

COUNTY OF MADERA  
 BUDGET UNIT DETAIL  
 BUDGET FOR THE FISCAL YEAR 2020-21

Department: MICROWAVE RADIO SERVI  
 (11300)  
 Function: General  
 Activity: Other General  
 Fund: Microwave Radio Fund

	<b>BOARD APPROVED <u>2019-20</u></b>	<b>CAO BASELINE <u>2019-20</u></b>	<b>DEPARTMENT REQUEST <u>2020-21</u></b>	<b>CAO RECOMMENDED <u>2020-21</u></b>
BEGINNING FUND BALANCE	-	-		
<b><u>ESTIMATED REVENUES:</u></b>				
640101 Interest on Cash	2,745	5,000	5,000	5,000
662742 Microwave Radio Service Charges	563,113	518,375	518,375	518,375
<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>565,858</u></b>	<b><u>523,375</u></b>	<b><u>523,375</u></b>	<b><u>523,375</u></b>
<b><u>EXPENDITURES:</u></b>				
OPERATING EXPENSES				
720800 Maintenance - Equipment	128,458	129,827	129,827	129,827
721200 Misc Expense - Sales Tax	6,287	3,618	3,618	3,618
721400 Professional Specialized	2,000	2,300	2,300	2,300
721700 Rents & Leases - Building/Land	224,822	224,822	224,822	224,822
721909 Misc Expense - Property Tax	2,105	2,105	2,105	2,105
730302 Retire Capital Lease (Equipment)	79,441	43,860	43,860	43,860
731400 Interfund Expenses	20,000	20,000	20,000	20,000
<b><u>TOTAL OPERATING EXPENSES</u></b>	<b><u>463,113</u></b>	<b><u>426,532</u></b>	<b><u>426,533</u></b>	<b><u>426,533</u></b>
<b><u>TOTAL EXPENDITURES</u></b>	<b><u>463,113</u></b>	<b><u>426,532</u></b>	<b><u>426,533</u></b>	<b><u>426,533</u></b>
<b>Income Over / (Under) Expenses</b>	<b><u>102,745</u></b>	<b><u>96,843</u></b>	<b><u>96,842</u></b>	<b><u>96,842</u></b>
Carryover Restricted for Capital Replacement	102,745	96,843	96,842	96,842

## MICROWAVE RADIO SERVICES

### COMMENTS

In early Fiscal Year 2009-10, the County assumed full responsibility for operating and maintaining the Microwave Radio System. Approximately \$1 Million in new microwave radio equipment was acquired through a lease/purchase program and installed on existing tower locations that are leased from private owners. Madera County has contracted with Fresno County to maintain the radio system equipment since Fresno County owns and operates a large Microwave Radio System that utilizes some of the towers and equipment in Madera County. Madera County's Information Technology Department provides management of this function and budget.

The microwave Land Mobile Radio System (LMRS) service is used by several County Departments as a primary method of mobile communications throughout the County. The Departments currently using hand-held and/or vehicle-mounted radios include Sheriff, Fire, Probation, Corrections, Roads, and Animal Services. In addition, the microwave Multi-protocol Label Switching (MPLS) system is being leveraged to provide network data services to the communities of Chowchilla and Oakhurst (extended to Bass Lake using conventional telco circuits).

In Fiscal Year 2017-18, a Microwave Network Transformation Project was started, and the project was completed in FY 2018-19.

The next capital equipment replacement is scheduled for Fiscal Year 2023-24. This is for equipment that was not included in the Microwave Network Transformation Project in order to maximize the assets usable lifespan. Come Fiscal Year 2023-24 this equipment, specifically the packet radios, antennas, feedhorns, transmission lines and associated equipment and services at the various sites will require replacing. Estimated cost of replacement based on budgetary quotes is \$590,168.63 and will be funded through the Carryover Restricted for Capital Replacement.

NOTE: This is not a General Fund Budget.

### ESTIMATED REVENUES

**640101**      **Interest on Cash** (\$5,000) is recommended increased \$2,255 based on projected returns on the cash balance of the Microwave Radio Fund.

**662742**      **Microwave Radio Service Charges** (\$518,375) is recommended decreased \$42,483. This income will be used to pay for the actual cost of operating, maintaining the microwave radio system, and the Carryover Restricted for Capital Replacement to fund the capital equipment replacement scheduled for Fiscal Year 2023-24.

## MICROWAVE RADIO SERVICES

### OPERATING EXPENSES

- 720800**      **Maintenance - Equipment** (\$129,827) is recommended increased \$1,369 for contracted maintenance services from Fresno County and maintenance agreements on equipment.
- \$80,000** Fresno County- Support Contract  
              **\$22,638** Contract # MCC No.10974-C-2017 Microwave Transformation  
              **\$2,737** Contract # MCC No. 11130-18 Government Center connection to MPLS Network  
              **\$9,238** Contract # MCC No. 11544-19 Maintenance Agreement 9500 MPR/TSM 8000  
              **\$10,398** Contract # MCC No. 11222-18 - Microwave Switches  
              **\$4,816** Contract # MCC No. 1501863-MDR 8000 TS Gold/HS MDR 8000 STD Repair 45 Days
- 721200**      **Miscellaneous Expenses – Sales Tax** (\$3,618) is recommended decreased \$ 2,669 to pay for sales tax associated with the capital lease.
- \$2,831** Lease Capital Equipment - Microwave Transformation Project - MCC No. 10974-C-2017  
              **\$787** Lease Capital Equipment - Switches - MCC No. - 11222-18
- 721400**      **Professional & Specialized** (\$2,300) is recommended increased \$300 to pay for consultant services and the FCC License.
- \$2,000** Infotech  
              **\$300** FCC License
- 721700**      **Rents & Leases - Building/Land** (\$224,822) is recommended unchanged and includes the costs for leasing existing tower space from private land owners.
- \$2,880** Mobile Communication, Inc. – Mt Buillon  
              **\$221,942** Massetti/Crown Castle/ City of Madera
- 721909**      **Miscellaneous Expenses – Property Tax** (\$2,105) is recommended unchanged to pay for property tax associated with the capital lease.
- \$2,105** Property Taxes- Capital Lease

**MICROWAVE RADIO SERVICES**

**OPERATING EXPENSES (continued)**

**730302**      **Retire Capital Lease** (\$43,860) is recommended decreased \$ 35,581 for the annual principal and interest payment for the new microwave radio equipment that is being acquired through a five-year lease/purchase agreement.

**\$34,320** Lease Capital Equipment - Microwave Transformation Project - MCC No. 10974-C-2017

**\$9,540** Lease Capital Equipment- Switches – MCC No. 11222-18

**731400**      **Interfund Expenses** (\$20,000) is recommended unchanged to appropriately assign labor expended from the Office of Information Technology to coordinate all microwave activities and upgrades.

**Carryover Restricted for Capital Replacement** of \$96,842 is recommended to be funded through unexpended/reserve funds from Fiscal Year 2020-21 and will be used toward equipment replacement in Fiscal Year 2023-24.