

**ANNUAL
REPORT
2022**



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EXECUTIVE DIRECTOR'S MESSAGE

RWC Members and Interested parties –

2022 was another big year for the RWC, our Members, Associates, and Conditional Participants. Although the ongoing pandemic still had lingering effects on our work, the RWC has fully adjusted to the “new normal” of hybrid workplaces, without seeing any loss in productivity, efficiency, or accountability. Through the end of 2022, RWC staff have conducted well over 300 teleconference meetings, ranging from small, daily staff meetings to large, multi-jurisdictional conferences. With the significant geographic area that encompasses the RWC, we hope that the hybrid meeting options will help us maintain the high level of engagement from all our partners that we have seen over the past two years. Although most of our meetings were held remotely during 2022, we have developed and deepened relationships with more new partners and agencies which will serve the cooperative well moving into the future. Two of these which are noteworthy are the Emergency Responder Radio Communication System (ERRCS) collaboration with the Fire Marshal’s offices throughout the Valley, and welcoming the U.S. Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) as the RWC’s first Long-Term Conditional Participant (LTCP). Despite supply chain challenges posed by the pandemic, the RWC continued to support several ongoing site-related projects in Goodyear, Surprise and Wickenburg to ensure sustainable and integrated system expansion. The RWC also partnered with the City of Tolleson to jointly construct a new site which replaced a costly leased site nearby. This project was managed entirely in-house by the Phoenix Radio Shop and, thanks to excellent cooperation from the City of Tolleson, was completed in less than a year.



RWC staff members remained stable in 2022, with all our staff continuing to grow within their respective roles, with two necessary reclassifications happening within the RWC Administration. Almira Santos was promoted from Accountant III to Accountant IV, and Nicholas Roosevelt was promoted from Management Assistant (MA) I to MA II. While the Phoenix Radio Shop faced the nationwide challenges of recruitment and retention, we are very pleased to communicate that they were able to fill both the ERRCS and the Network Transport positions. These positions are critical to managing safe growth across the Valley, and the challenges coming to the Network in 2023 in the form of Ethernet Backhaul migration. The RWC Staff continues to assist in any way to ensure that technical and operational challenges are met as effectively as possible.



EXECUTIVE DIRECTOR'S MESSAGE (continued)

We greatly appreciate all the efforts of the Phoenix Radio Shop, Network Operations Center, other supporting Phoenix Departments, including Finance and Budget & Research, as well as technical representatives from our Member agencies. It should be noted that the Radio Shop's Network Transport Manager was awarded the individual Employee Recognition Award, and the RWC was chosen to be one of the key performance metrics for the new City Manager's Dashboard. While only two of many accolades, this recognition illustrates the quality of the Network and our people.

The RWC remains engaged in the regional Urban Area Security Initiative (UASI), and as we wrap up our Interference Detection System grant, we look for further opportunities, both in the Interoperable Communications and Cyber Security arenas. The RWC has been fully engaged in the upcoming Super Bowl LVII preparations, on all levels from the Core and Interoperable subcommittees to the Multi Agency Coordination Center (MACC). The Operations & Conventional Working Groups as well as the Radio Shop continue to provide excellent assistance for other regional events and coverage issues. I could not be more pleased by our staff, committees, and teams for their continued commitment to cooperation and regionalism.

The RWC spent a great deal of time in 2022 preparing for the future. Most importantly, the network-wide migration from T1 lines to Ethernet. This is the first major RWC project since the Time Division Multiple Access (TDMA) project and has required extensive groundwork. The RWC implements new technology in a measured and thoughtful approach and 2023 will be the year that we begin the migration. This change in backbone will not only enable the RWC to continue receiving the bi-annual SUA-II upgrades from Motorola but will also allow our members to take advantage of new cloud-based platforms and subscriber features. However, these valuable and innovative tools come with new vulnerabilities that are designed to be addressed by this project. The research gathered both regionally and nationally give us confidence that the Board approved solution will be a successful first step. Like all Networks, we will continue to manage our current projects while keeping a close eye on the future to maintain a resilient and secure mission-critical system.

A handwritten signature in black ink that reads "John Imig".

John Imig, Executive Director
Regional Wireless Cooperative



BACKGROUND

The VHF communications system formerly used by the City of Phoenix’s public safety and other departments was based on outdated technology and was no longer able to meet the operational needs of its users. After much study and several consultants’ recommendations, the city replaced the existing system with an APCO¹ Project 25, 800 MHz digital trunked radio system.

From this new system was formed the Phoenix Regional Wireless Network (PRWN) and began transitioning Phoenix Police, Fire and municipal departments to the new system. PRWN was intended to be a regional radio system supporting the City’s operations as well as the Fire Department’s automatic aid partners.

In 2008, with a clear understanding of what local government entities in the valley wanted from a regional communications system, PRWN was dissolved and became the Regional Wireless Cooperative, or RWC, with all new governance, policies, and procedures. The RWC now oversees the administration, operation, management, maintenance, and growth of this regional communications network.

Governance

The RWC is a cooperative body formed under a series of Intergovernmental Agreements. Membership is open to all local, state, federal governmental and tribal entities and currently includes most of the communities in the Phoenix metropolitan area. Governance provides for a Board of Directors consisting of one executive representative from each Member. The Board directs the operation, maintenance, planning, design, implementation, and financing of the RWC.

The City of Phoenix serves as the “Administrative Manager” responsible for the administration and financial management of the RWC. Four administrative staff positions support the RWC: Executive Director, Accountant IV, Management Assistant II, and Administrative Aide. RWC staff are City of Phoenix employees residing in the Office of Government Relations.

¹ APCO – The Association of Public-Safety Communications Officials is the world’s oldest and largest organization of public safety communications professionals and supports the largest U.S. membership base of any public safety association. It serves the needs of public safety communications practitioners worldwide - and the welfare of the general public as a whole – by providing complete expertise, professional development, technical assistance, advocacy and outreach (via APCO website).



SYSTEM DESCRIPTIONS

700 MHz Trunked: The first is a trunked system based on the APCO P25, Phase II Standard. This network is a Motorola ASTRO 25™, Integrated Voice and Data system. It operates in the 700 MHz frequency band and uses standard Simulcast, IP Simulcast, and individual site trunking. The network consists of eight (8) major simulcast subsystems and ten (10) Astro Site Repeaters (ASRs) utilizing over 60 sites across the valley floor and surrounding mountains, providing wide area coverage across the entire metropolitan area.

Some of the benefits of this regional system include wide area coverage beyond what agencies could achieve individually; seamless *interoperability* (the ability for diverse public safety agencies to communicate directly, in real-time, as the need requires); shared resources, such as people, equipment and tower sites and funding and financial responsibilities shared by all members based on their relative size.

VHF: In 2019, the RWC assumed responsibility for the second system, which is a VHF simplex system that serves the region's fire departments as an adjunct to the RWC trunked system. This system, previously under the responsibility of the Phoenix Fire Department, is for enhanced communication during hazard-zone operations (Fires, Hazmat, Special Operations) where fireground communications are essential for public safety operations. The VHF system is comprised of 15 simplex channels utilizing 71 transmit and/or receive sites across the valley. RWC Fire Member agencies are billed separately for the use/maintenance of the VHF system, which is maintained entirely by the two RWC Maintenance Manager agencies (Phoenix, Scottsdale).



INTEROPERABILITY

The RWC system provides a platform on which to build interoperability with many other agencies. Because of the regional nature of the system, significant grant funding has been made available to increase the regional use of the system and reduce the cost of membership in the RWC. Grants have been used to link the many dispatch centers, also known as Public Safety Answering points (PSAPs), in the Valley; add the City of Tempe to the network; increase system capacity to allow greater roaming and interoperability; add several mountain sites to be used for very wide-area coverage, emergency backup and wide area interoperability; provide connectivity to Peoria's new system; and provide cache radios to be used for emergencies.

The RWC system has been effectively used to provide interoperable communications for numerous special events in the metropolitan area. The system provided support for the annual Fiesta Bowl, BCS championship, two Super Bowls, and NBA and MLB All Star games. The Super Bowl games clearly demonstrated the need for a truly regional radio system and prompted more discussions between the metropolitan cities regarding more effective use of the RWC.

Many non-members of the RWC have programmed radios to allow them to interoperate with RWC members and other agencies around the Valley. These agencies include members of federal, tribal, state, county, local, quasi-government, and support agencies:



INTEROPERABILITY (continued)

Interoperability Participants

Ak-Chin Fire Department	Drug Enforcement Agency
Arizona Air National Guard	Federal Bureau of Investigations
Arizona Army National Guard	Fort McDowell Yavapai Nation Fire Department
Arizona Attorney General's Office	Gila River Indian Community
Arizona Department of Corrections	Grand Canyon University Police Department
Arizona Department of Game and Fish	Luke Air Force Base
Arizona Department of Health Services	Maricopa County Adult Probation
Arizona Department of Juvenile Corrections	Maricopa County Attorney's Office
Arizona Department of Liquor Licenses and Control	Maricopa County Department of Emergency Management
Arizona Department of Public Safety	Maricopa County Department of Transportation
Arizona Department of Transportation	Maricopa County Judicial Branch Security Department
Arizona Division of Emergency Management	Maricopa County Juvenile Probation Department
Arizona State University Police Department	Maricopa County Office of Enterprise Technology
BNSF Railway Police Department	Maricopa County Sheriff's Office
Bureau of Alcohol, Tobacco, Firearms and Explosives	Pinal County Sheriff's Office
Bureau of Land Management	Rural Metro Fire Department
Carefree Fire Department / Rural Metro	Salt River Pima Maricopa Indian Community
Casa Grande Fire Department	Topaz Regional Wireless Network (TRWC) Members
Cave Creek Marshal's Office	Union Pacific Railroad Police Department
Circle City / Morristown Fire District	United States Marshals Service
Community Bridges, Inc.	Yavapai County Sheriff's Office
Department of Homeland Security - Investigations (HSI)	
Department of Homeland Security – Tucson Air Branch	



The Mission of the Regional Wireless Cooperative (RWC) is to provide seamless operable and interoperable communications for all Members through a governance structure founded on the principle of cooperation for the mutual benefit of all Members.

In November of 2010, the newly formed staff of the RWC, as a component of the City of Phoenix's Government Relations Department, met to develop a strategic plan to assist them in serving the needs of RWC Members, Board of Directors, Executive Committee and other work groups. The following Value Statements are intended to focus staff's efforts and memorialize their commitment to support the RWC Mission:

We Are Dedicated to Serving Our Customers

We succeed by responding to and focusing our attention on the needs of our customers.

We Value and Respect Diversity

Understanding diversity helps us to work together and serve our communities.

We Work as a Team

Teamwork is the basis of our success. We use cooperation as our first tool in working with others.

We Each Do All We Can

We each have the opportunity and responsibility to develop and use our skills to the highest level.

We Learn, Change and Improve

We are open to new methods and we listen and learn from others. Training and education are the basis for our success.

We Focus on Results

Each of us knows the level of our customer satisfaction, our response time in delivering services and the cost of those services. We use information about the results we provide so we can improve.

We Work with Integrity

Whenever we make a decision, provide a service or deal with customers, we act with honesty and integrity.

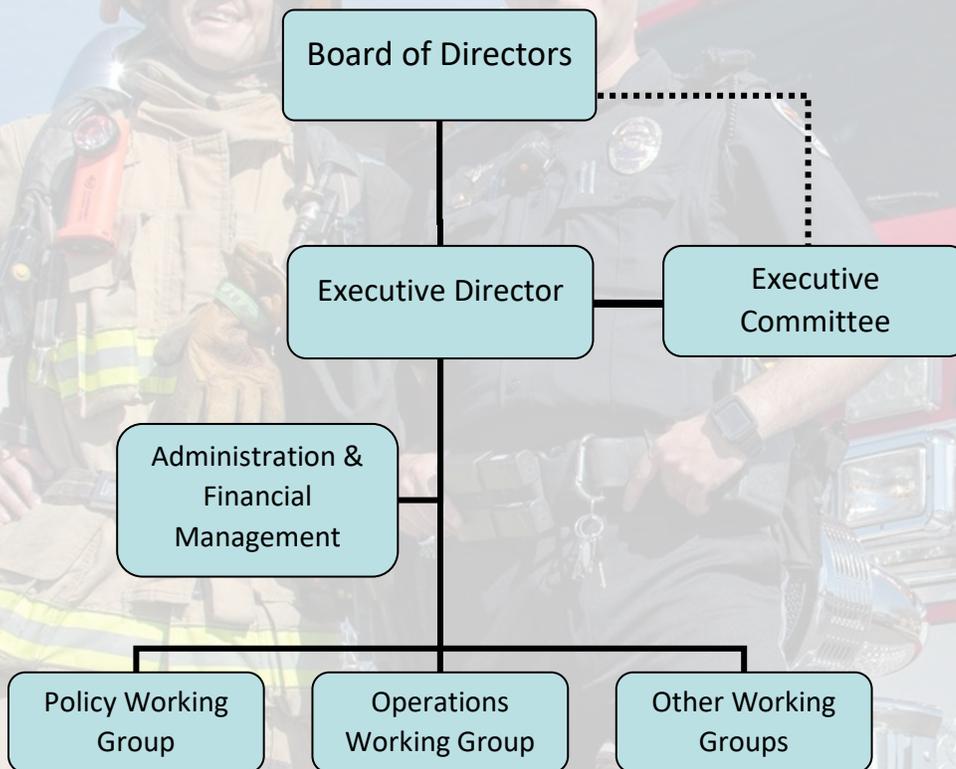
We Make the RWC Better

We work to make the RWC better. Improving the RWC is the reason we come to work each day.



ORGANIZATIONAL STRUCTURE

The RWC is governed by a Board of Directors, with all members of the RWC having a seat and a vote on the Board. The Executive Director reports to the Board of Directors and serves as a non-voting member of the Executive Committee. The Executive Director is supported by the Executive Committee, the Operations, Conventional, and other Working Groups, in addition to three staff positions who assist with the administration and financial management of the RWC. The Executive Director and staff are City of Phoenix employees residing in the Office of Government Relations.





FIRE AND EMS





LAW ENFORCEMENT

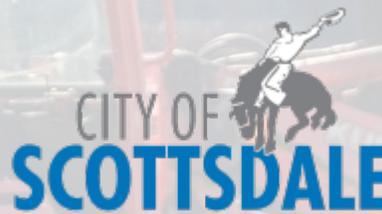




MUNICIPAL SERVICES



City of Phoenix





BOARD OF DIRECTORS (2022)

Chair

Paul Luizzi
Fire Chief
City of Goodyear

Vice Chair

James Hughes
Police Chief
City of Maricopa

Mark Burdick
Fire Chief
Arizona Fire and
Medical Authority

Jeff Scheetz
Chief Information Officer
City of Avondale

Greg Platacz
IT Director
City of Buckeye

Joe Hester
Assistant Fire Chief
Buckeye Valley Fire District

Val Gale
Assistant Fire Chief
City of Chandler

Alan Zangle
Deputy Fire Chief
Daisy Mountain Fire District

Paul Marzocca
Police Chief
City of El Mirage

Milton 'Douglas' Wiener
Police Chief
Federal Reserve Bank of
San Francisco

Rick St. John
Deputy City Manager
City of Glendale

Wayne Clement
Fire Chief
Town of Guadalupe

Jeff McMenemy
Fire Chief
Harquahala Fire District

Roy Stanifer
Communications and
Records Manager
Maricopa Community
College District

Michael Cole
Commander
Town of Paradise Valley

Kris Dalmolin
Information Technology Director
City of Peoria

Steen Hambric
Chief Information Officer
City of Phoenix

Bianca Lochner
Chief Information Officer
City of Scottsdale

Rob Schmitz
Fire Chief
Sun City Fire & Medical

Tracy Montgomery
Deputy City Manager
City of Surprise

Andrea Glass
Assistant Fire Chief
City of Tempe

Ginger Sanabria
PD Support Services
Manager
City of Tolleson

Les Brown
Police Chief
Town of Wickenburg



EXECUTIVE COMMITTEE

The purpose of the Executive Committee is to provide high level expertise in communications and operations, advise the Board of Directors, help direct the efforts of the Executive Director and provide intermediate strategic direction for the RWC. Functions of the Executive Committee include review and approval of all proposals and recommendations, budget and financial reports, Network performance reports, and Board of Directors meeting agendas prior to submittal to the Board of Directors. The Executive Committee also identifies performance issues and recommendations for Network enhancements and construction.

The Executive Committee consists of five Representatives appointed by the Board of Directors, plus the Executive Director who is a non-voting member. Representatives, selected from the RWC Membership, consist of one (1) Police Department executive manager; one (1) Fire Department executive manager; one (1) Municipal executive manager; one (1) Chief Information Officer (or equivalent); and one (1) executive manager from the Administrative Managing Member. The Executive Committee may not be comprised of Representatives from only one Member and every two years the Board of Directors reviews the Executive Committee representation. The Executive Committee Chair serves a two-year term.

The Executive Committee conducts regularly scheduled meetings at least once monthly prior to the Board of Directors meeting.

Executive Committee Members

Chair

Jeff Schripsema
Deputy Fire Chief
City of Phoenix
Fire Service Representative

Vice-Chair

Mike Gent
Deputy City Manager
City of Surprise
Municipal Services Representative

Feroz Merchhiya
Chief Information Officer
City of Glendale
Information Technology Representative

Area Representatives

Jesse Cooper
Police Administrator
City of Phoenix
Police Representative

Tom Grebner
Wireless Communications Manager
City of Phoenix
Administrative Manager Representative



OPERATIONS AND CONVENTIONAL WORKING GROUPS

The Combined Conventional and Operations Working Groups (CWG/OWG) are responsible for addressing network services, operations and maintenance issues, performance issues, Impact Assessments, and other Network technical matters for both the Trunked and VHF systems. The group consists of Member agency technical and operational practitioners and pursuant to the governance Subsection 2.2.12, are tasked with the following: discussing and/or providing operational or field input regarding RWC Network use and performance; sharing knowledge and experience; receiving input from RWC department delegates, industry providers or RWC management (or RWC management designee); and conduct other related activities. Currently, the group meets monthly, and the meeting is facilitated by the Executive Director. These meetings provide a forum to address issues large and small and their importance cannot be overstated.

Operations Center
Entrance



POLICY WORKING GROUP

The Policy Working Group (PWG) is responsible for developing, reviewing (every policy and procedure must be reviewed at least every two (2) years) and modifying RWC policies and procedures. The PWG consists of representatives from Member agencies and meets monthly or as required throughout the year. Policies and procedures completed by the PWG must be approved by the Operations Working Group, Executive Committee or Board of Directors prior to implementation. This year, the PWG worked to find a way to allow Federal Partners to take advantage of our robust Network while understanding their inability to join as full-fledged Members. This work spearheaded by staff, the Policy Working Group and the Board allowed the ATF to become the first Long-Term Conditional Participant user of our system and we expect to see growth in this category

Notably, the PWG also addressed a serious safety concern regarding the in-building treatment on large campus style building projects. Prior to the committee's work, a campus could be treated with multiple Bi-Directional Amplifiers, each in turn creating so much signal disruption that they could negatively impact the system and render each other useless. After significant national research and cooperation from the Valley Fire Marshals, the PWG drafted a new policy requiring campus style buildings to be tied together on a single system. This will result in markedly safer buildings for the region and our responders.



FINANCIAL MANAGEMENT

The responsibilities and tasks of managing the financial well-being of The Regional Wireless Cooperative includes Fund management, Budget Development, Subscriber Unit Rates and Fees, Member Billing, Procurement, Financial Reporting and Financial audit

Budgetary Information for Fiscal Year 2021-22 and 2022-23

RWC Trunked Network Annual Budget	FY 2021-22	FY 2022-23
Operations, Maintenance and Staffing	\$ 7,935,103.00	\$ 8,235,398.00
System Upgrade (SUAll)	\$ 2,791,148.00	\$ 2,820,074.59
700MHz Narrow Banding, TDMA, Lifecycle Upgrade	\$ -	\$ -
Required Minimum Balance	\$ -	\$ -
Total Budget	\$ 10,726,251.00	\$ 11,055,472.59
Subscriber Unit* ² Rate	\$ 33.46	\$ 34.48
Total Positions (Administrative Staff)	4	4

RWC Conventional Network Annual Budget	FY 2021-22	FY 2022-23
Operations, Maintenance and Staffing	\$ 484,269.00	\$ 491,013.00
Special Assessment	\$ 351,180.00	\$ 351,180.00
Required Minimum Balance	\$ -	
Total Budget	\$ 835,449.00	\$ 842,193.00
Subscriber Unit* Rate	\$ 10.28	\$ 9.72

² * Includes: mobile and portable radios, dispatch consoles and control stations.



FINANCIAL MANAGEMENT (continued)

Funding

The RWC is funded through annual membership fees and special assessments from the Members. The annual membership fees are used to pay for administrative services, network operations and maintenance services, network infrastructure replacement, and system upgrades.

Operations, Maintenance, and Staffing Costs

The operations, maintenance, and staffing portions of the budget are used to pay for the cost of maintaining and staffing the RWC Network. Operations and maintenance expenditures include labor costs related to network operations and maintenance, microwave expenses, and software subscription and service agreements contracted through Motorola. Other costs include land leases, utilities charges, insurance premiums, and maintenance managing member expenses. Staffing includes costs associated with the RWC Executive Director and the support staff. Such costs include salaries for staff and an Encryption Specialist, and office expenses.

Capital Improvement Project Fund

Funds budgeted for system upgrades, infrastructure replacement and other long-term capital improvement projects (CIP) are accounted for in this fund. Funds from RWC members deposited into the CIP Fund are included in determining RWC Members' equity percentages.

Operating Fund Contingency

The Operating Fund Contingency is used to provide a contingency for the cost of operating and maintaining the communications network. Member billing for the required minimum balance is accounted for in an RWC operating reserve fund.

Equity

Members of the RWC who contributed assets or funds to pay for RWC infrastructure have equity in the RWC. The total Members' equity in the RWC is equal to the Net Position of the RWC.



FINANCIAL MANAGEMENT (continued)

Awards

The Government Finance Officers Association of the United States and Canada³ ("GFOA") awarded a Certificate of Achievement for Excellence in Financial Reporting to the RWC for its comprehensive annual financial report for the fiscal year ended June 30, 2021. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government financial reports. The RWC has won this award every year since 2012 and has already submitted for FY22.



³ <https://www.gfoa.org/>



PROJECTS AND MAJOR INITIATIVES

Below are just a few of the projects and initiatives undertaken by the RWC in 2021-2022. They were aimed at increasing radio coverage, reliability, and efficiency. They not only showcase the Regional Wireless Cooperative as a highly reliable public safety radio communications system, but also, they highlight our commitment to equity and regional partnership.

COMPLETED IN 2022

SUA-II Logging Recorder Upgrade Contract

The Board of Directors approved staff recommendations to allow members to optionally include logging recorders in the Motorola SUA-II agreement, regardless of brand, and to bill the user agency directly. Previously, only one brand of logger was included in the SUA-II and it was being paid for by all of the Members regardless of use. The RWC, after significant negotiations with Motorola Solutions Inc, and the City of Phoenix Procurement Department, finalized this long-term upgrade contract.

Tolleson Wastewater Treatment Plant Site

The RWC is working to move off the leased space at the Cashion site to a new tower at the Tolleson Wastewater Treatment Plant. This move should not only provide better security and access, but it also will end an expensive lease recouping its moving costs in approximately six (6) years. The project was finished quickly and was managed entirely in-house. The cooperation between the Radio Shop and the City of Tolleson was a shining example of regional cooperation.

Urban Area Security Initiative (UASI) Grant

The RWC drafted and managed the submission of a multidepartment UASI grant for an Interference Detection System. It was awarded the full amount requested (\$150,000) and due to its viability and high priority, was chosen for reallocation funding within the current fiscal year. This will not only make the Network safer, but also it will result in cost savings for all Members. This project exemplifies the regional goals of the RWC and was made possible by the great collaboration of the RWC, Phoenix Police Department and the Phoenix Radio Shop. It was completed in 2022 and is being tested and expanded for a trial run during Super Bowl LVII in 2023.

Emergency Responder Radio Communication Systems (ERRCS)

The RWC Board of Directors approved the addition of an ERRCS specialist position in 2020. This position was filled, and the specialist provided support to all of our Members in regard to in-building treatments.



PROJECTS AND MAJOR INITIATIVES (continued)

RWC Transport Specialist

In December 2021, the Board of Directors approved the addition of a Transport Specialist tasked with ethernet backhaul. This position is critical to meeting the Motorola Ethernet Upgrade. It was filled in early Calendar Year 2022.

RWC Network Security Review

In 2021, the Phoenix Radio Shop underwent an extensive technical audit. This resulted in some very helpful recommendations, including reviewing our Network Security. The RWC conducted an in-depth review of our policies, procedures, best practices, and security needs. The Policy Working Group spearheaded this project and worked with the member agencies as well. This review was completed in CY 2022 and resulted in significant policy changes.

IN PROGRESS

City of Buckeye

The RWC continues to work with Buckeye on a new RWC subsite for Simulcast J. This is planned to replace a current leased site that has an annual cost to the RWC. This project is moving forward and will continue into CY 2023.

City of Surprise

Surprise is in the process of installing a new Simulcast G subsite which will be located at a new fire station in the northwest part of the city. This site will also include Fire VHF (Hazard Zone) equipment. This project will continue in CY 2023.

TDMA Migration

With the TDMA upgrade completed, the network continues to convert talkgroups that have TDMA compliant radios to TDMA 'dynamic dual' mode. At this point, our members continue to work toward utilizing TDMA. Some agencies have reached 100% and others are still preparing for the shift. Currently, 36.81% of all talkgroups have been converted to dynamic-dual mode.

Leased Lines Replacement

The RWC continues to work to move the Network off leased T-1 lines. The Phoenix Radio Shop is working with each agency affected by these moves and will be working on this transition throughout 2023.



PROJECTS AND MAJOR INITIATIVES (continued)

Ethernet Upgrade

Motorola is mandating that the RWC network must be 100% Ethernet backhaul compliant by the end of CY 2022. Phoenix Radio Shop staff are replacing networking equipment and microwave radios to meet this requirement. The addition of the Backhaul Specialist position will provide significant support on this project. The RWC continues to work with Motorola to ensure that the upgrade costs are contained, and the integration is smooth. The RWC Board of Directors were presented and approved a comprehensive solution including a funding plan in Calendar Year 2022. Staff is working with the City of Phoenix to procure all needed contracts and will be initiating the work in Calendar Year 2023.

Scottsdale Microwave and VHF Replacement

Scottsdale continues to replace their legacy microwave connections between sites, as well as installing new VHF (Fire Hazard Zone) radio equipment. This project is targeted for completion in Calendar Year 2023.

Town of Wickenburg

Wickenburg, one of our newest members, is currently in the process of building a new site and facilities to begin using the network. In 2021, the Town Council voted to approve the contract and begin work. The RWC provided significant technical and oversight support and will continue to work closely to ensure their integration into the Network. This work will continue throughout Calendar Year 2023.

Burton Barr Library

The RWC has been working closely with the Phoenix Library Department and Phoenix Fire to relocate a VHF site to this location from an existing fire station. This should not only reduce costs, but also provide the needed Motorola ethernet requirements.

City of Maricopa

The RWC has been working with the City of Maricopa to help address coverage issues near their Fire Station 572. There are plans to install an RWC site at this location, which should be completed in Calendar Year 2023.



SYSTEM PERFORMANCE

Radio Counts

Radio counts give a generalized picture of the size and relative volume of the system. Radios on the system include all consoles, control stations, portables, and mobiles. They also include radios used by the RWC Members and those radios used by outside agencies for interoperability. Radio counts are updated quarterly, and the last year's totals are shown below:

RWC Trunked Network

FY 2021/22	July	October	January	April
Member Total	19,902	19,909	19,897	20,035
Interoperability	21,395	21,828	21,889	22,234
Grand Total	41,297	41,737	41,786	42,269

RWC Conventional Network

FY 2021/22	July	October	January	April
Member Total	4,139	4,208	4,213	4,299



SYSTEM PERFORMANCE (continued)

Overall System Statistics

The following charts provide a compilation of the overall system statistics including the number of calls, system busies and emergency calls, including the total and average duration of each type of call. A busy signal occurs when a user tries to make a call, but all channel resources are in use and thus the user must wait to complete the call. An emergency call occurs when the user presses the emergency button on a radio. Grade of Service (GOS) for the system is also shown; GOS is explained in more detail in the next item. System statistics provide a general overview of system performance, but they cannot be used as the final guide since statistics must be viewed individually for each sub-system to truly see the performance from the user perspective. These statistics are not shown in this report since they are so voluminous.

FY 21/22 System Statistics	
Total Number of Calls	26,063,767
Total Call Duration (Hours)	61,576
Total Call Duration (Sec)	221,673,600
Average Call Duration (Sec)	8.50
Average Calls per Day	71,407
Total Busies	195
Busy Duration (Hours)	0.14
Total Busy Duration (Sec)	512
Average Busy Duration (Sec)	2.6
Average Busies per Day	0.5
Total Emergency Calls	2,523
Total Emergency Duration (Hours)	19.54
Total Emergency Duration (Sec)	71,574
Average Emergency Duration (Sec)	28.4
Average Emergencies per Day	6.9
FY 21-22 System Reliability	99.98%



SYSTEM PERFORMANCE (continued)

Grade of Service

Grade of Service (GOS) is a measure of how many times a user gets a “Busy” signal when a user “Pushes to Talk” (PTT) on their radio. GOS is measured in percent as the number of PTT’s where a Busy occurs divided by the total number of PTT’s. The design specifications for the RWC system is to maintain a GOS of 2% or less, which means that there will be only 2 Buses or less, out of each 100 PTT’s. GOS is measured on each Simulcast and Astro Site Repeater (ASR) subsystem. GOS reports are prepared weekly and the 2% GOS goal has not been exceeded on any subsystem. The following table shows the maximum GOS for the past year on each sub-system.

System Use

System Use shows the averages of how many of the system’s channels are used. It is shown as a percentage of the number of channels used divided by the total number of channels available for each Simulcast and Intelligent Site Repeater (ISR) subsystem.

Site Utilization / Grade of Service – FY 21-22

Site	Average Use	Peak Use	Average GOS	Peak GOS
ZONES				
Simulcast A (Phoenix PD)	29.77%	44.32%	0.000%	0.000%
Simulcast B (Phoenix Fire and Municipal Services)	21.21%	30.86%	0.000%	0.000%
Simulcast C (Southeast Valley)	22.32%	35.29%	0.000%	0.000%
Simulcast D (North Valley)	20.11%	35.37%	0.011%	0.570%
Simulcast F (Tempe)	14.10%	20.04%	0.000%	0.000%
Simulcast G (West Valley)	30.63%	47.80%	0.000%	0.000%
Simulcast H (Northeast Valley)	21.72%	33.27%	0.000%	0.000%



Simulcast J (Southwest Valley)	17.57%	28.52%	0.000%	0.000%
SITES				
Burnt Mountain	19.41%	29.82%	0.000%	0.000%
Mt Gillen	2.86%	6.13%	0.000%	0.000%
North Mountain	14.78%	28.37%	0.000%	0.000%
Quintero	1.15%	5.88%	0.000%	0.000%
Sacaton	7.55%	12.11%	0.000%	0.000%
Sky Harbor	10.38%	20.30%	0.000%	0.000%
South Mountain	16.94%	30.90%	0.000%	0.000%
Thompson Peak	10.06%	16.74%	0.000%	0.000%
Towers Mountain	9.40%	16.69%	0.000%	0.000%
White Tanks	11.50%	20.93%	0.000%	0.000%

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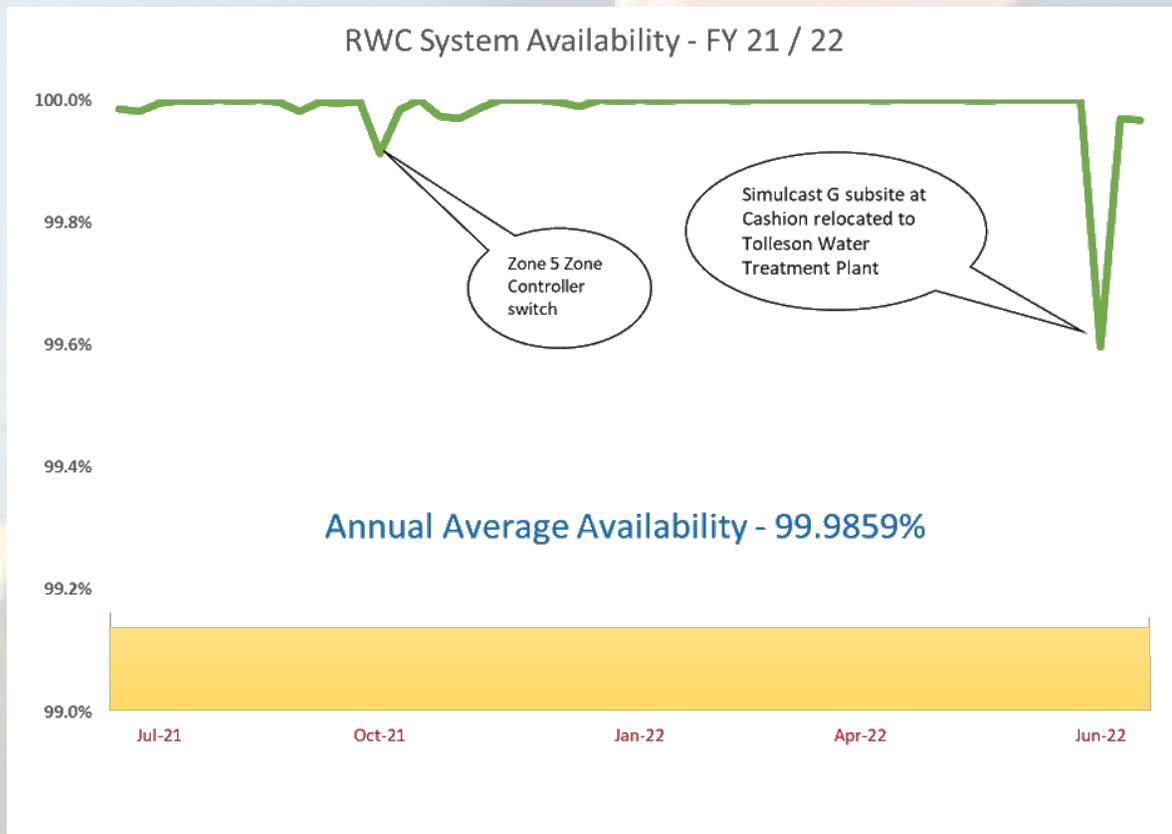
Glenda
ARIZONA



SYSTEM PERFORMANCE (continued)

System Availability

System Availability⁴ (SA) is a measure of the percentage of time that the system is operating normally, with no operational impact to the users. Since the system is made up of many Simulcast and ASR sub-systems, the SA is the combined availability of all these subsystems. The goal is to keep the system operating as close to 100% available from the user's perspective. Note that failures may occur to various components, but due to the system redundancy, there is no impact to the user. If SA is less than 100%, it may be due to a failure in a single subsystem, with the majority of the overall network remaining available to the users. System Availability for the RWC network for the twelve-month period of July 2021 through June 2022 is shown below:



⁴ The industry standard and baseline for system availability of public safety radio systems is 98.5%. The performance of the RWC Network is well above this standard. The scale above has been adjusted to a baseline of 100% to show performance values more easily.



CITY OF PHOENIX RADIO SHOP

The City of Phoenix is the Maintenance Managing Member for all RWC zones except Zone 3 (Simulcast H) which operates in and is managed by the City of Scottsdale. The Phoenix Radio Shop has 26 highly qualified, dedicated professionals that work diligently on behalf of the Network. They, along with our Member agencies' wireless communications staff leads are what ensures the Network functions at its highest level.

The City of Phoenix as the Administrative Manager of the Cooperative is responsible for tracking of all subscriber radios on the RWC network. This work is done by the City of Phoenix Radio Shop, which provides quarterly reporting of subscriber activity for operations and maintenance billing.





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Regional Wireless Cooperative

An Arizona Joint Venture

Annual Comprehensive Financial Report

For fiscal year ended June 30

2022



Annual Comprehensive Financial Report

For the Fiscal Year Ended June 30, 2022



Prepared by:

City Manager's Office

and

Finance Department

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Regional Wireless Cooperative

An Arizona Joint Venture

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Introductory section

December 6, 2022

To the Board of Directors of the Regional Wireless Cooperative (RWC), I am pleased to submit the RWC Annual Comprehensive Financial Report for the fiscal year ended June 30, 2022. These financial statements are prepared and presented in conformity with accounting principles generally accepted in the United States of America (GAAP) as prescribed in pronouncements of the Governmental Accounting Standards Board (GASB). To the best of our knowledge and belief, this report is accurate in all material respects and is reported in a manner designed to fairly present the financial position, results of operations and cash flows of the RWC. All disclosures necessary to enable the reader to gain an understanding of the RWC's net position and changes in net position have been included.

To the best of our knowledge and belief, this report is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of RWC. Management assumes full responsibility for the accuracy of the data and the completeness and fairness of the presentation, including all disclosures.

CliftonLarsonAllen, LLP has issued an unmodified ("clean") opinion on the RWC financial statements as of and for the year ended June 30, 2022. The independent auditors' report is located at the front of the financial section of this report. Management's Discussion and Analysis (MD&A) immediately follows the independent auditors' report and provides a narrative introduction, overview, and analysis of the basic financial statements. The MD&A complements this letter of transmittal and should be read in conjunction with it.

PROFILE OF THE REGIONAL WIRELESS COOPERATIVE

The RWC was formed in 2008 to oversee the administration, operation, management, and maintenance of an expanding regional communications network. The RWC was formed through an Intergovernmental governance structure founded on the principles of cooperation for the mutual benefit of all members and has expanded to serve a still-growing list of governmental entities who serve public safety needs.

The RWC is an independent, multi-jurisdictional organization throughout the Greater Phoenix Metropolitan Region which currently consists of 23 cities, towns, fire districts, and governmental agencies, as well as two Associate, one Long-Term Conditional and nearly 50 Interoperability Participating agencies. Member agencies include: Arizona Fire & Medical Authority, City of Avondale, City of Buckeye, Buckeye Valley Fire District, City of Chandler, Daisy Mountain Fire & Medical District, City of El Mirage, Federal Reserve Bank of San Francisco, City of Glendale, City of Goodyear, Town of Guadalupe, Harquahala Fire District, City of Maricopa, Maricopa County Community College District, Town of Paradise Valley, City of Peoria, City of Phoenix, City of Scottsdale, Sun City Fire & Medical District, City of Surprise, City of Tempe, City of Tolleson and the Town of Wickenburg.

The RWC comprises both a Motorola ASTRO 25™ 700 MHz digital trunked radio system, and a VHF Simplex system dedicated to Fire hazard-Zone operations. The 700Mhz system is a large, Public Safety-grade radio network based on the APCO Project 25, Phase I/II Standard, consisting of five (5) major simulcast subsystems and ten (10) Astro Site Repeaters (ASR's).

This regional radio communications network was built to serve the interoperable communication needs of first responders and other municipal radio users serving 3.5 million residents across 5,000 square miles of the Greater Phoenix Metropolitan Area. This system provides wide area coverage beyond what individual entities could achieve alone; seamless interoperability (the ability for diverse public safety agencies to communicate directly, in real-time, as the need requires); shared resources (i.e., people, equipment, and tower sites); shared funding; and increased success in obtaining state and federal grant support. Financial responsibilities are distributed amongst all members based on their number of subscriber units (radios) used on the network.

LOCAL ECONOMY

The City has grown steadily since its inception and has shown especially strong growth since 1950. In 1950, the City occupied 17 square miles with a population of almost 107,000, ranking it 99th among American cities. The 1990 census recorded Phoenix's population at 983,403 and the 2010 census recorded Phoenix's population at 1,447,128. As of June 30, 2022, the City encompassed 519.9 square miles, with the City of Phoenix estimating the City's population at 1,648,257.

Metro Phoenix, also known as the Valley of the Sun, is home to a strong and growing transportation system including one of the nation's 10 busiest airports, Sky Harbor International Airport. The airport provides service to more than 125,000 passengers with approximately 1,200 aircraft arriving and departing every day. Flights at Phoenix Sky Harbor

International Airport serve more than 115 domestic and 23 international destinations. Other features of the area transportation system are two major railways and excellent interstate highways and local freeways connecting the Valley to major markets and ports in western states and Mexico. The Metro Light Rail System currently covers 28 miles linking Mesa, Tempe, and Phoenix. Expansion plans will include service to south, west and northwest Phoenix.

The Valley has access to a labor pool of several million diverse workers and has a wealth of educational resources to educate new and existing talent. All three Arizona public universities have a presence in the Valley, along with many other public and private academic institutions offering undergraduate and graduate degrees.

Major employers range from hospitals and banks, to universities and aerospace manufacturers. Emerging industries include renewable energy, biotechnology, and data centers. Arizona has a well-managed water and power supply including an abundant supply of electricity from various sources, including the largest U.S. nuclear plant, dams, coal, and gas burning plants as well as wind and solar plants.

LONG TERM FINANCIAL PLANNING

As part of the ongoing program of system upgrades and capabilities, the RWC completed a major system software upgrade to version 7.18 in 2020. This upgrade was included in the RWC Five-Year Plan and budget that was submitted to the RWC Board of Directors. In addition, there are many product changes that occur as part of the life of the system. Motorola annually briefs the RWC on the product roadmap for the next five years. The roadmap includes key product changes where support for certain products will be ending, thus necessitating upgrades and/or changes in these products. The critical product changes that must be considered are those affecting base stations, consoles, and subscriber units.

Fire VHF System Billing

Fire agencies across the Phoenix Metropolitan Region utilize a VHF simplex (radio-to-radio) network for all “hazard zone” (e.g. fire/hazmat) operations. The VHF network operates on a similar, but separate infrastructure as the 700 MHz trunked system. The RWC is wholly responsible for oversight and billing responsibilities for the VHF network comprised of over 3,000 VHF-capable radios across the RWC.

MAJOR INITIATIVES

As membership of the RWC has continued to increase, the RWC has embarked on several projects focused on expanding the regional radio network and fortifying its coverage, resiliency, and reliability. The projects include the following:

New Members

In recognition of the value of the RWC as a state of the art, truly regional interoperable communications network, the RWC welcomed the Buckeye Valley Fire District, the Harquahala Fire District, the Federal Reserve Bank of San Francisco (the RWC’s first Federal Member Agency) and the Town of Wickenburg as its four newest members. The addition of these agencies means that the RWC is continuing to expand geographically for the benefit of all members as well as providing a higher level of communications which enhances public safety in these areas located in the outer reaches of the Greater Metropolitan Area.

“Burnt Mountain” Site

The Buckeye Valley Fire District (BVFD) funded expansion of the existing site on Burnt Mountain along Interstate-10 in the far West Valley. The improved site includes both 700 MHz trunked and Fire VHF equipment. The site provides significant improvement in coverage for responders along the busy stretch of Interstate-10 west of the Greater Metropolitan area.

City of Goodyear Site

The City of Goodyear completed a new site located within the center of Goodyear. This will improve coverage across the Southwest Valley for the rapidly growing municipalities in that area.

West Valley Sites

The Cities of Buckeye and Surprise are currently either in the planning or construction stages for new sites to improve coverage in support of growing development in their areas. These new sites will enhance coverage within their growing cities in the Southwest and Northwest Valley, respectively.

Emergency Responder Radio Communications System (ERRCS)

As construction efforts on new and remodeled commercial facilities continue to expand and grow, the RWC is increasingly focused on ensuring that our member agencies and their internal services are given the support for in-building treatments and coverage. The ERRCS program is assisting RWC agencies understand the coverage of the RWC radio networks and is providing updates and best practices to assist when new or remodeled buildings are possibly in need of treatments to enhance coverage inside those structures. This is an ongoing effort, with personnel, technology, policies and procedures underway to support this effort. Part of this ongoing effort is UASI (Urban Area Security Initiative) grant funding that was received in FY21 to support a new interference detection system. This system will allow the RWC to identify and locate sources of interfering signals which could cause disruption to the RWC network. This is a truly regional concern, with the RWC leading the effort to explore ways to further protect critical communications across the region, involving multiple partner agencies and systems.

RELEVANT FINANCIAL POLICIES

General

The City of Phoenix serves as the Administrative Managing Member, responsible for the administration and financial management of the RWC. As such, the RWC follows all administrative and financial management policies and procedures of the City of Phoenix. RWC has four full-time staff who are employed by the City of Phoenix.

Budgeting Systems and Controls

The RWC maintains budgetary controls, which are designed to ensure compliance with the provisions of the annual budget adopted by the RWC Board of Directors. The RWC budget process provides for input from the RWC Members and the Executive Committee in developing revenue and expenditure projections and determines RWC programs and services for the coming year.

Accounting and Administrative Controls

Internal controls are procedures that are designed to protect assets from loss, theft, or misuse; check the accuracy and reliability of accounting data; promote operational efficiency; and encourage compliance with managerial policies at a cost that does not exceed the benefits to be derived. Management of the RWC has established a system of integral internal controls designed to provide reasonable, rather than absolute assurance, that the financial statements are free of any material misstatements and that these objectives are met.

Federal and State financial assistance programs require recipients to comply with many laws and regulations. Administrative controls are procedures designed to ensure compliance with these requirements. The RWC has established a system of administrative controls to ensure compliance with the requirements of the programs under which it receives financial assistance. As with other internal controls, this system is subject to a periodic review and evaluation by management. As part of the annual audit process, internal controls are considered in order to determine the nature, timing, and extent of auditing procedures.

AWARDS AND ACKNOWLEDGEMENTS

The Government Finance Officers Association of the United States and Canada ("GFOA") awarded a Certificate of Achievement for Excellence in Financial Reporting to the RWC for its annual comprehensive financial report for the fiscal year ended June 30, 2021. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government financial reports.

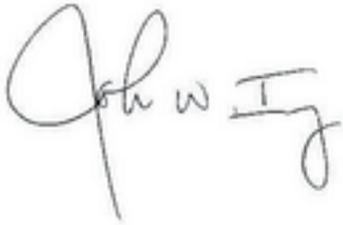
In order to be awarded a Certificate of Achievement, the RWC published an easily readable and efficiently organized annual comprehensive financial report. This report satisfied both generally accepted accounting principles and the applicable legal requirements.

I believe that our current annual comprehensive financial report continues to meet the Certificate of Achievement Program's requirements and are submitting it to the GFOA to determine its eligibility for another certificate.

I want to thank all the members of the RWC Board of Directors, the RWC Executive Committee, the City of Phoenix (City) Information Technology Services Department (ITS), and City Budget and Research Department (B&R) for their assistance throughout the past year. Special thanks to the City Finance Department for their assistance and support over the past year and in the preparation of this annual comprehensive financial report.

REGIONAL WIRELESS COOPERATIVE
AN ARIZONA JOINT VENTURE

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John W. Imig". The signature is written in a cursive style with a large initial "J" and "I".

John W. Imig
RWC Executive Director



Government Finance Officers Association

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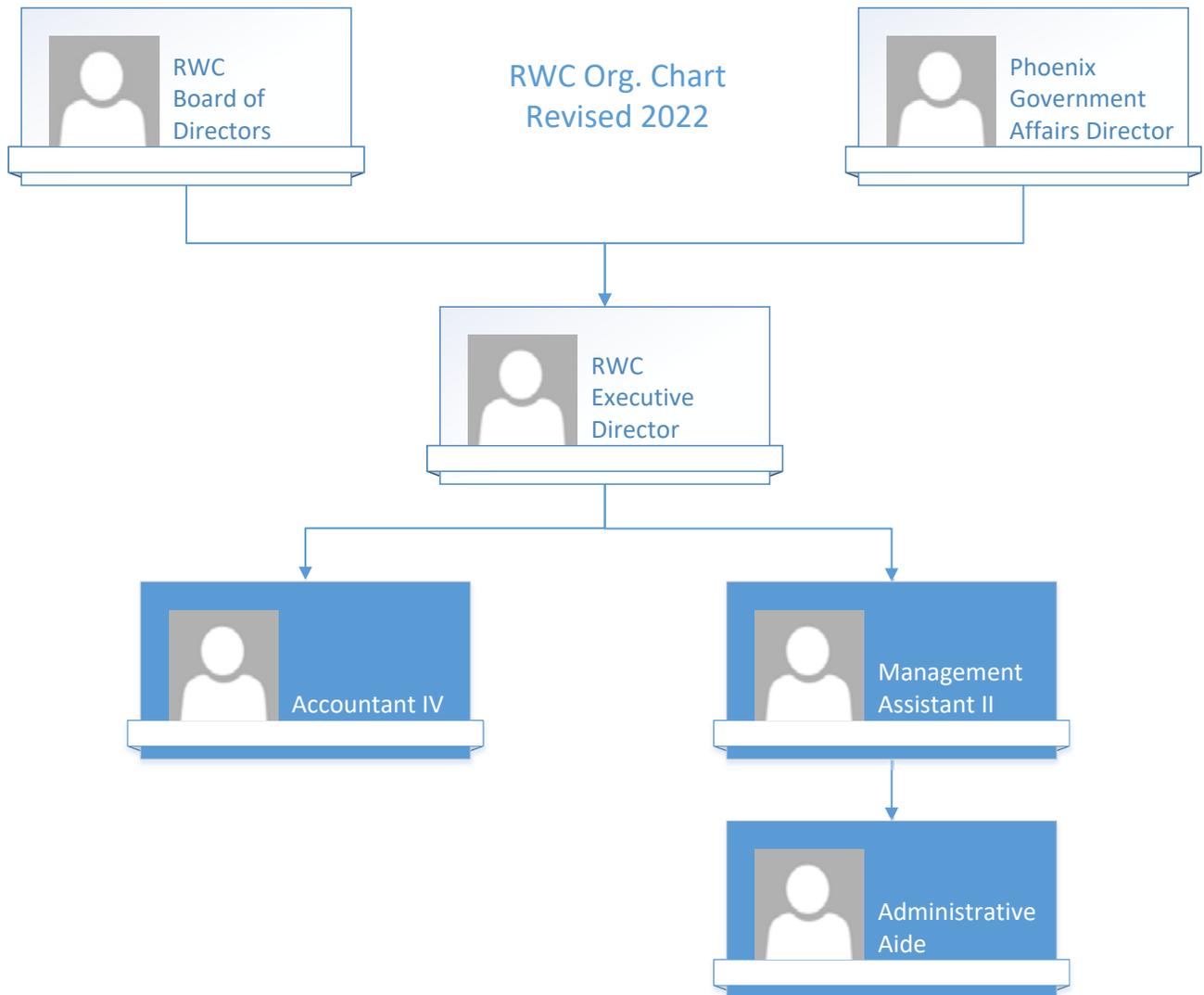
**Regional Wireless Cooperative
Arizona**

For its Annual Comprehensive
Financial Report
For the Fiscal Year Ended

June 30, 2021

Christopher P. Morill

Executive Director/CEO



MEMBERS



RWC BOARD OF DIRECTORS

Chair

Paul Luizzi

Fire Chief

City of Goodyear

Vice Chair

James Hughes

Police Chief

City of Maricopa

Mark Burdick

Fire Chief

Arizona Fire and Medical Authority

Milton Wiener

Police Chief

Federal Reserve Bank of San Francisco

Steen Hambric

Information Technology Director

City of Phoenix

Jeff Scheetz

Chief Information Officer

City of Avondale

Rick St. John

Deputy City Manager

City of Glendale

Bianca Lochner

Chief Information Officer

City of Scottsdale

Greg Platacz

Director of Information and Technology

City of Buckeye

Wayne Clement

Fire Chief

Town of Guadalupe

Rob Schmitz

Assistant Fire Chief

Sun City Fire and Medical Dept.

Joe Hester

Fire Chief

Buckeye Valley Fire District

Jeff McMenemy

Fire Chief

Harquahala Fire District

Tracy Montgomery

Deputy City Manager

City of Surprise

Val Gale

Assistant Fire Chief

City of Chandler

Roy Stanifer

Communications and Records Manager

MCC Department of Public Safety

Andrea Glass

Assistant Fire Chief

City of Tempe

Alan Zangle

Deputy Fire Chief

Daisy Mountain Fire District

Michael Cole

Commander

Town of Paradise Valley

Ginger Sanabria

PD Support Services Manager

City of Tolleson

Paul Marzocca

Police Chief

City of El Mirage

Kris Dalmolin

Information Technology Director

City of Peoria

Les Brown

Police Chief

Town of Wickenburg



Regional Wireless Cooperative

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Financial
section



CliftonLarsonAllen LLP
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INDEPENDENT AUDITORS' REPORT

Board of Directors
Regional Wireless Cooperative
Phoenix, Arizona

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of the Regional Wireless Cooperative, as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Regional Wireless Cooperative's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Regional Wireless Cooperative, as of June 30, 2022, and the changes in financial position, and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Regional Wireless Cooperative and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Regional Wireless Cooperative's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Board of Directors
Regional Wireless Cooperative
Page 2

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Regional Wireless Cooperative's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Regional Wireless Cooperative's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Board of Directors
Regional Wireless Cooperative
Page 3

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

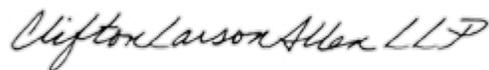
Supplementary Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Regional Wireless Cooperative's basic financial statements. The Members' Operating Fund Reserve, Members' VHF Reserve Fund, Members' Infrastructure Replacement and Enhancement Activity, and Members' Net Operating and Maintenance Expenditures are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with GAAS. In our opinion, the Members' Operating Fund Reserve, Members' VHF Reserve Fund, Members' Infrastructure Replacement and Enhancement Activity, and Members' Net Operating and Maintenance Expenditures are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the introductory and statistical sections but does not include the basic financial statements and our auditors' report thereon. Our opinion on the basic financial statements does not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.



CliftonLarsonAllen LLP

Phoenix, Arizona
December 6, 2022

(3)

The following Management Discussion and Analysis (MD&A) of the Regional Wireless Cooperative's (RWC) activities and financial performance provides an introduction to RWC's financial statements as of and for the fiscal year ended June 30, 2022. The information in this MD&A should be considered in conjunction with the information contained in the Letter of Transmittal included in the Introductory Section of this report.

FINANCIAL AND OPERATIONAL HIGHLIGHTS

- Net position for the RWC totaled \$58.2 million at June 30, 2022 and decreased by \$6.0 million compared to fiscal year 2021. The decrease in 2022 is primarily due to the continued depreciation of capital assets.
- Operating revenues were \$10.6 million for fiscal year 2022 and decreased by \$1.7 million compared to fiscal year 2021. The decrease in 2022 was due to a \$1.6 million decrease in special assessment revenues.
- The operating expenses decreased by \$0.1 million to \$16.7 million in fiscal year 2022. This decrease was due to lower operating and maintenance expenses in the current year.

OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the RWC's basic financial statements. The RWC's basic financial statements include the statement of net position, statement of revenues, expenses, and changes in net position, statement of cash flows, and notes to the financial statements. The RWC's financial statements are prepared on an accrual basis in accordance with generally accepted accounting principles applicable to a governmental entity.

Enterprise Operations

The RWC is structured as a joint venture, governed by a Board of Directors, with all members of the RWC having a seat and a vote on the Board. The Executive Director reports to the Board of Directors and serves as a non-voting member of the Board-appointed Executive Committee.

The Executive Director is supported by the Executive Committee, Operations Working Group, and other Working Groups, in addition to three staff positions who assist with the administration and financial management of the RWC. The Executive Director and staff are City of Phoenix employees residing in the Office of Government Relations.

RWC'S FINANCIAL ANALYSIS

Net position may serve over time as a useful indicator of the joint venture's financial position. The net position of the RWC decreased by \$6.0 million for the year ended June 30, 2022 as compared to June 30, 2021.

RWC's Condensed Statements of Net Position
as of June 30, 2022 and 2021
(in thousands)

	June 30	
	2022	2021
Current Assets	\$ 4,981	\$ 4,734
Capital Assets, Net	55,883	62,144
Total Assets	<u>60,864</u>	<u>66,878</u>
Deferred Outflows of Resources	-	-
Current Liabilities	1,999	2,056
Noncurrent Liabilities	625	636
Total Liabilities	<u>2,624</u>	<u>2,692</u>
Deferred Inflows of Resources	-	-
Investment in Capital Assets	55,883	62,144
Unrestricted	2,357	2,042
Total Net Position	<u>\$ 58,240</u>	<u>\$ 64,186</u>

During fiscal year 2022, current assets remained steady and increased by only \$0.2 million from fiscal year 2021. The increase in pooled cash and investments is due primarily to incurred expenses at year-end that are included in accounts payable.

Capital assets net decreased by \$6.2 million from fiscal year 2021 primarily due to current year depreciation expense of \$9.1 million and \$2.9 million of additions.

Total liabilities decreased in 2022 by \$0.1 million from fiscal year 2021. Accounts payable decreased by \$0.3 million compared to fiscal year 2021 due to the timing of vendor payments.

Net position decreased by \$6.0 million to \$58.2 million in fiscal year 2022. This overall decrease is primarily related to the decrease in capital assets, net based on current year depreciation expense.

**RWC's Condensed Statements of Revenues,
Expenses, and Changes in Net Position
For the Years Ended June 30, 2022 and 2021**
(in thousands)

	June 30	
	2022	2021
Operating Revenues	\$ 10,590	\$ 12,269
Non-Operating Revenues	208	80
Total Revenues	10,798	12,349
Operating Expenses		
Staff and Administrative Allocation	583	516
Operations and Maintenance	7,048	7,153
Depreciation	9,113	9,143
Total Operating Expenses	16,744	16,812
Total Expenses	16,744	16,812
Changes in Net Positions	(5,946)	(4,463)
Net Position, July 1	64,186	68,649
Net Position, June 30	\$ 58,240	\$ 64,186

Operating revenues decreased by \$1.7 million during 2022 primarily due to lower special assessments to members as projects, such as TDMA, were completed.

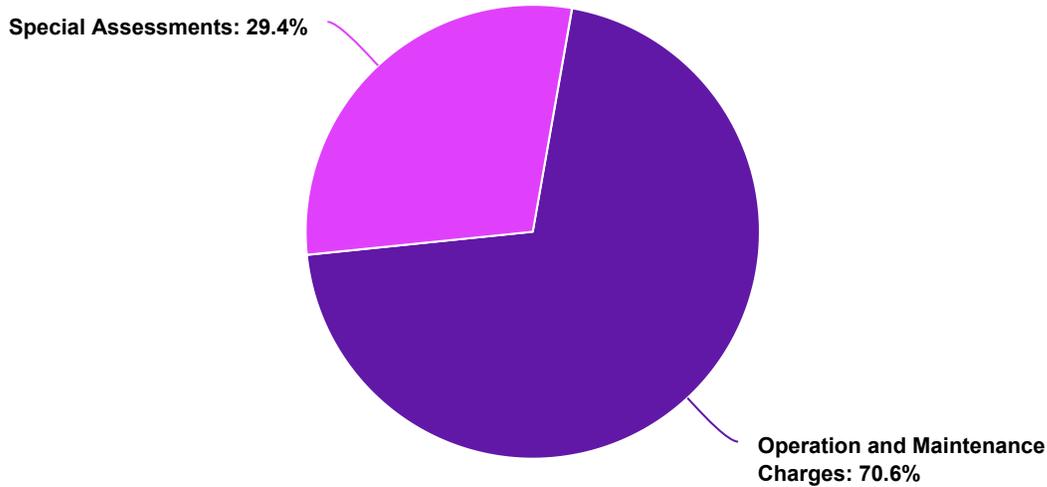
During fiscal year 2022, total operating expenses decreased by \$0.1 million, when compared to fiscal year 2021. This decrease was primarily due to lower operating and maintenance expenses incurred in the current year.

OPERATING REVENUES

The RWC's revenue is primarily generated by charges to the joint venture members for operations and maintenance costs, special assessments, and an operating reserve. For fiscal year 2022, revenues amounted to \$10.6 million of which \$7.5 million is revenue from operations and maintenance and \$3.1 million is from special assessments.

The following chart depicts the RWC's operating revenues by category for the year ended June 30, 2022:

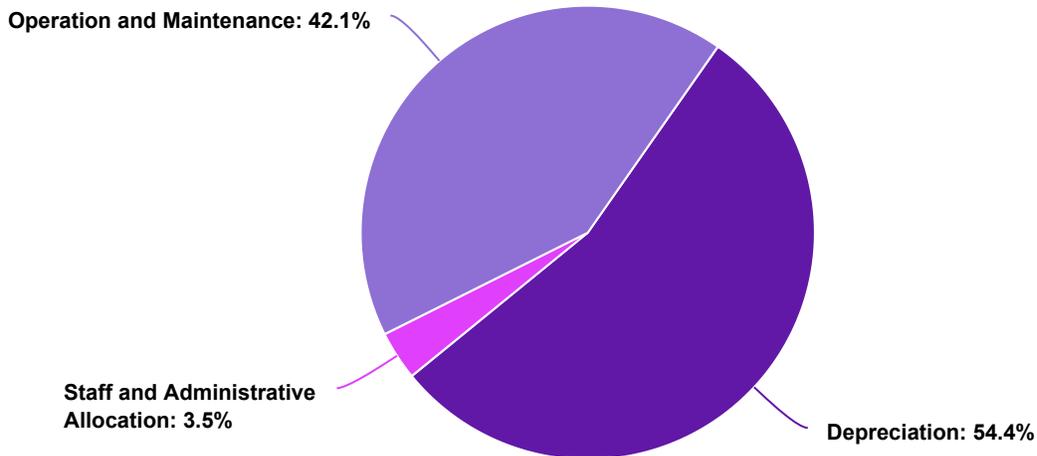
Operating Revenues
Total = \$10,590
(in thousands)



OPERATING EXPENSES

The following chart depicts the RWC's operating expenses by category for the year ended June 30, 2022:

Operating Expenses
Total = \$16,744
(in thousands)



CAPITAL ASSETS

The RWC's capital assets as of June 30, 2022 amounts to \$55.9 million (net of accumulated depreciation) and \$62.1 million as of June 30, 2021. Net capital assets decreased by \$6.2 million during fiscal year 2022 due primarily to depreciation expense. For additional information on RWC's capital assets, please refer to the Notes to the Financial Statements, Organization and Summary of Significant Accounting Policies, Note 1, page 16 and Capital Assets, Note 3, page 21.

RWC's Capital Assets
(in thousands)

	June 30	
	2022	2021
Buildings	\$ 28,842	\$ 28,842
Improvements other than Buildings	4,830	4,830
Equipment	123,136	121,787
Intangible Assets	21,086	18,274
Construction in Progress	2,084	3,393
Accumulated Depreciation	(124,095)	(114,982)
Capital Assets, Net	<u>\$ 55,883</u>	<u>\$ 62,144</u>

REQUEST FOR FINANCIAL INFORMATION

This financial report is designed to provide a general overview of RWC's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Regional Wireless Cooperative, 200 West Washington Street, 14th Floor, Phoenix, Arizona, 85003-1611.



**Basic financial
statements**

**Regional Wireless Cooperative
Statement of Net Position
June 30, 2022
(in thousands)**

ASSETS	
Current Assets	
Unrestricted Assets	
Equity in Pooled Cash and Investments	\$ 1,932
Equity in Pooled Cash and Investments - Operating Reserve	951
Equity in Pooled Cash and Investments - VHF Reserve	58
Equity in Pooled Cash and Investments - Capital Reserve	<u>2,040</u>
Total Unrestricted Assets	<u>4,981</u>
Total Current Assets	<u>4,981</u>
Noncurrent Assets	
Capital Assets	
Buildings	28,842
Improvements other than Buildings	4,830
Equipment	123,136
Intangible Assets	21,086
Construction in Progress	2,084
Less: Accumulated Depreciation	<u>(124,095)</u>
Capital Assets, Net	<u>55,883</u>
Total Assets	<u>60,864</u>
Total Deferred Outflows of Resources	<u>-</u>
DEFERRED OUTFLOWS OF RESOURCES	
LIABILITIES	
Current Liabilities	
Accounts Payable	923
Members' Payable	1,057
Accrued Expenses	19
Total Current Liabilities	<u>1,999</u>
Noncurrent Liabilities	
Accrued Expenses	129
Unearned Revenue	<u>496</u>
Total Noncurrent Liabilities	<u>625</u>
Total Liabilities	<u>2,624</u>
Total Deferred Inflows of Resources	<u>-</u>
DEFERRED INFLOWS OF RESOURCES	
NET POSITION	
Investment in Capital Assets	55,883
Unrestricted	<u>2,357</u>
Net Position	<u>\$ 58,240</u>

The accompanying notes are an integral part of these financial statements.

Regional Wireless Cooperative
Statement of Revenues, Expenses, and
Changes in Net Position
For the Fiscal Year Ended June 30, 2022
(in thousands)

Operating Revenues		
Operations and Maintenance Charges	\$	7,480
Special Assessments		3,110
Total Operating Revenues		<u>10,590</u>
Operating Expenses		
Staff and Administrative Allocation		583
Operation and Maintenance		7,048
Depreciation		9,113
Total Operating Expenses		<u>16,744</u>
Operating Loss		<u>(6,154)</u>
Non-Operating Revenues		
Investment Income		
Net Increase in Fair Value of Investments		141
Interest		67
Total Non-Operating Revenues		<u>208</u>
Changes in Net Position		(5,946)
Net Position, July 1		<u>64,186</u>
Net Position, June 30	\$	<u><u>58,240</u></u>

The accompanying notes are an integral part of these financial statements.

Regional Wireless Cooperative
Statement of Cash Flows
For the Fiscal Year Ended June 30, 2022
(in thousands)

Cash Flows from Operating Activities	
Cash Received from Members	\$ 10,590
Cash Paid to Suppliers	(7,104)
Cash Paid for Staff and Administration Allocation	(595)
Net Cash Provided by Operating Activities	<u>2,891</u>
Cash Flows from Capital and Related Financing Activities	
Acquisition and Construction of Capital Assets	(2,852)
Net Cash Used by Capital and Related Financing Activities	<u>(2,852)</u>
Cash Flows from Investing Activities	
Interest on Investments	208
Net Cash Provided by Investing Activities	<u>208</u>
Increase in Cash and Cash Equivalents	247
Cash and Cash Equivalents, July 1	<u>4,734</u>
Cash and Cash Equivalents, June 30	<u>\$ 4,981</u>
Reconciliation of Operating Loss to Net Cash	
Provided by Operating Activities	
Operating Loss	\$ (6,154)
Adjustments	
Depreciation	9,113
Increase (Decrease) in Liabilities	
Accounts Payable	(324)
Members' Payable	268
Accrued Expenses	(12)
Net Cash Provided by Operating Activities	<u>\$ 2,891</u>

The accompanying notes are an integral part of these financial statements.

A woman with dark hair, wearing a police uniform with a yellow high-visibility vest, is looking out of the window of a blue police car. The background shows a street scene with trees and a utility pole. The image is framed by a large white circle with a purple border, which is set against a purple background with white geometric shapes.

**Notes to the
financial
statements**



Regional Wireless Cooperative

An Arizona Joint Venture

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Table of Contents

The Notes to the Financial Statements include a summary of significant accounting policies and other disclosures necessary for a clear understanding of the accompanying financial statements.

An index to the notes follows:

Note	Description	Page
1	Organization and Summary of Significant Accounting Policies	16
2	Cash and Pooled Investments	18
3	Capital Assets	21
4	Risk Management	21
5	Members' Equity	22
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7	Commitments and Contingencies	22

The Regional Wireless Cooperative (RWC) was formed in 2008 to oversee the administration, operation, management and maintenance of the expanding regional communication network. The RWC is an Arizona joint venture, multi jurisdictional organization throughout the Phoenix Metropolitan Region which currently consists of 23 members. The RWC is a large, Public Safety radio network based on the Project 25, Phase I Standard. The network is an ASTRO 25™, integrated voice and data, trunked radio system that it operates in the 700/800 MHz frequency bands and uses standard Simulcast, IP Simulcast, and individual site trunking. The network consists of seven major simulcast subsystems and ten Astro Site Repeaters (ASR's).

The system provides seamless, wide area coverage in and around Central Arizona's Valley of the Sun. The system is data capable, but at the current time is only used in a data capacity to provide encryption services.

Some of the benefits of this large regional radio system include wide area coverage beyond what cities could achieve individually; seamless interoperability (the ability for diverse public safety agencies to communicate directly, in real time, as the need requires); shared resources; such as people, equipment, and tower sites and funding; and increased success in obtaining state and federal grant support. Financial responsibilities are shared by all members based on their relative size, and is measured by the number of subscriber units on the network.

1. **Organization and Summary of Significant Accounting Policies**

The accompanying financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles.

The RWC is a special purpose governmental entity, engaged only in business-type activities. It is required to present the financial statements required for enterprise funds, which include a statement of net position, a statement of revenues, expenses and changes in net position, and a statement of cash flows. It also requires a Management's Discussion and Analysis as required supplementary information.

The RWC's other significant accounting and financial policies are described as follows:

Reporting Entity

The RWC is structured and reported as a joint venture between the members. Each member includes their equity in the joint venture in their respective basic financial statements. The accompanying financial statements present the financial position of the RWC only. The RWC does not have any component units.

Basis of Accounting

The RWC is accounted for using the flow of economic resources measurement focus and the accrual basis of accounting. All assets, liabilities, net position, revenues, and expenses are accounted for through an enterprise fund. Revenues are recorded when earned and expenses recorded at the time the liabilities are incurred.

The Statement of Net Position present the reporting entity's assets and liabilities, with the difference reported as net position. Net position is reported in three components:

Investment in capital assets consists of capital assets, net of accumulated depreciation and is reduced by outstanding balances for bonds, notes, and other debt that are attributed to the acquisition, construction, or improvement of those assets.

Restricted results when constraints placed on asset use are either externally imposed by creditors, grantor, contributors, and the like, or imposed by law through constitutional provisions or enabling legislation.

Unrestricted consist of those assets which do not meet the definition of the two preceding categories. Unrestricted often are designated to indicate that management does not consider them to be available for general operations. The unrestricted component often has constraints on resources which are imposed by management, but can be removed or modified by the RWC Board of Directors.

The Statement of Revenues, Expenses, and Changes in Net Position demonstrates the degree to which the expenses are offset by revenues. Operating revenues are members' charges and other miscellaneous revenues that are received based on the ongoing activities of the RWC. Operating expenses are those incurred for network operations, maintenance, administration and depreciation of capital assets. Non-operating revenues and expenses are items that are not a result of the direct operations of the network, including interest.

Cash and Pooled Investments

Equity in pooled cash and investments on the Statement of Net Position and cash and cash equivalents on the Statement of Cash Flows consists only of pooled investments. Pooled investments are cash equivalents and are held in the investment pool of the City of Phoenix, Arizona (City). The City's cash resources are combined to form a cash and investment pool managed by the City Treasurer. Interest earned by the pool is distributed monthly to the RWC based on daily equity in the pool.

The RWC's pooled investments are stated at fair value, except for re-purchase agreements with original maturities of one year or less which are valued at cost that approximates fair value. Fair value is based on quoted market prices as of the valuation date.

Receivables

Management analyzes receivables periodically to determine whether an allowance for doubtful accounts should be recorded. There is no current provision required for possible bad debts.

Capital Assets

Capital assets are recorded at historical cost. Donated capital assets are recorded at the estimated acquisition value at the date of donation. Depreciation is computed using the straight-line method over the estimated useful lives of the related assets as follows:

Land	Not depreciated
Buildings	10-40 years
Improvements other than Buildings	10-50 years
Equipment	5-30 years
Intangible assets	5-40 years
Construction in progress	Not depreciated

A gain or loss on disposal of capital assets is recognized when assets are retired from service or are otherwise sold or removed. The minimum capitalization policy is \$5,000 or more with an estimated useful life exceeding two years.

Members' Payable

The RWC reports members' payable in connection with revenues from billings to members. Members' payable at June 30, 2022 was \$1,056,803.

Operating Revenues

Operating revenues include members' charges and other revenues. Members' charges are contributions received from the members for costs of operation and maintenance, administration, and the construction of capital assets. All operating revenues are recognized when earned. Members' charges for operating costs are earned ratably throughout the year.

Operating Expenses

Operating expenses include operation and maintenance expenses, depreciation and administrative expenses. Administrative expenses include direct administrative costs for RWC assigned staff. Operating, maintenance, and administrative costs are allocated to the members based on the number of operable subscribers on the network.

Application of Restricted or Unrestricted Resources

In cases where an expense is incurred for purposes for which both restricted and unrestricted resources are available, the expense is first applied to the restricted resources.

Budget

The RWC assigned staff prepares and presents the operating and capital budget to the Executive Committee. The budget includes operations and maintenance, administration costs as well as planned capital costs. The budget is forwarded to the RWC Board of Directors for approval and adoption. It is the responsibility of each RWC member to take appropriate steps in conformity with the state and local laws to ensure that it appropriates sufficient funds to cover its obligation. The budget is prepared in sufficient detail to facilitate its use by management in monitoring operations.

Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make a number of estimates and assumptions that affect the reported amount of assets and liabilities at the date of the financial statements and reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

New Accounting Pronouncements Adopted in 2022:

GASB Statement No. 87, Leases, establishes new guidance for lease accounting for lessees and lessors and eliminates the classification of leases into operating or capital leases. This Statement establishes a single model for lease accounting based on the principle that leases are financings of the right-to-use an underlying asset. Lessees will recognize a lease liability and an intangible right-to-use lease asset. Lessors will recognize a lease receivable and a deferred inflow of resources. The requirements of this Statement are effective for reporting periods beginning after June 15, 2021. In conjunction with GASB Statement No. 87, the RWC has determined there is no impact to the financial statements as a result of this Statement.

Pronouncements Issued But Not Yet Effective:

GASB has issued the following pronouncements that may affect future financial position, results of operations, cash flows, or financial presentation of RWC upon implementation. RWC has not fully determined the effect these pronouncements will have on the RWC’s financial statements.

GASB Statement No.	GASB Accounting Standard	Effective Fiscal Year
91	Conduit Debt Obligations	2023
94	Public-Private and Public-Public Partnerships and Availability Payment Arrangements	2023
96	Subscription Based Information Technology Arrangements (SBITA)	2023
99	Omnibus 2022	2023
100	Accounting Changes and Error Corrections	2024
101	Compensated Absences	2025

2. **Cash and Pooled Investments**

The RWC did not have cash on hand at June 30, 2022. Pooled investments are maintained in the cash and investment pool of the City. RWC does not have a formal investment policy. The investment policy is maintained with the City.

Pooled Investments

The RWC investments are included in the City’s pooled investments. The City Charter and ordinances authorize the City to invest in U.S. Treasury securities, securities guaranteed, insured or backed by the full faith and credit of the U.S. Government, U.S. Government agency securities, repurchase agreements, commercial paper, money market accounts, certificates of deposit, the State Treasurer’s Local Government Investment Pool “LGIP”, highly rated securities issued or guaranteed by any state or political subdivision thereof rated in the highest short-term or second highest long-term category, and investment grade corporate bonds, debentures, notes and other evidence of indebtedness issued or guaranteed by a solvent U.S. corporation which are not in default as to principal or interest. Investments are carried at fair value. It is the City’s policy generally to hold investments until maturity. A detailed listing of City investments can be found in the City Annual Financial Report in Note 5 in the Notes to the Financial Statements.

RWC maintains a portion of its unrestricted cash and investments in the City’s cash and investment pool. Total investments for RWC at June 30, 2022 stated at fair value was \$4,980,260.

Fair Value Hierarchy

The City categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure fair value of the assets.

The three levels of the fair value hierarchy are as follows:

- Level 1 inputs are quoted prices in an active market for identical assets;
- Level 2 inputs are significant other observable inputs;
- Level 3 inputs are significant unobservable inputs.

The following is a summary of the fair value hierarchy of the fair value of City pooled investments as of June 30, 2022 (in thousands):

Investments by Fair Value Level	6/30/2022	Fair Value Measurement Using		
		Quoted Prices In Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
U.S. Treasury Securities	\$ 3,124,467	\$ 15,551	\$ 3,108,916	\$ -
U.S. Government Agency Obligations	737,430	-	737,430	-
U.S. Government Agency MBS/CMO	43,858	-	43,858	-
Municipal Bonds	176,571	-	176,571	-
Commercial Paper	139,710	-	139,710	-
Total Investments, Including Those Classified as, Cash Equivalents by Fair Value Level	\$ 4,222,036	\$ 15,551	\$ 4,206,485	\$ -

U.S. Government securities totaling \$15.6 million in fiscal year 2022 are classified in Level 1 of the fair value hierarchy and are valued using quoted prices in active markets.

U.S. Government securities totaling \$3.1 billion, U.S. government agency obligations totaling \$737.4 million, U.S. government agency MBS/CMO totaling \$43.9 million, municipal bonds totaling \$176.6 million and commercial paper totaling \$139.7 million in fiscal year 2022 are classified in Level 2 of the fair value hierarchy and are valued using matrix pricing techniques maintained by various pricing vendors. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. These prices are obtained from a pricing source.

Interest Rate Risk

In order to limit interest rate risk, the City’s investment policy limits maturities as follows:

U.S. Treasury Securities	5 year final maturity
Securities guaranteed, insured, or backed by the full faith and credit of the U.S. Government	5 year final maturity
U.S. Government Agency Securities	5 year final maturity
Repurchase Agreements	60 days
Municipal Obligations	5 years for long-term issues
Money Market Mutual Funds	90 days
Commercial Paper	270 days

For Mortgage Backed Securities (MBS) and Collateralized Mortgage Obligations (CMO), the maximum weighted average life using current Public Securities Association (PSA) prepayment assumption shall be twelve years at the time of purchase for MBS and five years at the time of purchase for CMO.

Credit Risk

The City’s investment policy limits its purchase of investments to the top ratings issued by nationally recognized statistical rating organizations such as Standard & Poor’s “S&P” and Moody’s Investors Service “Moody’s”. The portfolio is primarily invested in securities issued by the U.S. Treasury or by U.S. Government Agency Securities which are rated Aaa by Moody’s and AA+ by S&P. Repurchase agreements are generally collateralized by U.S. Treasuries and U.S. Government Agency Securities at 102%. In addition, the portfolio is invested in pre-refunded or escrowed to maturity municipal securities for which the payment of interest, and ultimately the repayment of the principal, is backed by U.S. Treasury Securities. Municipal securities must have a short-term minimum rating of A1 by S&P and P1 by Moody’s and a long-term uninsured rating of A+ by S&P and A1 by Moody’s. Money market mutual funds must have a current minimum money market rating of AAAM by S&P and Aaa-mf by Moody’s. For commercial paper, an Issuer’s program must have a minimum rating of “A1” by S&P and “P1” by Moody’s. The issuing corporation must be organized and operating in the United States and have a minimum long-term debt rating of “A+” by S&P and “A1” by Moody’s. Programs rated by only one of the agencies are ineligible.

Concentration of Credit Risk

Investments in any one issuer that represent 5% or more of total City investment are as follows (in thousands):

<u>Issuer</u>	<u>Fair Value</u>
FHLB	\$466,754

3. Capital Assets

Capital asset activity for the fiscal year ended June 30, 2022 was as follows (in thousands):

	Beginning Balance	Increases	Decreases	Ending Balance
Non-depreciable Assets				
Construction in Progress	\$ 3,393	\$ 2,846	\$ (4,155)	\$ 2,084
Total Non-depreciable Assets	3,393	2,846	(4,155)	2,084
Depreciable Assets				
Buildings	28,842	-	-	28,842
Improvements other than Buildings	4,830	-	-	4,830
Equipment	121,787	1,349	-	123,136
Intangible Assets	18,274	2,812	-	21,086
Total Depreciable Assets	173,733	4,161	-	177,894
Accumulated Depreciation				
Buildings	(9,182)	(793)	-	(9,975)
Improvements other than Buildings	(2,565)	(237)	-	(2,802)
Equipment	(93,759)	(4,969)	-	(98,728)
Intangible Assets	(9,476)	(3,114)	-	(12,590)
Total Accumulated Depreciation	(114,982)	(9,113)	-	(124,095)
Total Depreciable Assets, Net	58,751	(4,952)	-	53,799
Total Capital Assets, Net	\$ 62,144	\$ (2,106)	\$ (4,155)	\$ 55,883

4. Risk Management

RWC's insurance program is administered by the City of Phoenix Risk Management Division of the Finance Department. RWC is charged annually for its share of insurance coverage. For fiscal year 2022, RWC was charged \$97,069 for insurance premiums. The members proportionately share the costs of the insurance program according to the provisions of the intergovernmental agreement. The City of Phoenix maintains a \$7.5 million self-insured retention for third-party liability claims. Losses which exceed the retention levels are covered by commercial insurance purchased through the City. Self-insured claims are reported as liabilities in the City of Phoenix's basic financial statements when it is probable that a loss has occurred and the amount of that loss can be reasonably estimated. This determination is based on an independent actuarial analysis of reported claims and estimated claims incurred but not reported. For the year ended June 30, 2022, there were no reductions in insurance coverage from the prior year and settled claims have not exceeded insurance coverage for the past three years. In the opinion of management, no provision for claims is required in the accompanying financial statements.

5. **Members' Equity**

A summary of the joint venture members' equity as of June 30, 2022 is as follows:

Arizona Fire & Medical Authority	\$ 298,250
City of Avondale	522,508
City of Buckeye	330,993
Buckeye Valley Fire District	25,038
City of Chandler	1,610,489
Daisy Mountain Fire District	105,169
City of El Mirage	241,062
Federal Reserve Bank	1,071
City of Glendale	2,354,375
City of Goodyear	345,020
Town of Guadalupe	65,763
Harquahala Fire District	2,999
City of Maricopa	201,757
Maricopa County Community College District	218,241
Town of Paradise Valley	25,167
City of Peoria	1,600,960
City of Phoenix	38,159,726
City of Scottsdale	3,829,551
Sun City Fire District	478,278
City of Surprise	901,878
City of Tempe	6,795,889
City of Tolleson	125,672
Total Members' Equity	<u>\$ 58,239,856</u>

6. **Related Party Transactions**

Staff and administrative costs allocated by the City to RWC was \$582,649 for the year ended June 30, 2022. These costs include: salaries, radio operator charges, photocopy equipment, office supplies, computer software, computer components, motor pool, and security charges. The City subsidizes central services costs for the RWC. These costs include: building maintenance, custodial services, electrical maintenance, money management, accounts payable, various financial services, materials management, human resources, safety, fringe benefit administration, labor relations, training, network services, communication services, and general management services.

As RWC has no employees, the City assigned four full-time staff to RWC as of June 30, 2022 and compensation totaled \$564,928 for the year ended June 30, 2022.

RWC's full-time staff are employed by the City of Phoenix, Arizona and participate in the City of Phoenix Employees' Retirement Plan (COPERS). In addition to normal retirement benefits, COPERS also provides for disability and survivor benefits, as well as deferred pensions for former employees. Pension benefits vest after five years for general City employees.

The City provides certain post-employment health care benefits for its retired employees. Retirees meeting certain qualifications are eligible to participate in the City's health insurance program along with the City's active employees.

7. **Commitments and Contingencies**

The RWC has entered into contractual agreements with Motorola to provide services related to maintenance, operations, and upgrades of the RWC Network. The percentages of the total RWC budget for these agreements were 49% for the year ended June 30, 2022.

At this point in time, RWC is not involved in any litigation and claims arising in the normal course of operations. In the opinion of management based on consultation with legal counsel, losses, if any, from pending litigation and claims are covered by insurance or are immaterial; therefore, no provision has been made in the accompanying financial statements for losses, if any, that might arise from the ultimate outcome of these matters.



**Supplementary
Information**



**Regional Wireless Cooperative
Members' Operating Fund Reserve
For the Fiscal Year Ended June 30, 2022**

RWC members maintain an operating fund reserve to provide cash flow for cost of operating and maintenance of the Network. Each member's obligation to fund the balance reserve is proportionate to its subscriber units in use on the Network at the time the fee is assessed.

Member	Beginning Balance July 1, 2021	Contributions	Adjustments*	Interest	Expenditures	Ending Balance June 30, 2022
Arizona Fire & Medical Authority						
	\$ 5,790	\$ -	\$ -	\$ 36	\$ -	\$ 5,826
City of Avondale	19,446	-	-	119	-	19,565
City of Buckeye	17,850	-	-	109	-	17,959
Buckeye Valley Fire District	-	4,969	-	30	-	4,999
City of Chandler	51,733	-	-	317	-	52,050
Daisy Mountain Fire District	7,798	-	-	48	-	7,846
City of El Mirage	6,083	-	-	37	-	6,120
Federal Reserve Bank	-	1,405	-	9	-	1,414
City of Glendale	52,901	-	-	324	-	53,225
City of Goodyear	14,659	-	-	90	-	14,749
Town of Guadalupe	548	-	-	3	-	551
Harquahala Fire District	-	502	-	3	-	505
City of Maricopa	11,806	-	-	72	-	11,878
Maricopa County Community College District						
	11,319	-	-	69	-	11,388
Town of Paradise Valley	4,164	-	-	25	-	4,189
City of Peoria	46,320	-	-	283	-	46,603
City of Phoenix	512,215	-	-	3,134	-	515,349
Rural Metro	-	-	-	-	-	-
City of Scottsdale	76,186	-	-	466	-	76,652
Sun City Fire District	3,583	-	-	22	-	3,605
City of Surprise	29,023	-	-	178	-	29,201
City of Tempe	60,182	-	-	368	-	60,550
City of Tolleson	6,618	-	-	41	-	6,659
	<u>\$ 938,224</u>	<u>\$ 6,876</u>	<u>\$ -</u>	<u>\$ 5,783</u>	<u>\$ -</u>	<u>\$ 950,883</u>

*Based on an inception-to-date analysis of contributions by members.

**Regional Wireless Cooperative
Members' VHF Fund Reserve
For the Fiscal Year Ended June 30, 2022**

RWC Conventional Network members maintain an operating fund reserve to provide cash flow for cost of operating and maintenance of the VHF Network. Each member's obligation to fund the balance reserve is proportionate to its subscriber units in use on the VHF Network at the time the fee is assessed.

Member	Beginning Balance				Ending Balance
	July 1, 2021	Contributions	Interest	Expenditures	
Arizona Fire & Medical Authority	\$ 913	\$ -	\$ 6	\$ -	\$ 919
City of Avondale	1,106	-	7	-	1,113
City of Buckeye	1,522	-	9	-	1,531
Buckeye Valley Fire District	1,411	-	8	-	1,419
City of Chandler	2,565	-	15	-	2,580
Daisy Mountain Fire District	1,122	-	7	-	1,129
City of El Mirage	368	-	3	-	371
Federal Reserve Bank	-	-	-	-	-
City of Glendale	2,501	-	15	-	2,516
City of Goodyear	1,154	-	7	-	1,161
Town of Guadalupe	113	-	1	-	114
Harquahala Fire District	177	-	1	-	178
City of Maricopa	817	-	5	-	822
City of Peoria	2,052	-	12	-	2,064
City of Phoenix	30,858	-	183	-	31,041
City of Scottsdale	3,671	-	22	-	3,693
Sun City Fire District	898	-	5	-	903
City of Surprise	1,876	-	11	-	1,887
City of Tempe	3,848	-	22	-	3,870
City of Tolleson	368	-	2	-	370
	<u>\$ 57,340</u>	<u>\$ -</u>	<u>\$ 341</u>	<u>\$ -</u>	<u>\$ 57,681</u>

**Regional Wireless Cooperative
Members' Infrastructure Replacement and Enhancement Activity
For the Fiscal Year Ended June 30, 2022**

RWC Members fund the Infrastructure Replacement and Enhancement Fund through RWC Board of Directors formal resolution stating the purpose of the project, term of project, total cost of project, and each RWC Member's fixed share of the project cost programmed across the specified term. Funds are used to pay for network upgrades and system enhancements.

Member	Beginning Balance	Contributions	Interest	Expenditures	Ending Balance
	July 1, 2021				June 30, 2022
Arizona Fire & Medical Authority	\$ 15,091	\$ -	\$ 43	\$ (2,374)	\$ 12,760
City of Avondale	58,768	-	166	(9,245)	49,689
City of Buckeye	42,924	-	121	(6,753)	36,292
City of Chandler	214,545	-	604	(33,752)	181,397
Daisy Mountain Fire District	1,127	-	3	(177)	953
City of El Mirage	18,234	-	51	(2,869)	15,416
City of Glendale	151,251	-	426	(23,795)	127,882
City of Goodyear	9,718	-	27	(1,529)	8,216
Town of Guadalupe	2,444	-	7	(384)	2,067
City of Maricopa	30,605	-	86	(4,815)	25,876
Maricopa County Community					
College District	44,165	-	124	(6,948)	37,341
Town of Paradise Valley	-	-	-	-	-
City of Peoria	192,674	-	543	(30,311)	162,906
City of Phoenix	1,060,494	-	2,986	(166,835)	896,645
City of Scottsdale	309,148	-	871	(48,635)	261,384
Sun City Fire District	11,133	-	31	(1,751)	9,413
City of Surprise	89,123	-	251	(14,021)	75,353
City of Tempe	154,375	-	435	(24,286)	130,524
City of Tolleson	6,430	-	18	(1,012)	5,436
	<u>\$ 2,412,249</u>	<u>\$ -</u>	<u>\$ 6,793</u>	<u>\$ (379,492)</u>	<u>\$ 2,039,550</u>

**Regional Wireless Cooperative
Members' Net Operating and Maintenance Expenditures
For the Fiscal Year Ended June 30, 2022**

Member	Amount Billed	2022 Charge (Credit) Per User Settlement (1)	Net Operating Expenditures
Arizona Fire & Medical Authority	\$ 80,301	\$ (12,946)	\$ 67,355
City of Avondale	198,983	(25,289)	173,694
City of Buckeye	170,443	(21,723)	148,720
Buckeye Valley Fire District	52,101	(10,206)	41,895
City of Chandler	439,451	(55,207)	384,244
Daisy Mountain Fire District	62,757	(11,195)	51,562
City of El Mirage	64,459	(8,452)	56,007
Federal Reserve Bank	8,488	(914)	7,574
City of Glendale	440,126	(54,819)	385,307
City of Goodyear	203,927	(25,949)	177,978
Town of Guadalupe	6,978	(1,221)	5,757
Harquahala Fire District	5,280	(998)	4,282
City of Maricopa	116,606	(14,573)	102,033
Maricopa County Community College District	93,408	(9,932)	83,476
Town of Paradise Valley	33,025	(3,341)	29,684
City of Peoria	367,279	(45,847)	321,432
City of Phoenix	4,511,832	(554,774)	3,957,058
City of Scottsdale	655,699	(77,529)	578,170
Sun City Fire District	33,655	(2,852)	30,803
City of Surprise	235,967	(30,543)	205,424
City of Tempe	626,169	(80,929)	545,240
City of Tolleson	58,629	(7,564)	51,065
Non-Members	70,938	-	70,938
	<u>\$ 8,536,501</u>	<u>\$ (1,056,803)</u>	<u>\$ 7,479,698</u>

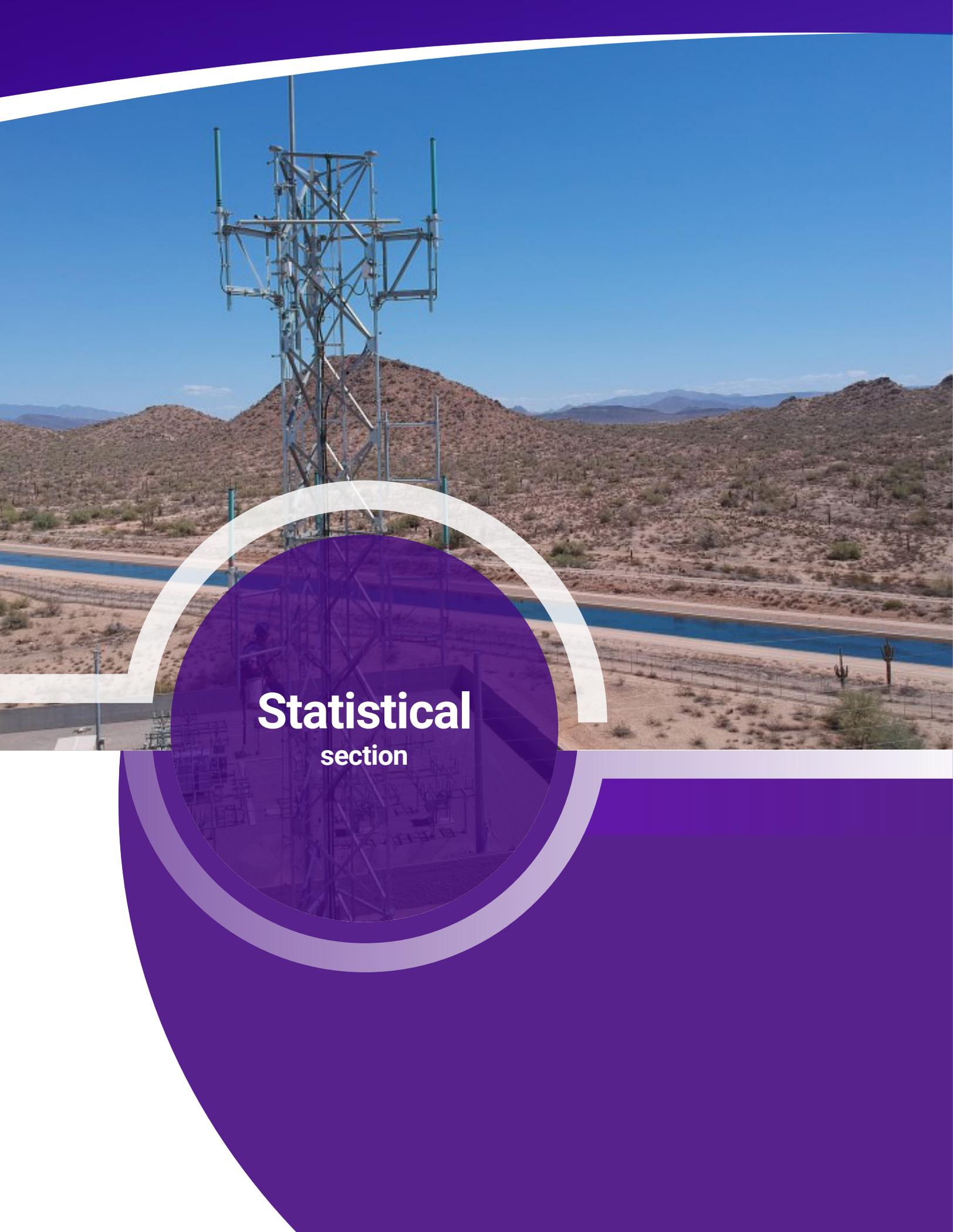
(1) These amounts represent the settlement of operating and maintenance expenditures.



Regional Wireless Cooperative

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Statistical
section

Table of Contents

This section of the RWC's annual comprehensive financial report presents detailed information as context for understanding of the information in the financial statements, note disclosures, required supplementary information, and the joint venture's overall financial condition. The RWC began operation in FY 2010; therefore, 10 years of data is not available for presentation in this section.

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Financial Trends

These schedules contain trend information to help the reader understand how the RWC's financial performance and well-being have changed over time:

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Statements of Revenues, Expenses, and Changes in Net Position	31
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Demographic and Economic Information

These schedules offer demographic and economic indicators to show the environment within which the RWC's financial activities take place:

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Operating Information

These schedules contain service data to show how the RWC's financial information relates to the services the RWC provides and the activity it performs:

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Regional Wireless Cooperative
Statements of Net Position
Last Ten Fiscal Years
(in thousands)

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Investment in Capital										
Assets	\$ 55,883	\$ 62,144	\$ 67,044	\$ 69,091	\$ 73,867	\$ 80,098	\$ 86,472	\$ 83,376	\$ 83,280	\$ 87,125
Restricted	-	-	-	-	-	-	-	-	-	-
Capital Projects	-	-	-	-	-	-	243	121	-	88
Unrestricted	2,357	2,042	1,605	1,807	1,345	1,580	1,937	12,386	4,250	498
Net Position	\$ 58,240	\$ 64,186	\$ 68,649	\$ 70,898	\$ 75,212	\$ 81,678	\$ 88,652	\$ 95,883	\$ 87,530	\$ 87,711

Statements of Revenues, Expenses, and Changes in Net Position
Last Ten Fiscal Years
(in thousands)

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Operating Revenues										
Operation and Maintenance Charges	\$ 7,480	\$ 7,537	\$ 7,170	\$ 6,798	\$ 6,871	\$ 7,320	\$ 6,592	\$ 7,209	\$ 7,201	\$ 6,746
Special Assessments	3,110	4,732	5,661	6,743	3,919	1,989	16,646	16,170	11,143	2,390
Other	-	-	-	-	-	-	121	121	88	88
Total Operating Revenues	10,590	12,269	12,831	13,541	10,790	9,309	23,359	23,500	18,432	9,224
Operating Expenses										
Staff and Administrative Allocation	583	516	499	541	654	538	691	582	617	597
Operation and Maintenance	7,048	7,153	6,695	6,133	5,994	6,048	3,925	6,174	6,541	6,048
Special Assessments	-	-	-	-	151	245	2,429	5	3	-
Depreciation	9,113	9,143	8,074	11,430	10,495	9,476	8,299	8,509	11,546	10,444
Total Operating Expenses	16,744	16,812	15,268	18,104	17,294	16,307	15,344	15,270	18,707	17,089
Operating Income (Loss)	(6,154)	(4,543)	(2,437)	(4,563)	(6,504)	(6,998)	8,015	8,230	(275)	(7,865)
Non-Operating Revenues (Expenses)										
Investment Income										
Net Increase (Decrease) in Fair Value of										
Investments	141	(38)	55	111	(72)	(86)	25	(109)	(109)	(77)
Interest	67	118	133	138	110	110	262	232	203	81
Loss on Disposal of Capital Assets	-	-	-	-	-	-	(1,190)	-	-	(777)
Distribution to Members	-	-	-	-	-	-	(14,343)	-	-	-
Total Non-Operating Revenues (Expenses)	208	80	188	249	38	24	(15,246)	123	94	(773)
Income (Loss) Before Contributions	(5,946)	(4,463)	(2,249)	(4,314)	(6,466)	(6,974)	(7,231)	8,353	(181)	(8,638)
Capital Contributions	-	-	-	-	-	-	-	-	-	-
Changes in Net Position	\$ (5,946)	\$ (4,463)	\$ (2,249)	\$ (4,314)	\$ (6,466)	\$ (6,974)	\$ (7,231)	\$ 8,353	\$ (181)	\$ (8,638)

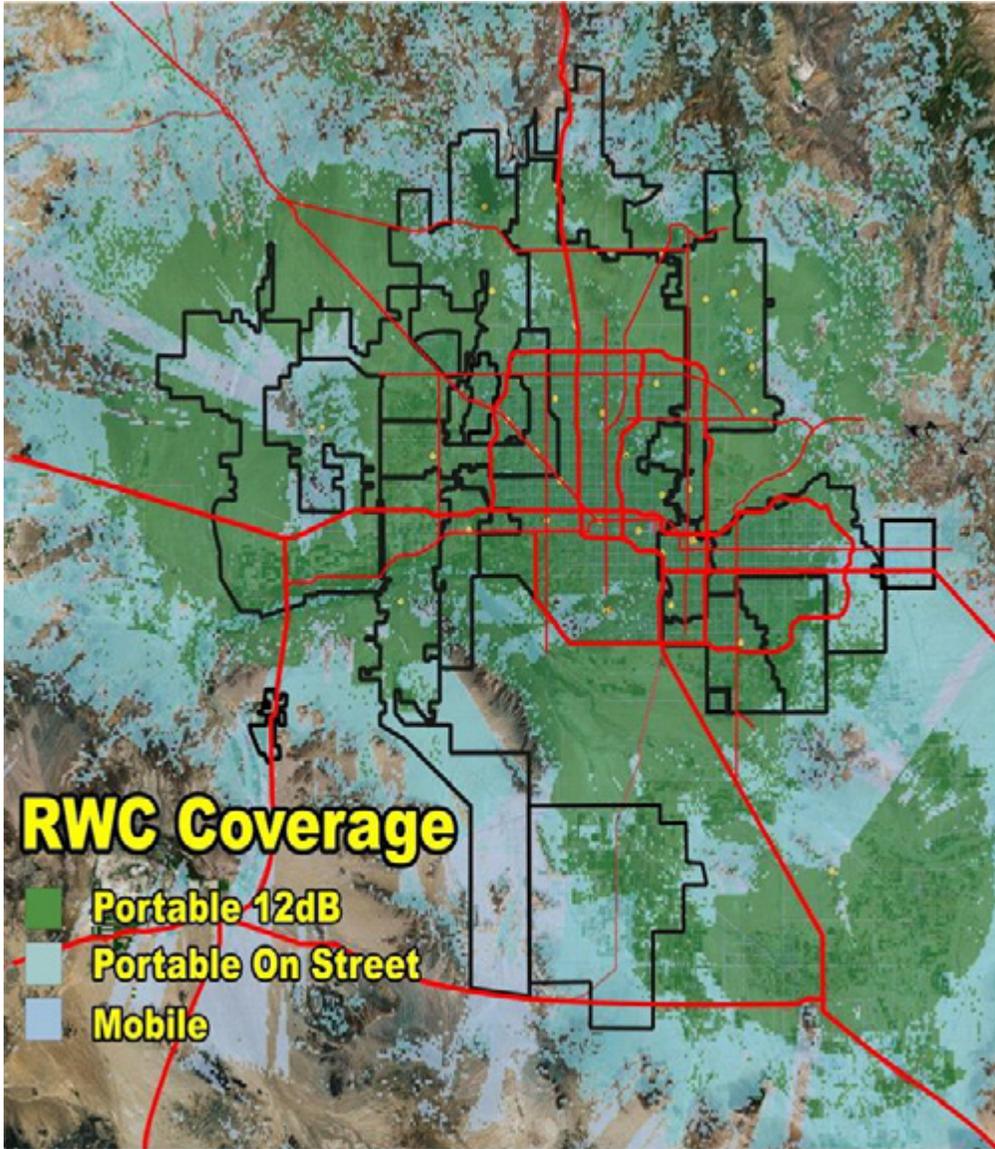
**Regional Wireless Cooperative
Members' Operations and Maintenance Expenses
Last Ten Fiscal Years**

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Arizona Fire & Medical Authority	\$ 67,355	\$ 65,236	\$ 51,140	\$ 32,798	\$ 29,301	\$ 28,847	\$ 28,275	\$ 27,847	\$ 28,059	\$ 24,952
City of Avondale	173,694	172,807	151,813	143,500	138,819	127,170	96,672	121,150	123,697	108,885
City of Buckeye	148,720	141,450	138,300	127,996	115,986	114,114	113,819	123,292	105,746	77,987
Buckeye Valley Fire District	41,895	-	-	-	-	-	-	-	-	-
City of Chandler	384,244	391,262	387,444	365,909	354,689	356,585	345,177	362,723	378,692	340,153
Daisy Mountain Fire District	51,562	51,077	42,883	28,056	8,854	8,209	7,443	8,239	3,819	2,111
City of El Mirage	56,007	53,937	49,735	41,176	38,515	38,041	45,293	39,139	38,067	31,944
Federal Reserve Bank	7,574	-	-	-	-	-	-	-	-	-
City of Glendale	385,307	398,876	393,404	415,301	443,057	455,537	487,326	513,312	535,581	583,921
City of Goodyear	177,978	187,686	112,619	106,821	148,559	219,021	144,228	170,265	41,573	36,693
Town of Guadalupe	5,757	5,903	4,630	3,840	3,542	3,574	3,631	4,217	4,126	4,036
Harquahala Fire District	4,282	-	-	-	-	-	-	-	-	-
City of Maricopa	102,033	105,578	85,659	90,120	75,794	67,041	64,285	64,588	63,551	39,943
Maricopa County Community College	83,476	84,138	81,816	82,621	84,183	84,036	84,503	79,523	-	-
Town of Paradise Valley	29,684	29,695	30,109	33,820	17,004	-	-	-	-	-
City of Peoria	321,432	333,265	337,645	337,138	326,318	312,071	321,022	354,495	369,820	330,061
City of Phoenix	3,957,059	3,999,722	3,906,999	3,713,027	3,515,191	3,448,585	3,470,070	3,758,471	3,999,612	3,878,073
City of Scottsdale	578,170	582,342	572,105	542,652	535,893	553,558	558,223	596,642	568,508	503,669
Sun City Fire District	30,803	28,255	28,977	22,505	20,538	17,945	17,246	18,166	18,260	15,411
City of Surprise	205,424	210,378	205,322	187,571	187,541	171,780	152,212	170,233	167,321	147,314
City of Tempe	545,240	562,512	461,798	431,638	729,287	1,231,481	571,819	711,487	675,808	573,249
City of Tolleson	51,065	52,330	50,090	46,073	43,120	19,424	11,618	12,887	12,174	10,454
Non Members ⁽¹⁾	70,938	80,287	77,602	45,753	54,540	62,555	68,926	72,710	66,432	37,498
Total	\$ 7,479,699	\$ 7,536,736	\$ 7,170,091	\$ 6,798,315	\$ 6,870,731	\$ 7,319,574	\$ 6,591,788	\$ 7,209,386	\$ 7,200,846	\$ 6,746,354

(1) Non RWC Member's fee for use of the RWC Network.



Regional Wireless Cooperative Coverage Map



**Regional Wireless Cooperative
Cities' and Towns' Population Growth
Last Ten Calendar Years**

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
City of Avondale	94,579	90,755	89,480	88,552	86,057	84,719	82,940	81,321	79,975	79,080
City of Buckeye	95,463	101,987	93,629	86,806	80,131	73,066	68,090	64,034	60,809	57,823
City of Chandler	273,102	280,189	277,116	272,365	268,207	264,582	258,414	252,564	247,136	244,630
City of El Mirage	36,365	36,101	35,927	35,318	35,096	34,859	34,570	34,080	33,431	32,950
City of Glendale	259,659	250,585	248,686	246,763	244,620	242,138	240,152	237,423	234,687	232,682
City of Goodyear	98,741	101,662	96,789	92,584	88,014	84,620	81,581	78,175	74,817	72,212
Town of Guadalupe	6,802	5,329	5,326	5,377	5,440	5,526	5,471	5,514	5,564	5,610
City of Maricopa	58,424	61,109	58,622	55,798	53,043	50,522	48,978	47,580	46,743	45,840
Town of Paradise Valley	15,186	12,707	12,671	12,668	12,687	12,744	12,796	12,867	12,787	12,788
City of Peoria	187,055	195,585	191,849	187,381	183,049	178,391	173,666	168,512	164,574	161,471
City of Phoenix	1,648,257	1,630,195	1,635,879	1,606,815	1,598,736	1,579,253	1,565,896	1,528,115	1,505,070	1,485,719
City of Scottsdale	268,839	243,528	241,718	239,494	237,571	235,606	233,477	228,230	222,997	220,302
City of Surprise	153,505	149,710	144,246	138,615	134,779	131,682	129,676	127,195	124,946	122,668
City of Tempe	207,982	181,548	181,580	178,706	176,411	171,864	172,485	168,318	166,448	163,432
City of Tolleson	7,666	7,309	7,262	7,102	7,034	7,006	6,963	6,890	6,813	6,669

Source: Derived from data from the 2010 Census, the 2020 Census, the Arizona State Demographer's Office, the Maricopa Association of Governments, and the Arizona Commerce Authority.

**Regional Wireless Cooperative
Major Employers Metropolitan Phoenix
Current Year and Nine Years Ago**

Employer ⁽¹⁾	2022			2013		
	Employees ⁽¹⁾	Rank	Percentage of Total City Employment ⁽²⁾	Employees ⁽¹⁾	Rank	Percentage of Total City Employment ⁽²⁾
Banner Health	41,435	1	1.80%	25,270	3	1.44%
Amazon.com Inc.	40,000	2	1.74%			
State of Arizona	39,172	3	1.71%	49,278	1	2.80%
Wal-Mart Inc.	38,309	4	1.67%	32,169	2	1.83%
Arizona State University	34,421	5	1.50%	12,222	7	0.70%
Fry's Food Stores	21,012	6	0.92%			
University of Arizona	19,823	7	0.86%			
Dignity Health Arizona	16,525	8	0.72%			
City of Phoenix	15,645	9	0.68%	14,983	4	0.85%
Wells Fargo & Co.	15,500	10	0.68%	14,713	5	0.84%
Maricopa County				12,698	6	0.72%
Intel Corp.				11,900	8	0.68%
JPMorgan/Chase				11,042	9	0.63%
Bank of America				11,000	10	0.63%

Source: Phoenix Business Journal Book of Lists

⁽¹⁾ Top employers in the State of Arizona. Employee count is inclusive of all Arizona employees.

⁽²⁾ City Employment is the Phoenix-Mesa-Scottsdale MSA total nonfarm employment, seasonally adjusted.

**Subscriber Units
Last Ten Fiscal Years**

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Subscriber Units										
Member Total	20,039	19,720	19,202	18,844	18,504	18,522	18,046	18,242	17,371	17,695
Interoperability	22,234	20,503	20,363	19,417	22,537	22,576	18,976	17,574	10,143	11,682
Grand Total	42,273	40,223	39,565	38,261	41,041	41,098	37,022	35,816	27,514	29,377

System Statistics
Last Eight Fiscal Years

	2022	2021	2020	2019	2018	2017	2016	2015
Total # of Calls	26.1 million	28.3 million	28.9 million	29.8 million	28.2 million	30.3 million	28.1 million	28.5 million
Total Call Duration (hours)	61,576	68,400	100,806	73,984	73,560	76,635	81,535	80,399
Total Call Duration (sec)	222 million	246 million	363 million	266 million	265 million	276 million	294 million	289 million
Average Call Duration (sec)	8.5	8.7	12.5	8.9	9.4	9.1	10.6	10.2
Average Call Per Day	71,407	77,236	79,059	81,603	77,271	82,913	76,001	77,968
Total Buses	195	184	2,194	83	131	261	530	740
Busy Duration (hours)	0.14	0.07	3.85	0.02	0.02	0.05	0.13	0.11
Total Busy Duration (sec)	512	241	231	71	68	177	478	700
Average Busy Duration (sec)	2.6	1.3	6.3	0.9	0.5	0.7	0.9	1.1
Average Busy per Day	0.5	0.5	6.0	0.2	0.4	0.7	1.5	2
Total Emergency Calls	2,523	2,434	2,849	2,890	3,473	3,415	3,519	3,854
Total Emergency Duration (hours)	19.5	20.3	22.8	24.0	31.0	27.4	29.6	9.1
Total Emergency Duration (sec)	71,574	72,909	82,098	84,802	112,483	98,640	106,156	33,173
Average Emergency Duration (sec)	28.4	30.0	28.8	29.3	32.4	28.9	30.2	8.6
Average Emergency Calls per Day	6.9	6.7	7.8	7.9	9.5	9.4	9.6	10.6
System Reliability	99.986%	99.989%	99.989%	99.984%	99.975%	99.978%	99.968%	99.990%

Note: System Statistics for 2011 through 2014 were not available.



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