

# MCKEAN COUNTY CONSERVATION DISTRICT

McKean County
Dirt, Gravel &
Low Volume Road
Program Projects

#### **Unpaved Road Maintenance**

#### Introduction

#### **Environmental impacts of road runoff**

- direct abrasion with fish & other aquatic life
- increased turbidity
- sediment carries road salts, metals, etc
- changes channel composition

- loss of habitat
  - invertebrates
  - fish spawning
- increased nutrients and algae growth
- filling in and eutrophication of lakes & wetlands
- decreased Dissolved Oxygen



#### **Unpaved Road Maintenance**

#### Introduction

#### **Economic impacts of road runoff**

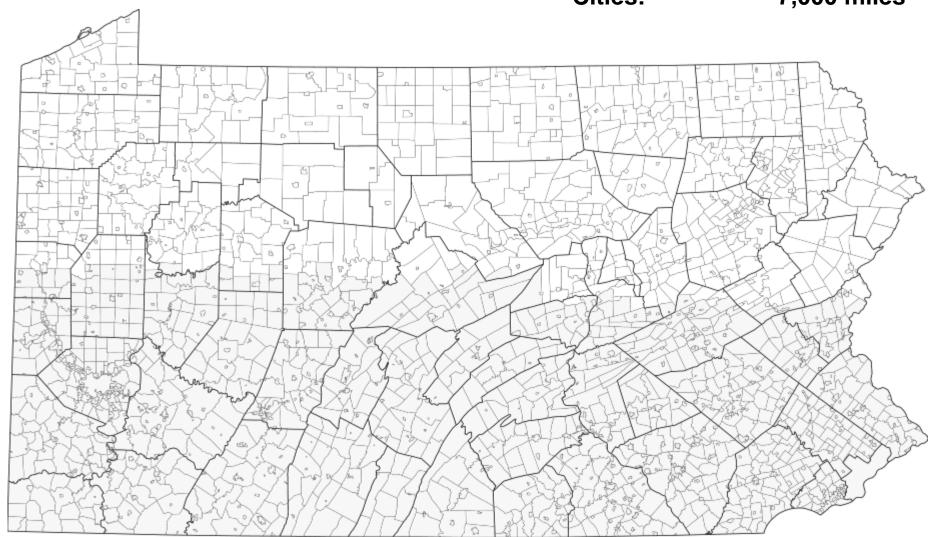
- purchased material is washing away
- maintenance activity is required to fix erosion
- reduces life-cycle: surface needs to be replaced sooner

- washouts
- Money
- Time
- Public Safety



70,000+ miles in 2,562 municipalities

State DOT: 41,000 miles
Townships: 52,000 miles
Boroughs: 10,000 miles
Cities: 7,000 miles



#### **State: State Conservation Commission**

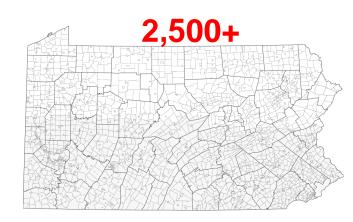
- Administers statewide program.
- Allocates money to Conservation Districts.
- Develops statewide Program policy
- Quality Assurance Quality Control process.



#### **County: Conservation Districts**



#### Local: Townships(90%+)



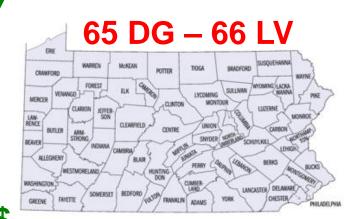
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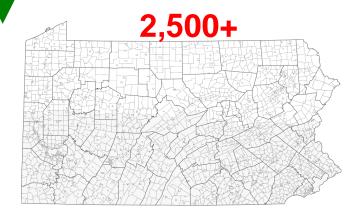


#### **County: Conservation Districts**

- Administer Program at county level.
- Receive money based on roads & worksites.
- Work with applicants to develop work plans.
- Provide grants to successful applicants
- Conduct inspection after work is completed.
- Keep records and report to State annually.



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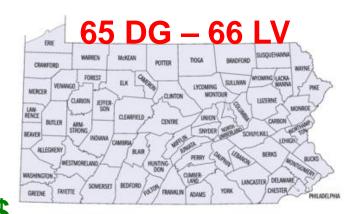
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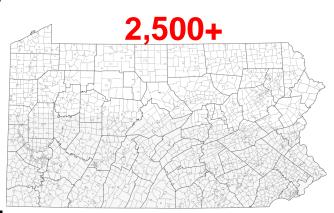
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#### Local: Townships(90%+)

- Boroughs, cities, and state agencies also eligible
- Must be "ESM Certified" within last 5 years.
- Apply to Conservation District for funding.
- Enter into contract with Conservation District.
- · Complete project work or hire sub-contractors.



## Why PA Department of Agriculture and County Conservation Districts?



- Experience with soils, erosion control, water quality
- Local knowledge and connections
- Standalone Program to keep environmental focus



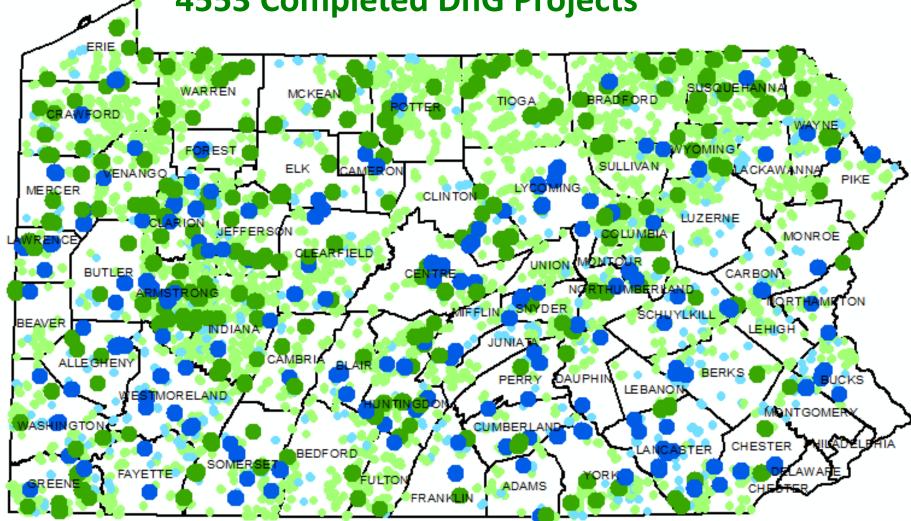
#### **Program Overview**

**SCC/District Program** 

10/15/19

**675 Completed LVR Projects 4553 Completed DnG Projects** 

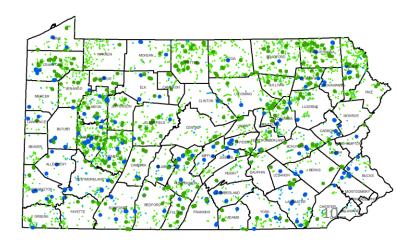




#### Program Spending, 1997 to 2019

- \$141 Million+ spent on completed sites
- \$52 Million+ in-kind on those projects
- \$36 Million+ committed to active sites

- Annual Allocation remains at:
  - \$20M: municipal Dirt and Gravel
  - \$8M: municipal paved LVR
  - \$7M: DCNR Dirt and Gravel



#### **Project Summary**

**County**: McKean **D&G Funds**: \$13,300.59

**Applicant**: Keating Township In-Kind Funds: \$4,918.00

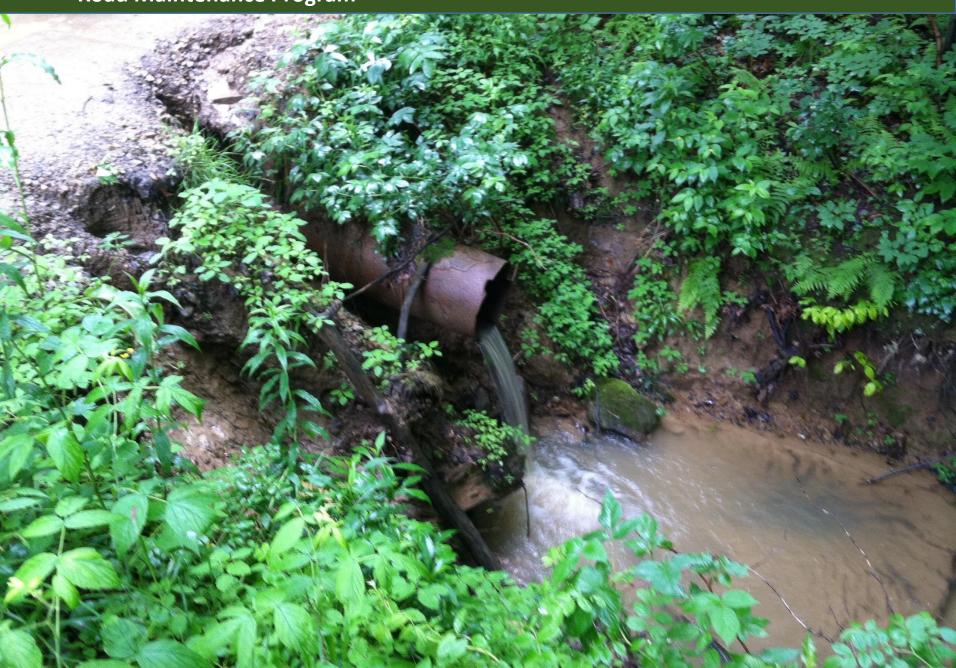
Prj Type: Dirt and Gravel Total Prj Value: \$18,218.59

Rd Name: <u>Prospect Hollow</u> Status: <u>complete</u>

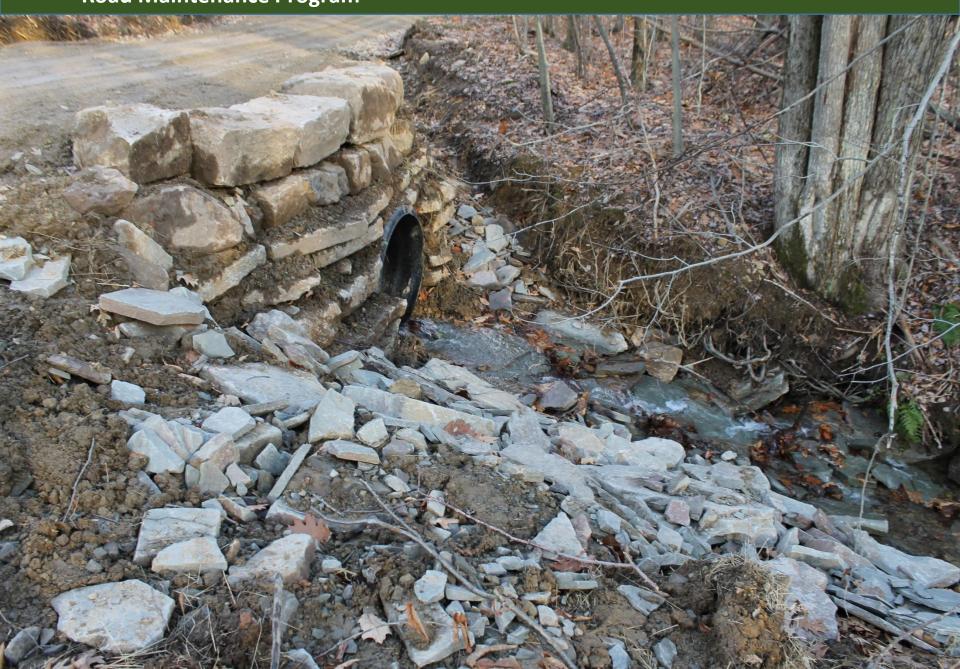
#### **Brief Project Description:**

- Severely entrenched road with a poor clay base
- Undersized stream crossing
- Add geotextile woven fabric
- Raise road profile 12" with crushed shale stone to achieve sheet flow in some areas
- Added 2 new crosspipes
- Replace stream crossings with larger bankfull pipe





After





**After** 





### Dirt, Gravel, and Low-Volume Road Maintenance Program

#### **Project Summary**

County: McKean LVR Funds: \$72,912.50

**Applicant**: Foster Township In-Kind Funds: \$23,313.00

Prj Type: Low Volume Total Prj Value: \$96,225.50

Rd Name: <u>Hedgehog Lane</u> Status: <u>complete</u>

#### **Brief Project Description**:

- Shift the road and abandon south failing lane
- Excavate and place existing asphalt and road base material from south lane over geo-fabric compacting in 8 inch lifts
- Replace 1 cross pipe
- Install elbows, and risers on all 3 cross pipes within project area
- Install french drain connect with 3 cross pipes
- Resurface new lane







After



#### • 20 of the 22 municipalities eligible

#### DGR Funds Spent Since 1997

- \$\$1,075,169.12 on Projects
- \$ \$135,869.01 on Administration
- \$ \$100,925.63 on Education Efforts

#### LVR Funds Spent Since 2014

- \$\$245,053.08 on Projects
- \$ \$3,919.44 on Administration
- \$ \$10,653.20 on Education Efforts