



Ohio Water
Development Authority

2019 Annual Report

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Fresh Water Loan Program



Water Pollution Control Loan Fund



Drinking Water Assistance Fund



Unsewered Area



Alternative Stormwater



Solid Waste



Economic Development



Brownfield



Research & Development

TO: THE GOVERNOR OF OHIO, MEMBERS OF THE GENERAL ASSEMBLY, AND CITIZENS OF THE STATE

The State of Ohio created the Ohio Water Development Authority (OWDA) to provide funding for construction of public water and wastewater infrastructure in Ohio to address the seemingly overwhelming problem of pollution that sickened Ohio's rivers and lakes in the 1960s and 70s. Since 1968, the Authority has funded the planning, design, and construction of over \$17.5 billion of water and wastewater projects.

In 2019, the Authority approved loans totaling \$903,611,763 for the planning and construction of water, sewer, brownfield remediation, and solid waste facilities. The Authority funded 385 projects in 86 of the 88 counties in Ohio. These projects replaced aging infrastructure, expanded capacity of treatment plants, installed technology for better water quality and addressed the treatment of harmful algal blooms.

Of the 385 awarded projects, 116 projects qualified for an interest rate of 0% through the Water Pollution Control Loan Fund and the Drinking Water Assistance Fund. The remaining awarded projects received an average interest rate of 1.65% for 20-years, 1.79% for 30-years & 1.29% for 45 years. These below market rates allowed local governments to construct necessary water and sewer improvements while minimizing the impact to user charges.

To respond to the 2019 loan demand and to take advantage of a low interest rate environment, the Authority raised over \$1,200,000,000 by issuing bonds in the Fresh Water Loan Fund Program, the Water Pollution Control Loan Fund, and the Drinking Water Assistance Fund. All six issuances received the highest possible bond rating from Moody's Investor Service, S&P Global Ratings, and Fitch Ratings.

The Authority continues to support research for the advancement of science in the areas of water and wastewater. In 2019, the Authority awarded 10 research and development grants related to nutrient removal, development of design standards for innovative water treatment systems, advanced treatment of secondary wastewater effluent, and control of total dissolved solids. The Authority awarded first time grants to Case Western Reserve University, Youngstown State University, and the Air Force Institute of Technology.

The Authority will continue to rely on our past strengths to meet the ongoing needs of the state.



James V. Stewart, Chairman



Ken J. Heigel P.E., Executive Director

2019 FINANCING

Since the Ohio Water Development Authority's creation in 1968, the Authority has always pursued borrowings that assure the Authority the lowest cost of funds in order to maintain low borrowing rates for the local governments of Ohio. Through this philosophy, OWDA has focused not only on the present needs of Ohio's local governments but also contributed to strengthening their financial futures. During 2019, the Authority completed six bond issuances to raise funds for the following programs:



FRESH WATER LOAN FUND



WATER POLLUTION CONTROL LOAN FUND



DRINKING WATER ASSISTANCE FUND

All six issuances received an AAA rating from Moody's Investor Service and an AAA rating from S&P Global Ratings and raised over \$1,200,000,000. The Authority was able to receive these ratings due to the strong credit quality and diversity of its loan pool along with its capacity to absorb high percentages of potential loan defaults without interruption in the payment of debt service.



\$150,000,000

Fresh Water Series 2019 *November 5, 2019*

AAA (Moody's Investors Service)
AAA (S&P Global Ratings)

Senior Manager

Loop Capital Markets

Co-Senior

UBS Financial Services, Inc

Co-Managers

Goldman Sachs & Co, Huntington
Capital Markets, and Drexel
Hamilton

True Interest Cost
3.11%

\$23,060,000

Community Assistance Refunding Series 2019 *December 5, 2019*

Aaa (Moody's Investors Service)
AAA (Fitch)

Senior Manager

UBS Financial Services, Inc.

True Interest Cost
1.637%



\$300,000,000

WPCLF Series 2019B

October 29, 2019

AAA (Moody's Investors Service)
AAA (S&P Global Ratings)

Senior Manager

Bank of America Merrill Lynch

Co-Senior Manager

Huntington Capital Markets

Co-Managers

Citi, PNC Capital Markets LLC,
Ramirez & Co., Inc., Wells Fargo
Securities

True Interest Cost

3.0%

\$450,000,000

WPCLF Series 2019A

March 14, 2019

AAA (Moody's Investors Service)
AAA (S&P Global Ratings)

Senior Manager

Bank of America Merrill Lynch

Co-Senior Manager

PNC Capital Markets LLC

Co-Managers

Citi, Goldman Sachs & Co, JP
Morgan, Morgan Stanley & Co,
and Ramirez & Co., Inc.

True Interest Cost

2.24%



\$250,000,000

DWAF Series 2019A

July 23, 2019

AAA (Moody's Investors Service)
AAA (S&P Global Ratings)

Senior Manager

RBC Capital Markets

Co-Senior Manager

Piper Jaffray

Co-Managers

Loop Capital Markets, Stifel,
Nicolas & Co, and TD Securities

True Interest Cost

1.81%

\$37,410,000

DWAF Refunding Series 2019B

December 5, 2019

AAA (Moody's Investors Service)
AAA (S&P Global Ratings)

Senior Managers

UBS Financial Services, Inc. and
Robert W. Baird & Co. Inc.

True Interest Cost

1.615%



FRESH WATER LOAN PROGRAM

The Ohio Water Development Authority created the Fresh Water Program in 1992 to provide financial assistance for planning, design, and construction of drinking water, wastewater, and storm water projects.

During 2019, the Authority awarded 93 loans totaling **\$140,059,110**; consisting of:

- 39 water construction loans for \$104,326,739;
- 29 wastewater construction loans for \$24,525,827
- 1 storm water construction loan for \$160,058
- 9 water planning and design loans for \$6,255,307
- 15 wastewater planning & design loans for \$4,791,179

Communities receiving loans under the Fresh Water Program can receive as much as a 1.0% discount to the standard interest rate. Loans to an individual local government at the 1.0% discount are limited annually to a total of \$15 million, with an additional \$10 million available at a 0.5% discount. Fresh Water loans have a maximum term of 30 years. The criteria for communities to receive each 0.5% interest rate discount are:

- to be under Findings and Orders from Ohio EPA
- to connect to another system for treatment services
- to have been a previous borrower from the Authority

- to purchase another system
- to address health concerns
- to have a state-approved Balanced Growth Plan.

Communities with a population less than 5,000 can apply for a Community Assistance loan. Created in 1997, the Community Assistance Program (CA), funded from the Fresh Water Program, provides construction loans to local governments at a rate lower than the Fresh Water Program interest rate if the projected sewer user charges are above 1.5% of the community's median household income (MHI) for wastewater projects; or the projected projected water user charges are above 1.1% of the community's MHI for water projects.

The Authority awarded 10 Community Assistance projects totaling \$3,961,213 in 2019. These projects provided funding for a water storage tank, a water treatment plant, waterlines, sanitary sewers, chemical pumps, modifications to a wastewater treatment plant, and water meter replacement.

2019 FRESH WATER INTEREST RATES



2019 COMMUNITY ASSISTANCE INTEREST RATES





WATER POLLUTION CONTROL LOAN FUND PROGRAM (WPCLF)

The WPCLF, administered by Ohio EPA and OWDA, started in 1989 from capitalization grants provided by the federal government through the Clean Water Act.

The WPCLF offers below market-rate loans to Ohio's communities to undertake improvements to their wastewater collection and treatment systems. During 2019, the WPCLF awarded 182 loans consisting of:

- 146 construction projects totaling \$598,863,117
- 36 planning and design projects totaling \$19,116,334

Ohio EPA established the Water Resource Restoration Sponsor Program (WRRSP) in 2000 to allow WPCLF loan recipients to sponsor environmental projects that benefit water quality. Various environmental organizations implement the projects, which can include the purchase of land or conservation easements, and the preservation and maintenance of wetlands, stream banks or conservation areas. During 2019, the WPCLF funded 14 WRRSP projects totaling \$19,434,660 to 3 communities: City of Akron, City of Washington Court House, and Northeast Ohio Regional Sewer District.



DRINKING WATER ASSISTANCE FUND LOAN PROGRAM (DWAF)

The DWAF Program was created during 1998 with capitalization grants from the US EPA, under the Safe Drinking Water Act Amendments of 1996, to provide funds to public water systems for the cost of facility improvements to meet Safe Drinking Water Act standards.

During 2019, the DWAF awarded 99 loans consisting of:

- 51 construction loans totaling \$109,203,480
- 48 planning and design loans for \$5,485,232





RESEARCH & DEVELOPMENT GRANT PROGRAM

The Authority awarded a total of ten project grants totaling **\$1,521,677** from the Research and Development (RD) Grant Fund.

Created in 1985, the RD Grant Program supports research to develop new and innovative means to treat, control, prevent or minimize pollution. OWDA works with other State agencies, universities or colleges, and local governments to develop cutting-edge methods and to pass them on to all of Ohio's communities to both protect the environment and provide financial savings. Since its inception, the RD Grant Program has awarded 166 grants totaling \$26,309,336.34.

The 2019 RD grants awarded cover a number of water-related topics:

Case Western Reserve University

was awarded a **\$200,000** grant for a project titled *Regeneration of phosphorus sorbing materials (PSMs) toward sustainable P removal from agricultural runoff and tile drainage*. This project seeks to develop cost-effective regeneration technologies for two phosphorus sorbing materials (PSMs)—steel metal shavings and iron-enhanced activated alumina, and optimizing performance toward reusable phosphorus removal from agricultural runoff. Results from this lab-scale project will be used to design structures for future field-scale tests.

The U.S. Geological Survey

was awarded a **\$170,000** grant for the project titled *Estimating low-flow statistics for gaged and ungaged stream locations on Ohio streams*. Low-flow stream statistics have a variety of uses in Ohio, including: water availability, resource assessment, and insurance applications. This project will update the most recently published low-flow stats, which are based on data that are now more than 22 years old. In addition, enough data now exists to compute low-flow stats for sites not previously included.

The Ohio State University

was awarded a **\$122,017** grant for a project titled *Rare earth element recovery during acid mine drainage treatment: Geochemical analysis and modeling*. This research seeks to better understand the mechanics of rare earth element release to acid mine drainage, and subsequent entrapment during treatment. This project will characterize processes responsible for rare earth element release to acid mine drainage, characterize mechanisms for rare earth element retention during treatment, and develop a predictive model for rare earth element recovery.

The Ohio State University

was awarded a **\$192,127** grant for the project titled *Developing second design standard to enable the use of innovative technology in Ohio public water systems*. This project is a continuation of a 2017 OWDA RD grant, which focused on low-pressure membrane technology. The goal for the current phase is to implement the process developed as part of Phase 1 for another innovative drinking water treatment technology, so that a demonstration study would no longer be required. The technology of focus will be determined with stakeholder input during the early stages of the project.

University of Toledo

was awarded a **\$180,933** grant for the project titled *Developing management plans for water treatment residuals in sludge lagoons for beneficial reuse application*. To protect against public health concerns, water treatment facilities have implemented additional measures to remove cyanobacteria and their cyanotoxins resulting in significantly increased costs and generation of large amounts of water treatment residuals (WTR). Concerns now exist regarding proper disposal of cyanobacteria-laden WTR. This project seeks to develop WTR management plans for water treatment plants to control cyanobacteria and toxins in sludge lagoons.

Air Force Institute of Technology

was awarded a **\$63,333** grant for the project titled *Advanced treatment of secondary wastewater effluents with UV LEDs*. Many emerging contaminants are present in the effluent from secondary wastewater treatment. UV LEDs are a low-cost option that have the potential to deal with these emerging contaminants. This lab-scale project will treat a series of pollutants with UV LED. Data will be collected for a range of concentrations and power settings to determine appropriate conditions for the subsequent phase of research—a one year pilot scale study.

The City of Wapakoneta

was awarded a **\$105,020** grant for the project titled *Evaluation of innovative solution to TDS control at the City of Wapakoneta WWTP*. A lab-scale pilot study of an innovative technology, Surface Assisted Crystallization (SACr), has already shown the potential to remove ~60% of measured Total Dissolved Solids. This project will further investigate this technology while operating at larger scales and longer operating times. Optimization of operating parameters will also be explored as part of this project. Additionally, the potential for beneficial reuse of the SACr byproduct (i.e., rejected crystals that are principally composed of calcite) will be investigated.

Youngstown State University

was awarded a **\$88,247** grant for the project titled *Microbial induced concrete corrosion in wastewater infrastructure*. Objectives of this proposal include: investigating sources of hydrogen sulfide gas to better understand microbial growth characteristics, investigating concrete corrosion mechanisms, and evaluating the efficacy of biocide application, surface treatment and epoxy mitigation measures. Results will provide insight from microbiological and materials science perspectives allowing for development of more effective mitigation strategies.

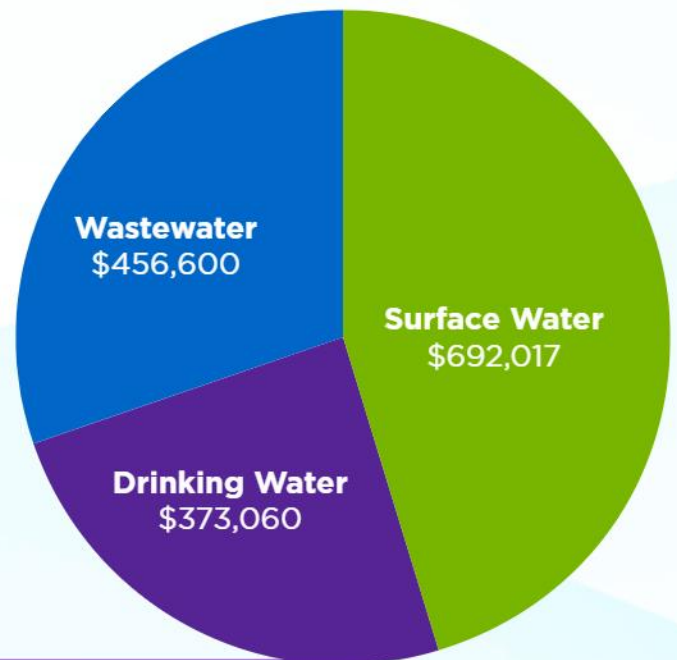
TOTAL
\$1,521,677

Ohio University

was awarded a **\$200,000** grant for the project titled *Techno-economic analyses and feasibility studies for electrochemical wastewater remediation on farmlands*. Under a 2016 OWDA R&D grant focused on swine manure, Ohio University developed an electrochemical-based technology that precipitates nutrients to produce struvite. This project seeks to enhance that technology by optimizing operating conditions and scalable design variables.

U.S. Geological Survey

was awarded a **\$200,000** grant for the project titled *Characterization of water quality, hydrology, and use of advanced DNA technologies in the Big Darby Creek basin, Ohio, to help better understand potential stressors on native freshwater mussels*. This study will characterize water quality in the Little and Big Darby Creeks, and test the use of a new quantification technique that has little to no environmental impact for obtaining relative abundance data for specific mussels in these two creeks. The results of this study will be used to demonstrate the feasibility of using these techniques to improve current survey methods, and provide a blueprint for developing these assays for other sites. From this, a better understanding of mussel reductions will be gained allowing for design of remediation efforts to sustain and/or rebuild populations.





UN-SEWERED AREA ASSISTANCE FUND

During 2019, the Authority awarded \$1,750,000 in grant funds from the Un-sewered Area Assistance (USAA)

Fund for four projects that will provide sewers to small and disadvantaged communities in Ohio. Developed in 2013 to address the dramatic financial need of small un-sewered areas, the OWDA Board created the USAA program to provide additional financial assistance to communities undertaking the construction of new sewage treatment projects that had received funding from multiple agencies, yet are still unaffordable.

To be eligible, communities must have documented failing individual septic systems and a median household income (MHI) below the State's average MHI, and documentation of application for other grant funds.

The following local governments were awarded funds from this program in 2019 to replace failing septic systems; Dexter City (\$750,000), Hocking County for the Union Furnace service area (\$500,000), Jefferson County for the Amsterdam service area (\$250,000) and Stark County for the Moreland Hills service area (\$250,000).



LOCAL ECONOMIC DEVELOPMENT LOAN PROGRAM

The Authority along with the State of Ohio Development Services Agency created the Local Economic Development Loan Program in 1995 to provide financial assistance to local governments for the construction of water and sewer projects needed for potential industries making a significant investment in the state and creating new jobs. In 2019, the Authority approved one local economic development loan.

BORROWER	PROJECT	AMOUNT
Asthabula County Port Authority	Waterline Extension for ASHTA Chemicals	\$7,238,378
City of New Albany	Blacklick Trunk Sewer Phase 2A	\$11,700,000



SOLID WASTE LOAN FUND

The Authority created the Solid Waste Loan Program in 1990 to provide financial assistance for the acquisition and construction of solid waste facilities such as materials recovery facilities, compost facilities, transfer stations, landfills, and incinerators. In 2019, the Authority awarded one solid waste loan.

BORROWER	PROJECT	AMOUNT
Medina County	Building modifications for the installation of new material and sorting equipment	\$1,505,250



BROWNFIELD LOAN PROGRAM

The Authority along with the State of Ohio Development Services Agency created the Brownfield Loan Program in 1995 to provide financial assistance for the undertaking of any "voluntary action" and thereby providing funding for the cleanup of contaminated property. In 2019, the Authority approved four brownfield loans.

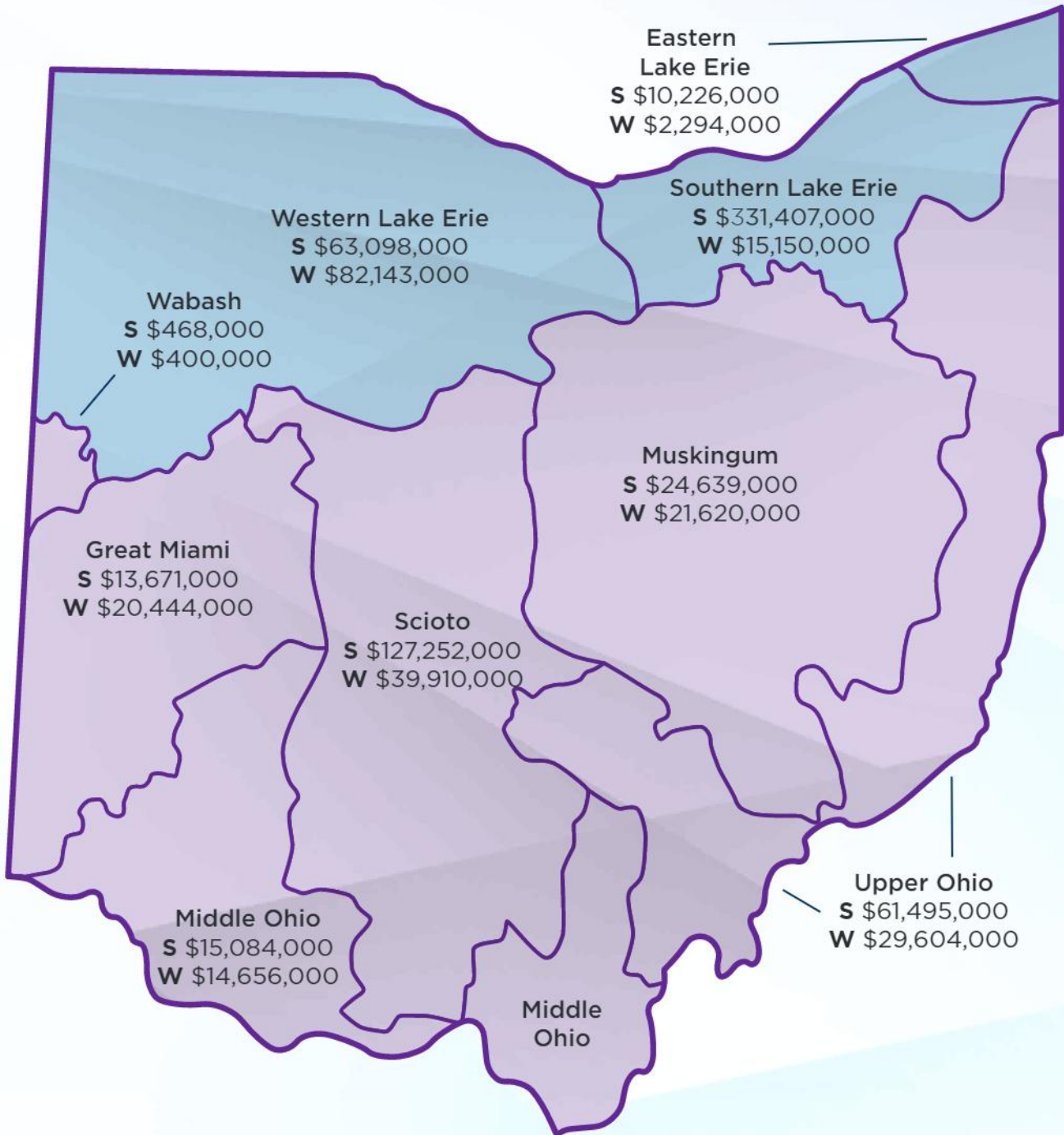
BORROWER	AMOUNT
75 Public Square Ohio LLC, Cleveland	\$3,000,000
HH Cleveland Huntington LP, Cleveland	\$5,000,000
Bexley Parks LLC, Bexley	\$308,260
KDL Properties, Columbus	\$750,000

LOAN HISTORY BY COUNTY



2019 LOAN VOLUME BY WATERSHED

S: Sewer **W:** Water



SUMMARY OF LOANS

	2019		2018		
	#	AMOUNT	#	AMOUNT	% OF 2018
PLANNING					
Water	57	\$11,740,540	56	\$4,692,382	250.2%
Wastewater	51	\$23,907,515	40	\$31,350,225	76.3%
SUBTOTAL	108	\$35,648,055	96	\$36,042,607	98.9%
CONSTRUCTION					
Water	90	\$213,530,220	93	\$285,172,535	74.9%
Wastewater	176	\$623,181,600	180	\$590,450,283	105.6%
Brownfield	4	\$9,058,260	1	\$5,000,000	181.2%
Local Economic Development	2	\$18,938,378	3	\$7,386,423	256.4%
Loan Advance	0	\$0	2	\$15,663,870	0.0%
Un-Sewered Area Assistance	4	\$1,750,000	4	\$2,750,000	63.6%
Solid Waste	1	\$1,505,250	1	\$1,204,200	125.0%
SUBTOTAL	277	\$867,963,708	284	\$907,627,311	95.7%
TOTAL	385	\$903,611,763	380	\$943,669,918	95.8%

OWDA'S PARTNERS



Ohio Environmental Protection Agency

Since 1989, OWDA has administered the Water Pollution Control Loan Fund with OEPA; and since 1998 the Drinking Water Assistance Fund. These two programs have served over 600 communities, and have saved Ohioans \$1.62 billion through low interest loans and principal forgiveness.



USDA Rural Development

Since 1996, OWDA has provided short-term financing for the construction of water and sewer facilities that will receive long-term financing from the United States Department of Agriculture. OWDA has funded 41 water projects totaling \$78M.



Development Services Agency



LOCAL ECONOMIC DEVELOPMENT

Since 1995, OWDA had funded 45 projects for \$130M to provide financing for water and sewer projects for industries making significant investment in the state and creating new jobs.



BROWNFIELD

Since 1995, OWDA has awarded 28 projects for \$67M for the cleanup of contaminated sites for applicants who have elected to participate in Ohio EPA's Voluntary Action Program.



ALTERNATIVE STORMWATER

Since 2010, OWDA has funded 9 projects for \$38M to promote projects that are environmentally beneficial by reducing stormwater runoff, pollutant loads, and protecting streambank erosion.

WATER PLANNING

RECIPIENT	COUNTY	AMOUNT
Akron	Summit	\$897,506
Alexandria	Licking	\$50,168
Andover	Ashtabula	\$33,246
Bailey Lakes	Ashland	\$10,000
Barberton	Summit	\$596,647
Belmont County	Belmont	\$20,170
Botkins	Shelby	\$20,170
Byesville	Guernsey	\$10,000
Cadiz	Harrison	\$197,632
Caldwell	Noble	\$20,170
Carrollton	Carroll	\$18,143
Coal Grove	Lawrence	\$417,157
Coshocton	Coshocton	\$493,090
Danville	Knox	\$60,275
Darbyville	Pickaway	\$10,000
Glendale	Hamilton	\$211,362
Granville	Licking	\$10,000
Harrison	Hamilton	\$709,450
Hayesville	Ashland	\$159,055
Hiram	Portage	\$7,500
Huron	Erie	\$24,224
Kenton	Hardin	\$68,918
La Rue	Marion	\$79,483
Lakemore	Summit	\$18,379
Liberty Center	Henry	\$24,224
Lowell	Washington	\$29,450

RECIPIENT	COUNTY	AMOUNT
Marietta	Washington	\$1,347,647
Montgomery County	Montgomery	\$779,821
Mount Eaton	Wayne	\$211,078
Nelsonville	Athens	\$10,000
New Waterford	Columbiana	\$290,520
Northwest Water District	Williams	\$10,000
Oak Harbor	Ottawa	\$85,945
Ottawa	Putnam	\$346,364
Piqua	Miami	\$10,000
Pomeroy	Meigs	\$10,000
Portersville East Branch Water Co.	Morgan	\$57,359
Reynoldsburg	Franklin	\$10,000
Ripley Union Rural Water Assn.	Brown	\$20,170
Shreve	Wayne	\$20,170
Somerset	Perry	\$67,616
Springfield	Clark	\$1,565,455
Steubenville	Jefferson	\$10,000
Sunday Creek Valley Water District	Athens	\$94,985
Tuscarawas County	Tuscarawas	\$255,893
Wapakoneta	Auglaize	\$1,707,129
Washingtonville	Columbiana	\$20,170
Wayne	Wood	\$20,170
West Salem	Wayne	\$20,170
Wilmington	Clinton	\$199,496
Woodville	Sandusky	\$25,238
Zanesville	Muskingum	\$348,725
TOTAL		\$11,740,540

SEWER PLANNING

RECIPIENT	COUNTY	AMOUNT
Ashtabula County	Ashtabula	\$120,320
Bowling Green	Wood	\$285,650
Bremen	Fairfield	\$175,900
Butler	Richland	\$604,000
Byesville	Guernsey	\$355,992
Carroll	Fairfield	\$120,420
Chagrin Falls	Cuyahoga	\$700,000
Coalton	Jackson	\$372,750
Crestline	Crawford	\$405,440
Dayton	Montgomery	\$520,378
Delphos	Allen	\$230,120
Dexter City	Noble	\$351,917
Dupont	Putnam	\$268,793
Fostoria	Hancock	\$334,350
Geauga County	Geauga	\$498,958
Genoa	Ottawa	\$84,565
Hillsboro	Highland	\$50,000
Hocking County	Hocking	\$300,000
Kenton	Hardin	\$270,000
Laurelville	Hocking	\$237,750
Logan County	Logan	\$193,600
Manchester	Adams	\$185,000

RECIPIENT	COUNTY	AMOUNT
Miamisburg	Montgomery	\$267,750
Middleport	Meigs	\$202,620
Mingo Junction	Jefferson	\$575,060
Montgomery County	Montgomery	\$4,901,074
Morrow County	Morrow	\$134,100
Napoleon	Henry	\$120,000
Nelsonville	Athens	\$714,011
New London	Huron	\$360,631
New Straitsville	Perry	\$36,080
Newark	Licking	\$2,436,000
Northeast Ohio Regional Sewer District	Cuyahoga	\$3,265,798
Oak Harbor	Ottawa	\$381,330
Pataskala	Licking	\$129,360
Pike County	Pike	\$350,000
Roswell	Tuscarawas	\$42,400
Toronto	Jefferson	\$873,760
Valleyview	Franklin	\$75,400
Warren	Trumbull	\$895,154
West Farmington	Trumbull	\$694,410
West Union	Adams	\$251,416
Wilmington	Clinton	\$435,258
Zanesville	Muskingum	\$100,000
TOTAL		\$23,907,515

WATER CONSTRUCTION

RECIPIENT	COUNTY	AMOUNT
Akron	Summit	\$10,940,589
Allen Water District	Allen	\$97,583
Ashtabula County	Ashtabula	\$306,052
Avon Lake	Lorain	\$2,710,400
Bellevue	Sandusky	\$959,670
Bowling Green	Wood	\$1,118,955
Brilliant Water & Sewer District	Jefferson	\$513,591
Bryan	Williams	\$399,776
Buckeye Water District	Columbiana	\$1,102,516
Byesville	Guernsey	\$6,949,380
Canton	Stark	\$3,044,827
Cardington	Morrow	\$1,114,542
Choctaw Utilities, Inc.	Madison	\$2,450,600
Cincinnati	Hamilton	\$8,631,124
Columbus	Franklin	\$30,758,749
Conneaut	Ashtabula	\$301,050
Darbyville	Pickaway	\$50,400
DeGraff	Logan	\$2,495,325
Elida	Allen	\$602,100
Franklin County	Franklin	\$3,166,795
Glendale	Hamilton	\$148,493
Hamler	Henry	\$240,000
Highland Ridge Water Association	Washington	\$566,357
Huber Heights	Montgomery	\$12,224,175
Jacksonville	Athens	\$339,945
Jefferson County	Jefferson	\$341,132
Jewett	Harrison	\$3,306,853
Kenton	Hardin	\$645,966
La Rue	Marion	\$31,882
Leading Creek Conservancy District	Meigs	\$6,980,428
Logan	Hocking	\$2,373,016
Louisville	Stark	\$1,578,521

RECIPIENT	COUNTY	AMOUNT
Marietta	Washington	\$1,105,262
Mercer County	Mercer	\$399,845
Montgomery County	Montgomery	\$2,569,346
Muskingum County	Muskingum	\$787,882
New Holland	Pickaway	\$191,530
New Waterford	Columbiana	\$977,694
Northwestern Water & Sewer District	Wood	\$3,220,600
Oak Harbor	Ottawa	\$915,408
Oregon	Lucas	\$2,502,676
Paulding	Paulding	\$279,977
Pemberville	Wood	\$372,717
Phillipsburg	Montgomery	\$70,390
Philo	Muskingum	\$223,880
Put-in-Bay	Ottawa	\$1,686,782
Saint Clairsville	Belmont	\$877,624
Scioto Water, Inc.	Scioto	\$1,117,156
Sheffield	Lorain	\$332,203
Sheffield Lake	Lorain	\$250,875
Shreve	Wayne	\$89,400
Spencerville	Allen	\$632,680
Steubenville	Jefferson	\$6,896,113
Sycamore	Wyandot	\$240,067
Toledo	Lucas	\$65,998,880
Toronto	Jefferson	\$816,522
Tuppers Plains-Chester Water District	Meigs	\$6,505,795
Tuscarawas County	Tuscarawas	\$147,093
Waverly	Pike	\$1,330,812
Wellston	Jackson	\$218,764
West Salem	Wayne	\$190,330
West Unity	Williams	\$654,194
Wilmington	Clinton	\$3,692,234
Woodville	Sandusky	\$1,654,046
Yorkville	Jefferson	\$90,651
TOTAL		\$213,530,220

SEWER CONSTRUCTION

RECIPIENT	COUNTY	AMOUNT
Aberdeen	Brown	\$834,461
Adams County	Adams	\$150,000
Akron	Summit	\$226,464,069
Allen County	Allen	\$150,000
Anna	Shelby	\$825,282
Ashtabula County	Ashtabula	\$150,000
Athens County	Athens	\$150,000
Barberton	Summit	\$178,889
Bedford	Cuyahoga	\$805,400
Botkins	Shelby	\$348,215
Brown County Health Department	Brown	\$150,000
Bucyrus	Crawford	\$3,244,041
Butler	Richland	\$13,906,069
Butler County	Butler	\$150,000
Byesville	Guernsey	\$241,606
Carey	Wyandot	\$10,813,000
Carroll County	Carroll	\$150,000
Clark County	Clark	\$150,000
Clermont County General Health District	Clermont	\$150,000
Cleveland	Cuyahoga	\$15,769,724
Columbiana County Health Department	Columbiana	\$150,000
Columbus	Franklin	\$19,799,655
Columbus Public Health	Franklin	\$150,000
Coshocton County	Coshocton	\$50,000
Crawford County General Health District	Crawford	\$150,000
Cuyahoga County	Cuyahoga	\$948,493
Cuyahoga County Board of Health	Cuyahoga	\$150,000
Darke County General Health District	Darke	\$150,000
Defiance	Defiance	\$3,902,318
Defiance County General Health District	Defiance	\$150,000
Dexter City	Noble	\$1,700,551
Doylestown	Wayne	\$37,400
Eastlake	Lake	\$618,338
Elyria	Lorain	\$12,267,762
Erie County Health Department	Erie	\$150,000
Fairfield County Department of Health	Fairfield	\$150,000

RECIPIENT	COUNTY	AMOUNT
Fayette County Soil & Water Conservation District	Fayette	\$150,000
Franklin County	Franklin	\$1,362,017
Franklin County Public Health	Franklin	\$150,000
Fulton County Health Department	Fulton	\$150,000
Galena	Delaware	\$100,661
Gallia County	Gallia	\$150,000
Geauga County Health District	Geauga	\$150,000
Geneva	Ashtabula	\$5,980,158
Gibsonburg	Sandusky	\$283,689
Grafton	Lorain	\$886,318
Green Springs	Sandusky	\$149,000
Hamilton County	Hamilton	\$150,000
Hancock County	Hancock	\$150,000
Hardin County	Hardin	\$100,000
Harrison County General Health District	Harrison	\$150,000
Henry County	Henry	\$100,000
Highland County General Health District	Highland	\$150,000
Hillsboro	Highland	\$2,851,433
Hocking County	Hocking	\$1,891,216
Holmes County	Holmes	\$150,000
Jackson County Health Department	Jackson	\$150,000
Jefferson County	Jefferson	\$5,419,964
Kenton	Hardin	\$2,380,004
Lake County General Health District	Lake	\$150,000
Lawrence County Health Department	Lawrence	\$150,000
Lewisburg	Preble	\$50,000
Licking County Health Department	Licking	\$150,000
Lima	Allen	\$5,627,665
Lindsey	Sandusky	\$324,076
Logan County Health District	Logan	\$150,000
Lorain	Lorain	\$1,366,824
Lorain County Public Health	Lorain	\$150,000
Madison County/London City Health District	Madison	\$94,000
Mahoning County District Board of Health	Mahoning	\$150,000
Manchester	Adams	\$1,962,200

CHART CONTINUED | SEE NEXT PAGE

SEWER CONSTRUCTION

RECIPIENT	COUNTY	AMOUNT
Marietta	Washington	\$759,209
Marion	Marion	\$30,898,350
Marion County Public Health	Marion	\$150,000
Medina County	Medina	\$150,000
Meigs County General Health Department	Meigs	\$90,000
Mercer County	Mercer	\$467,850
Miami County Public Health	Miami	\$150,000
Middleport	Meigs	\$2,127,820
Monroe County	Monroe	\$150,000
Montgomery County	Montgomery	\$4,490,685
Montpelier	Williams	\$2,301,817
Morgan County	Morgan	\$150,000
Muskingum County	Muskingum	\$150,000
Napoleon	Henry	\$1,468,306
Nelsonville	Athens	\$5,042,463
New Holland	Pickaway	\$90,600
Newark	Licking	\$3,171,990
North Royalton	Cuyahoga	\$3,074,603
Northeast Ohio Regional Sewer District	Cuyahoga	\$30,416,893
Northwestern Water & Sewer District	Wood	\$3,128,504
Ottawa	Putnam	\$2,821,364
Ottawa County Health Department	Ottawa	\$150,000
Paulding	Paulding	\$3,572,314
Paulding County Health Department	Paulding	\$150,000
Pickaway County General Health District	Pickaway	\$150,000
Pike County General Health District	Pike	\$150,000
Pleasant Valley Regional Sewer District	Ross	\$461,382
Port Clinton	Ottawa	\$453,432
Portage County Combined General Health District	Portage	\$150,000
Putnam County Health Department	Putnam	\$150,000
Richland County Public Health	Richland	\$150,000
Roseville	Muskingum	\$160,058
Ross County	Ross	\$150,000
Sandusky	Erie	\$9,007,334

RECIPIENT	COUNTY	AMOUNT
Sandusky County Health Department	Sandusky	\$150,000
Sardinia	Brown	\$180,649
Scioto County	Scioto	\$186,836
Seneca County General Health District	Seneca	\$150,000
Shelby	Richland	\$508,226
Shiloh	Richland	\$4,784,123
Silver Lake	Summit	\$100,000
South Point	Lawrence	\$50,000
Stark County Health Department	Stark	\$150,000
Summit County	Summit	\$25,180,610
Swanton	Fulton	\$1,065,731
Tiffin	Seneca	\$14,337,500
Toledo-Lucas County Health Department	Lucas	\$150,000
Toronto	Jefferson	\$1,756,181
Trumbull County	Trumbull	\$34,854,035
Tuscarawas County Health Department	Tuscarawas	\$150,000
Union City	Darke	\$625,000
Union County Health Department	Union	\$150,000
Urbana	Champaign	\$698,618
Vinton County	Vinton	\$60,000
Warren	Trumbull	\$3,112,300
Warren County Combined Health District	Warren	\$100,000
Washington County	Washington	\$215,804
Washington County Health Department	Washington	\$150,000
Washington Court House	Fayette	\$65,566,851
Wayne County Health Department	Wayne	\$150,000
West Union	Adams	\$10,035,618
Williams County Health Department	Williams	\$150,000
Williamsburg	Clermont	\$88,907
Willoughby	Lake	\$2,567,279
Wood County Health District	Wood	\$150,000
Woodsfield	Monroe	\$326,117
Wyandot County General Health District	Wyandot	\$150,000
Zanesville	Muskingum	\$241,743
TOTAL		\$623,181,600

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Ohio Water
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