

2013 Financial Highlights

Preliminary and Unaudited

Revenue Collection Status

	Full Year Revised Budget	Collections Full Year	Collections Remaining
Property Taxes	53,752,703	53,987,454	234,751
Licenses & Permits	166,400	302,209	135,809
Partnership Reimbursement	7,722,000	4,631,981	(3,090,019)
Payments in Lieu	131,500	201,357	69,857
Interest Earnings	300,000	316,660	16,660
Grant Funding	349,000	94,493	(254,507)
Miscellaneous Revenue	160,484	7,370,324	7,209,840
	<u>62,582,087</u>	<u>66,904,477</u>	<u>4,322,390</u>

Operating Budget - Financial Comparative

	Full Year		Funds Remaining
	Budget	Actual	
Net Payroll	16,431,230	14,826,623	(1,604,607)
Net Supplies	1,905,762	1,248,333	(657,429)
Net Services	34,335,461	30,416,155	(3,919,306)
Net Capital	663,312	830,429	167,117
Intergovernmental Payments			-
	<u>53,335,765</u>	<u>47,321,541</u>	<u>(6,014,224)</u>

Grants

Services	349,000	265,552	(83,448)
	<u>349,000</u>	<u>265,552</u>	<u>(83,448)</u>

Capital Improvement Program

	Full Year		Funds Remaining
	Budget	Actual	
Force Account Payroll	2,400,000	2,232,593	(167,407)
Land Acquisition	4,264,000	6,330,255	2,066,255
Design	5,322,000	3,892,862	(1,429,138)
Construction	38,014,000	34,496,111	(3,517,889)
	<u>50,000,000</u>	<u>46,951,820</u>	<u>(3,048,180)</u>

Fund Balance Reserves

	Operating	CIP	Total Reserve
Beginning Fund Balance	60,269,893	34,486,215	94,756,108
Total Revenue Collected	62,262,496	4,641,981	66,904,477
Less Expenses	(47,587,093)	(46,951,820)	(94,538,913)
Inventory	(38,358)		
Transfer Out/In	(34,817,699)	34,817,699	-
	<u>40,089,239</u>	<u>26,994,075</u>	<u>67,121,672</u>



Annual Report

Fiscal Year 2012-2013

Project Highlight:

White Tanks FRS No. 3 Outfall Channel

In 1954, the Soil Conservation Service, now the Natural Resources Conservation Service (NRCS), constructed the White Tanks Flood Retarding Structure No. 3 (White Tanks FRS No. 3) flood control dam to protect primarily agricultural property from flooding. To ensure that White Tanks FRS No. 3 is able to protect significant agricultural, and now residential, property in the west valley in the long-term, the Flood Control District of Maricopa County and NRCS completed an overall rehabilitation of the dam in 2011. The White Tanks FRS No. 3 Outfall Channel Project phase allows White Tanks FRS No. 3 to be safely drained after detaining storm water flows from its 20 square mile watershed.

Previously, the White Tanks FRS No. 3 principal spillway directed flows to the proximity of the Beardsley Canal and then south and east. With the completion of the District's White Tanks FRS No. 3 Outfall Channel Project, the outlet now directs outflows away from Beardsley Canal and toward the Jackrabbit Trail, then south on the west or east side, eventually discharging into White Tanks FRS No. 4. The White Tanks FRS No. 3 Outfall Channel now provides a conveyance for tributary areas west of Jackrabbit Trail thus reducing flooding to agricultural property, residences and businesses in the area.



Board of Directors

Per Arizona Revised Statute 48-3602, the Flood Control District is governed by a five-member Board of Directors that also serves as the Board of Supervisors for Maricopa County. The Board of Directors exercises all the powers and duties as ordinarily exercised by governing bodies in the acquisition and operation of property, contracting, and the regulatory functions. Board members elect a new chairman each year:

- Andrew Kunasek, Chairman, District 3
- Denny Barney, Vice Chairman, District 1
- Steve Chucru, District 2
- Max Wilson, District 4 (resigned)
- Clint Hickman, District 4
- Mary Rose Wilcox, District 5

Flood Control Advisory Board

The Flood Control Advisory Board (FCAB) advises to the Board of Directors on flood control, floodplain management, drainage and related matters. The FCAB reviews the District's planning studies, projects and operations/maintenance activities, and recommends to the Board of Directors an annual budget, including the five-year Capital Improvement Program (CIP).

The FCAB consists of seven members. Five of the seven members are appointed by the Board of Directors for five-year terms. The final two members are ex officio representatives from the Salt River Project and the City of Phoenix. FCAB members also serve the District as members of the Floodplain Review Board and Board of Hearing Review.

- Melvin Martin, Chairman
- Hemant Patel, Vice Chairman
- Dallas Tanner, Secretary
- Scott Ward
- DeWayne Justice
- Ray Dovalina, Ex Officio
- Bob Larchick, Ex Officio

Engineering

The Engineering Division is responsible for technical support for all District activities, with main emphasis and expertise in hydrology, hydraulics, sediment transport and scour.

Summary of Fiscal Year-end Activity

Water Quality

- Phase II Maricopa County Stormwater Permit 6 minim control measures support
- Presentation at MS4 Stormwater Summit
- Drainage Design Manual Erosion control adopted
- Mapping project for support of the County's Stormwater permit

Engineering Applications and River Mechanics

- Wrote River Mechanics Manual for Drainage Design Manual System for Windows (DDMSW) software
- Held 10 one-day DDMSW training sessions for Hydrology and River Mechanics for about 200 people (staff from Maricopa County Planning and Development (P&D)/Maricopa County Department of Transportation (MCDOT)/Flood, local engineering firms, National Resources Conservation Service (NRCS), AZ Water Resources Department/Dam Safety, State Land, Arizona Department of Transportation (ADOT), City of Phoenix, City of Scottsdale, City of Mesa, and other cities).
- Held four two-day FLO-2D training sessions for about 80 people (staff from Maricopa County P&D/MCDOT/Flood, local engineering firms, NRCS, AZ Water Resources Department/Dam Safety, State Land, ADOT, City of Phoenix, City of Scottsdale, City of Mesa, and other cities).
- Developed six engineering software for hydrology, hydraulics, river mechanics, and GIS.
- Performed more than 100 technical reviews for river mechanics related to CIP projects, area drainage master studies (ADMS), area drainage master plans (ADMP), watercourse master plans (WCMP), right-a-way permits, floodplain use permits, and sand and gravel permits.

Mapping and Surveying

- Aerial mapping completed for floodplain, three projects: 18 square miles
- Aerial mapping completed for design/ construction, two projects 17.2 square miles
- Completed eight dam settlement surveys
- Completed one dam boundary survey

Floodplain Delineations

- Completed 110 miles of delineation, including Wickenburg Phase II, Wittmann Phase V, Rainbow Valley ADMP Detailed, Tres Rios letter of map revision (LOMR), Sonoqui Phase II LOMR and BHOC LOMR, and complete topographic mapping for the Lower Salt. Additionally, work has continued for the past three years on the \$1.2 million FEMA grant to update 99 FIRM panels known as the PMR.

Flood Warning

- Installed two new Automated Local Evaluation in Real Time (ALERT) Stations
- Made 1,123 ALERT station repair and maintenance visits
- Developed program to calculate air parcel attributes and rainfall estimates



26 incorporated communities: Buckeye, Carefree, Cave Creek, Chandler, El Mirage, Gila Bend, Guadalupe, Litchfield Park, Mesa, Queen Creek, Surprise, Tolleson, and Youngtown.

FMS is comprised of five elements: general administration, customer service, technical review, regulatory compliance, and mitigation planning and technical programs.

Regulatory functions include: floodplain management; technical and community assistance; floodplain use permits; and inspection and enforcement of development.

FMS continually conducts public outreach by providing general floodplain and flood insurance information, publications, informational brochures, technical support, and floodplain map information. Community outreach opportunities also include participation in the National Flood Insurance Community Rating System Program, which offers financial and educational benefits to the citizens of Maricopa County. Staff is responsible for keeping the County in good standing with the National Flood Insurance Program (NFIP), and for maintaining eligibility in the NFIP to include data collection and reporting to maintain the Community Rating System Class ranking.

Summary of Fiscal Year Activity

- Average score for Customer Satisfaction Survey: 99.1% from 206 responses (double the responses from last year)
- 4,003 customer information interactions (increase of over 1,000 from FY 12) from: mail, telephone, fax, determinations, emails, on-line questions, including 461 walk-ins
- New unincorporated county and community Floodplain Use Permit numbers issued during fiscal year: 362 (annual average for normal permitting activity is 400 per year), with 96% of permit reviews completed within three (3) months of submittal, including all FEMA map change requests; collected ~\$100,000 in fees, ~\$30 million in increased property value
- Inspection and Enforcement: 690 inspections performed for unincorporated county Floodplain Use Permits, with 100% of the inspections being conducted within one business day of the request; 65 floodplain inquiry cases were opened, with 33 of them having been completed/closed. Recorded notices on property have lowered the violation cases and resulted in compliance without going through a costly hearing officer process.
- Entitlement case responses (pre-application, zoning, amendments, etc.): over 570 cases reviewed and memorandums issued to Planning and Development and communities.
- Staff is successfully meeting new state statute time frames for permit turnaround. The regulatory outreach website information was posted for easier customer access to the regulation process.
- Additional Phases of the Floodplain Management System (FMS) Permit and Activity Log database were completed.
- Sections 1-3 of the FMS Division Resource Manual, a guide to our business practices and procedures, were completed.
- The District, on behalf of Maricopa County, maintains a Class 4 in the Community Rating System (CRS) Program granted May 1, 2012 and is rated by FEMA's CRS as one of the top 11 programs in the nation for comprehensive floodplain management and undertaking actions to reduce flood damages. Because of this, individual flood insurance policy holders in unincorporated Maricopa County receive up to a 30% discount on their flood insurance, which results in a cumulative annual savings of over \$357,000.



- Completed three annual data reports, one storm report, and one MSP verification report
- Updated ALERT & Air Quality Data Display Maps for Google Maps version three; developed mobile version
- Completed Bullard Wash Flood Response Plan Update

Civil/Structures

- EMF Floodway Low Flow Channel: Plans for the channel segment between Chandler Heights Road and Germann Road are 80% complete. Plans for the channel segment between Germann Road and Williams Field Road are 95% complete and we have added a meander to the Low Flow Channel. Plans for the channel segment between Chandler Heights Road and Hunt Highway are 40% complete. We are evaluating the effects of long-term subsidence in the area. Plans for a test section that will begin at the upstream end of the Germann Road drop structure that will extend upstream approximately 1,000 feet are 99% complete.
- O&M water line near Cave Buttes Dam: In-house design and construction documents were completed and construction of the waterline is complete.
- ACDC inspection and repair recommendations: We have completed inspecting the ACDC with O&M staff to identify any repair needs. A report with repair recommendations is complete. We are working with O&M on some additional repairs.
- Agua Fria River Levee inspection and repair recommendations: The Corp of Engineers identified repair needs for the project and the plans for these repairs have been approved by the Corp. The construction contract has been awarded and construction should be complete this fiscal year. A report identifying our recommendations for additional repairs is being prepared.
- Cave Buttes Access Road: Plans are complete to armor an all-weather access road for operations and maintenance. The construction contract has been awarded and construction should be complete this fiscal year.
- 107th Avenue and Union Hills Road: Conceptual plans and cost estimates have been completed for several alternatives and are being reviewed by District staff as well as the Cities of Surprise and Peoria. A report has been prepared for several alternatives including a recommended plan.



Planning and Project Management

The District's Capital Improvement Program Adopted Budget for Fiscal Year 2013 was \$50.0 million. The District expended \$46.9 million (or 93.8% of the budget) in advancing its Capital Improvement Program. Construction costs totaled \$34.5 million; rights-of-way, \$6.3 million; design, \$3.9 million; and internal labor, \$2.2 million.

Construction projects completed or substantially completed included:

- White Tanks FRS No.3 Outfall Channel, in partnership with the Town of Buckeye
- Lafayette Blvd. Interceptor Drain and Outlet, in partnership with the City of Phoenix
- Cave Buttes Dam Waterline Relocation
- Cave Buttes Dam Maintenance Access Road Improvements
- Agua Fria River Maintenance Access Road Improvements
- Beardsley Road & 55th Avenue Drainage Improvements, in partnership with the City of Glendale
- Gilbert Road & Decatur Drainage Improvements, in partnership with the City of Mesa



- Circle K Park Drainage Improvements, in partnership with the City of Phoenix
- 22nd Street & Southern Avenue Storm Drain, in partnership with the City of Phoenix
- 16th Drive and Bell Road Storm Drain, in partnership with the City of Phoenix
- Crittenden Lane–45th Avenue to 51st Avenue Storm Drain, in partnership with the City of Phoenix
- Montebello Avenue–12th Street to 15th Street Storm Drain, in partnership with the City of Phoenix
- Arizona Traditions Outfall Channel Improvements, in partnership with the City of Surprise

The District and its project partners achieved design completion on:

- 27th Avenue & South Mountain Avenue Basin;
- 43rd Avenue & Baseline Road Basin;
- Oak Street Detention Basin and Storm Drain;
- Lower El Mirage Wash Basin; and
- Loop 303 Outfall Channel.

Ongoing dam safety planning and design work was associated with White Tanks Flood Retarding Structure (FRS) No.4, Powerline FRS, Vineyard Road FRS, Rittenhouse FRS, Buckeye FRS No.1, Saddleback FRS, McMicken Dam and Cave Buttes Dam.

Substantial planning studies in progress included the Pinnacle Peak West Area Drainage Master Study (ADMS), the Pinnacle Peak South ADMS, the Gillespie ADMS, the Wickenburg Area Drainage Master Plan (ADMP), the East Mesa ADMP Update, the Peoria ADMP, the Hohokam ADMP, the Tempe ADMS, the Lower Hassayampa Water Course Master Plan, the San Tan Watershed ADMS, the Gila Bend ADMP, and the Lower Indian Bend Wash ADMS as well as several mapping efforts.

Operations and Maintenance

The Operations and Maintenance (O&M) Division maintains dams, levees, floodways and basins. Over the past ten years our maintenance practices and training have focused on dams. This year the District has concentrated additional resources to levee maintenance. In addition to regular maintenance and repairs of levees, larger repairs were made to the Agua Fria Levee utilizing a job order contractor. All weather access on the downstream side of Cave Buttes Dam to 7th Street provides access during flood events. A water line was installed at Cave Buttes Dam to allow maintenance crews access to water to manage fugitive dust. The division continued material stock piling of materials for flood fighting emergencies.

O&M celebrated the retirement of four senior employees this year. Division leadership anticipated these retirements and proactively implemented a training program. The program includes leadership training as well as technical training. Many employees participated in the training to increase their technical and leadership knowledge. The loss of institutional knowledge and leadership that the retired employees possessed will be missed but we look forward to new ideas and innovation from our upcoming leaders.

Floodplain Management Services

The Floodplain Management and Services (FMS) Division assists the District in implementation of its four strategic programs: public outreach, identification, regulation, and remediation. The District conducts floodplain management for the unincorporated areas of Maricopa County and 13 of the

