REGIONAL FLOOD CONTROL DISTRICT
ANNUAL REPORT
2007 • 08

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Valley of Fire

DISTRICT MESSAGE

The 2007-08 year brought considerable progress regarding regional drainage improvements. The District funded construction of 11 new projects for a total of almost $50 million. Another nine projects were constructed by private developers or other agencies that totaled approximately $42 million. Currently there are 76 detention basins and more than 470 miles of channel and underground storm drain protecting Southern Nevada residents and visitors. As of October 2008, another 24 projects are in construction totaling approximately $150 million. Most of those projects should wrap up in late 2009.

The $336 million Tropicana and Flamingo Washes Project was substantially complete at the end of last summer. This project, in cooperation with the U.S. Army Corps of Engineers, was a 20-year partnership in which the Federal Government funded 75 percent of the project costs, saving taxpayers more than $252 million. Our Nevada Delegation is to be commended for working to secure those federal dollars for Southern Nevada's flood protection.

The District is also working with the Delegation to release federal land in an Instant Wilderness Study Area so that a detention basin and drainage dike can be built. The land, in northeast Las Vegas at the base of Sunrise Mountain, is needed to allow the Orchards Detention Basin to move forward. Legislation has been passed in the House and is awaiting approval in the Senate.

Environmental issues continue to be a top priority for the District. Both our mission and vision have been expanded to include that focus. Various community agencies concerned about water quality and quantity have joined to take part in the Las Vegas Valley Watershed Advisory Committee. This group is bringing a coordinated focus to preserving, protecting and enhancing water resources in the Las Vegas Valley watershed to sustain economic wellbeing and protect the environment for present and future generations.

Another area where the communities are being enhanced is the dual use of flood control detention basins and channels. While the Regional Flood Control District does not fund recreational amenities, we do work with our member agencies during the design of a project to accommodate recreation. This year several detention basins and areas alongside the top of drainage channels were modified to include trail systems, basketball courts, baseball fields and playgrounds. Multipurpose flood control facilities are an efficient use of taxpayer dollars allowing for flood protection and when dry, places to play and recreate.

We also continue to expand our public outreach programs to remind residents about the dangers of flash flooding. While a lot of progress has been made with drainage improvements, the District anticipates another 30 years before all projects are complete.

It is through our numerous partnerships, both public and private, that we can achieve our goals. This could not have been done without the regional perspective and support of the Board of Directors, the District's highly qualified staff, the entities and their Public Works Departments throughout Clark County, and the Nevada Delegation.

Clark County Commissioner Bruce Woodbury is also to be credited with the success of the Regional Flood Control District. In the early 1980s, he was the driving force in the creation of the District and fought to establish a stable funding source for future construction. He has been a member of our Board of Directors since our beginning in 1985. Due to term limits, this is the last year he will officially be a representative on our Board. We want to thank Commissioner Woodbury for his vision and determination to protect Southern Nevada residents from the devastation of floods. His tireless service and regional perspective are a large part of the success we've achieved in the past 28 years. We thank him for his support and dedication to our mission.

Lawrence L. Brown III
Chairman
City of Las Vegas Councilman

Gale Wm. Fraser, II, PE
General Manager / Chief Engineer

RFCD Chairman Larry Brown at the 2008 Flood Safety News Conference.

BOARD OF DIRECTORS

AS OF JUNE 2008

The Clark County Regional Flood Control District is governed by a Board of Directors consisting of eight members. The Board serves as a policy-making body and employs a General Manager/Chief Engineer to serve as executive officer.

Lawrence L. Brown III
Chairman
Councilman, City of Las Vegas

Chip Maxfield
Vice-Chairman
Commissioner, Clark County

David Bennett
Councilman
City of Mesquite

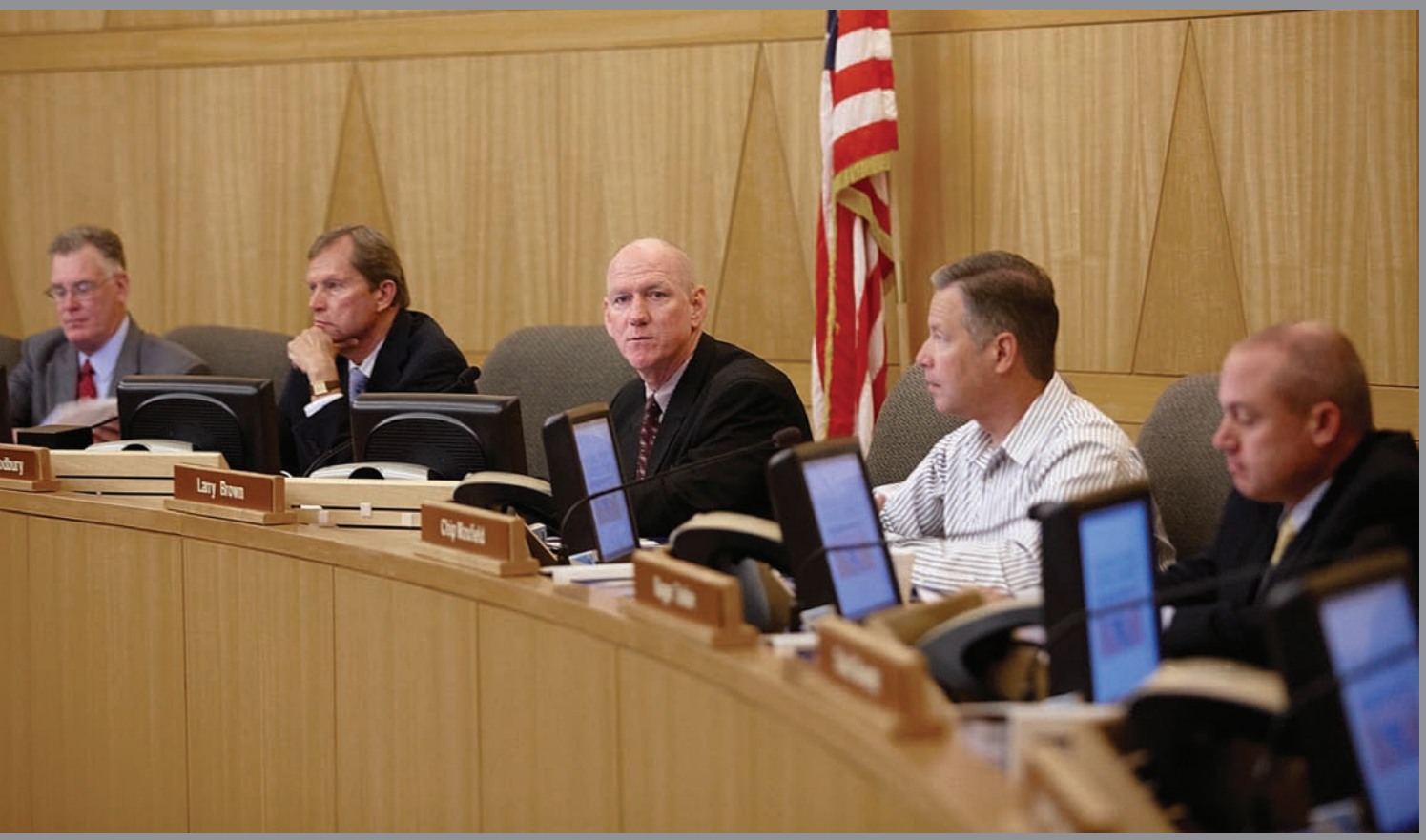
Robert Eliason
Councilman
City of North Las Vegas

Oscar Goodman
Mayor
City of Las Vegas

Andy Hafen
Councilman
City of Henderson

Roger Tobler
Mayor
City of Boulder City

Bruce L. Woodbury
Commissioner
Clark County



Sloan Channel

AUTHORITY OF THE DISTRICT

The Nevada Legislature authorized the creation of the District in 1985 to develop a coordinated and comprehensive Master Plan to solve flooding problems, to regulate land use in flood hazard areas, to fund and coordinate the construction of flood control facilities and to develop and contribute to the funding of a maintenance program for Master Plan flood control facilities. The District also provides public education regarding flood dangers and monitors rainfall and flow data during storms, disseminating information to appropriate public works and safety crews. The service area for the District includes Clark County and the incorporated areas of Boulder City, Henderson, Las Vegas, Mesquite and North Las Vegas.

The District is governed by a Board of Directors comprised of the same membership as the Regional Transportation Commission, except that each board/commission elects its own officers. The Board includes two representatives from both Clark County and the City of Las Vegas and one representative from Boulder City, Henderson, Mesquite and North Las Vegas. Public meetings are generally held on the second Thursday of the month, at which time the Board acts on policy and other flood control matters.

The Board annually elects a chairman and a vice-chairman from among its members. The General Manager/Chief Engineer is responsible for surveying, investigating, reporting and estimating the extent of flood control problems and for presenting flood control recommendations to the Board.

The Regional Flood Control District is a distinct local governmental agency. The District contracts with Clark County for various legal and administrative services provided by departments such as the Comptroller, District Attorney, General Services, Human Resources, Information Systems and Treasurer.

CITIZENS' ADVISORY COMMITTEE

The Citizens' Advisory Committee (CAC) is comprised of one citizen appointed by each city council and county commission included in the District and one citizen appointed by each Board Member. The CAC was created to represent public interest and to advise the Board on various matters.

MEMBERS OF THE CAC (June 2008)

Boulder City
Jim Beneda
Tim Clifford

Clark County
MJ Harvey, Chairman
Jack Hurley
Ronald Newell

Henderson
Larry Nelson, Vice-Chairman
Calvin Black

Las Vegas
Abe Mayhan
Terrence P. Kane
Dr. Linda Young

Mesquite
Travis Anderson
Barry Hutchings

North Las Vegas
Nelson Stone
Brian Hout

In the past year, CAC member Gary Spinkelink passed away. He served on the CAC from 2004 to 2008.

TECHNICAL ADVISORY COMMITTEE

The Regional Flood Control District Board is advised on technical matters by a Technical Advisory Committee (TAC), the representation of which mirrors that of the Board of Directors. The current members include local public works directors, city engineers or planning directors. The General Manager/Chief Engineer (serving as the Executive Director of the Committee) and a representative of the Citizens' Advisory Committee are both non-voting members of the TAC.

MEMBERS OF THE TAC (June 2008)

Boulder City
Scott P. Hansen, Public Works Director
Jim Keane, City Engineer (Alternate)

Clark County
Denis Cederburg, Public Works Director, Chairman • Alternate (Vacant)
Alan Pinkerton, Deputy Director, Air Quality & Environmental Management (Alternate)
Mark Silverstein, Sr. Water Quality Planner, DAQEM
Allen Pavelka, Clark County, Manager, Public Works Design Engineering
Leslie R. Henley, Clark County, Deputy Director, Public Works

Henderson
Robert Murnane, Public Works Director, Vice-Chairman
Curt Chandler, Land Development Manager (Alternate)

Las Vegas
Jorge A. Cervantes, Director of Public Works
Randy Fultz, Assistant City Engineer (Alternate)
Cheri Edelman, Acting City Engineer/Deputy Director (Alternate)

Mesquite
J. Allen Bell, City Engineer
Kurt Sawyer, Director, Building & Capital Projects (Alternate)
Catherine Lorbeer, Planning & Redevelopment Manager (Alternate)
David Empey, Director, Finance Division Manager (Alternate)

North Las Vegas
Qiong Liu, named Director of Public Works
Thomas Brady, Manager, Public Works – Engineering Planning (Alternate)
Jennifer Doody, Manager Development and Flood Control (Alternate)

ORGANIZATIONAL FLOW

Vision

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

Mission

To improve the protection of life and property for existing residents, future residents and visitors from the impacts of flooding while also protecting the environment.

Clark County Regional Flood Control District
Board of Directors

General Manager / Chief Engineer
Gale Wm. Fraser, II, P.E.

Chief Deputy District Attorney

Support Services*

Assistant General Manager
Kevin L. Eubanks, P.E., CFM

Engineering

Engineering Director
Stephen C. Roberts, P.E.

Engineering Project Manager
Todd Myers, P.E.

Principal Civil Engineer
Steve Parrish, P.E.

Principal Civil Engineer
Andrew R. Trelease, P.E., CFM

Principal Civil Engineer
(Vacant)

Senior Engineer
Abigail Mayrena, P.E., CFM

Part-Time Engineering Intern
Christopher Carrier

Flood Safety

Environmental Mitigation Manager
Timothy E. Sutko

Hydrologist II
Shaun Fisher

Hydrologist II
Craig McDougall

Public Information Manager
Betty Hollister, APR

Public Information Coordinator
KerriAnne Mukhopadhyay

**The Regional Flood Control District receives various support from several Clark County departments as authorized by state statute.*

Administration

Administrative Services Director
Jeanine M. Pitts-Dilworth

Principal Management Analyst
Judith McElree-Orr

Fiscal Services Administrator
Joseph J. Grippaldi

Management Analyst II
Deanna Hughes

Senior Financial Office Specialist
Janelle Wade

Office Services Manager
Carolyn M. Frazier

Administrative Secretary
(Vacant)

Office Assistant I
(Vacant)

Office Assistant I
(Vacant)

Systems Administrator
Stan Clawson

Programmer Analyst II
Maurice Sanders

Programmer Analyst II
Michael Todd

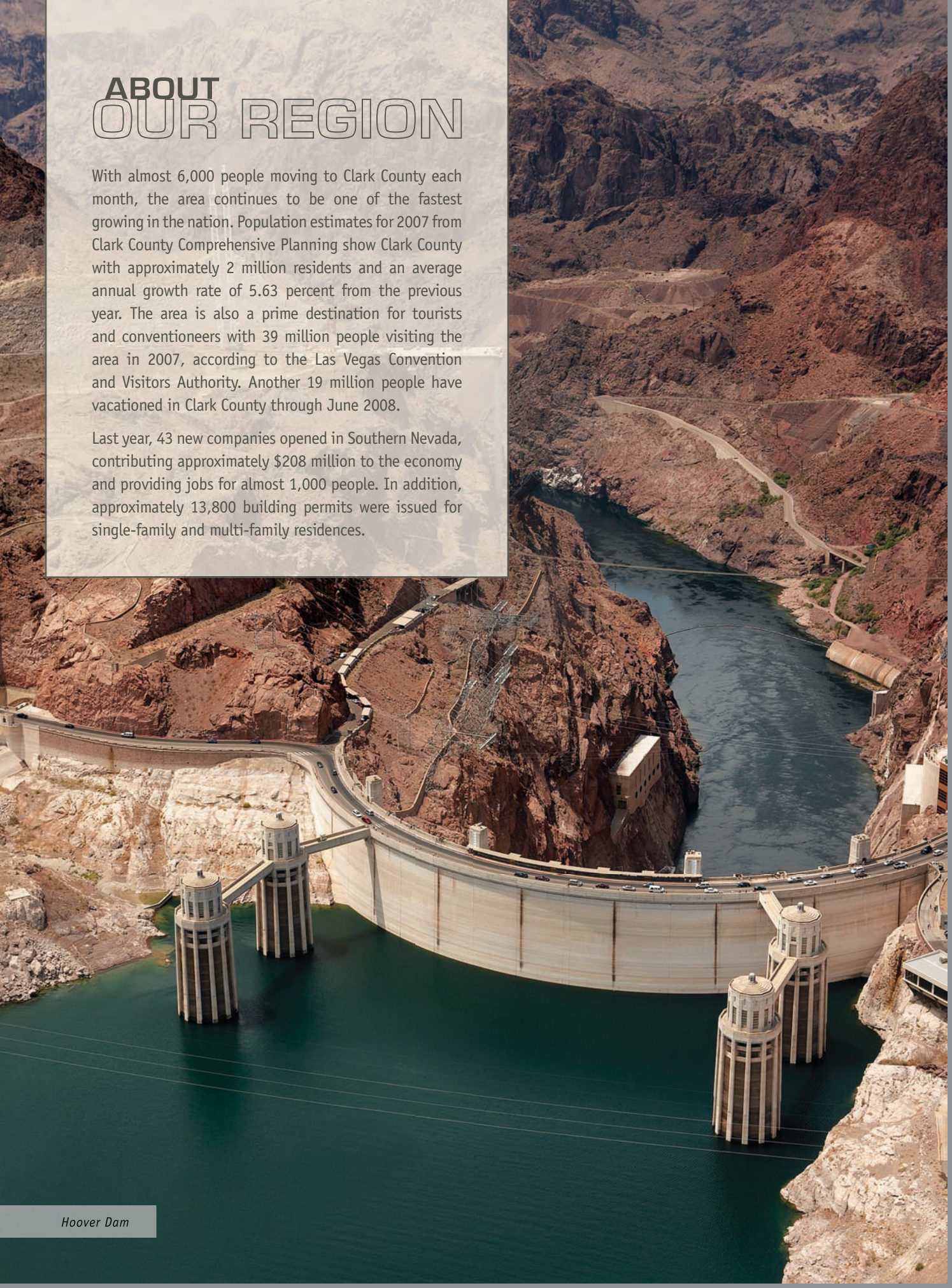
Office Specialist
Jessica Ordich

Gowan Lone Mountain System

ABOUT OUR REGION

With almost 6,000 people moving to Clark County each month, the area continues to be one of the fastest growing in the nation. Population estimates for 2007 from Clark County Comprehensive Planning show Clark County with approximately 2 million residents and an average annual growth rate of 5.63 percent from the previous year. The area is also a prime destination for tourists and conventioneers with 39 million people visiting the area in 2007, according to the Las Vegas Convention and Visitors Authority. Another 19 million people have vacationed in Clark County through June 2008.

Last year, 43 new companies opened in Southern Nevada, contributing approximately $208 million to the economy and providing jobs for almost 1,000 people. In addition, approximately 13,800 building permits were issued for single-family and multi-family residences.



Hoover Dam

Virgin River

MONITORING THE WEATHER

The District, in cooperation with the U.S. Geological Survey (USGS) and the National Weather Service (NWS), began implementing a Flood Threat Recognition System (FTRS) throughout the Clark County area in 1987. The system includes a network of strategically located field stations which automatically report data from more than 382 meteorological sensors in real-time to computerized base stations operated by each of the cooperating agencies. While more than 75 percent of the FTRS field stations are located in the Las Vegas Valley, other gauges installed in the Laughlin, Searchlight, Jean, Primm, Goodsprings, Mesquite, Bunkerville, Moapa Valley, Coyote Springs, CalNevAri and Indian Springs areas allow emergency responders to monitor weather conditions in those areas as well.

The District significantly expanded the size of the FTRS field sensor network during this fiscal year, installing two precipitation measuring gauges, a weather station and five water level stations. Three sites are located in Henderson, two in Mesquite, one in Laughlin, one in Boulder City and one in the southwest portion of the Las Vegas valley. These stations improve the District's and the NWS's ability to identify and track severe storms moving into the Las Vegas Valley.

The total number of field stations in operation at the end of the fiscal year was 171. Of this total, 32 stations collect temperature, humidity and wind data in addition to rainfall data, and 91 stations collect rainfall and water level information. The remaining 41 stations report only rainfall data. Seven of the field stations are maintained by the USGS under the terms of a joint funding agreement with the District. The District staff maintains the remaining 164 stations as well as five radio repeater sites which allow data from the outlying areas to be transmitted into the Las Vegas Valley. The installation of six field stations is planned for FY 2008-09.

The FTRS provides valuable information on water levels, rainfall and other meteorological parameters. Humidity sensors alert NWS forecasters when summer monsoonal moisture is sufficient to trigger thunderstorms. Information on wind speed and direction helps the NWS track severe storms in the Clark County area and issue more timely, site-specific weather statements than were previously possible. The District's fully automated base station notifies staff, both in and out of the District's offices, of potentially dangerous situations. Using internet connectivity to the base station, staff can assess the potential for flooding and alert public works and other emergency response personnel.

The information provided by this system helps emergency response agencies to more effectively direct their limited resources. The District maintains three modems and an FTP site to provide local governments, the news media and staff access to the FTRS. The District also provides access to the Flood Threat Recognition System data to the world via the World Wide Web (www.regionalflood.org). Both historic and current rain and weather data collected from any of the District's field stations can be accessed from the District's website.

HISTORY OF FLOODING IN CLARK COUNTY

The desert southwest is an environment of extremes. Typically thought of as a dry and hot region, the area often experiences intense rainfall and subsequent flash floods. Recorded reports of flooding in Clark County date back more than 100 years. In a special report entitled History of Flooding, Clark County, Nevada 1905-1975, the U.S. Soil Conservation Service documented 184 different flooding events that resulted in damages to private property and public facilities. Since 1960, the area has experienced at least 11 floods costing more than a million dollars each. In that same period, 31 lives were lost in 21 separate flash flood events. On August 2, 2007 a thunderstorm dropped 2.50 inches of rain in a 90-minute period in the Brownstone Canyon area of the west Las Vegas Valley. This resulted in the brief closure of SR159 and filled the Red Rock detention basin with 17 feet of water. During another storm on August 27, 2007 one rain gauge measured 3.11 inches of rainfall while another received 1.89 inches in the western valley. Details of these events can be found at the District's web site at http://breccia.ccrfcd.org/FileLibrary/FileLibrary.aspx.

While floods can and have occurred in almost every month of the year, the most damaging storms typically occur between July and September. During these hot summer months, moist unstable air, typically from the Gulf of Mexico or Gulf of California, is rapidly forced upward by hot air currents. The dynamics of this process often result in spectacular displays of lightning in the desert sky. Too often, they also cause severe thunderstorms with intense rainfall on steep mountain slopes and armored desert surfaces. The rainwater runs off rapidly and concentrates in the urbanized areas at lower elevations.

Most residents and visitors are unaware of the flood potential or never see flooding occur until it is too late. Aside from the tremendous property damage and deaths related to flooding, Clark County residents experience inconveniences caused by impassable or difficult-to-travel roads. Support services such as police, fire and ambulance are sometimes delayed in responding to victims of life-threatening incidents.

Flood events can also adversely impact the local economy through loss of business at commercial establishments due to decreased access. Furthermore, flooding in the Las Vegas Valley can become national news and deter tourists from visiting the area.

The average rainfall in the Las Vegas Valley is 4.49 inches and this amount is nearly equally divided between summer and winter rainy seasons. During FY 2007-08, the official rainfall total reported by the National Weather Service for Las Vegas was 5.45 inches, up from 1.66 inches during last fiscal year.

1975 Flood

Upper Flamingo Detention Basin

Installation of the 2008 License Plate Billboard Contest winning slogan.

KEEPING THE COMMUNITY INFORMED

The District's Public Information Program focuses on educating the public about the dangers of flash flooding and informing the community about the progress of flood control in Clark County. The program also works to educate the community about storm water quality and how residents can help improve the quality of urban runoff and rainwater that drains to Lake Mead.

Several programs are ongoing to keep information about drainage improvements and flood safety in mind throughout the year. Following is a summary of some of those activities:

- The Board of Directors designated July as "Flash Flood Awareness Month" and held a news conference kicking off Flash Flood Season. The event was covered by all major news media and helped increase public awareness of a heightened potential for flash floods during the summer months. The local news media is very supportive of the District's efforts to communicate flood safety information and are strong community partners.
- Emphasis is placed on educating children about the dangers of playing in floodwater and drainage facilities. This past year, the District staff made classroom presentations at 63 schools speaking to approximately 8,902 elementary students. In addition, the District mailed curriculum materials and a school DVD for 430 students at teachers' request.
- The District also conducts a Flood Safety Awareness Campaign between June and September when heavy rain and flash flooding are more likely to occur. The campaign uses billboards, radio, television and print media to inform residents about flooding dangers. Creative artwork, featuring personalized license plate messages, grabs motorists' attention in a lighthearted yet serious way. The District hosts an annual License Plate Billboard Contest to allow Valley residents to create their own flood safety slogan. This year the District received almost 1,900 billboard message entries, almost 700 more than last year's contest. The winning entry in English this year was "NO1WINS." The winning Spanish entry was "NOBUENO," translated means "Not Good." Both messages were displayed on billboards in August and September.
- Anderson Dairy printed and distributed more than 250,000 milk cartons with a flood safety message at no charge to the District. Also, a flood safety and informational brochure was mailed to approximately 30,000 realtors, lenders, insurance agents and new residents in Clark County.
- The District continued with production of The Flood Channel, a 30-minute informational television program airing on two local government access stations, cable channels 2 and 4, and on cable channels in several outlying areas. Each episode informs the public about construction progress, flood safety and environmental issues.

General Manager Gale Fraser speaking at the 2008 Flood Safety News Conference

ENHANCING INFORMATION SYSTEMS

The District's website (www.regionalflood.org) is designed to provide information to the public about the District, current and historical rainfall data, projects and facilities, flood zones, the public outreach program and flood emergency information.

The District continued to provide leading edge Geographic Information Systems (GIS) technologies to both staff and the public. The District's GIS staff maintained information on 100-year flood zones and facility projects and provided that information to the other entities, agencies, and customers through the county's GIS central data repository. Staff also responded to custom map requests.

During the past year, the Information Technology (IT) staff completed major steps towards integrating decision support tools and web-based applications into staff work processes and offering external customers web-based tools to enhance usability and efficiency. Among the highlights were:

- Enhancement of the District Document Management System through database maintenance and defining new document retrieval techniques and elimination of public storage of documents resulting in elimination of rental costs
- Continuation of the conversion of the FloodView desktop application to the most current technology
- Enhancement of the Regional Flood Management System, an internal desktop application used by District staff
- Conversion of telephone system to a Voice-Over-IP (VOIP) phone system realizing a 50% reduction in telephone costs

Future IT projects include an area library application allowing users to pull documents relating to specific geographic areas, continuation of the SAP integration with Clark County and conversion of film and video images to digital formats.

The public is encouraged to visit the website as enhancements are continually being made.

Lower Las Vegas Wash Detention Basin

KEEPING OUR WATERS CLEAN

In accordance with the Federal Water Pollution Control Act, the Clark County Regional Flood Control District, as lead agency, has been operating under a National Pollutant Discharge Elimination System (NPDES) permit with the various city and county agencies since December 1990. The permit outlines a schedule of monitoring requirements, best management practices and conditions designed to promote the reduction of pollutants in storm water.

This past year, the District continued execution of a Storm Water Management Plan (SWAMP) adopted in 2004 identifying specific program areas which must be addressed. A construction site inspection program was implemented and several training sessions were held for local construction companies. The inspection program will reduce the amount of sediment and construction pollutants entering the storm drain system. Work also began this year to enhance and develop programs in response to a program review by the Environmental Protection Agency and the Nevada Department of Environmental Protection. Technical working groups have been established with representatives of the various agencies to explore runoff management from construction sites, newly completed developments, industrial sites and the storm water quality benefits of flood control facilities. A stakeholder working group with representation from the various agencies and developers, engineers and the environmental community have been working together with information from the technical working groups to finalize program enhancements that are clear, simple, effective, consistent, cost effective, consensus based, fiscally and environmentally responsible and sensible for the Las Vegas Valley. The District is also an active member of the Lake Mead Water Quality Forum, the Las Vegas Wash Coordination Committee and participates on the Las Vegas Valley Watershed Advisory Committee. Annual reports of NPDES compliance activities are available on the District's website. Additional information useful to the general public in the reduction of storm water pollution is available at www.lvstormwater.com. The site provides information about storm water quality, describes proper use and disposal of chemicals and fertilizers, and educates the community about how to improve the quality of urban runoff that travels untreated to Lake Mead. Similar information is distributed at several community events throughout the year.

Residents can also help reduce the impact of pollutants on the environment. By notifying the District and the local government entities about improper disposal of chemicals and pollutants, corrective action can be taken by the appropriate agency. Clogged storm drains and washes, littered with debris, may also cause pollution and flooding problems. In the case of a severely clogged drop inlet/storm drain, residents should notify the city or county jurisdiction where the drain is located. Residents can also notify the District at (702) 685-0000 and staff will direct the call to the appropriate entity.

The District continues to develop public service announcements (PSA) that focus on the importance of not polluting our desert environment. These commercials point out behaviors residents can change to help protect Lake Mead, our drinking water source. In the spring and fall, the District places these commercials as paid advertising with the four major television networks to reinforce the importance of not dumping trash, reporting clogged storm drains, fertilizing properly, disposing of pet waste and using commercial car washes. The District staff is also available to give presentations to groups interested in environmental topics associated with flood control.

Lamb Boulevard Storm Drain

FLOODPLAIN MANAGEMENT

Master Planning

Master Plans include descriptions of the proposed flood control facilities, cost estimates and suggested phasing. Typical facilities are detention basins, channels, bridges and storm drains. Master Plans for all areas of Clark County are updated every five years. Master Plan Updates for the City of Mesquite, The Town of Bunkerville and the City of Boulder City were adopted this fiscal year. A Master Plan Update for the Outlying Areas of Clark County including Blue Diamond, Goodsprings, Indian Springs, Jean, Laughlin, Mount Charleston, Nelson, Primm and Searchlight was initiated this fiscal year and is scheduled for adoption by the beginning of 2009. A Master Plan Update for the Las Vegas Valley was initiated in May 2006 and is scheduled for adoption in September 2008.

The elements of a comprehensive floodplain management program include regulations, the community rating system, land development reviews, drainage standards and floodplain mapping. The following sections briefly describe each of these categories being utilized by the entities and the District, as well as the milestones accomplished in fiscal year 2008.

Fulfilling Environmental Regulations

Throughout its history, the District has nurtured its relationships with the Bureau of Land Management, United States Fish and Wildlife Service, U.S. Army Corps of Engineers and other resource management agencies. The District continues to assist local governments in their efforts to obtain rights-of-way and environmental permits from regulatory agencies.

The Clean Water Act requires a federal permit for the deposition of fill material in "waters of the United States." Fill material includes channel armoring (e.g., concrete and riprap) as well as detention basin embankment materials. Permits for projects which include these types of activities often require some form of mitigation to compensate for adverse impacts to the "waters of the United States." Identifying acceptable mitigation projects is one of the biggest challenges currently facing the District. We continue to work with the regulatory and permitting agencies to identify mitigation projects and sites so that construction of drainage facilities, that protect life and property, can move forward without delays.

Regulatory Program

The National Flood Insurance Program (NFIP), administered by the Federal Emergency Management Agency, has established rules and requirements to address the diverse issues that encompass flood insurance and flood hazard mitigation. Clark County and the incorporated communities within the County have adopted the Revised Uniform Regulations for the Control of Drainage in accordance with state statutes. These regulations are designed to protect the health, safety and welfare of residents within the community from the hazards associated with flooding. The regulations provide the minimum regulatory control necessary to:

1) Promote comprehensive floodplain management
2) Require safe flood-prone area development
3) Foster sound development policies and construction procedures
4) Reduce storm water runoff damage to public and private property

By meeting and exceeding the NFIP requirements, the regulations ensure that the residents of Clark County and incorporated areas are eligible for flood insurance that is available from the federal government. Additionally, all participating communities are eligible for a higher federal match for disaster assistance in the event of a flood.

The Community Rating System

Initiated in 1990, the Community Rating System (CRS) reduces flood insurance premiums to reflect those community activities that are above and beyond the NFIP's minimum standards. The objective of the CRS is to reward insured residents for their continued involvement in the community, as well as to provide an incentive for new flood protection activities.

Nationwide, of the nearly 20,100 communities participating in the NFIP, roughly 1,049 community flood management programs are recognized by CRS verification audits. In a cooperative effort with the District, Clark County, the City of Henderson, the City of Las Vegas, City of Mesquite and the City of North Las Vegas were among the communities to realize a 15 to 20 percent reduction in flood insurance premiums as a result of these audits.

These entities received credit for the District's public information programs, maintenance activities, re-mapping efforts and the Flood Threat Recognition System. In addition, the District's Master Plan, Hydrologic Criteria and Drainage Design Manual and the Uniform Regulations for the Control of Drainage serve as the foundation of a higher regulatory standard that has been recognized by CRS auditors as one of the most comprehensive in the nation.

Gowan Outfall Lone Mountain Branch

FLOODPLAIN MANAGEMENT

Land Development Reviews

The District performs land development reviews to ensure compliance with the Uniform Regulations for the Control of Drainage and the District's Policies and Procedures Manual, both adopted pursuant to state statutes. The entities are responsible for the review and approval of all drainage plans and studies within their boundaries. The entities must submit development proposals to the District for review if the development impacts the implementation of the Master Plan or lie within Special Flood Hazard Areas (regional flood control significance). In accordance with the District's Policies and Procedures, staff will commence review once the entity approval is obtained for the pending studies.

This past year, the District received 264 studies and 540 addenda related to the development of private properties deemed to have regional flood control significance. Reviews by the District resulted in the issuance of 274 concurrence letters and 57 related comment letters.

Gowan Lone Mountain System

Floodplain Mapping

All six local governments in Clark County are currently participating in the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program (NFIP). In participating communities, residents are eligible for federally subsidized flood insurance whether they live in a flood zone or not. In order to participate in the NFIP, communities must adopt flood hazard maps prepared by FEMA and floodplain regulations in compliance with FEMA's minimum requirements. It is the District's objective to reduce flood hazards by implementing the Flood Control Master Plan. As part of the District's ongoing effort to improve the accuracy of FEMA's flood insurance rate maps and take credit for completed flood control facilities, restudy of flood hazard areas is required. Many areas have already been restudied resulting in the removal of approximately 49.2 square miles or 31,470 acres from identified 100-year flood zones. Studies are ongoing for flood control projects which began construction this year. This data will be submitted to FEMA to get its support for a flood map revision once the project completes construction. This allows the maps to be changed to reflect the benefits of the projects as soon after completion as possible. The District will continue to work closely with the entities and FEMA to further the restudy efforts. In fact, Clark County and the entities were issued one of the first state-of-the-art Digital Flood Insurance Rate Maps (DFIRM) in the nation in fiscal year 2002-03. FEMA's involvement, from both a financial and a technical review standpoint, is appreciated.

Drainage Standards

The District and the entities have adopted the Hydrologic Criteria and Drainage Design Manual that presents drainage standards and criteria for the Clark County area. It provides uniformity in drainage planning and design within the District's service area, improves the urban environment and provides a sound basis for the expenditure of future private, public and regional monies. The Manual is used by governmental designers and reviewers and consulting engineers. The Manual was originally adopted in 1990 and updated in 1999 to provide more clarity and address advances in state-of-the-art hydrologic and hydraulic techniques.

Peak Drive Storm Drain

PARTNERING WITH THE FEDERAL GOVERNMENT

The U.S. Army Corps of Engineers' Tropicana and Flamingo Washes Project, located in the southwestern portion of the Las Vegas Valley, includes five detention basins, three debris basins, 27.7 miles of primary channel and a network of lateral collector channels. Federal involvement in providing needed flood control infrastructure for our community is predicated on a financial commitment by the District and support from Nevada's federal delegation.

In February 1995, the District, Clark County and the U.S. Army Corps of Engineers (Corps) executed a Project Cooperation Agreement that defines responsibilities of each party for the $336 million network of flood control facilities. Through this agreement, the District's share is 25 percent or $84 million, and the federal government, through the Corps, is responsible for the remaining 75 percent. The District is responsible for project management, while Clark County acquires rights-of-way, provides surveying and engineering services for utility relocations and bridge crossings and operates and maintains the facilities upon completion of the project. The Corps provides project management, design and construction management.

Tropicana and Flamingo Washes Project Area

The District, Clark County, and the Corps made significant progress on the Tropicana and Flamingo Washes Project during fiscal year 2007-08. While the project is currently over 99 percent complete, a formal dedication of the entire project was held on July 2, 2007 as part of a news conference to kick off flash flood season. The project has successfully removed 18.6 square miles of FEMA identified 100-year flood zones in this rapidly developing area. During the past year, the Corps prepared a design of a final clean-up contract, and let and awarded this final construction contract. The Corps also completed construction of the F-4 Debris Basin and Channel project. The Corps and local sponsors have begun administratively closing out the overall project, completing fiscal close out of more than half of the individual construction contracts.

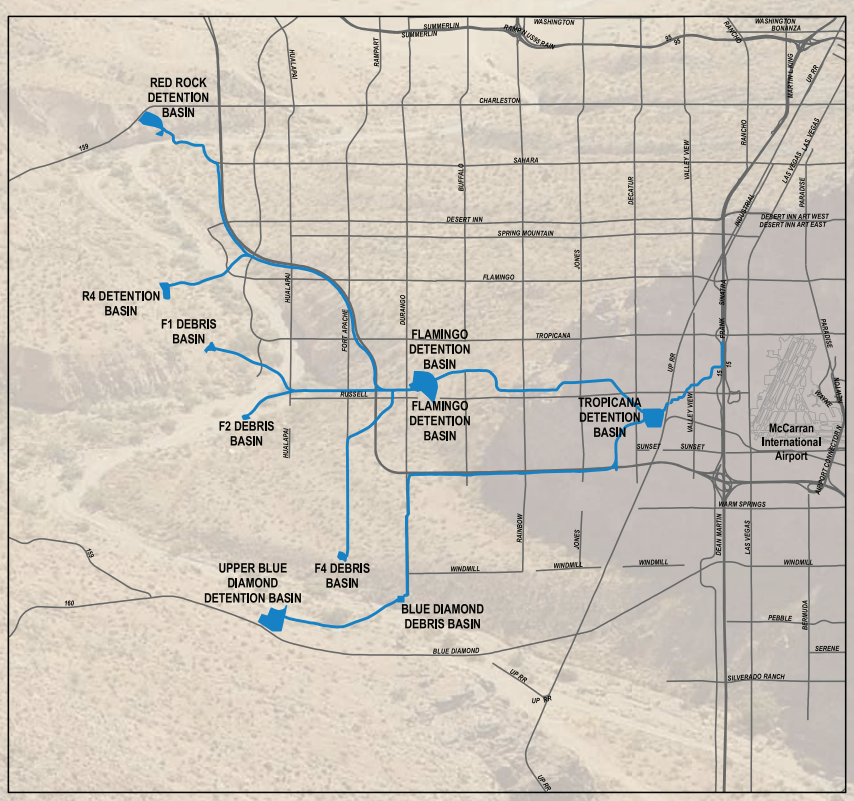
Congress allocated $12.8 million for federal fiscal year 2008 for the Tropicana and Flamingo Washes Project. Total federal funding has increased to approximately $252 million for these important flood control improvements. Federal allocations to date are believed to be sufficient to complete the project.

Red Rock Detention Basin

Upper Flamingo Detention Basin

CORPS PROJECT AREA

Tropicana and Flamingo Washes Project Area



LEGEND

N

Conveyances — *Basins*

COMPLETED

F-2 Debris Basin

DEMONSTRATING FISCAL INTEGRITY

In the primary election of 1986, Clark County voters approved a one-quarter of one percent sales tax increase to fund flood control improvements. The sales tax increase became effective in March 1987 and the first sales tax revenues were received in May 1987. Sales tax revenue for fiscal year 2007-08 totaled $87.7 million, bringing total revenues derived from sales tax since 1987 to $998.2 million.

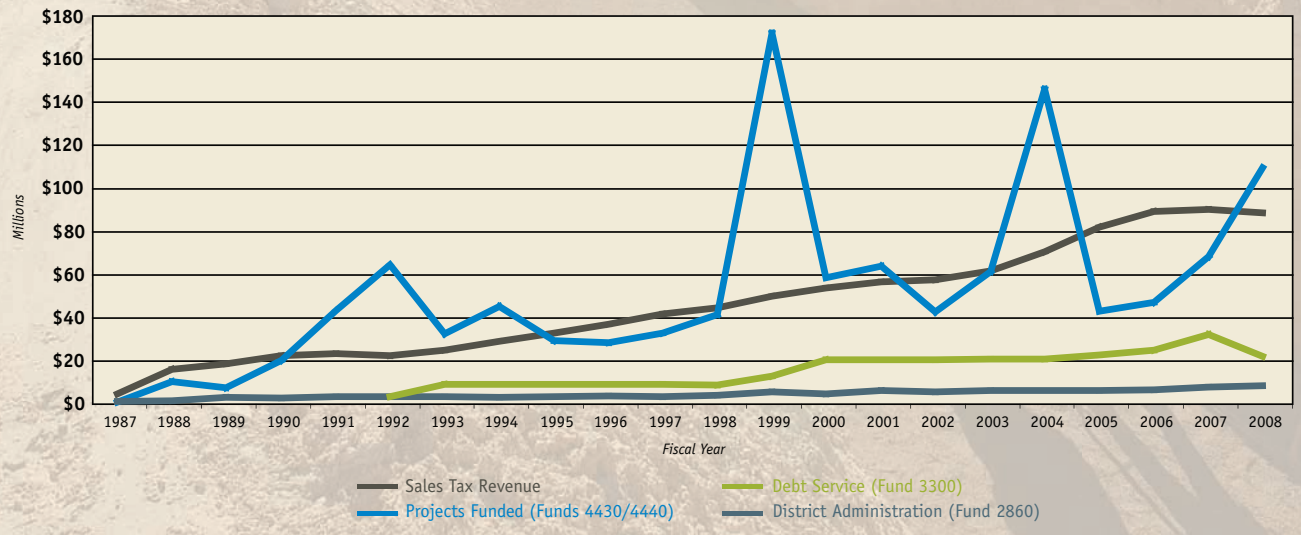
Currently, taxable sales and revenue collection data indicate that Nevada continues to feel the effect of a slowing economy. In light of declining revenues the District has opted to be more conservative in projecting sales tax revenue. Sales tax revenues for fiscal year 2008-09 are projected to be $88.6 million, which is one percent more than fiscal year 2007-08. More than 90 percent of sales tax revenues are used to build and maintain flood control projects and pay for the associated debt service. The remainder, less than 10 percent of sales tax revenues, is used to pay for salaries and benefits, professional consulting contracts and other administrative costs. During fiscal year 2007-08, the District expended approximately $99.6 million for flood control projects, debt service, flood control maintenance and $7.5 million for administrative costs. Since inception, the District has overseen the design and construction of approximately $1.3 billion in flood control improvements throughout Clark County.

Each year, in conjunction with the development of the Ten-Year Construction Program (TYCP), a ten-year forecast of revenues, expenditures, debt-financing and available project funding is developed. A variety of economic factors are examined when considering the ten-year financial plan. This long-range financial plan drives the TYCP project funding schedule. Recently, the District adopted a new philosophy to better assist in planning capital project funding by including anticipated future debt issues. Programming future debt in the TYCP allows better planning and coordination of upcoming design and construction cycles, which has the potential to speed up the design and construction of flood control projects and helps accomplish our mission of protecting life and property. There is no guarantee that future debt will be issued. The District will evaluate whether to issue future debt based on economic conditions and progress in project development. Available resources for the TYCP are estimated to be $1.2 billion, which includes estimated future debt issues of $700 million, which will be distributed in $100 million increments over the second, third and fourth year and $200 million increments over the eighth and ninth year.

As the costs of flood control projects continue to inflate at unprecedented rates, funding projects in a timely manner remains a challenge. For example, the cost of one mile of channel in 1990

Gubler Avenue Bridge on Muddy River

HISTORICAL FINANCIAL INFORMATION



Lamb Boulevard Storm Drain

DEMONSTRATING FISCAL INTEGRITY

was approximately $2 million, while in 2007 the cost swelled to $8.5 million. The District continuously evaluates opportunities to accelerate the construction of flood control facilities to meet this funding challenge. Pay-As-You-Go funding uses current available sales tax resources to pay for projects, while borrowing money allows the District to accelerate design and construction of flood control infrastructure and guarantees the repayment using sales tax revenue.

From 1991 to the present, the District has issued a total of $430 million in general obligations, of which $299.9 million remains outstanding. Due to the District's and Clark County's excellent credit rating, extremely favorable interest rates were obtained, which saves the community millions in interest costs. The District has used a blended approach to finance flood control projects including short-term and long-term debt instruments with interest rates that have averaged from less than one percent to 6.2 percent.

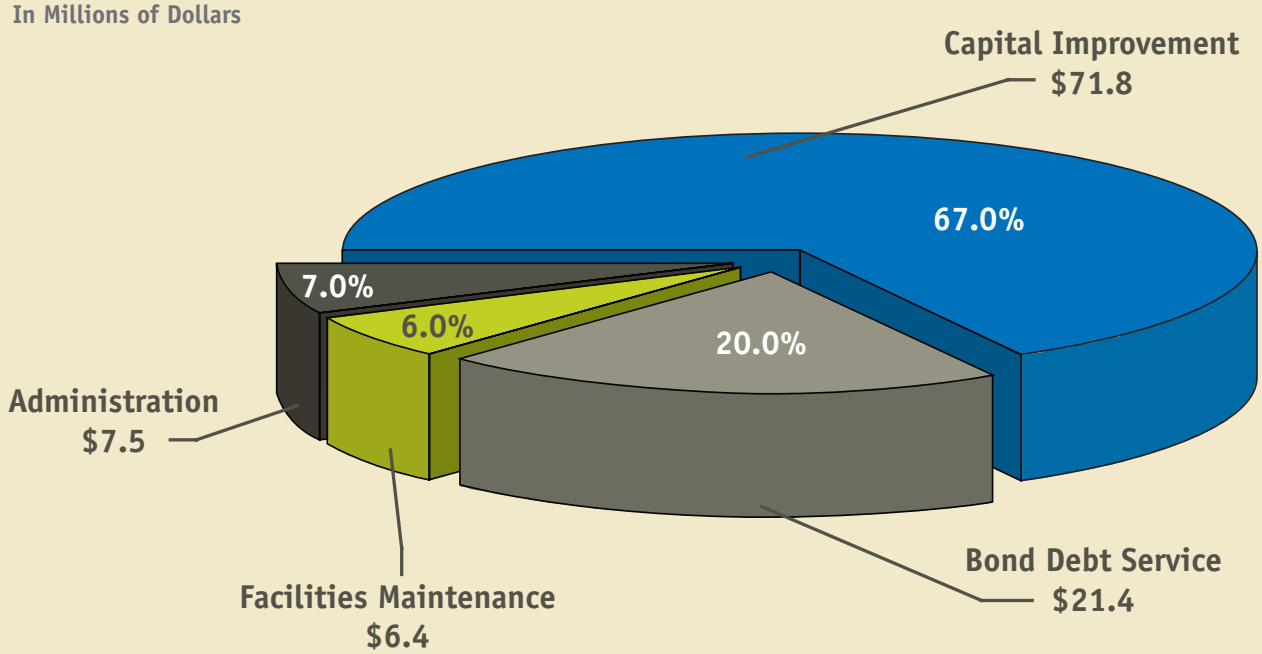
In fiscal year 2006-07, the Board approved policy changes that allow the entities to accelerate construction and right-of-way projects in the second and third year of the TYCP if certain conditions are met. The potential exists for funding requests to exceed available resources, which creates a competitive environment that drives the entities to expedite project implementation.

The District has also been able to work with other governmental jurisdictions and agencies to fund projects in advance of the availability of District resources. The projects are built ahead of schedule and the District pays for the project at a later date by using Entity Advance Funding and Resolution agreements. Furthermore, the District has successfully negotiated with private developers and other governmental agencies to pay for flood control projects if certain conditions exist.

Some of the advantages of accelerating the construction of flood control projects are: 1) Flood control projects, which protect life and property, are built promptly. 2) There are significant cost savings in building projects ahead of schedule because of the deterioration of purchasing power over time due to inflation. Land costs are expected to inflate at approximately fifteen percent over the next couple of years, while construction costs are expected to inflate between zero and six percent during the same time.

DISTRICT EXPENDITURES

In Millions of Dollars



[1]Bond Debt Service includes the 1998 ($150 million) General Obligation Flood Control Bonds and the 2006 ($200 million) General Obligation Flood Control Refunding Bonds that were issued to expedite construction of flood control improvements.

Over the past 14 years, the District has been awarded the Distinguished Budget Presentation Award by the Government Finance Officers Association of the United States and Canada. The award represents a significant achievement by the District and reflects the District's commitment to meet the highest principles of governmental budgeting. In order to receive the award, the District has to satisfy nationally recognized guidelines for effective budget presentation.

Annually, the District continues to receive favorable audit opinions that state the District's financial statements are presented fairly in all material respects. This means that independent auditors have reviewed the District's financial statements and are satisfied that the financial statements are materially accurate. These positive opinions advise stakeholders that the District is following proper accounting principles and procedures.

Rancho Detention Basin

Lower Duck Creek Detention Basin

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT FUNDS

Sources and Uses of Funds Summary in Millions of Dollars (Unaudited[1])

	District Administration Fund 2860	Facilities Maintenance Fund 2870
Beginning Balance (July 1, 2007)	$ 11.9	$ 8.5
Sources of Funds		
Sales Tax Revenue	87.7	0
Interest / Other	1.2	0.8
Transfers from other Funds	26.3	6.0
Total Sources of Funds	115.2	6.8
Uses of Funds		
Salaries and Wages	(2.4)	0
Employee Benefits	(0.7)	0
Services and Supplies	(4.2)	(6.4)
Capital Outlay	(0.2)	0
Principal	0	0
Interest	0	0
Transfers to other Funds	(96.8)	0
Total Uses of Funds	(104.3)	(6.4)
Fiscal Year Net Change	10.9	0.4
Ending Balance (June 30, 2008)	$ 22.8	$ 8.9

[1]Audited financial statements are expected to be available in November 2008

FISCAL YEAR 2007-2008

Bond Debt Service Fund 3300	Capital Improvement Funds 4430 / 4440	Total District Funds
$ 10.6	$ 196.7	$ 227.7
0	0	87.7
1.2	17.9	21.1
21.3	69.5	123.1
22.5	87.4	231.9
0	0	(2.4)
0	0	(0.7)
(0.3)	(4.5)	(15.4)
0	(67.3)	(67.5)
(6.6)	0	(6.6)
(14.5)	0	(14.5)
0	(26.3)	(123.1)
(21.4)	(98.1)	(230.2)
1.1	(10.7)	1.7
$ 11.7	$ 186.0	$ 229.4

MAINTAINING FLOOD CONTROL FACILITIES

The Board has adopted an Operations and Maintenance Manual to establish performance standards and guidelines for the maintenance of flood control facilities located within the District's service area. Each of the separate entities in Clark County is provided funds by the District to maintain the regional flood control facilities within their respective jurisdictions. The District worked with the entities to develop the fiscal year 2007-08 Maintenance Work Plans and Budgets, which were approved by the Board on June 14, 2007, in the amount of $10,661,900. The Board approved two supplemental budget requests totaling $267,700 during the fiscal year, bringing the total approved budget to $10,929,600.

Flood control facility maintenance was performed using a combination of private contractors and entity maintenance staff. During this year, approximately 470 miles of channels and underground storm drains were inspected and/or maintained throughout the service area of the District, along with 76 detention basins.

MAINTENANCE WORK PROGRAM EXPENDITURES

Entity	*FY 2007-08 (Unaudited)*
Boulder City	**$ 102,526**
Clark County	**$ 1,060,487**
Henderson	**$ 1,865,074**
Las Vegas	**$ 1,850,000**
Mesquite	**$ 124,444**
North Las Vegas	**$ 1,185,291**
TOTAL	**$ 6,187,822**

Duck Creek Tributary

DEERE 5722

TOTAL PROJECT FUNDING THROUGH FISCAL YEAR 2007-2008

In million of dollars	*Total-to-date*
Boulder City	**$17.1**
Clark County[1]	**$635.7**
Henderson	**$140.6**
Las Vegas	**$278.0**
Mesquite	**$15.6**
North Las Vegas	**$232.2**
TOTAL FUNDING[1]	**$1,319.2**

[1]Includes federal funding for the Tropicana and Flamingo Washes Project.

Pittman-Pecos Channel

PROJECTS COMPLETED

DURING FISCAL YEAR 2006-2007

Boulder City

Yucca Street Drainage . . . . . March 2007

Clark County

US ARMY CORPS OF ENGINEERS' TROPICANA AND FLAMINGO WASHES

Upper Flamingo Detention Basin Expansion . . . . . January 2007

Henderson

Gibson Conveyance System . . . . . August 2006

Pittman Wash Railroad Channel, US-95 to Major Avenue . . . . . August 2006

Las Vegas

Jay Avenue Improvements, Local Drainage Project . . . . . August 2006

North Las Vegas

"A" Channel Three Bridges Project (Cheyenne Avenue, Las Vegas Boulevard and Carey Avenue) . . . . . September 2006

PROJECTS COMPLETED

DURING FISCAL YEAR 2007-2008

Clark County

Hickam Avenue Storm Drain, Local Drainage Project . . . . . April 2008

Lower Blue Diamond Detention Basin and Collector Channel . . . . . October 2007

Red Coach Avenue/Cimarron Road Improvements, Local Drainage Project . . . . . July 2007

Searchlight - West, US-95 . . . . . October 2007

Windmill Wash Outfall . . . . . July 2007

US ARMY CORPS OF ENGINEERS' TROPICANA AND FLAMINGO WASHES

F-4 Debris Basin and Channel . . . . . July 2007

Henderson

Pittman Pecos West Conveyance and Eastern Avenue Tributary . . . . . July 2007

Las Vegas

Gowan North Channel - El Capitan Way to the Western Beltway . . . . . May 2008

Rancho Detention Basin, Phase II . . . . . May 2008

PROJECTS UNDER CONSTRUCTION

AS OF JUNE 30, 2008

Clark County

Blue Diamond Wash South Rainbow, Pebble - Raven and Wigwam - Ford . . . . . September 2008

Duck Creek, Eldorado Lane to Spencer Street . . . . . July 2008

Duck Creek Channel, Silverado Ranch Boulevard to Las Vegas Boulevard . . . . . September 2008

Flamingo Hacienda . . . . . April 2009

Lower Blue Diamond Detention Basin Outfall . . . . . August 2008

Muddy River, Gubler Avenue Bridge . . . . . July 2008

Las Vegas

Gowan Lone Mountain System - Branch 4 . . . . . October 2008

Gowan Lone Mountain System - Cliff Shadows Park . . . . . October 2008

Las Vegas Wash - Elkhorn (Rainbow Boulevard to Torrey Pines Drive) . . . . . March 2009

Peak Drive System (Jones Boulevard to Michael Way) . . . . . August 2008

Rancho Drive System - El Campo Grande Storm Drain . . . . . February 2009

North Las Vegas

Centennial Parkway Channel East . . . . . May 2009

Gowan Outfall, Lone Mountain Branch (Decatur Boulevard to Channel) . . . . . March 2009

Range Wash - Lamb Boulevard Storm Drain . . . . . January 2009

PROJECTS SCHEDULED FOR WORK

IN FISCAL YEAR 2008-2009

Boulder City

Bootleg Canyon Detention Basin and Inflow Structures (Phase II), Construction . . . December 2009
Bootleg Canyon Detention Basin Outfall (Phase I), Construction . . . August 2009
Buchanan, El Camino, and Gingerwood Crossings, Design . . . December 2009
East Airport Facilities, Design . . . January 2009
Hemenway Channel Facilities, Construction . . . December 2009
Lake Mountain Drive Debris Basin Expansion, Design . . . January 2010
Railroad Facilities, Design . . . November 2009
Trailhead Facilities, Design . . . November 2009
Yucca Debris Basin, Collection and Outfall, Design . . . December 2008
Yucca Debris Basin, Collection and Outfall, Construction . . . November 2009

Clark County

Blue Diamond Wash Wigwam, Jones Boulevard to Rainbow Boulevard, Design . . . December 2008
Blue Diamond Wash Wigwam, Union Pacific Railroad to Jones Boulevard, Design . . . December 2008
Blue Diamond Wash Wigwam, Union Pacific Railroad to Jones Boulevard, Construction . . . April 2010
Carey Avenue Storm Drain, Local Drainage Project, Construction . . . April 2009
Duck Creek, Mountain Vista Street to Green Valley Parkway, Design . . . February 2009
Duck Creek, Railroad Detention Basin, Design . . . August 2008
Duck Creek, Railroad Detention Basin, Construction . . . November 2009
Duck Creek at Sunset Road, Design . . . August 2009
Duck Creek, Spencer Street to I-215, Design . . . August 2009
F-4 Patrick Lane/Ft. Apache Road Lateral, Design . . . January 2009
F-4 Patrick Lane/Ft. Apache Road Lateral, Construction . . . May 2010
Flamingo - Boulder Highway North, Sahara Avenue to Flamingo Wash, Design . . . December 2008
Flamingo Diversion - Rainbow Branch, Design . . . June 2009
Flamingo Diversion - South Buffalo Branch, Flamingo Wash to Patrick Lane, Design . . . June 2009
Flamingo Wash, Industrial Road to Hotel Rio Drive, Design . . . July 2009
Flamingo Wash, Lamb Boulevard to I-515, Design . . . August 2009
Flamingo Wash, McLeod Drive to Maryland Parkway (Desert Inn Rd. to Spencer St.), Design . . . September 2008
Flamingo Wash, Nellis Boulevard to Lamb Boulevard, Design . . . August 2009
Lower Flamingo Detention Basin, Design . . . October 2008
Muddy River West Levee - Moapa Valley, Design . . . December 2009
Muddy River and Tributaries - Fairgrounds - Whipple Avenue, Design . . . January 2010
Muddy River and Tributaries - Cooper Avenue to Yamashita Street, Design and Right-of-Way . . . May 2010
Orchard Detention Basin, Design . . . December 2008
Outlying Areas - Laughlin - SR 163 to Casino Drive, Design . . . March 2009
Outlying Areas - Searchlight - West, Design . . . November 2009
Sunrise Avenue Storm Drain, Local Drainage Project, Construction . . . July 2008
Tropicana North Branch Detention Basin, Design . . . August 2008
Tropicana North Branch Detention Basin, Construction . . . December 2009
Tropicana Wash at Swenson Street, Design . . . December 2008
Tropicana Wash at Swenson Street, Construction . . . December 2009
Twain at Pecos-McLeod Storm Drain, Local Drainage Project, Construction . . . July 2009
Upper Duck, Central Duck, Lower Blue Diamond and Bird Springs Detention Basin, Design and Right-of-Way . . . December 2008
Upper Duck Creek Detention Basin, Construction . . . July 2010

Henderson

Blackridge Road Storm Drain System, Local Drainage Project, Construction . . . April 2009
C-1, Equestrian Tributary, Design . . . August 2009
C-1, Equestrian Tributary, Construction . . . November 2009
Pittman Railroad East Conveyance, Design . . . July 2008
Pittman Railroad East Conveyance, Construction . . . November 2009
Equestrian Detention Basin Outfall, Design . . . July 2008
Equestrian Detention Basin Outfall - Heritage Channel, Construction . . . December 2009
Northeast Detention Basin and Levee, Design . . . July 2008
Northeast Detention Basin, Levee and Outfall, Construction . . . November 2009
Northeast Detention Basin Outfall, Design . . . July 2008
Pittman Railroad, McDonald Ranch Channel, Design . . . July 2008
Pittman Railroad, McDonald Ranch Channel, Construction . . . August 2009
Pittman Wash - Burns, Construction . . . July 2008

PROJECTS SCHEDULED FOR WORK

IN FISCAL YEAR 2008-2009

Las Vegas

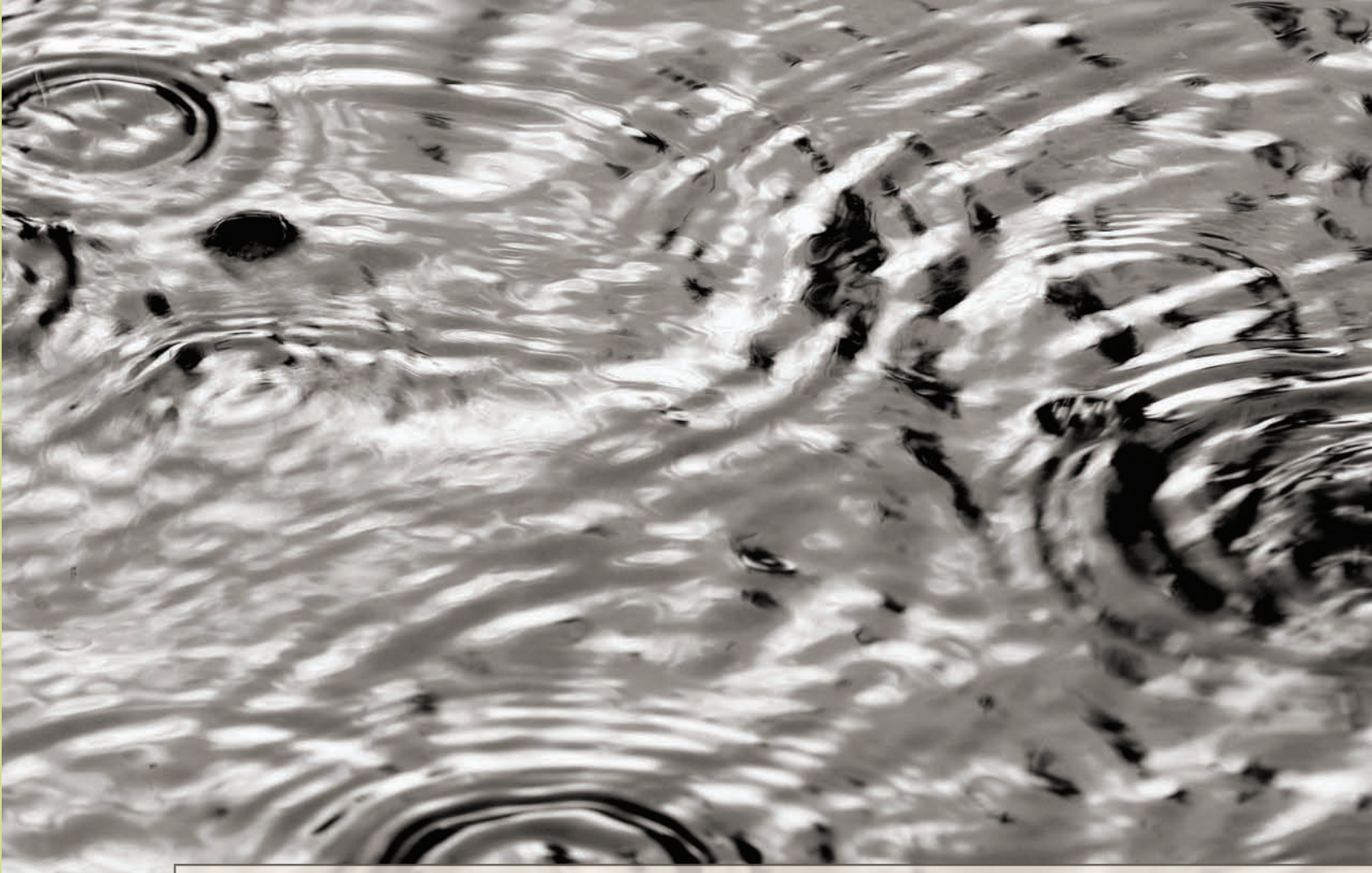
Alta Parallel System, Design . . . . . September 2008
Brush Street Storm Drain, Local Drainage Project, Construction . . . . . January 2010
Centennial Channel West - Grand Teton Overpass, Construction. . . . . January 2010
Elkhorn Springs and Buffalo Storm Drain, Construction . . . . . February 2010
North and South Environmental Enhancement Areas at Floyd Lamb Park, Design . . . . . October 2008
Floyd Lamb Park N Environmental Enhancement Area, Construction. . . . . August 2010
Floyd Lamb Park S Environmental Area and Racel Street Collector, Construction . . . . . August 2010
Freeway Channel - Owens Avenue to Miller Avenue, Design . . . . . May 2009
Freeway Channel - Owens Avenue to Miller Avenue, Right-of-Way . . . . . May 2009
Gowan Outfall, Lone Mountain Branch (Rancho Drive to Decatur Boulevard), Design . . . . . February 2009
Grand Teton Overpass - Storm Drain, Design . . . . . October 2008
Horse Interchange, Construction . . . . . October 2010
Jones Boulevard - Alta to Borden Storm Drain, Local Drainage Project, Construction . . . . . July 2009
Las Vegas Wash - Decatur Boulevard (Centennial Parkway to Farm Road), Design . . . . . November 2008
Las Vegas Wash - Decatur Boulevard, Elkhorn Road to Farm Road, Construction. . . . . October 2009
Las Vegas Wash - Elkhorn (Bradley Road to Jones Boulevard), Design . . . . . November 2008
Las Vegas Wash - Elkhorn (Torrey Pines Drive to Jones Boulevard), Design . . . . . November 2008
Las Vegas Wash, Grand Teton, Mountain Spa Drive to Buffalo Drive, Design . . . . . August 2010
Las Vegas Wash, Grand Teton, Buffalo Drive to Durango Drive, Design . . . . . March 2011
Las Vegas Wash - Jones Boulevard, Elkhorn Road to Farm Road, Design . . . . . July 2008
Las Vegas Wash - Jones Boulevard, Elkhorn Road to Farm Road, Construction . . . . . October 2009
Las Vegas Wash - Rainbow, Elkhorn Road to Farm Road, Construction . . . . . May 2010
Las Vegas Wash - Rainbow (Elkhorn Road to Grand Teton Drive), Design . . . . . February 2009
Oakey Boulevard and Tenaya Way Storm Drain, Local Drainage Project, Construction . . . . . December 2008
Oakey - Meadows Storm Drain, Design . . . . . December 2008
Oakey Drain, Birch Street to Cahlan Drive, Design . . . . . July 2008
Oakey Drain, Birch Street to Cahlan Drive, Construction . . . . . November 2009
Owens Avenue System (Vegas Drive Storm Drain) - Michael Way to Rancho Drive, Design . . . . . January 2009
Owens Avenue System (Vegas Drive Storm Drain) - Michael Way to Rancho Drive, Const. . . . . May 2010
Rancho Road System - Beltway to Echelon Point, Design. . . . . June 2011
Simmons Street Drainage Improvements - Carey to Craig, Design and Right-of-Way . . . . . January 2009
Simmons - Cheyenne Avenue to Carey Avenue, Right-of-Way . . . . . January 2009

Mesquite

Town Wash Conveyance, I-15 to Virgin River, Design. . . . . July 2009

North Las Vegas

Colton Channel, Design . . . . . November 2008
Brooks Channel, Design . . . . . September 2008
Brooks Channel, Construction . . . . . March 2011
Las Vegas Wash - Lake Mead Boulevard to Las Vegas Boulevard, Design . . . . . November 2009
Las Vegas Wash Main Branch, Cheyenne Avenue to Lake Mead Boulevard, Design. . . . . December 2008
Tropical Parkway Channel East, Design . . . . . March 2009



REGIONAL FLOOD CONTROL DISTRICT MEMBERSHIPS

Alert User's Group • American Meteorological Society • American Public Works Association • American Society for Public Administration • American Society of Civil Engineers • Association of State Dam Safety Officials • Association of State Floodplain Managers • City-County Communications and Marketing Association • Construction Managers Association of America • Floodplain Management Association • Government Finance Officers Association • International Association of Business Communicators • Las Vegas Valley Watershed Advisory Committee • National Association of Flood and Storm Water Management Agencies • National Association of Government Communicators • National Hydrologic Warning Council • National Society of Professional Engineers • Nevada Hazard Mitigation Planning Committee • Nevada Taxpayers Association • Public Relations Society of America • Society for Human Resources Management • Southern Nevada Home Builders Association • UNLV Civil and Environmental Engineering Department Advisory Board • Women in Communications

SPECIAL DISTRICT RECOGNITION 2007-2008

2007 Government Finance Officers Association (GFOA)

Distinguished Budget Presentation Award for the District's Fiscal Year 2007-08 Budget and Financial Plan

2007 Women in Communications Electronic Media Awards

2nd place award for "The Flood Channel – Behind the Scenes"
2nd place award for the "Don't Trash Clark County" public service announcement

2007 Public Relations Society of America Pinnacle Awards

1st place Pinnacle Award for "The Flood Channel – Flood Control's Washington, D.C. Connection"
1st place Pinnacle Award for the 2005-06 Annual Report
2nd place Award of Excellence for the 2007 Flood Safety News Conference
2nd place Award of Excellence for the 2007 Spanish Language Flood Safety Campaign

2007 International Association of Business Communicators

2nd place Award of Excellence for "The Flood Channel – Cheering for Flood Control"
2nd place Award of Excellence for the 2006-07 Annual Report
2nd place Award of Excellence for the Flood Safety Billboard Campaign

2007 MarCom Awards

1st place Platinum Award for the 2005-06 Annual Report
1st place Platinum Award for "The Flood Channel – Putting Together the Puzzle"
2nd place Gold Award for the "Don't Trash Clark County" public service announcement
3rd place Honorable Mention for "The Flood Channel – Flash Flood Season"

2007 National Association of Stormwater Management Agencies Communications Contest

1st place award for Excellence in Overall Communication Flood Safety and Stormwater Quality

2007 Ava Awards

1st place Platinum Award for the "Desert Floods School DVD"
2nd place Gold Award for the "Don't Trash Clark County" public service announcement
2nd place Gold Award for "The Flood Channel – Putting Together the Puzzle"
3rd place Honorable Mention for "The Flood Channel – Flood Control's Washington, D.C. Connection"

2008 Bronze Quill Awards

2nd place Award of Excellence for "The Flood Channel– Cheering for Flood Control"
2nd place Award of Excellence for the 2006-07 Annual Report
2nd place Award of Excellence for the 2007 Flood Safety Billboard Campaign

National Association of Government Communicators, 2008 Blue Pencil and Gold Screen Awards

2nd place for the "Don't Trash Clark County" public service announcement
2nd place for "The Flood Channel – Flood Safety"

2008 Hermes Creative Awards

1st place Platinum Award for the 2006-07 Annual Report
2nd place Gold Award for "The Flood Channel– Generations to Come"

2008 Communicator Awards

2nd place Award of Distinction for the "Don't Trash Clark County" public service announcement
2nd place Award of Distinction for "The Flood Channel— Flood Control's Washington, D.C. Connection"
2nd place Award of Distinction for "The Flood Channel – Flood Safety"

2008 Videographer Awards

2nd place Award of Distinction for the "Don't Trash Clark County" public service announcement
1st place Award of Excellence for the Legislative White Paper DVD
2nd place Award of Distinction for "The Flood Channel– Cheering for Flood Control"
3rd place Honorable Mention for "The Flood Channel– Generations to Come"

REGIONAL FLOOD
CONTROL DISTRICT

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LAS VEGAS VALLEY MASTER PLAN

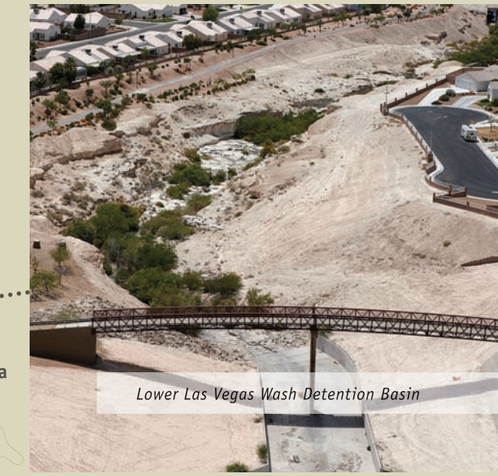
REGIONAL FLOOD CONTROL DISTRICT

LEGEND

Conveyances	Basins
COMPLETED	
TEN YEAR	
PROPOSED	

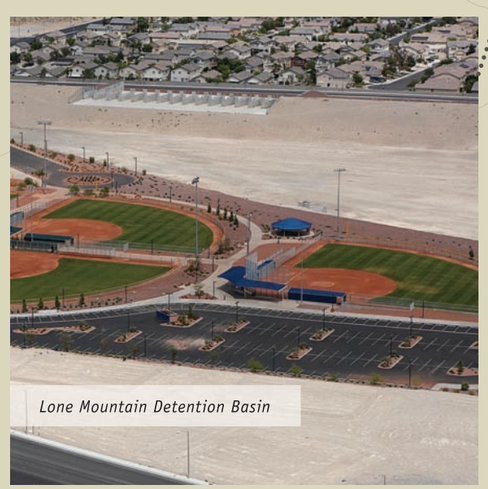
N

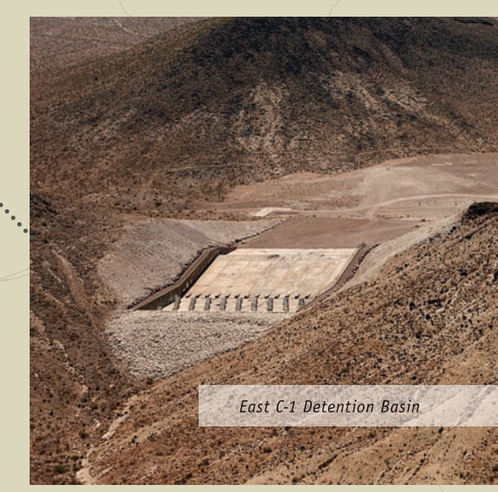
RFCD Service Area Includes all of Clark County


Lower Las Vegas Wash Detention Basin

Ann Road Detention Basin

Pioneer Detention Basin


Lone Mountain Detention Basin


East C-1 Detention Basin

Las Vegas Wash Entering Lake Mead

(fold out)
LAS VEGAS VALLEY MASTER PLAN MAP

Photography by Geri Kodey • Design by Lund Marketing Enterprises