/</sup>	Scheduled Construction Start
Foote Wash	75,000	23,868	0	0	0	Completed
Wickenburg	40,000	99,464	0	0	0	Completed
Williams-Chandler Watershed	1,350,000	799,157	589,300	133,300	1,753,200	Under constr.
Apache Junction-Gilbert Watershed	0	324,770	412,000	533,300	2,104,900	1983
Buckhorn-Mesa Watershed	1,000,000	1,584,518	426,700	713,300	2,045,500	Under constr.
Harquahala Valley Watershed	560,000	494,885	56,300	0	0	Under constr.
Indian Bend Wash	880,000	5,866,756	250,500	500,000	382,700	Under constr.
Cave Buttes Dam	0	2,376,398	171,700	0	0	Completed
Adobe Dam	0	4,835,626	431,900	78,400	354,100	Under constr.
New River Dam	0	1,457,342	7,100	158,700	377,900	1983
ACDC	0	1,779,503	4,223,100	1,883,000	26,114,400	1985
Program General	21,216,000 <sup>5/</sup>	N/A	N/A	N/A	N/A	N/A
<b>TOTAL</b>	<b>25,121,000</b>	<b>19,642,287</b>	<b>6,568,600<sup>2/</sup></b>	<b>4,000,000</b>	<b>33,132,700</b>	

--See footnotes on following page--

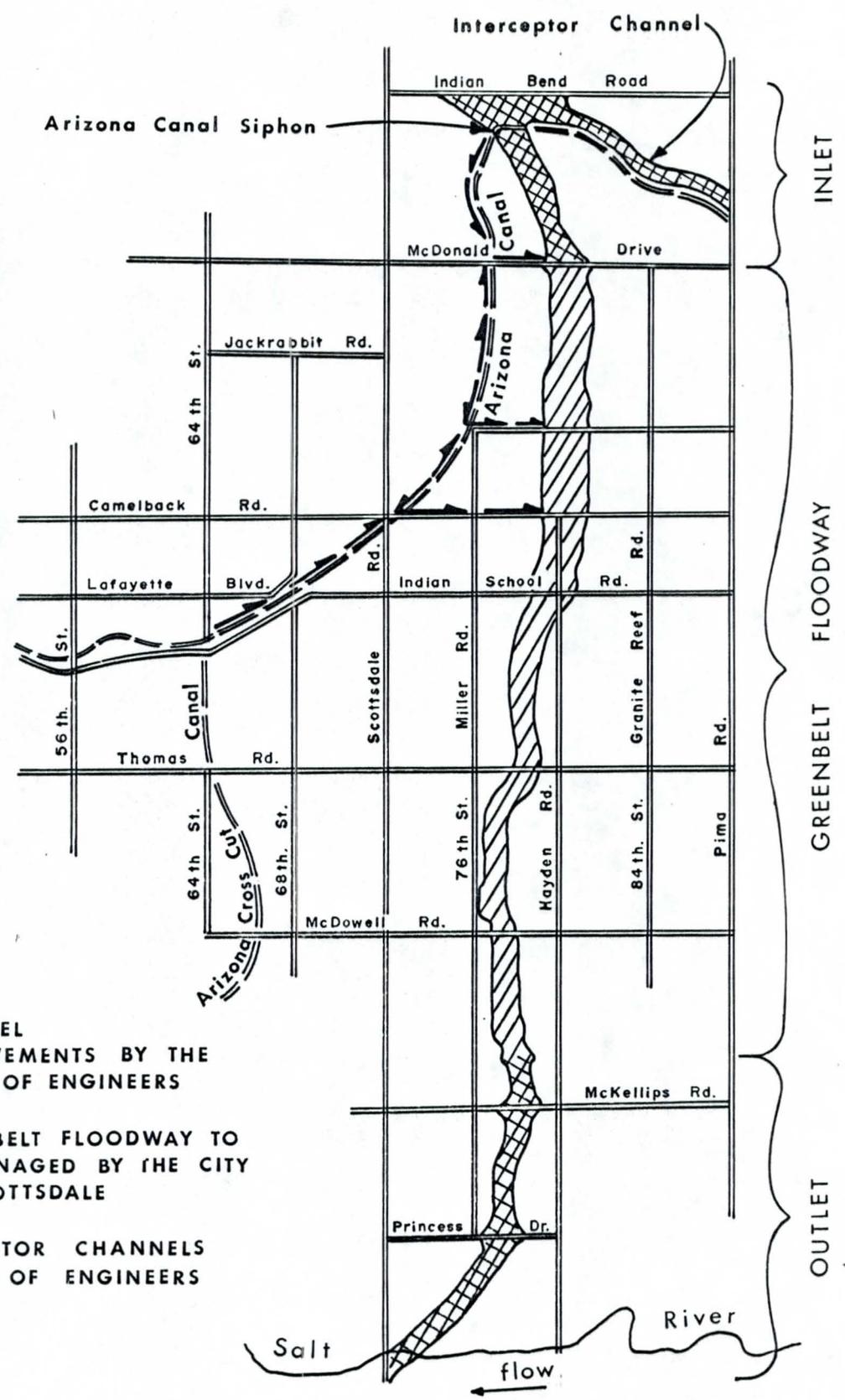
FOOTNOTES

- 1/ Projects showing "0" appropriation are funded from the "Program General" appropriation.
- 2/ As of January 1, 1981, the balance of appropriated funds was \$4,960,820
- 3/ These figures are based on estimates obtained from local sponsors taking into account their own fiscal limitations and obligations as well as timely disbursement of State funds for eligible claims during the stated period.
- 4/ These figures are approximations and are subject to significant fluctuation from year to year because of rapidly increasing real estate values and the inflationary effect on utility and road relocation costs. The figures in this column represent 50% of eligible project costs which are to be reimbursed by State funds.
- 5/ \$452,777 of the appropriated funds on hand reverted to the State General Fund on July 1, 1980.



**LEGEND**

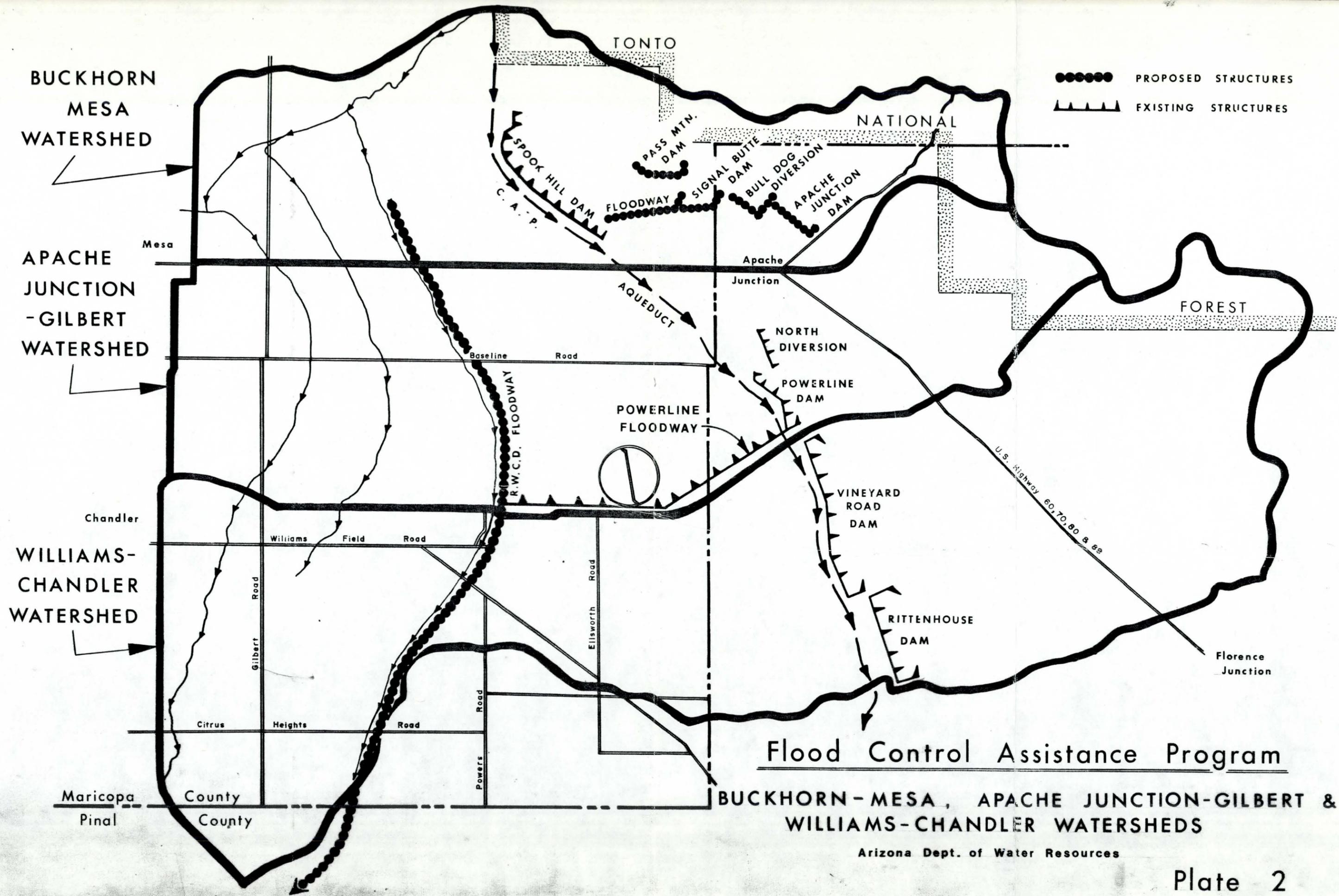
-  CHANNEL IMPROVEMENTS BY THE CORPS OF ENGINEERS
-  GREENBELT FLOODWAY TO BE MANAGED BY THE CITY OF SCOTTSDALE
-  COLLECTOR CHANNELS CORPS OF ENGINEERS



**Flood Control Assistance Program**

**INDIAN BEND WASH**

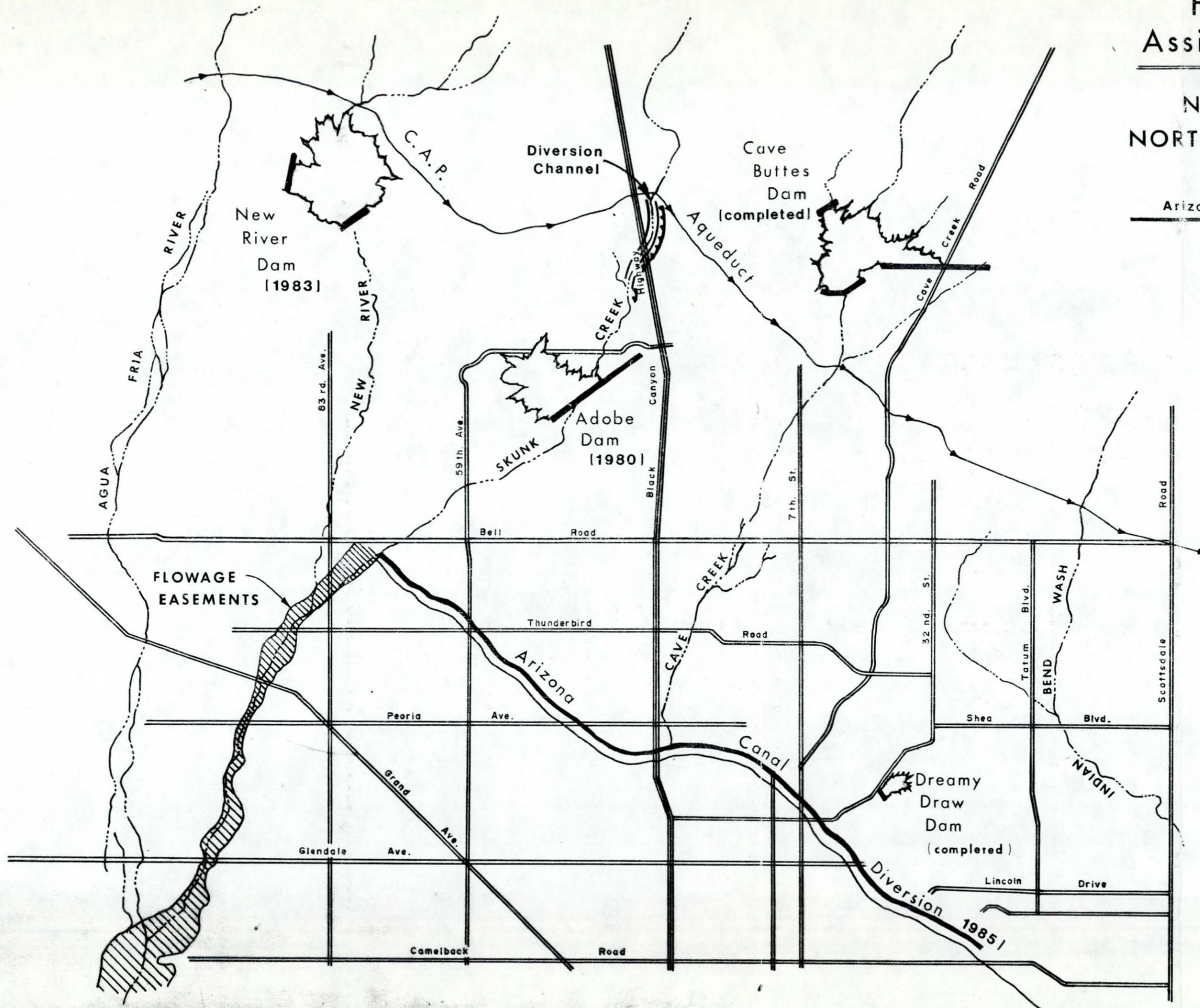
Arizona Dept. of Water Resources



# Flood Control Assistance Program

## NEW RIVER AND NORTH PHOENIX STREAMS PHASE B

Arizona Dept. of Water Resources



# Flood Control Assistance Program

## HARQUAHALA VALLEY WATERSHED

Arizona Dept. of Water Resources

