

Flood Control District
of
Maricopa County



1997 - 1998
Annual Report

003.120



Message from the Chairman

During my tenure as Chairman, Maricopa County has continued to enjoy unprecedented growth and prosperity. This comes as no surprise to those of us who live, work and play here in the beautiful Sonoran Desert. What sometimes does come as a surprise is the fact that it does indeed flood, yes, even here in the desert. This, of course, leads to the need for flood control efforts to protect the safety and welfare of our residents. In Maricopa County we are excited to achieve our flood safety goals through innovative and fiscally responsible measures.

Some examples of our success include: the Old Crosscut Canal Project; the Indian Bend Wash; the Cave Creek/Apache Wash Watercourse Master Plan; the Middle New River Watercourse Master Plan; and, the Bullard Wash/Estrella Parkway Improvements Project.

To me, the bottom line is this, flood control need not consist of spartan concrete lined channels. Rather, flood control should blend in with and even enhance the surrounding environment. We live in one of the most beautiful places on earth and our aim is to preserve and protect it for future generations.

Our Board of Directors...

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2801 W. Durango
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Fulton Brock, District 1



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Mary Rose Wilcox,
District 5



Michael S. Ellegood, P.E.

Letter from the Chief Engineer and General Manager

Flood Control in the desert. To the casual observer our mission must appear to be relatively easy. In fact, minimizing the impacts of flooding on human safety and reducing the risks of flood loss is, in many ways, an even more daunting task because we are in the desert. There was a time when the inevitable solution to identified flood risks was the construction of yet another concrete lined channel. Today's flood control solutions include restoration and preservation of the natural and beneficial values served by floodplains. You might call it kinder and gentler flood control.

As I write this, rain is falling throughout Maricopa County. While we all know that is anything but an everyday occurrence here, it does happen and, when it does the results can be awesome. Consider the fact that Arizona, a landlocked state, has seen not one but two hurricanes impact us in the last thirty years. The point, of course, is that we can and must prepare - in advance - for flooding in our environment.

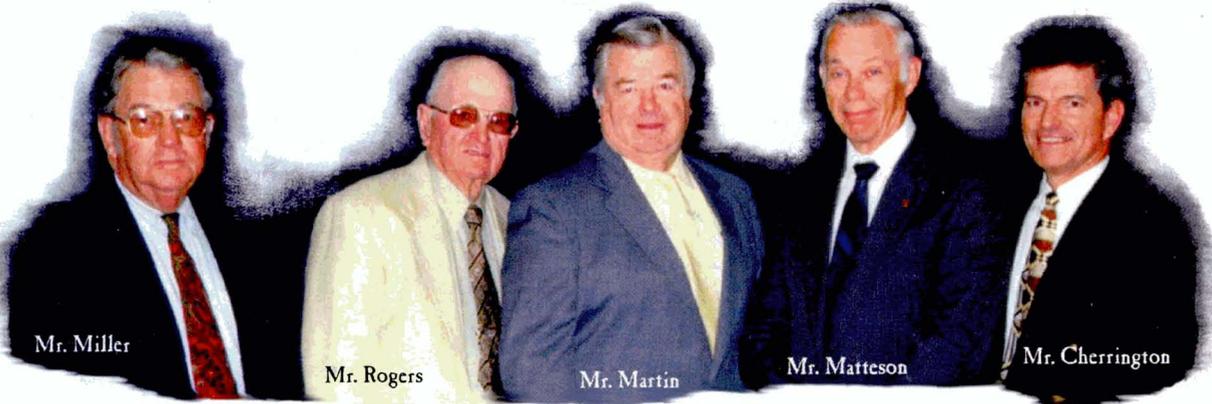
We have a number of alternatives to achieve our mission. Regulation of floodplains to prevent encroachment, and eliminate the need for the construction of flood control structures, is an appealing option because it maintains our natural environment. Channelization with an eye toward replacement of natural vegetation and the ability to accommodate recreational opportunities is another excellent solution. On occasion it may also be necessary to construct a more traditional concrete type flood control structure, but even these can be incorporated into their surroundings - perhaps by burying them underground, or making them more steep and narrow to allow for multi-use trails for hikers, bikers, joggers and equestrians.

The Flood Control District of Maricopa County has recognized, and embraces, the need to apply a much softer approach to accomplishing our mission whenever and wherever possible. We look forward to continuing to promote flood safety for the people of Maricopa County.

Our Advisory Board

- District 1
- District 2
- District 3
- District 4
- District 5
- City of Phoenix
- Salt River Project

- Gilbert Rogers
- John E. Miller, Jr., Chairman
- Hemant Patel (Not pictured)
- Russell G. Stevens (Not pictured)
- Melvin Martin
- James Matteson
- Paul Cherrington



Mr. Miller

Mr. Rogers

Mr. Martin

Mr. Matteson

Mr. Cherrington

About the Flood Control District

Mission

To reduce flood risks for the people of Maricopa County by providing comprehensive flood and stormwater management services. These activities are provided through regulatory activities, master planning, regional coordination, technical assistance and implementation and maintenance of non-structural and structural projects. Our clients include citizens, municipalities and other government agencies.

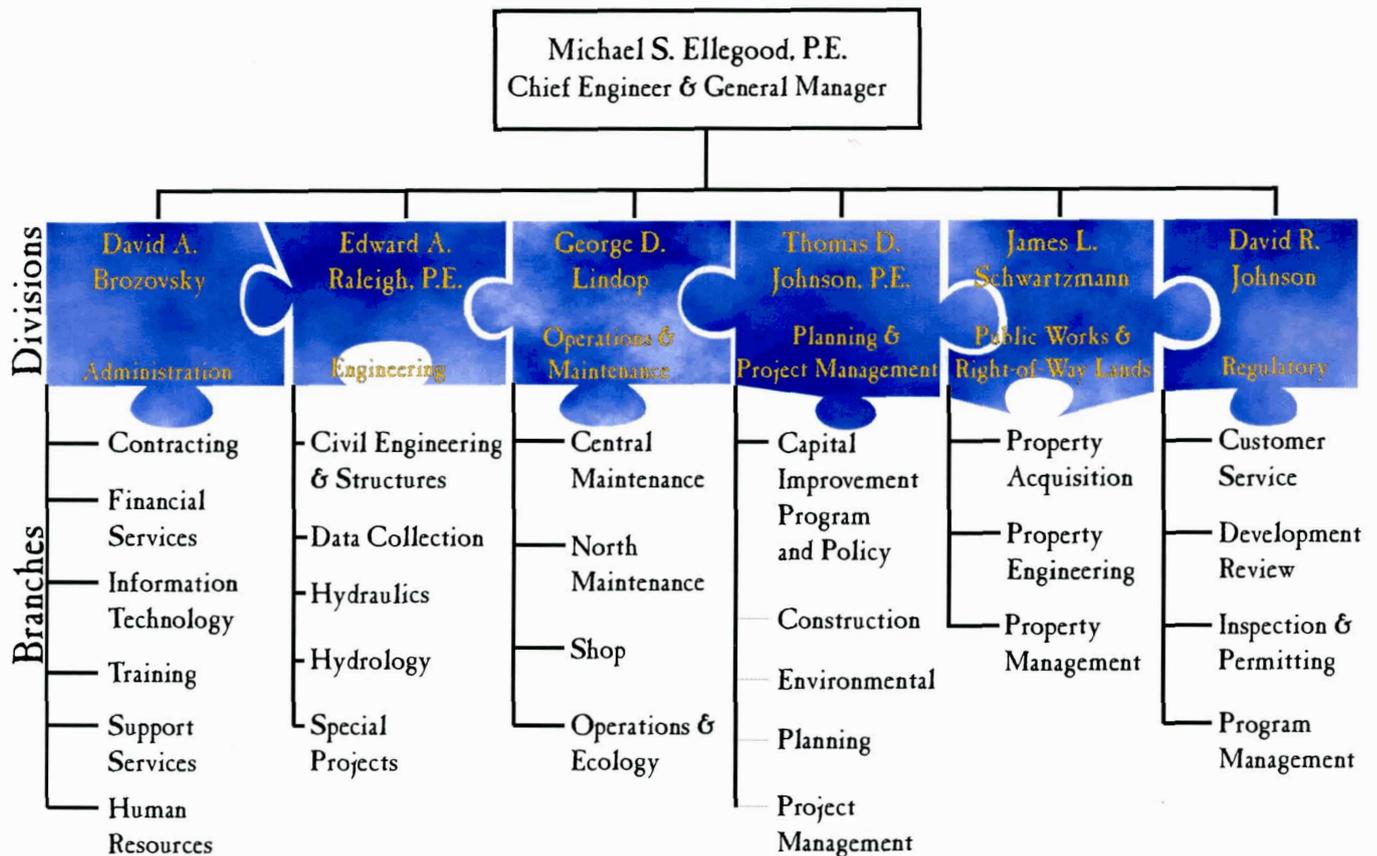
Vision

We will be known and supported by our customers and employees as the agency of choice for accomplishing our mission.

Values

The Flood Control District values are: fiscal stability, efficient management, appropriate organization size, technical proficiency, quality orientation, high ethics, visionary thinking, environmental responsibility, and aesthetic awareness

Organizational Chart



Eight Important Programs

The Flood Control District of Maricopa County administers eight programs as the centerpiece of its services for the people of Maricopa County, Arizona. These programs include:

Capital Improvement

All anticipated spending on capital projects for the next five years is identified in the Flood Control District's Capital Improvement Program (CIP). Accommodation of future growth via the development of new facilities as well as existing infrastructure modifications and replacement are addressed by the CIP. Construction timing and finance coordination for needed capital projects are addressed through the CIP on behalf of the Flood Control District and our client cities. For increased efficiency, two crucial elements make up the CIP; our Prioritization Procedures are an administrative process to identify and prioritize future capital projects and funding of those projects is provided for in the fiscal plan.

Budget and planning activities of the Flood Control District are linked by the CIP. Past policy direction is supported by the establishment of priorities between existing and competing projects while the merits of new proposals are also measured and evaluated.



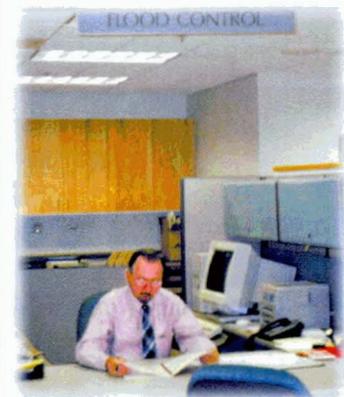
Drainage Administration

The Regulatory Division for the Flood Control District of Maricopa County is responsible for administration of County Drainage Regulations. The purpose of these regulations is the reduction of existing and potential flooding caused by local stormwater. The Flood Control District coordinates closely with other county agencies to insure that new development does not increase runoff, divert flows or back water onto other properties.

Environmental

As the stormwater management agency for the County, the Flood Control District offers guidance and assistance to municipalities from throughout Maricopa County. The District negotiates Intergovernmental Agreements to assist cities with stormwater quality monitoring in compliance with federal regulations. The Flood Control District working in concert with the Maricopa Association of Governments' Stormwater Task Force drafted a model Stormwater Ordinance that resulted in our agency's present role in this vital environmental issue.

The Environmental Branch oversees a compliance program consisting of stormwater quality monitoring and assistance with illicit discharge investigations for the cities of Glendale, Mesa, Phoenix, Scottsdale and Tempe. The District (with the assistance of the United States Geological Survey) currently maintains and operates a network of 17 monitoring stations. These are but a few of the environmental functions the Flood Control District pursues in order to insure compliance with all applicable Federal, State and County environmental rules and regulations.



Floodplain Management

As we attempt to move toward more non-structural approaches to flood control, floodplain management plays an increasingly important role in the successful accomplishment of our agency mission. Identification of areas susceptible to 100-year flooding [as defined by the Federal Emergency Management Agency (FEMA)], as well as review of permit applications for use of the floodplain, and identification of floodplain violations are just a few of the vital roles this branch of the Flood Control District fulfills. Whenever and wherever possible, this branch seeks flood insurance discounts for the people of Maricopa County by actively participating in FEMA's Community Rating System.

Working Together ...



Floodwarning and Data Collection

One of the valuable tools available to the Flood Control District is the Automated Local Evaluation in Real Time (ALERT) system. In addition to providing data for floodplain studies, watershed computer modeling and flood control structure designs, the ALERT system also provides information to the Maricopa County Departments of Emergency Management and Transportation for flood event planning, evacuations and road closures. The system also provides information that may be useful to the National Weather Service for the issuance of flood watches and warnings.

Maintenance

Countless basins, channels, culverts, levees, storm drains, washes and 22 dams are among the more than 70 flood control structures maintained by the District. Erosion control, fence, gate and sign installation, landscaping, road maintenance and vegetation control are several of the tasks performed by the maintenance branch. Another key responsibility is the monitoring of structures and provision of emergency services during flooding events.



Property Management

The Property Management Division actively participates in planning, design and construction projects on behalf of the Flood Control District by managing real property interests and preparing joint use agreements with our client cities and partnering agencies, among others. Leases, licenses for access and the sale of excess property at the conclusion of construction projects are also functions of the Property Management Division.

Planning



The Planning and Project Management Division of the Flood Control District supports our agency mission of, "...reducing flood risks for the people of Maricopa County." By using planning tools such as: Area Drainage Master Studies and Plans; the Comprehensive Flood Control Program Report; and Watercourse Master Plans, the District identifies regional flooding problems and develops alternative solutions. Key components of this process include environmental assessment and public involvement.

... Accomplishing Our Mission

In the Public Eye

Outreach Programs

The Flood Control District has begun an Outreach Program in an effort to broaden our contact with the people of Maricopa County. Currently we have widened our public exposure by participating in various Home Shows throughout the year, increasing flood safety awareness through education in Valley schools and including availability of floodplain information at Open House presentations. The new outreach program not only helps us broaden our public audience but enables us to receive a clearer view of how the public views us.

This past year, we have provided floodplain information through the following events:

Valley Home Improvement Shows and Garden Expos	1610 people
Education outreach presentations at Valley Schools	1890 students
April 22, 1998, Valley Forward Earthfest Day	6,000 students
Gateway Community College presentation	64 students
Open House Presentations	157 people



The Educational Outreach program helped to teach flood safety to Valley students.



Open House meetings were successful in reaching the communities and hearing their concerns.



Mike Ellegood participates in one of the Flood Safety presentations to local Boy Scout leaders.

Two of the Flood Control District's eight programs are our most visible to the public. They maintain our good relationship with walk-in requests for information, drainage complaints and performing inspections.

Drainage Administration

8803	Inspections conducted
146,133	Inspector's miles driven
3640	Drainage clearances issued
461	Total plan reviews completed
246	Drainage complaints investigated

Floodplain Management

3	Floodplain delineation studies were begun
7	Floodplain delineation studies were completed
159	Floodplain use permits/clearances were reviewed
1916	Phone requests for general information were handled
522	Walk-in customers were assisted
7522	Flood hazard information requests were handled
228	Flood hazard information notices were recorded

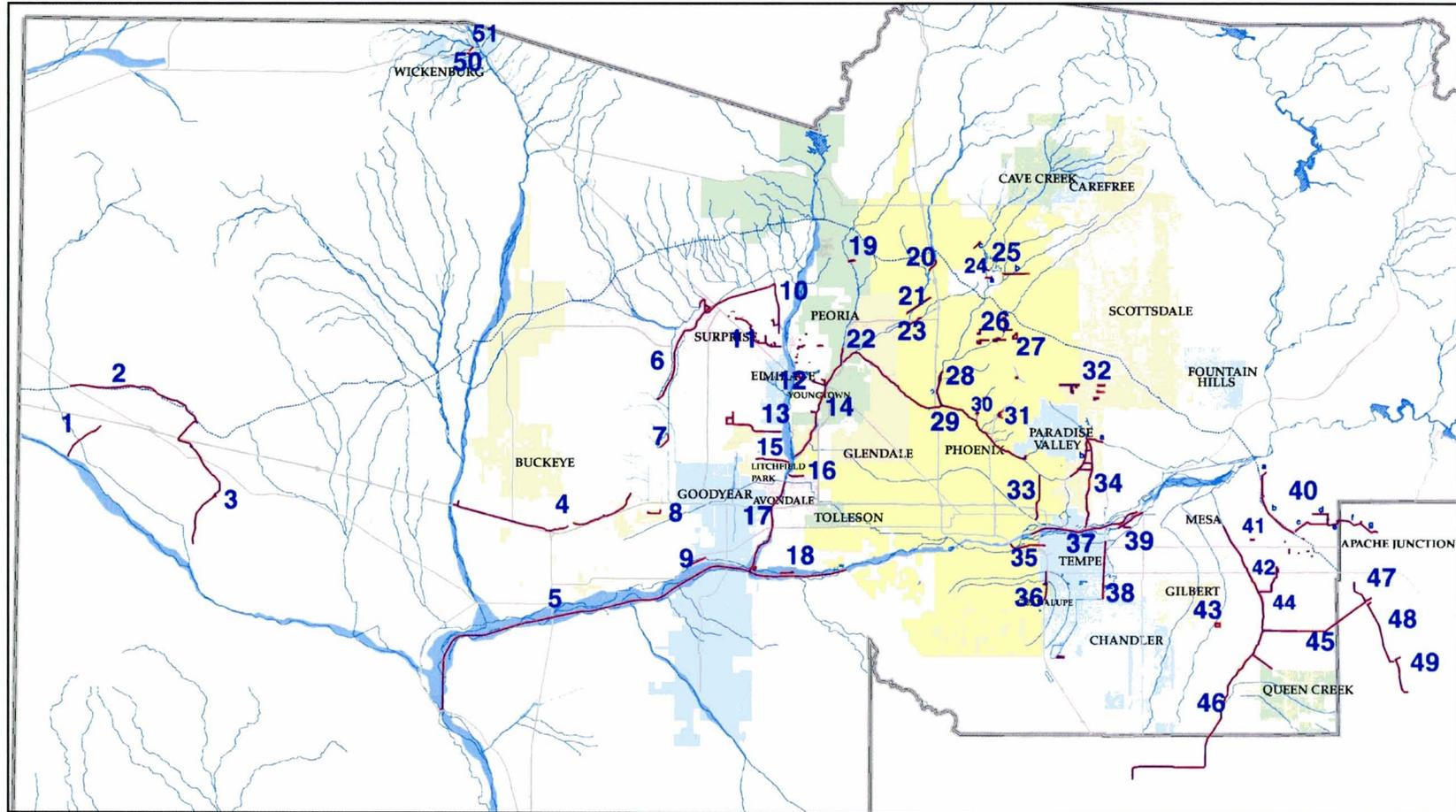
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Statement of Revenues, Expenditures, and Changes in Fund Balance

	BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
REVENUE			
FLOOD CONTROL TAX	\$43,433,386.00	\$42,928,954.43	(\$504,431.57)
LOCAL PARTICIPATION	3,683,000.00	3,806,793.43	123,793.43
RENTAL INCOME	281,335.00	276,479.08	(4,855.92)
INTEREST INCOME	500,000.00	1,915,627.65	1,415,627.65
OTHER LAND INCOME	4,248,750.00	9,731,924.55	5,483,174.55
MISCELLANEOUS	165,032.00	897,593.00	732,561.00
TOTAL REVENUES	52,311,503.00	59,557,372.14	7,245,869.14
OPERATING EXPENDITURES			
PERSONNEL SERVICES	8,035,346.00	7,863,473.09	171,872.91
SUPPLIES AND SERVICES			
PROFESSIONAL SERVICES	3,259,348.00	2,818,170.47	441,177.53
MAINTENANCE SUPPLIES AND SERVICES	1,761,862.00	1,193,495.80	568,366.20
INTERNAL SERVICES	2,607,663.00	2,359,960.59	247,702.41
EDUCATION AND TRAVEL	150,945.00	122,583.45	28,361.55
OTHER SUPPLIES AND SERVICES	848,420.00	500,569.82	347,850.18
TOTAL OPERATING EXPENDITURES	16,663,584.00	14,858,253.22	1,805,330.78
CAPITAL OUTLAY			
PERSONNEL SERVICES	1,776,911.00	1,311,754.63	465,156.37
REAL ESTATE	3,818,000.00	7,663,932.16	(3,845,932.16)
ENGINEERING	4,355,000.00	4,045,515.60	309,484.40
CONSTRUCTION	27,733,000.00	15,640,842.10	12,092,157.90
VEHICLES AND EQUIPMENT	1,026,410.00	623,299.76	403,110.24
TOTAL CAPITAL OUTLAY	38,709,321.00	29,285,344.25	9,423,976.75
TOTAL EXPENDITURES	55,372,905.00	44,143,597.47	11,229,307.53
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(3,061,402.00)	15,413,774.67	(18,475,176.67)
FUND BALANCE JULY 1, 1997	11,821,654.00	20,795,332.14	
FUND BALANCE JUNE 30, 1998	\$8,760,252.00	\$36,209,106.81	(\$18,475,176.67)

Budget and Actual for the Fiscal Year Ended June 30, 1998
Preliminary and Unaudited

Flood Control District of Maricopa County Structure Map



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|-----------------------------------|--------------------------------------|--|---|
| 1. Centennial Levee | 14. New River Channelization | 27. Paradise Valley Detention Basin #4 | 40. Buckhorn-Mesa Flood Retarding Strct |
| 2. Harquahala FRS & Floodway | 15. Colter Channel | 28. Cave Creek Channelization | 41. University Drive Basin |
| 3. Saddleback FRS & Diversion | 16. Indian School Rd Drain | 29. Arizona Canal Diversion Channel | 42. Sossaman Channel & Basin |
| 4. Buckeye FRS 1, 2, 3 | 17. Agua Fria Channelization | 30. 10th Street Wash Basins | 43. Gilbert Crossroads Park Basin |
| 5. Salt-Gila Clearing and Channel | 18. Holly Acres Levee & Bank Stabil. | 31. Dreamy Draw Dam | 44. Guadalupe Channel |
| 6. McMicken Dam & Outlet Channel | 19. New River Dam | 32. PVSP Cactus Road Improvements | 45. Powerline Floodway |
| 7. White Tanks FRS 3 | 20. Skunk Creek Channel & Levee | 33. Old Cross Cut Canal | 46. East Maricopa Floodway |
| 8. White Tanks FRS 4 | 21. Adobe Dam | 34. Indian Bend Wash | 47. Powerline Dam |
| 9. Perryville Bank Stabilization | 22. Skunk Creek Channelization | 35. 48th Street Drain | 48. Vineyard Dam |
| 10. El Mirage Drain | 23. Scatter Wash Channel | 36. Guadalupe FRS | 49. Rittenhouse Dam |
| 11. Sun City West Drains | 24. Cave Creek Dam | 37. Salt River Channel | 50. Sunset and Sunnycove Dams |
| 12. Sun City Drain | 25. Cave Buttes Dam | 38. Price Drain | 51. Casandro Wash Dam & Outlet |
| 13. Dysart Drain | 26. Upper East Fork Cave Creek | 39. Alma School Drain | |