

Pennsylvania Fish and Boat Commission
Report of Activities and Projects Funded through Growing Greener 2 (Updated May 2017)

In July 2005, the Pennsylvania Fish and Boat Commission (PFBC) joined the rest of the Commonwealth in welcoming the enactment of Growing Greener 2, a voter-approved plan that invests \$625 million in environmental programs. Included in this legislation is an allotment of \$27.5 million for state facilities and lands managed by the PFBC. The PFBC approved the use of Growing Greener 2 funds for critical infrastructure upgrades at Commonwealth-owned fish hatcheries and dams.

State Fish Hatchery Rehabilitation and Environmental Compliance Projects

Tylersville State Fish Hatchery - This effluent treatment and infrastructure improvement project incorporates the latest aquaculture effluent treatment technology into the hatchery. This effluent upgrade project includes the installation of a high flow capacity microscreen filter system for total hatchery flow, incidental utility and site repairs, and emergency power backup.

The project cost \$1,762,741.14 and is complete.

TYLERSVILLE STATS

- **Originally Constructed:** 1963 by the United States Fish and Wildlife Service
- **Employees:** 8 full-time, 2 wage/seasonal
- **Average Trout Production:** 254,000 lbs.

Pleasant Gap State Fish Hatchery - This effluent treatment and infrastructure improvement project includes the installation of a high flow capacity microscreen filter system for total hatchery flow. Other improvements include a partial recirculation and disinfection system, off-line aerated sludge storage tank, incidental utility and site repairs, and power backup.

The project cost \$1,511,640.03 and is complete.

PLEASANT GAP STATS

- **Originally Constructed:** 1903
- **Employees:** 9 full-time, 2 wage/seasonal
- **Average Trout Production:** 260,000 lbs.

Bellefonte State Fish Hatchery - This effluent treatment and infrastructure improvement project includes the installation of a high flow capacity microscreen filter system for total hatchery flow and new clarifier. Improvements include partial recirculation and disinfection system and incidental utility and site repairs.

The project cost \$3,557,885.49 and is complete as of November 30, 2010.

BELLEFONTE STATS

- **Originally Constructed:** 1933
- **Employees:** 10 full-time, 1 wage/seasonal
- **Average Trout Production:** 330,000 lbs.

Benner Spring State Fish Hatchery - This effluent treatment and infrastructure improvement project includes the installation of a high flow capacity microscreen filter system for total hatchery flow. Improvements include partial recirculation and disinfection system, off-line aerated sludge storage tank, modifications to the settling pond, and utility and site repairs.

The project cost \$3,834,986.70 and is complete as of November 30, 2010.

BENNER SPRING STATS

- **Originally Constructed:** 1952
- **Employees:** 11 full-time, 2 wage/seasonal
- **Average Trout Production:** 340,000 lbs.
- **Also Produces:** purebred muskellunge, tiger muskellunge, walleye

Huntsdale State Fish Hatchery - This effluent treatment and infrastructure improvement project includes the installation of a high flow capacity microscreen filter system for total hatchery flow. Improvements include a new settling pond, new domestic sewage treatment facility, incidental utility and site repairs, and emergency power backup.

The project cost \$4,935,261.81 and is complete as of November 30, 2010.

HUNTSDALE STATS

- **Originally Constructed:** 1932
- **Employees:** 9 full-time, 3 wage/seasonal
- **Average Trout Production:** 260,000 lbs.

Corry State Fish Hatchery - This improvement project includes the final development of a new water supply well, installation of 6,700 feet of transmission pipeline from the well to the hatchery, upgrade of the alarm system, and the installation of a new emergency power backup system. The waterline and water source improvements are being funded by the PFBC and are estimated to cost \$600,000. A new emergency generator system has been installed, a hydrogeological study was completed, and a new alarm system has been completed.

Growing Greener 2 expenditures for these elements of the project were \$310,092.03.

CORRY STATS

- **Originally Constructed:** 1876
- **Employees:** 6 full-time, 2 wage/seasonal
- **Average Trout Production:** 193,000 lbs.

Reynoldsdale State Fish Hatchery - This improvement project will completely modernize the hatchery to bring it up to par with current fish propagation technology. This project will include replacing antiquated earthen raceways with new flow-through raceways, installation of a modern oxygen supplementation system, new effluent treatment system, and a new emergency power backup. This project is currently under way and the estimated cost to design and construct the project is \$8,139,883.60.

To date, \$7,845,772.04 has been expended for design and construction.

REYNOLDSDALE STATS

- **Originally Constructed:** 1928
- **Employees:** 7 full-time, 2 wage/seasonal
- **Average Trout Production:** 140,000 lbs.

Linesville State Fish Hatchery - This improvement project involves major upgrades to this coolwater/warmwater facility to include reconstruction/reconfiguration of numerous ponds including installation of impervious linings, new outlet and harvest structures, additional settling ponds, reservoir water pretreatment, hatch house filtration, and emergency power backup system. Due to limited Growing Greener 2 funding, this project has been put on hold. The estimated cost of the project is \$2.87 million.

To date, \$39,886.99 has been expended to make much needed well repairs, silo tank valve replacements, 12" pond pipelines, and alarm system upgrades.

LINESVILLE STATS

- **Originally Constructed:** 1939
- **Employees:** 8 full-time, 1 wage/seasonal
- **Produces:** steelhead trout, brown trout, crappie, bluegill, channel catfish, fathead minnow, largemouth bass, paddlefish, purebred muskellunge, redear sunfish, smallmouth bass, tiger muskellunge, walleye, yellow perch

Union City State Fish Hatchery - This infrastructure improvement project will include the development of additional wells, installation of heat exchangers, pond consolidation/reconfiguration, installation of impervious liners, alarm system upgrades, modern effluent treatment for hatch house, general electrical upgrades, and installation of an emergency power backup system. Due to limited Growing Greener 2 funding, this project has been put on hold. The estimated cost of the project is approximately \$1 million.

UNION CITY STATS

- **Originally Constructed:** 1905
- **Employees:** 3 full-time, 2 wage/seasonal
- **Produces:** fathead minnow, northern pike, purebred muskellunge, tiger muskellunge, walleye

To date, \$78,322.56 has been expended to install a new heat exchange system for the hatchery building.

Miscellaneous/Small Hatchery Related Projects

Small, infrastructure related improvement projects were completed at four state fish culture stations:

Fairview – Installed new trash pump and alarm system, repaired intake device from Trout Run intake, and upgraded steelhead collection area, total expenditures \$37,734.28.

Pleasant Mount - Replaced intake and pipeline for hatchery water supply system from river source to head –end of hatchery, total expenditures \$53,653.43.

Tionesta – Constructed new generator building and installed generator, replaced pond system fill line, and upgraded hatchery alarm system, total expenditures \$106,677.39.

Oswayo – Designed pipeline, generator building and alarm system, total expenditures \$4,749.11.

Hazardous Dam Rehabilitation Projects

Leaser Lake - Repair work included major upgrades to the spillway and work to stop seepage through the dam's earthen walls at the 117-acre property in Lehigh County. The cost of the project was \$3.5 million, with funds being made through several sources. Major construction work has been completed, and phase two work needed to address previously unidentified seepage through the dam's earthen is underway.

To date, \$416,669.07 has been expended by the PFBC and \$88,650.00 is committed for phase two construction.

Opossum Lake - Repair work included major upgrades to the spillway and work to stop seepage through the dam's earthen walls at the 59-acre lake. The impoundment is the centerpiece of a key recreational facility located in Cumberland County. Funding for the project was made available through multiple partners.

Work has been completed and the final project cost was \$3.4 million, of which the PFBC contributed \$1,256,605 in Growing Greener 2 funding.

Speedwell Forge Lake - Phase one repair work included construction of a 100-foot-wide safety breach through the center of the dam breast to alleviate safety concerns regarding the dam's spillway capacity at the 106-acre lake and the final cost was \$282,700. Phase two restoration work included a new auxiliary spillway and earthen dam. Growing Greener 2 funding was not used for this portion of the project; however, the PFBC was required to secure flowage easements on more than 32 properties as part of the permitting process for the restoration of the dam.

To date, the PFBC has expended \$157,175.20 on phase one work and the acquisition of flowage easements.

Miscellaneous Dam Related Projects

Kaercher Creek Lake – Installation of a new gate valve is required to address the facilities deficient water level control capabilities. The cost to replace the gate valve at the facility was \$94,940; however, the PFBC received and returned to the Growing Greener 2 Fund \$40,000 from Berks County as part of a cost share agreement. Additionally, site work was conducted to remediate battery casing that were illegally disposed of on the property prior to PFBC/Commonwealth ownership. Total project cost was \$297,000.

Meadow Grounds Lake – A geotechnical study was conducted to assess the structural deficiencies of the dam, which cost \$60,399.12. An additional \$450,000 has been committed for the design work necessary to address known deficiencies at the facility.

Dutch Fork Lake – Additional work was required as part of the final inspection for a major dam rehabilitation project that was funded with H2o PA Act grant. A total of \$53,020.66 was expended to secure the services of the project's design consultant to engineer and oversee the required final inspection repairs.

Glade Run Lake - Repair work to make major upgrades to the spillway and stop seepage through the dam's earthen walls is complete. As part of the project, the PFBC invested \$57,908.65 in lake habit structures to improve the lake fishery and a pedestrian pathway to improve public access.

Colyer Lake – Repair work to make major upgrades to the spillway and stop seepage through the dam's earthen walls is complete. As part of the project, the PFBC is investing \$162,460.74 to replace a culvert on the main entrance road to improve public access and safety.

Grower Greener 2 Funding
Fund 3026605000 - Capital Improvement Projects
As of May 22, 2017

Fund/Cost Center	Project	Commitments	Expenditures	Commitments & Expenditures	Total GG2 Funding
2250100000	Apportionment				\$27,500,000.00
2250712000	Corry SFH	\$0.00	\$310,092.03	\$310,092.03	
2250713000	Fairview SFH	\$0.00	\$37,734.28	\$37,734.28	
2250714000	Linesville SFH	\$0.00	\$39,886.99	\$39,886.99	
2250715000	Pleasant Mt SFH	\$0.00	\$53,653.43	\$53,653.43	
2250716000	Tionesta SFH	\$0.00	\$106,677.39	\$106,677.39	
2250717000	Union City SFH	\$0.00	\$78,322.56	\$78,322.56	
2250718000	Oswayo SFH	\$0.00	\$4,749.11	\$4,749.11	
2250722000	Bellefonte SFH	\$0.00	\$3,557,885.49	\$3,557,885.49	
2250723000	Benner Spring SFH	\$0.00	\$3,834,986.70	\$3,834,986.70	
2250725000	Huntsdale SFH	\$0.00	\$4,935,261.81	\$4,935,261.81	
2250726000	Pleasant Gap SFH	\$0.00	\$1,511,640.03	\$1,511,640.03	
2250727000	Reynoldsdale SFH	\$294,111.56	\$7,845,772.04	\$8,139,883.60	
2250728000	Tylersville SFH	\$0.00	\$1,762,741.14	\$1,762,741.14	
2280201144	Leaser Lake Dam	\$88,650.00	\$416,669.07	\$505,319.07	
2280201145	Speedwell Forge Lake (1)	\$2,946.00	\$157,175.20	\$160,121.20	
2280401141	Opossum Lake	\$0.00	\$1,256,605.00	\$1,256,605.00	
2290301000	Kaercher Creek Remediation	\$0.00	\$297,000.00	\$297,000.00	
2290301990	Meadow Grounds Geotech & Design	\$0.00	\$510,399.12	\$510,399.12	
2290301991	Kaercher Creek Gate Valve Repair	\$0.00	\$54,940.00	\$54,940.00	
2290801002	Dutch Fork Lake DGS Dam Project	\$0.00	\$53,020.66	\$53,020.66	
2290302001	Glade Run Lake	\$0.00	\$57,908.65	\$57,908.65	
2290801006	Colyer Lake	\$158,760.74	\$3,700.00	\$162,460.74	
Total		\$544,468.30	\$26,886,820.70	\$27,431,289.00	\$27,431,289.00
Available Balance					\$68,711.00

(1) Originally \$282,700 was expended but funds were received from PEMA - FEMA for flood damage.

(2) \$94,940 was expended; however, the PFBC received & returned to the fund \$40,000 from Berks County as a part of a cost sharing agreement.