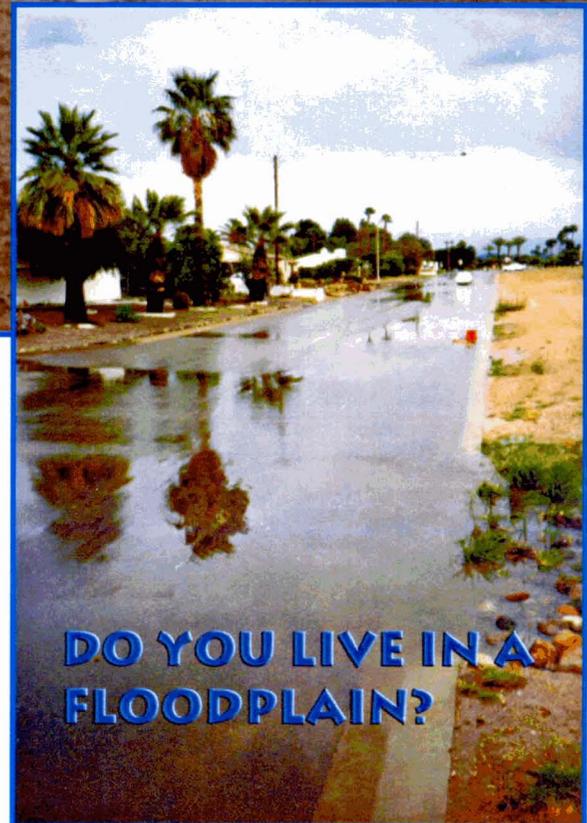
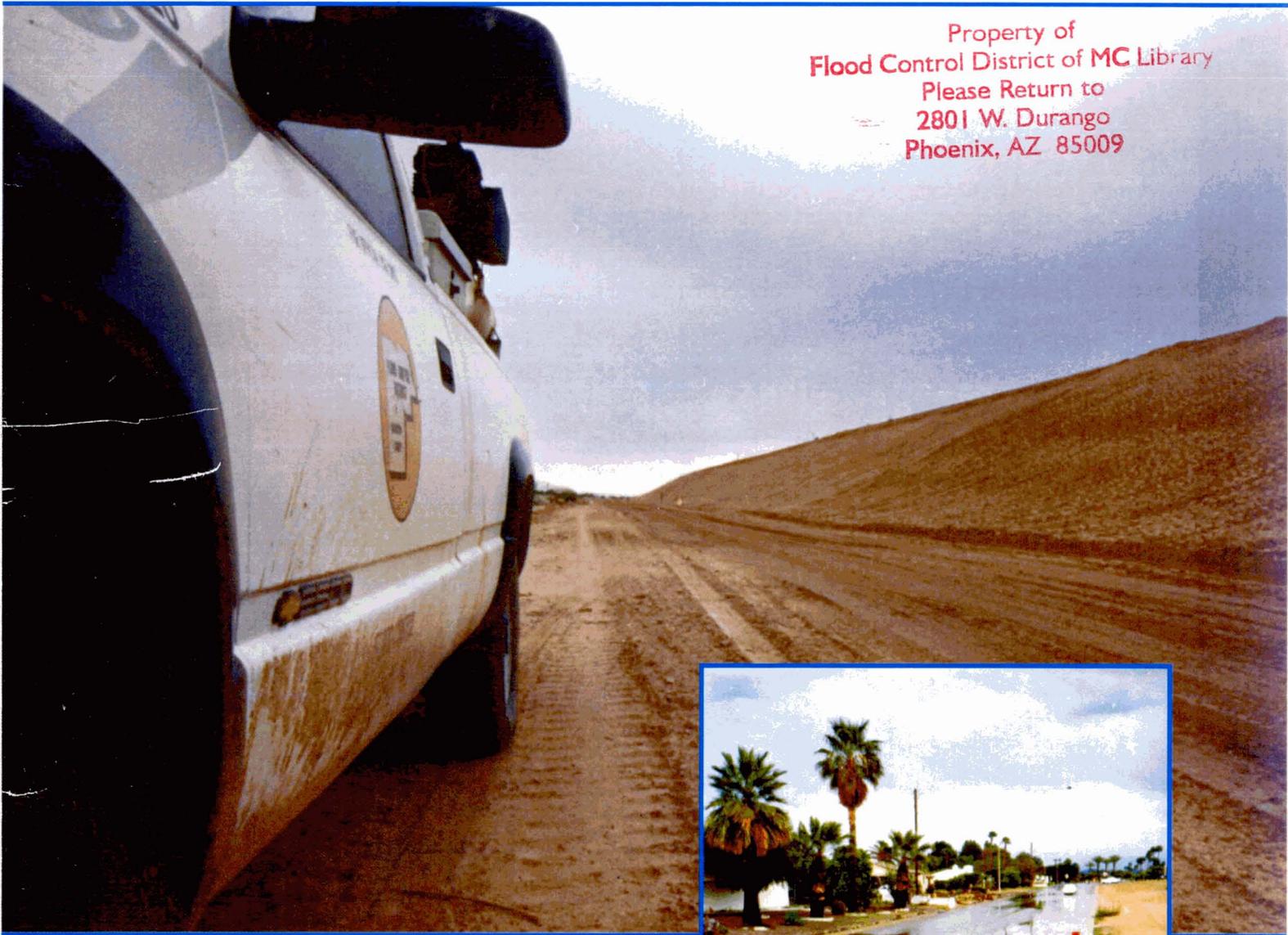


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**DO YOU LIVE IN A  
FLOODPLAIN?**

## **Flood Control District of Maricopa County**

003.123

**2000-2001 Annual Report**

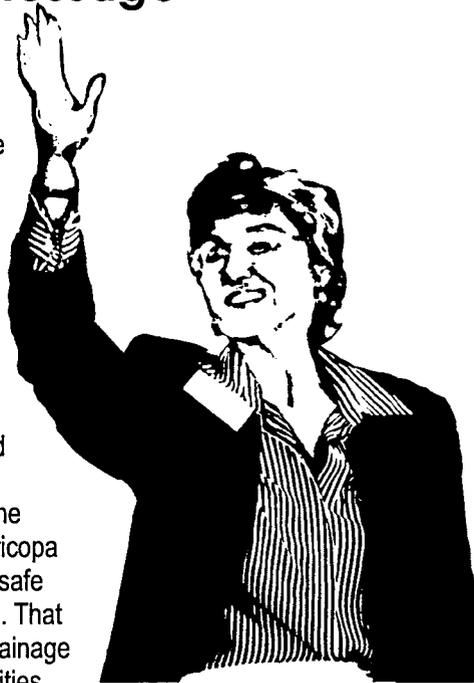


# *Flood Control District* of Maricopa County

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## **Chairman's Message**

Floods damage more homes across the country than fires, tornadoes and other natural disasters. Here in Maricopa County, where the sun shines more than 300 days a year, we may not see a need for flood control in our everyday lives, but during our winter storms and monsoon season, it becomes apparent that flood control is a life-saving necessity. The purpose of the Flood Control District of Maricopa County is to keep residents safe from the dangers of flooding. That means anticipating future drainage needs and constructing facilities that will accommodate them, supporting an ALERT system to let people know when the floodwaters are coming, and educating the public on how to stay safe during storms. The District does an excellent job of this.



**Janice Brewer, Chair  
District Four**

Perhaps one of the most exciting projects to come from the Flood Control District is the Agua Fria Watercourse Master Plan, otherwise known as part of the West Valley Recreation Corridor. This plan will document the flood safety needs of the Agua Fria River, and make recommendations for 42-miles of maintenance road recreational trails, basin parks and wildlife habitat locations. Residents are excited about this project and want to help bring it to reality.

To me, that is the pinnacle of good government - projects that not only accomplish their primary purpose, but also rally public support and allow for multiple uses. We will continue to do this kind of work in the future.

## **Table of Content**

**Chairman's Message**  
Page 1

**Flood Control District  
Board of Supervisors  
and Flood Control  
Advisory Board**  
Page 2

**Message from the  
Chief Engineer  
and General Manager**  
Page 3

**Community Rating System**  
Page 4

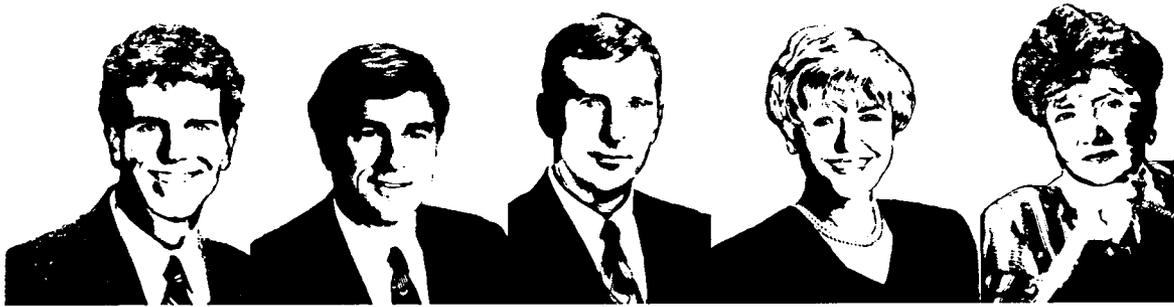
**Principal Staff**  
Page 5

**Planning Studies  
Operating Budget**  
Page 6

**Community Outreach**  
Page 7

**Financial Highlights**  
Page 8

# Board of Directors



Fulton Brock  
District One

Don Stapley  
District Two

Andrew Kunasek  
District Three

Janice Brewer  
District Four

Mary-Rose Wilcox  
District Five

The Flood Control District of Maricopa County was organized on August 3, 1959, pursuant to Arizona Revised Statutes. Our formation followed the passage in March, 1959, of legislation which empowered counties to set up special district for the purpose of providing flood control for metropolitan, urban, and agricultural areas in Maricopa County to prevent the flooding of property and the endangering of lives of people.

The Flood Control District is a municipal corporation and political subdivision of the State of Arizona. We are governed by a Board of Directors which is also the Board of supervisors of Maricopa County.



Mike Saager



Hemant Patel



Shirley Long

## Flood Control Advisory Board



Melvin Martin



Paul Cherringon



Thomas Callow

The Flood Control Advisory Board advises the Board of Directors on flood control, water conservation, floodplain management, drainage, and related matters. It reviews planning, operations and maintenance of flood control facilities, and recommends an annual budget to the Board of Directors.

Advisory Board members are appointed by the Board of Supervisors to a five year term.

## **Message from the Chief Engineer and General Manager**

The Year 2000 was extremely productive for the Flood Control District of Maricopa County. I can take great pride in the work that our employees contributed on a daily basis. We are not only undergoing extraordinary planning efforts to keep people out of harm's way, we are also helping them once they do get into trouble.

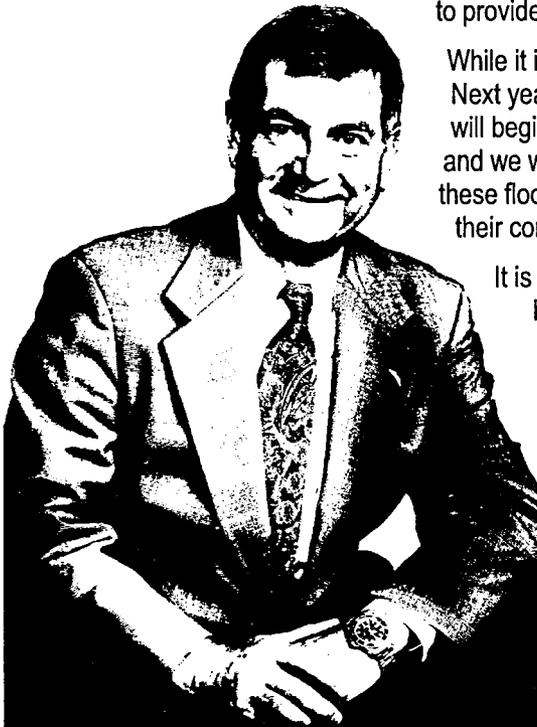
In October, the community of Aguila suffered devastating floods, showcasing to Arizona exactly how harmful our storms can be. The Federal Emergency Management Agency granted the District nearly \$1 million to purchase the homes of those hit hardest in this event. About a dozen homeowners will get fresh starts in safer areas. The homes they left behind will be demolished and the land will be returned to open space.

Our Regulatory Division started seven floodplain delineation studies, reviewed 261 floodplain use permits and processed about 11,000 other requests for information.

Our Dam Safety Program is implementing improvements to better inspect and monitor the District's 22 flood control dams. Our Structures Assessment Program is moving forward with identifying potential dam safety issues associated with some of our older structures and is working toward obtaining federal money to help us implement large scale projects to rehabilitate or replace the dams while maintaining the flood protection they provide.

The Planning Branch saw the completion of the East Maricopa Floodway study that not only showed East Valley communities the kinds of projects that need to be done to provide flood control, but also pointed out recreational opportunities.

About a dozen Area Drainage Master Plans and Watercourse Master Plans are in the works right now, including the Agua Fria Watercourse Master Plan, the Skunk Creek Watercourse Master Plan and the Glendale/Peoria Area Drainage Master Plan. Each of these will point out areas that need flood protection and suggest ways to provide that.



While it is good to look back, it is important to visualize the future. Next year we intend to start another six planning projects. We also will begin building the second leg of the Rio Salado low flow channel and we will finish the Southeast Regional Basin in Phoenix. Both of these flood solutions will result in significant recreational facilities for their communities while providing solid protection to residents.

It is my hope that we can continue on with the good work we have done in the past.

**Michael S. Ellegood, P.E.**

# Community Rating System

The Flood Control District's participation in the National Flood Insurance Program began in December 1970. The National Flood Insurance Program's (NFIP) Community Rating System (CRS) was implemented in 1990 as a program for recognizing and encouraging community floodplain management activities that exceed the minimum NFIP standards.

The Flood Control District is one of over 900 communities receiving flood insurance premium discounts based on their implementation of local mitigation, outreach, and educational activities. While premium discounts are one of the benefits of participation in CRS, This Program is focused on three main goals; (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance.

## ***Floodplain Management***

The Floodplain Management program involves delineation of 100-year floodplains in Maricopa county and the regulation of development within their boundaries. Enforcement involves on-site inspection of new construction and structural repairs to ensure compliance. The District's active floodplain management program is responsible for the current 20% reduction in flood insurance premiums in unincorporated areas of the county.

### ***Floodplain Management Activity***

7	Floodplain delineation studies were begun
4	Floodplain delineation studies were completed
261	Floodplain use permits/clearances were reviewed
3652	Phone requests for general information were handled
691	Walk-in customers were assisted
6492	Flood hazard information requests were handled
128	Flood hazard information notices were recorded

## ***Drainage Administration***

The Drainage Administration program involves the review and inspection of drainage facilities to ensure that development will not adversely affect neighboring properties. Drainage Administration coordinates closely with other agencies to ensure that new development does not increase runoff, divert flows or back water onto other properties. The district also investigates reports of flooding and possible flood hazards reported by citizens.

### ***Drainage Administration Activity***

13,832	Inspections conducted
161,131	Miles driven by inspectors
7,957	Drainage clearances issued
618	Total plan reviews completed
233	Drainage complaints investigated



## **Principal District staff**

**Michael S. Ellegood, P.E.**  
Chief Engineer and General Manager

**David A. Brozovsky**  
Flood Control Administrator

**Edward A. Raleigh, P.E.**  
Engineering Division Manager

**Thomas J. LaMarche**  
Information Technology Division Manager

**George D. Lindop**  
Operations and Maintenance Division Manager

**Thomas D. Johnson, P.E.**  
Planning and Project Management Division Manager

**James L. Schwartzmann**  
Public Works and Right-of-Way Land Division Manager

**Dave R. Johnson**  
Regulatory Division Manager



### **David R. Johnson** **Regulatory Division Manager**

Dave Johnson, the Flood Control District's Regulatory Division Manager retired this year, after diligently serving the citizens of Maricopa County for 27 years.

Dave joined the District staff in August 1974 as a junior Hydrologist. Five years (1979) later he was promoted to manage the Regulatory Division. Dave was responsible for Drainage Administration and Floodplain Management that encompassed a wide variety of mandated functions including Regulation Enforcement, Floodplain Use Inspection and Permitting, Development Review, and Floodplain Determinations.

There are numerous significant accomplishments that can be attributed to Dave's effective management of the Regulatory Division.

In February 1980, the Board of Supervisors/Directors transferred the floodplain management responsibility from the Maricopa County Department of Planning and Development to the Flood Control District. Since this time, Dave and his staff has tirelessly and effectively carried out this responsibility ensuring that the citizens of Maricopa County were protected from flood hazards.

In June 1984, shortly after the District assumed the role of Floodplain Administrator for Maricopa County, several other municipalities have requested that the District manage their floodplain efforts. To date, the District assumes floodplain management responsibilities for 13 municipalities in Maricopa County.

Dave worked closely with other County Department such as Planning and Development and the County Attorney's Office on drainage and floodplain issues. Throughout his career he developed and maintained effective working relationships not only with District and County staff, but also the development community, real estate community, as well as the public.



# Planning Studies - Operating Budget FY 2000-01

	2000/01 Sq. Mi.	Lin. Mi. A M	Year End Actual Spent FY 2000/01
<b>ADMP and WCMP Studies</b>			
Agua Fria River WCMP		35	\$1,794,960
Middle New River - 404 Permit			\$40,000
Skunk Creek WCMP		24.6	\$502,418
Upper Cave Creek WCMP		13.4	\$282,266
Gila Bend ADMS/ADMP	164		\$241,175
Scottsdale Road	10		\$106,978
Existing Structures Aesthetics Evaluation Project			\$138,179
Project management Plans - ADMS			\$124,311
<b>TOTAL PLANNING - OPERATING BUDGET?</b>			<b>\$3,230,287</b>

## Planning Studies - CIP Budget

Spook Hill Mapping			\$61,222
Spook Hill ADMS/ADMP Update	19		\$548,240
Glendale/Peoria ADMS/ADMP Mapping			\$43,237
Glendale/Peoria ADMS/ADMP Update	78		\$776,975
Queen Creek/Sanokai		27	\$99,110
EMF Capacity Mitigation and Multi-use			\$66,384
WhiteTanks ADMP Update & MC Loop 303 Master Plan	226		\$341,772
Laveen ADMP	16		\$436,156
Higley ADMP	75		\$199,629
Durango ADMS/ADMP	68		\$404,958
North Peoria ADMS/ADMP	80.3		\$590,246
Advanced Planning On-Call 1			\$205,244
Candidate Assessment Reports (CARs)			\$61,529
<b>TOTAL</b>			<b>\$3,834,701</b>
<b>TOTAL Planning - CIP and OPERATING</b>	<b>831.3</b>	<b>127</b>	<b>\$7,064,989</b>

## Mission

The mission of the Flood Control District of Maricopa County is to provide flood hazard identification, regulation, remediation, and education to the people in Maricopa County so that they can reduce their risks of injury, death, and property damage due to flooding while enjoying the natural and beneficial values served by floodplains.

## Vision

The vision of the Flood Control District of Maricopa County is that the people of Maricopa County and future generations will have the maximum amount of protection from the effects of flooding through fiscally responsible flood control actions and multiple-use facilities that complement or enhance the beauty of our desert environment.

## Pledge

The Flood Control District of Maricopa County pledges to be responsive to its clients in an efficient, effective, and fiscally responsible manner. We will show personal integrity and professionalism in all our actions, and display continuous improvement, innovative thinking, and technical expertise. We will be stewards of the environment and the public's trust, and we will be concerned about the effects of our actions on not only the current, but also future generations.

# Community Outreach

## Educating/communicating With The Residents Of Maricopa County

Our Public Information Office (PIO) is committed to educating the public about the dangers of flash flooding, providing information about the progress of studies, projects, and flood control structures in Maricopa County. The PIO is expanding the education program to include educating residents of Maricopa County about storm water quality.

The Flood Control District is continually focused on educating children about the dangers of playing in washes, channels, basins and other flood control facilities. The District's Educational Program for Maricopa County Schools has reached over 46 thousand students. Our Educational Program is presently part of the curriculum in 4 school districts and 32 schools in Maricopa County. Additionally, for the past four years, the District has participated in ValleyForward's Earthfest where more than 10 thousand students attend this all day event. The District also produces

Flood Safety warnings of flash flooding on radio traffic reports and public service announcements.

The District's Public Information Office has been responsible for producing over \$1,620,998.40 in advertising value which has a publicity value of \$3,499,364.30. The circulation impressions received through media coverage was 23,467,109.

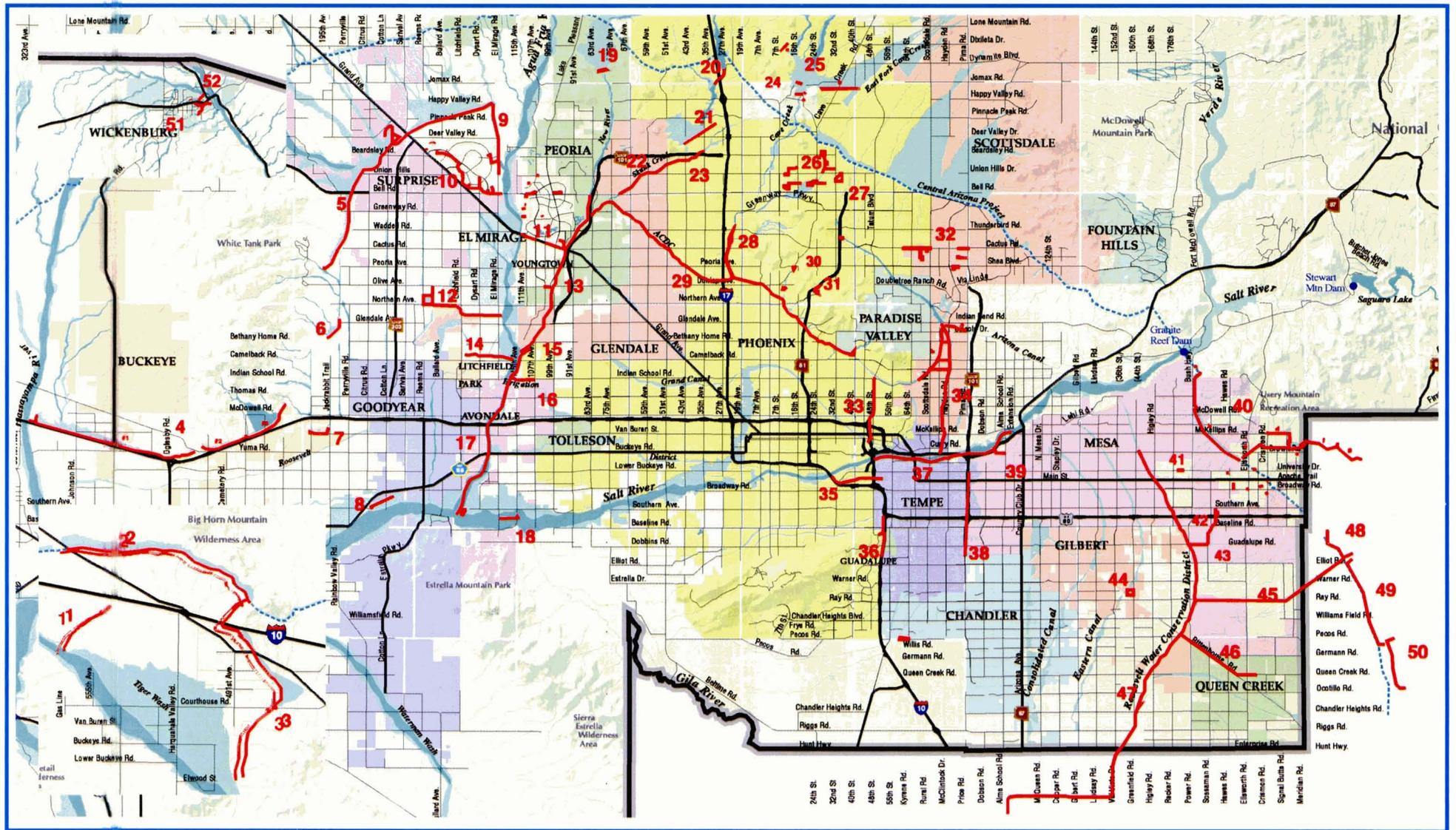
The Flood Control District's web site is highly regarded by other professional organizations, as well as highly respected by other Flood Control Agencies in the United States, and other national and international agencies. The web site is averaging about 2000 "hits" per day with 59.2% being visitors from the United States, and 40.8% being international visitors. The web site is inter-active and continues to build on the new technology that becomes available. In the future the District's web site will be adding video updates.



# Financial Highlights

Budget and Actual for the Fiscal Year Ended June 30, 2001  
Preliminary And Unaudited

	Budget	Actual	Variance Favorable (unfavorable)
<b>Revenue</b>			
Flood Control Tax	\$45,009,461.00	\$43,874,335.14	(\$1,135,125.86)
Local Participation	22,567,000.00	16,997,843.26	(5,569,156.74)
Licenses & Permits	1,131,963.00	1,182,821.00	50,858.00
Rental Income	193,219.00	229,903.52	36,684.52
Interest Income	2,000,000.00	1,394,129.67	(605,870.33)
Other Land Income	2,586,750.00	1,181,604.00	(1,405,146.00)
Miscellaneous	795,690.30	795,690.30	795,690.30
<b>Total Revenues</b>	<u>73,488,393.00</u>	<u>65,656,326.89</u>	<u>(7,832,066.11)</u>
<b>Operating Expenditures</b>			
Personnel Services	8,980,963.00	9,622,832.65	(641,869.65)
<b>Supplies And Services</b>			
Professional Services	5,994,200.00	6,886,601.66	(892,401.66)
Maintenance Supplies And Services	1,168,930.00	913,057.26	255,872.74
Internal Services	2,450,292.00	2,458,782.05	(8,490.05)
Education And Travel	177,171.00	168,923.79	8,247.21
Other Supplies And Services	1,080,839.00	1,082,055.10	(1,216.10)
<b>Total Operating Expenditures</b>	<u>19,852,395.00</u>	<u>21,132,252.51</u>	<u>(1,279,857.51)</u>
<b>Capital Outlay</b>			
Personnel Services	2,449,802.00	1,697,495.86	752,306.14
Real Estate	1,559,000.00	9,617,339.43	(8,058,339.43)
Engineering	7,784,000.00	6,576,615.35	1,207,384.65
Construction	56,137,000.00	38,941,567.02	17,195,432.98
Vehicles And Equipment	1,284,689.00	1,679,613.59	(394,924.59)
<b>Total Capital Outlay</b>	<u>69,214,491.00</u>	<u>58,512,631.25</u>	<u>10,701,859.75</u>
<b>Total Expenditures</b>	<u>89,066,886.00</u>	<u>79,644,883.76</u>	<u>9,422,002.24</u>
<b>Excess (deficiency) Of Revenues Over Expenditures</b>	(15,578,493.00)	(13,988,556.87)	(1,589,936.13)
<b>Fund Balance July 1, 2000</b>	<u>28,166,869.00</u>	<u>25,372,184.60</u>	<u>2,794,684.40</u>
<b>Fund Balance June 30 2001</b>	<u>\$12,588,376.00</u>	<u>\$11,383,627.73</u>	<u>\$1,204,748.27</u>



- |   |  |   |  |
|---|--|---|--|
| <ol style="list-style-type: none"> <li>1. Centennial Levee (1985)</li> <li>2. Harquahala FRS &amp; Floodway (1982)</li> <li>3. Saddleback FRS &amp; Diversion (1981)</li> <li>4. Buckeye FRS 1, 2, 3 (1975)</li> <li>5. McMicken Dam &amp; Outlet Channel (1956)</li> <li>6. White Tanks FRS 3 (1954)</li> <li>7. White Tanks FRS 4 (1954)</li> <li>8. Perryville Bank Stabilization (1984)</li> <li>9. El Mirage Drain (1990)</li> <li>10. Sun City West Drains (1990)</li> <li>11. Sun City Drain (1991)</li> <li>12. Dysart Drain (1996)</li> <li>13. New River Channelization (1993)</li> <li>14. Colter Channel</li> <li>15. Camelback Ranch Levee (1999)</li> <li>16. Indian School Rd Drain</li> </ol> | <ol style="list-style-type: none"> <li>17. Agua Fria Channelization (1988)</li> <li>18. Holly Levee &amp; Bank Stabilization (1984)</li> <li>19. New River Dam (1985)</li> <li>20. Skunk Creek Channel &amp; Levee</li> <li>21. Adobe Dam (1984)</li> <li>22. Skunk Creek Channelization (1991)</li> <li>23. Scatter Wash Channel (1995)</li> <li>24. Cave Creek Dam</li> <li>25. Cave Buttes Dam (1980)               <ol style="list-style-type: none"> <li>a. Dike #1</li> <li>b. Dike #2</li> <li>c. Dike #3</li> </ol> </li> <li>26. Upper East Fork Cave Creek (1996)</li> <li>27. Paradise Valley Detention Basin #4</li> <li>28. Cave Creek Channelization (1991)</li> <li>29. Arizona Canal Diversion Channel (1994)</li> </ol> | <ol style="list-style-type: none"> <li>30. 10th Street Wash Basins (1997)</li> <li>31. Dreamy Draw Dam (1973)</li> <li>32. PVSP Cactus Road Improvements (1991)</li> <li>33. Old Cross Cut Canal (1975, 1991)</li> <li>34. Indian Bend Wash (1985)               <ol style="list-style-type: none"> <li>a. Interceptor Channel</li> <li>b. Collector &amp; Side Channel</li> </ol> </li> <li>35. 48th Street Drain</li> <li>36. Guadalupe FRS (1975)</li> <li>37. Salt River Channel</li> <li>38. Price Drain (1997)</li> <li>39. Alma School Drain (1969)</li> <li>40. Buckhorn-Mesa Flood Retarding Structures               <ol style="list-style-type: none"> <li>a. Spook Hill Floodway (1980)</li> <li>b. Spook Hill FRS (1979)</li> <li>c. Signal Butte Floodway (1984)</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>d. Pass Mountain Diversion (1987)</li> <li>e. Signal Butte FRS (1987)</li> <li>f. Bulldog Floodway (1988)</li> <li>g. Apache Junction Dam &amp; Floodway (1988)</li> <li>41. University Drive Basin (1993)</li> <li>42. Sossaman Channel &amp; Basin (1977)</li> <li>43. Gilbert Crossroads Park Basin (1992)</li> <li>44. Guadalupe Channel (1989)</li> <li>45. Powerline Floodway (1968)</li> <li>46. Rittenhouse Road Channel (1998)</li> <li>47. East Maricopa Floodway (1989)</li> <li>48. Powerline Dam (1967)</li> <li>49. Vineyard Dam (1968)</li> <li>50. Rittenhouse Dam (1969)</li> <li>51. Sunset and Sunnycove Dams (1976)</li> <li>52. Casandro Wash Dam &amp; Outlet (1996)</li> </ol> |
|---|--|---|--|