



BECC Development Assistance Programs (PDAP/BEIF)

Integrating Environmental Solutions for the US-Mexico Border



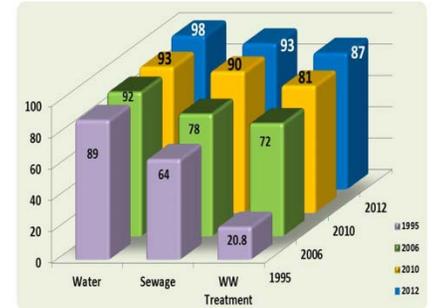
EPA's US-Mexico Water Infrastructure Program

Since 1997, the **U.S.-Mexico Border Water Infrastructure Program**, funded by Congress through EPA, has awarded grants to water and wastewater systems in the border region through the **Project Development Assistance Program (PDAP)** for project development and design and the **Border Environment Infrastructure Fund (BEIF)** for construction, programs administered by BECC and NADB, respectively. Notable program accomplishments include:

- More than **\$40 million** in PDAP technical assistance grants for project development in **160+ communities**. Approximately **85%** of these funds have led to projects already implemented or under development.
- \$623 million** in BEIF funds committed to the implementation of **110 water and wastewater projects** in the United States and Mexico. Of that amount **\$589.8 million** has been disbursed for project implementation, which represents **95%** of the funds contracted for projects.
- Every project, whether located in the US or Mexico, has provided an environmental and human health benefit for the U.S.
- A leveraging strength of more than **\$2.00** of other sources to every **\$1.00** BEIF reflects the program's ability as a catalyst for other stakeholder participation.
- A capacity to eliminate more than **400 million gallons per day** of untreated or inadequately treated wastewater discharges has been achieved, equivalent to the wastewater discharge of nearly **8 million persons** or **1.86 million households**.
- Influenced by the availability of this critical bi-national funding program, a **significant increase of investment by Mexico** has been experienced in the border region through programs of the *Comisión Nacional del Agua* (National Water Commission).

PDAP/BEIF Investments Water Infrastructure Projects			
	Total Quantity	# in U.S.	# in Mexico
Water Treatment Facilities	21	17	4
Water Distribution Systems	31	18	13
Wastewater Treatment Plants	55	23	32
Wastewater Collection Systems	87	34	53

Service Coverage (%) - 100 Km Region in Mexico



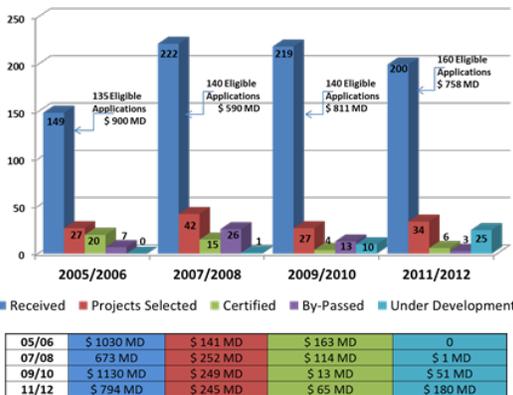
Wastewater treatment coverage in the Mexican border region increased from **21% to 87%** between 1995 and 2012; while the current national average is approximately **46%**.

Economic Impact: Water Infrastructure

Interested in documenting the role of infrastructure investment as a driver or catalyst for new private sector economic activity and job/wealth creation, BECC conducted an **Economic Impact Study** to determine the extent to which water and wastewater infrastructure improvements **create/enhance economic opportunities in the community**. The study was supported by data calculated from the Bureau of Economic Analysis RIMS II model for five US communities. In terms of infrastructure and well-being, the study concluded that **\$1 million invested in water and wastewater infrastructure over 10 years** results in: **\$11.1 million** in private sector investment; **221 new jobs** created; **\$1.7 million** in tax revenue; **\$52.2 million** in goods produced by the private sector.

On-Going Investment Needs

On-Going Investment Needs – US Border Region



by-passed projects are still eligible for future funding consideration

132 of these projects propose to provide first-time access to these basic services. Approximately \$664 million of eligible projects were evaluated and a total of **28 projects from this list, worth an estimated \$209 million in construction costs**, have been selected as candidates to receive PDAP funding to advance their development. Detailed information on the FY 11/12 Prioritization process, including selected projects, can be found on BECC's website at www.becc.org

FY11-12 Prioritization Cycle	Number of Applications	Estimated Construction Cost USD
California	22	\$125,740,229.00
Arizona	11	\$20,665,871.00
Texas	54	\$266,133,733.00
New Mexico	11	\$40,404,551.00
Total MX	98	\$452,944,384.00

FY11-12 Prioritization Cycle	Number of Applications	Estimated Construction Cost USD
Baja California	43	\$105,690,269.00
Sonora	10	\$27,594,189.00
Tamaulipas	30	\$150,853,543.00
Coahuila	8	\$13,397,690.00
Chihuahua	11	\$44,476,103.00
Total MX	102	\$342,011,794.00

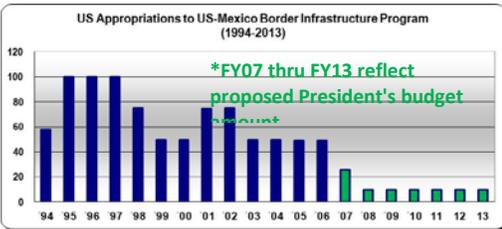


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Historically, contributions to the program have been on the order of \$50M to \$100M, annually. Since 2008 the president's proposed budget for this program has greatly diminished to only \$10M annually. This budget has consistently been increased to between \$20M and \$25M by congress through the appropriations process. The president's budget for FY2013 proposed **only \$10 million** for the US-Mexico Border Program, an insufficient amount to address the total remaining documented needs of more than **\$460 million**.



Success through Effective Program Management

In 2008, EPA's Office of Inspector General (OIG) published an audit report entitled "Improvements Needed to Ensure Grant Funds for U.S.-Mexico Border Water Infrastructure Program are Spent More Timely." EPA, in coordination with its program partners – BECC and NADB, developed and implemented strategies to achieve a more effective and efficient use of program resources. These program modifications, which had initiated several years prior to the OIG report, included:

implementation of a Biannual **Project Prioritization Process**; issuance of the **By-pass and Schedule Provision** (2-years for project development and certification; 3 ½ years for financing and project implementation); enactment of the **Policy for US-Mexico Border Program** (aimed at optimizing project completion rates); and, development of a program **Transition Plan** – (which defines an approach to decouple grant awards for project planning/design and construction). With these program improvements, **total unliquidated BEIF balances, once as high as \$320 million, have been reduced to less than \$98.5 million** even with the continuation of annual funding award to BEIF.

FY11/12 PROJECT CANDIDATES FOR PDAP FUNDING

Project Name		Location	Ben. Pop.	Est. Construction Cost from Application(US\$)
AZ	Drinking Water Quality Improvement (Arsenic Removal)	Pomerene	375	\$628,500
	Wastewater Collection System Extension to Sulger Subdivision	Sierra Vista	390	\$3,121,507
	Wastewater Treatment Plant Improvements	Willcox	3,900	\$7,203,199
CA	Wastewater Treatment Plant Improvements	Holtville	6,699	\$4,715,906
	Wastewater Treatment Plant Improvements	Niland	1,153	\$6,262,000
NM	Anthony Water and Sanitation District Lift Station Replacement	Anthony	9,000	\$1,562,500
	Mesilla Water System Improvements	Mesilla	2,196	\$535,592
	Sunland Park North Wastewater Plant Replacement	Sunland Park	18,580	\$16,626,000
TX	Brownsville-Wastewater Collection System Improvements to FM511-802 Colonia Project	Brownsville	3,437	\$17,372,566
	Cuadrilla WWTP	Cuadrilla	108	\$650,000
	North Alamo Regional Sanitary Sewer Collection System Phase I and WWTP	Edinburg	8,250	\$9,738,062
	Marathon WS Wastewater Collection System Rehabilitation	Marathon	755	\$1,500,000
	AGUA SUD - East Sewer Project	Palmview	31,027	\$44,260,000
	Presidio Water System Improvement	Presidio	6,495	\$1,834,000
	Cotton Valley First-Time Wastewater Collection, Lower Valley Water District	Socorro	650	\$1,052,637
	Tornillo Arsenic Treatment	Tornillo	3,400	\$1,975,000
	Rehabilitation of wastewater collection system in colonias Loma Linda and Esperanza	Mexicali	2,568	\$1,439,988
	Wastewater collection system and Treatment Plant for Colonia Nueva Hindú	Tecate	7,995	\$4,400,000
BC	Rehabilitation of wastewater basic lines	Tijuana	130,950	\$5,277,752
	Water and wastewater distribution system and construction of Treatment Plant *	Agua Prieta	68,144	\$6,665,000
SON	Expansion of the water and wastewater distribution system	Nogales	68,000	\$12,421,000
	Drinking Water Distribution and Wastewater Collection Expansion	Nogales	34,560	\$12,421,000
	Expansion of the water and wastewater distribution system in Topahue I y Topahue II	San Luis Rio	16,000	\$2,800,000
	Expansion of the Wastewater Collection System in Avenidas B	San Luis Rio	23,500	\$5,363,485
	Wastewater Collection Expansion to Un-served areas Colonia La Mision, and Colonia El Sauz, Sewer Main Rehabilitation and Wastewater Treatment Plant	Camargo	11,000	\$2,880,000
TAMP	Comprehensive Wastewater Collection and Treatment Project	Diaz Ordaz	15,000	\$6,000,000
	Matamoros West Wastewater Treatment Plant Construction (First Phase 12.3 MGD)	Matamoros	184,524	\$11,804,065
	West Wastewater Conveyance System and Lift Stations Construction (First phase)	Matamoros	147,300	\$28,313,071
	Wastewater collection system expansion, wastewater conveyance system and lift stations	Matamoros	39,604	\$12,768,181
	Wastewater Collection System Rehabilitation and Wastewater Treatment Plant Construction	Nva. Cd. Guerrero	5,200	\$1,380,000
	WW Collection Improvements - Disconnection from Storm Water Sewer	Nuevo Laredo	80,269	\$4,802,773
	Wastewater Treatment Capacity Expansion	Reynosa	228,814	\$22,341,701
	Construction of the Lift Station # 278	Reynosa	16,033	\$2,735,153
	Construction of the Lift Station # 1	Reynosa	68,632	\$6,627,624
	Water distribution system expansion to unserved areas and water treatment plant No.2	Matamoros	12,588	\$7,500,000
Total 35 Projects Selected (Certified Projects/By-passed*)			1,257,096	\$276,978,262