

2020 ANNUAL REPORT

Warren County Engineer's Office



<http://www.WCEO.us>

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Neil F. Tunison, P.E., P.S.
Warren County Engineer



Dear Citizens of Warren County,

Construction activities picked up in 2020 as you will see in this Annual Report. The bridge on Overbrook Drive over Bear Run was replaced as well as construction of another drilled pierwall on Wilmington Road east of the Little Miami Scenic River. A concrete safety median was built on Mason-Montgomery Road immediately north of the I-71 southbound off-ramp and Escort Drive and used Federal Safety funds. Other bridge replacements were made on Shaker Road, Morrow-Woodville Road and Morrow-Cozaddale Road.

This year, we continue to plan large projects for future years, but also get some significant ones underway this year. ODOT will construct a new southbound on-ramp from Mason-Montgomery to I-71 beginning this summer. This project will conclude for now improvements to the Fields-Ertel Road/Mason-Montgomery Road/I-71 interchange. The Warren County Transportation Improvement District has developed the construction plans and acquired right-of-way for this project. Changes are underway now to Wilkens Boulevard, Bardes Drive and Escort Drive that will permit better traffic flow from Wilkens Boulevard to southbound I-71. Construction plans shall be completed this year for construction of the King Avenue bridge replacement over the Little Miami Scenic River. That project is scheduled for construction beginning early 2022.

With the Board of County Commissioners pledging general fund to various projects, plans are moving ahead for widening of State Route 48 at US Route 22 scheduled in 2023 and widening of Fields-Ertel Road between Snider Road and Wilkens Boulevard in 2024. The Fields-Ertel Road project is a joint project with the Hamilton County Engineer and County Commissioners. Both projects are funded with Surface Transportation Block Grants through the Ohio Kentucky Indiana Regional Council of Governments. We are also beginning the design of widening and improvements to State Route 63 between Union Road and State Route 741. Duke Energy has begun design and scheduling of a very complicated realignment of high voltage transmission lines to make way for the roadway project. The goal is to get funding to construct in 2024-5.

Thank you to our Board of County Commissioners, the County Prosecutor's Office, The County Sheriff's Office, the County Auditor's Office, other County offices, our Township Trustees and Fiscal Officers, municipalities, the Ohio Department of Transportation, and our many funding partners to make possible the many projects we are bringing to you.

I hope you enjoy and find this 2020 Annual Report very informative, a review of hard work and accomplishments of my entire staff and our local partners.

Please visit the County Engineer's website for updates on projects, road closures, and other helpful information.

<http://www.WCEO.us/>

Ohio Revised Code 5543.02 Annual Report

The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts required within the county.

The engineer, on or before the first day of June in each year, shall make an annual estimate for the board of township trustees of each township, setting forth the amount required by the township for the construction, reconstruction, resurfacing, or improvement of the public roads within their jurisdiction. Such estimates shall relate to the year beginning on the first day of March next ensuing, and shall be for the information of the board of county commissioners and board of township trustees, in the making of their annual levies.

The engineer shall approve all estimates which are paid from county funds for the construction, improvement, maintenance, and repair of roads and bridges by the county. The engineer shall approve all estimates which are paid from township funds for the construction, reconstruction, resurfacing, or improving of roads under sections [5571.01](#), [5571.06](#), [5571.07](#), [5571.15](#), and [5573.01](#) to [5573.09](#) of the Revised Code. The engineer shall also approve all estimates which are paid from the funds of a road district for the construction, reconstruction, resurfacing, or improvement of the roads thereof under section [5573.21](#) of the Revised Code.

For the construction or repair of a bridge, the entire cost of which construction or repair exceeds fifty thousand dollars, the county engineer may request the director of transportation to review and comment on the plans for conformance with state and federal requirements. If so requested, the director shall review and comment on the plans.

Effective Date: 06-30-1995; 03-29-2005 .



The Warren County Engineer's Office Administration & Engineering Department is located in the historic Corwin House at 210 W. Main Street in Lebanon, Ohio. Permitting & Inspection is located at WCEO's facility at 105 Markey Road, Lebanon, Ohio and serves in issuing permits, subdivision inspections, and traffic & safety. Also located at the Markey Road facility is the highway maintenance building, including two salt storage bins, with two additional locations one in Wayne Township and one in Harlan Township.

FINANCIAL HIGHLIGHTS FOR 2020

EXPENDITURES

Payroll	\$2,428,557.18
Equipment & Facilities	\$1,443,503.39
Benefits	\$811,650.05
Other	\$127,147.30
Capital Improvements	\$5,948,166.51
Insurance	\$4,092.90
Material & Maintenance	\$523,289.98
	\$11,286,407.31

REVENUE

Investments	\$0.00
Reimbursement	\$290,406.12
Sales	\$186,053.73
GIS	\$0.00
Gas Tax	\$3,614,207.26
Vehicle License	\$7,513,654.03
	\$11,604,321.14

Lily Drive Bridge #1023-0.17

Warren County replaced the Lily Drive Bridge #1023-0.17 over Stony Hollow during the spring of 2020. The bridge is located on Lily Drive just south of Lilac Drive in Deerfield Township. The existing twin concrete pipe culvert was replaced with a cast in place concrete box culvert. DDK Construction Inc. completed the bridge replacement for \$326,157.70. The project was funded by the Warren County Engineer's Road and Bridge Fund and Deerfield Township.



Overbrook Avenue Bridge #2080-0.02

Warren County replaced the Overbrook Avenue Bridge #2080-0.02 over Bear Run during the summer and fall of 2020. The bridge is located on Overbrook Avenue just east of the US 22/SR 3 intersection in Hamilton Township. The existing steel beam and concrete deck bridge was replaced with a pre-stressed composite concrete box beam bridge. DDK Construction Inc. completed the bridge replacement for \$436,165.05. The project was funded by the Warren County Engineer's Road and Bridge Fund .



Morrow Woodville Road Bridge #24-1.24

Warren County replaced the Morrow Woodville Road Bridge #24-1.24 over Locust Creek during the spring and summer of 2020. The bridge is located on Morrow-Woodville Road between SR28 and Vandervoort Road in Harlan Township. It was a force account project that consisted of removing the existing jack arch bridge and replacing with a reinforced concrete box culvert. The project cost \$75,237.07 and the project construction was funded by the Warren County Engineer's Road and Bridge Fund.



Morrow Cozaddale Road Bridge #43-3.35

Warren County replaced the Morrow-Cozaddale Road Bridge #43-3.35 over Salt Run during the summer of 2020. The bridge is located on Morrow-Cozaddale Road just south of Shamrock Drive in Hamilton Township. It was a force account project that consisted of removing the existing stone arch bridge with jack arch extension with a reinforced concrete box culvert. The project cost \$113,331.88 and the project construction was funded by the Warren County Engineer's Road and Bridge Fund.



Shaker Road Bridge #48-3.98

Warren County replaced the Shaker Road Bridge #48-3.98 over a Branch of Dicks Creek during the summer of 2020. The bridge is located on Shaker Road about a half mile south of Manchester Road in Franklin Township. It was a force account project that consisted of removing the existing concrete slab bridge with a reinforced concrete box culvert. The project cost \$104,988.65 and the project construction was funded by the Warren County Engineer's Road and Bridge Fund.



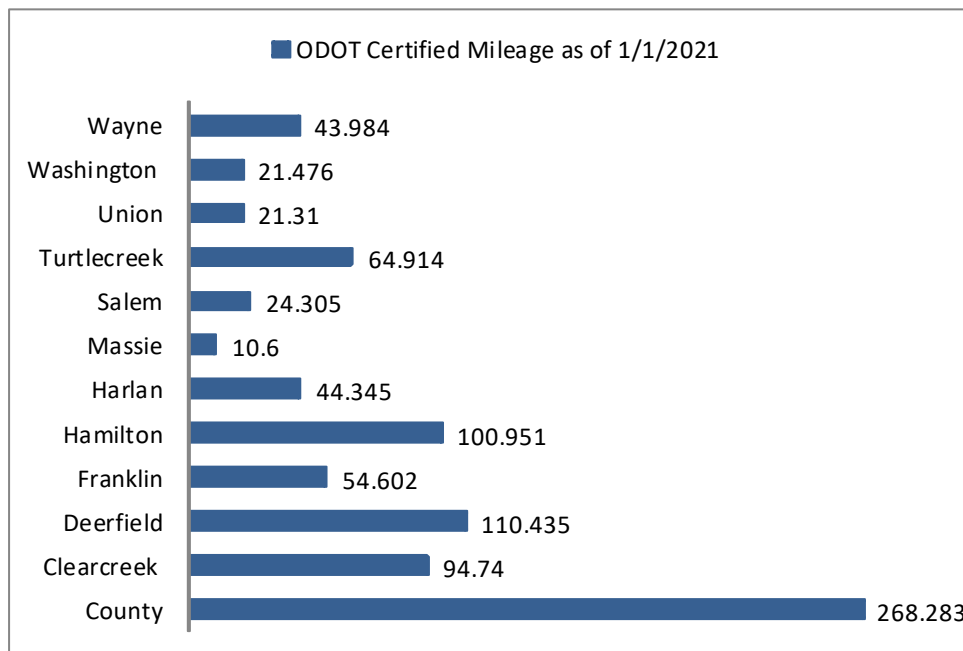
Wilmington Road Drilled Pier Wall

Warren County completed the Wilmington Road Drilled Pier Wall Project during the summer of 2020. The project consisted of constructing approximately 400 feet of drilled pier wall along Wilmington Road stopping the roadway slide down the hillside. The pier wall is located on Wilmington Road between Corwin Road and Lisle Lane in Washington Township. W.E. Smith Construction completed the drilled pier wall project for \$259,853.36. The project was funded by the Warren County Engineer's Road and Bridge Fund.



PLANNING AND DESIGN OVERVIEW AND STATS 2020:

- ◆ Construction Plan Review
 - ◇ 15 New Submittals
 - ◇ 33 Total Submittals
- ◆ Record Plat Review
- ◆ Handle Bonds for Streets and Appurtenances.
 - ◇ 27 New Bonds Acquired
 - \$10,964,453.99 worth of future public infrastructure inspected.
 - A total of \$3,552,143.34 in new bonds.
 - ◇ Reduce bonds after completion of improvements.
 - ◇ 25 bonds released.
- ◆ Subdivision Inspection
 - ◇ Subdivision Walk-Throughs & Punch Lists
 - ◇ 42 street segments turned over for public maintenance to the Townships.
- ◆ Addressing/Address Verification
 - ◇ Issue all new (residential/commercial) addresses for the unincorporated portions of the County as well as the Villages of Corwin, Harveysburg, Maineville, Morrow, Pleasant Plain, and South Lebanon.
 - ◇ Over 900 new residential addresses issued, not including those issued by Driveway Culvert Permit.
- ◆ Manage Road Inventory/Assign Road Numbers for the unincorporated portions of the County.
- ◆ ODOT Road Mileage Certification
 - ◇ 5.315 certified miles added



2020 Resurfacing Project

Contractor: Barrett Paving Materials, Inc.

Cost: \$4,540,627.61 (WCEO portion was \$2,755,154.79, Township portion was \$1,785,472.82)

Warren County Roads (12.530 Miles)

Old 3C Highway (CR 10), Lower Springboro Road (CR 22), Morrow-Woodville Road (CR 24), Morrow-Cozaddale Road (CR 43), Shaker Road (CR 48), Hendrickson Road (CR 80), Markey Road (CR 99), Manchester Road (CR 104), Butterworth Road (CR 156), CR 182, Landen Drive (CR 293), Wilkens Boulevard (CR 610)

New for this year, Reclamite Asphalt Rejuvenator was applied to all Warren County roads that were resurfaced. Reclamite restores the reactive maltene components of asphalt that are damaged due to hot plant operations and placement of asphalt. It is expected that Reclamite will extend the pavement life by 4-6 years and reduce the life-cycle cost by approximately 20%.

Township Roads

Clearcreek Township (3.494 Miles)

Crossley Road (TR 127), Bunnell Hill Road (TR 128), Yankee Road (TR 281), Primrose Way (TR 2261)

Franklin Township (0.694 Miles)

Knollbrook Drive (TR 1221), Woodhill Cemetery

Hamilton Township (6.076 Miles)

Schlottman Road (TR 143), Adams Road (TR 145), Nunner Road (TR 157), White Street (TR 310), Elizabeth Street (TR 311), Southern Pines Drive (TR 615), Seapine Court (TR 972), Lighthouse Point (TR 973), West Road (TR 1206), Jewelweed Court (TR 1353), Allegany Trail (TR 1493), Winding Way (TR 2086)

Harlan Township (0.387 Miles)

Roachester-Cozaddale Road (TR 52)

Salem Township (2.907 Miles)

Gheils Carroll Road (TR 168), Achterman Road (TR 169)

Turtlecreek Township (5.150 Miles)

Nickel Road (TR 68), Liberty-Kueter Road (TR 95), Heritage Run Drive (TR 755), Sharon View Court (TR 756), Pence Ridge Court (TR 757), Windrift Court (TR 758), Point View Court (TR 759)

2020 Resurfacing Project

Township Roads

Union Township (0.184 Miles)

Kings Way (TR 623)

Washington Township (0.502 Miles)

Arabian Run Drive, Ward-Koebel Road (TR 215)

Wayne Township (1.287 Miles)

Haines Road (TR 137), Old SR 73 (TR251)

2020 Chip Seal Project

Contractor: Henry W. Bergman, Inc.

Cost: \$228,587.79 (WCEO portion was \$0.00, Township portion was \$228,587.79)

Township Roads

Harlan Township (3.712 Miles)

Roachester-Cozaddale Road (TR 52), Debold-Koebel Road (TR 170), Starkey Road (TR 177), Layman Road (TR 178), Ross-Leever Road (TR 184), Watkins-Starkey Road (TR 188), Starkey-Clevenger Road (TR 193), Kunker Road (TR 202)

Union Township (0.295 Miles)

Glosser-Richardson Road (TR 76)

Washington Township (3.730 Miles)

Woodward-Claypool Road (TR 204), Senior Road (TR 212), Shawhan-Ayers Road (TR 213), Shepherds Way (TR 1169), Arrowcreek Drive (TR 1387), Sentinel Court (TR1403), Blazing Trail (TR 1541), Lisle Lane (TR 2173)

Wayne Township (4.202 Miles)

Mt. Holly Road (TR 139), Pence Jones Road (TR 238), Collett Road (TR 239), Penewit Road (TR 309), Cedar Hill Road (TR 574)

Transportation Improvement District

The Warren County Transportation Improvement District (WCTID) is a governmental entity created by the Warren County Board of County Commissioners. The WCTID possesses general powers to operate and fund highway-related projects with the purpose to improve the transportation system in Warren County.

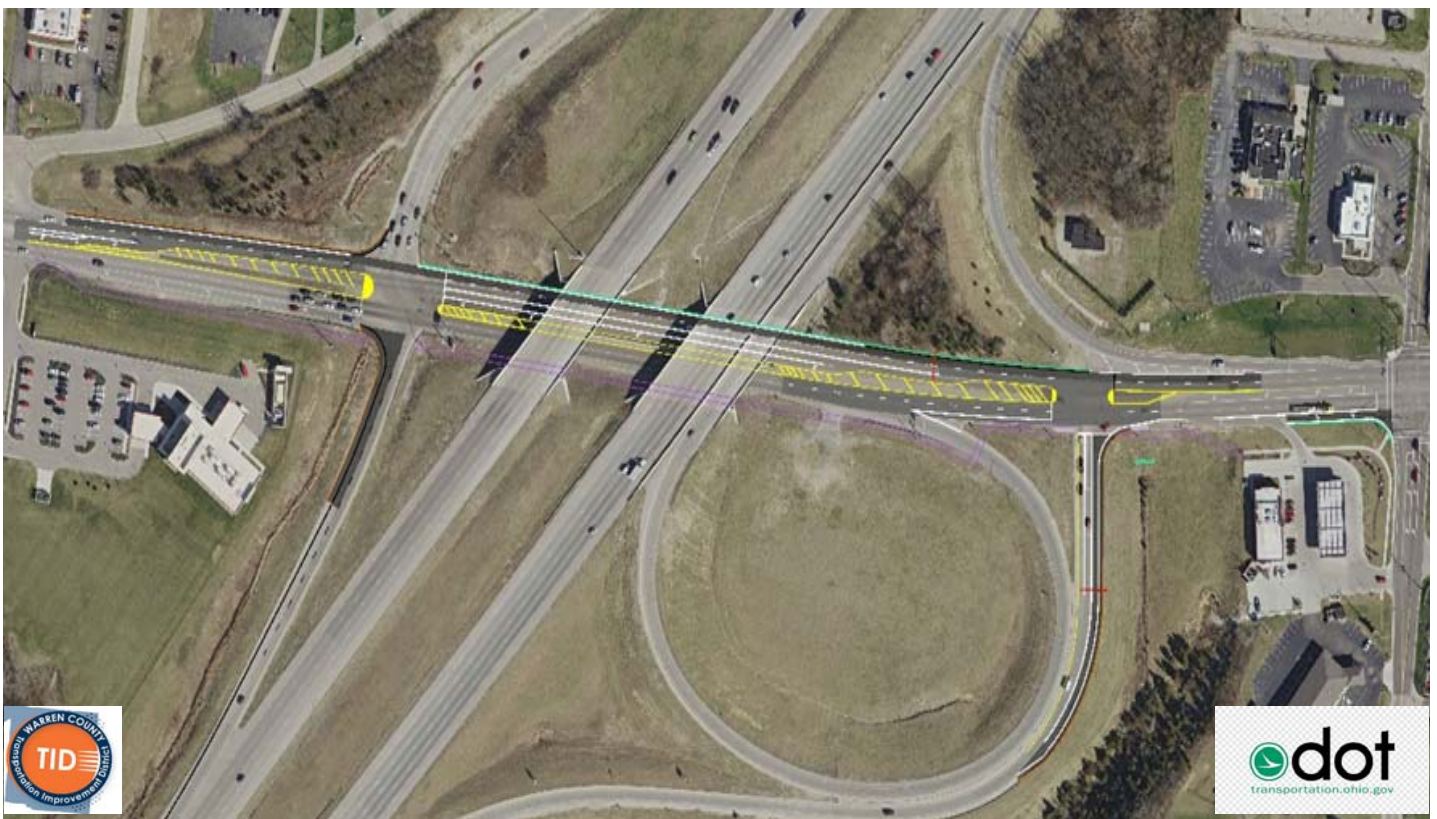


During 2020 the WCTID was involved with two (2) construction projects. Columbia Road was widened between Socialville-Fosters Road and Fitzgerald Way, which cost around \$1,000,000; and a concrete median on Mason-Montgomery Road providing access management from Escort Drive to just south of Merten Drive which cost around \$200,000.

The right-of-way for the new southbound Ramp Entrance Ramp onto I-71 from Mason-Montgomery Road was obtained this year. This allows the construction of this Ramp to remain on schedule for beginning in 2021 and being substantially completed in 2022. The \$7.2 million project is being funded with \$5.4 million in federal Surface Transportation Block Grant funds allocated by the Ohio Kentucky Indiana Regional Council of Governments.

Other WCTID 2020 efforts included successfully securing ODOT Safety Funds for three (3) projects for the communities of Franklin, Lebanon, and Springboro. The projects are Mason-Morrow-Millgrove Road Realignment; SR 741 and Remick Boulevard Intersection; and I-75 & SR 73 Interchange Improvements. These projects will increase the safety to our County's highway system while being funded 100% by ODOT. Also, coordination continued with Duke Energy on relocating high voltage transmission lines along State Route 63 and positioning the widening project for funds in 2025. ODOT has been a great partner on our many projects and we are truly grateful.

I-75 & SR 73 Interchange Improvements



Tax Map Department



Accomplishments

Develop a survey tracking database for drawings under review.

Functions

With respect to the Ohio Revised Code, the function of the tax map department includes the following:

- Per O.R.C. 315.25, we create and maintain an accurate record of surveys of land and road lines.
- Per O.R.C. 315.251, we determine if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733.
- Per O.R.C. 315.27, we create and maintain indexes of records.
- Per O.R.C. 317.34, we approve subdivisions for the office of Recorder.
- Per O.R.C. 319.203, we adopt standards of conveyance and ensure compliance.
- Per O.R.C. 709.031(A), we prepare a report for petitions of annexations.
- Per O.R.C. 713.26, we assist the regional planning commission.
- Per O.R.C. 5311.05, we review condominium declarations.
- Per O.R.C. 5713.09, we make, correct, and maintain a complete set of tax maps.

Also, we label legal descriptions by parcel number for identification in the Auditor's office and for indexing in the Recorder's office. We assist the public and other government agencies in utilizing the records we keep on file.

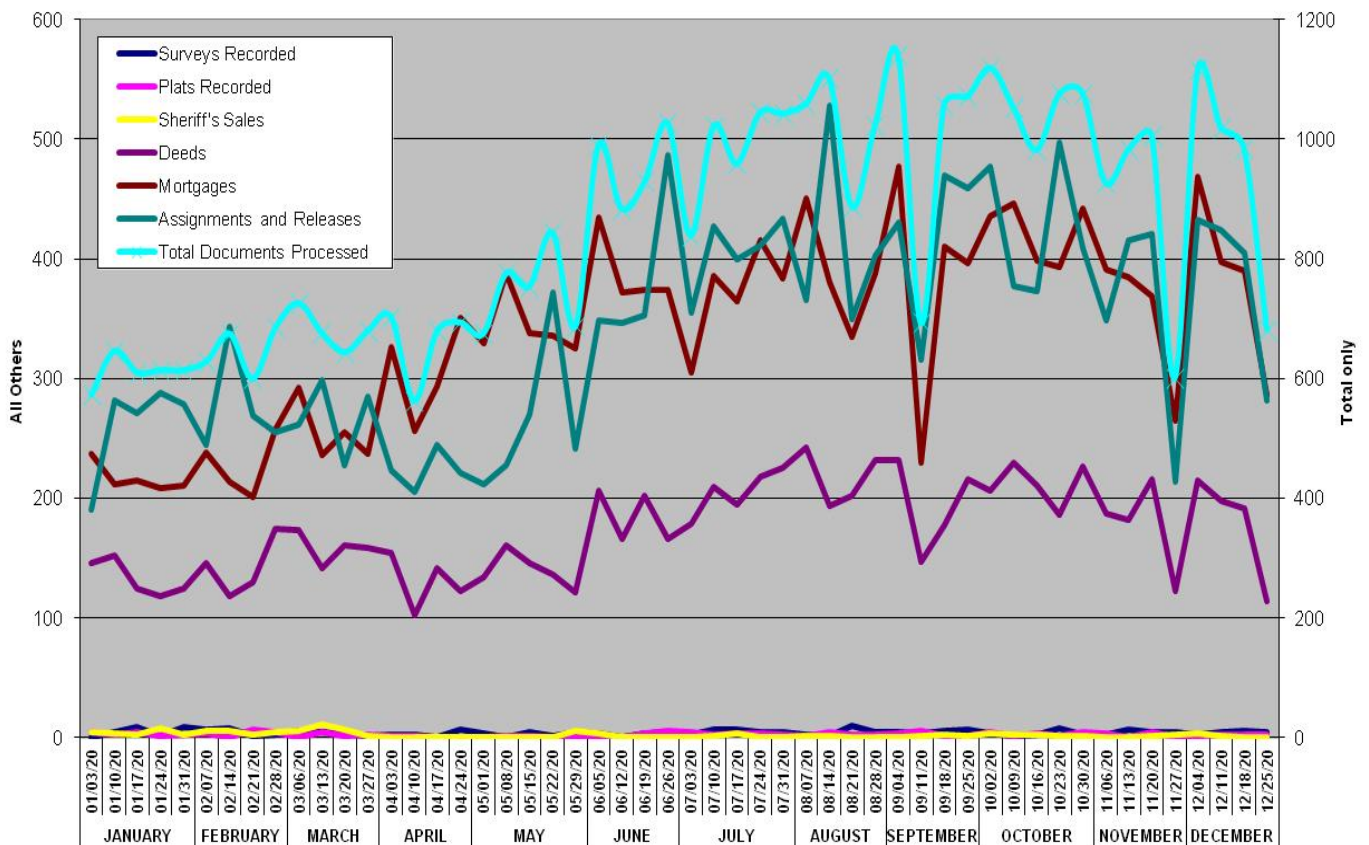
Tax Map Department

Statistics

- Major documents processed.
 - ◆ Deeds 8,976
 - ◆ Mortgages 17,499
 - ◆ Assignments and releases 17,699
 - Total documents processed 44,174

- Surveys filed -- 206
- Plats filed -- 113
- Sheriff's precipes processed -- 98

2020 Work Volume Trends

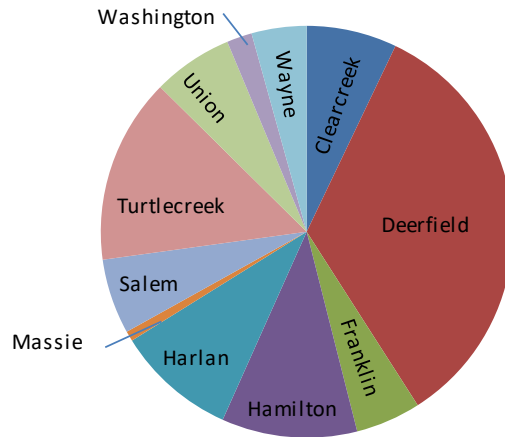


Permits Summary

The following are tables showing the permit summaries of 2017, 2018, 2019 and 2020:

Right-of-Way Permits

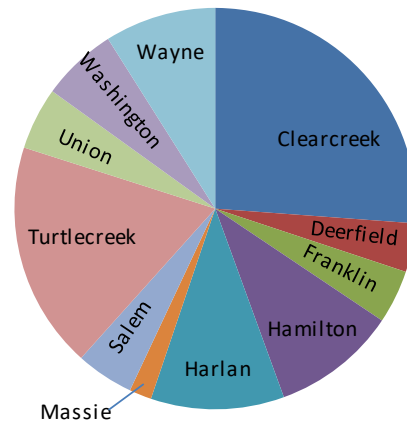
	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Clearcreek	13	15	22	18
Deerfield	82	52	93	86
Franklin	17	15	1	13
Hamilton	103	63	21	27
Harlan	37	21	29	24
Massie	6	3	8	2
Salem	9	17	15	15
Turtlecreek	36	36	52	37
Union	21	17	17	16
Washington	14	16	9	5
Wayne	21	22	19	11
Total	359	277	286	254



Breakdown of 2020 ROW Permits by Township

Driveway/Address/Piped Road Frontage

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Clearcreek	75	67	71	73
Deerfield	20	8	5	11
Franklin	12	11	19	12
Hamilton	31	19	32	28
Harlan	26	28	34	30
Massie	5	4	3	5
Salem	11	24	10	13
Turtlecreek	62	72	34	51
Union	42	18	25	14
Washington	17	10	14	17
Wayne	38	25	32	25
Total	339	286	279	279



Breakdown of 2020 Driveway Permits by Township

Warren County Highway Department

The Warren County Highway Department is made up of twenty-six full time employees that consist of highway maintenance personnel and mechanics. They provide the maintenance for the 268.283 miles of county roadway, 390 bridges, and 1397 culverts. They also provide support to surrounding townships and villages when needed.

The Warren County Highway Department personnel are required by law to have, and maintain, a current Commercial Drivers License to drive the single and tandem axle trucks. Some duties would include installing and maintaining road signage, setting up route detour signage, tree and brush clearing, guardrail installation and maintenance, culvert installation, repair and replacement, embankment and shoulder repair, roadside mowing, new road construction, bridge repair and replacement.

These employees may be called upon for emergency situations, storm clean-up, downed trees and limbs, high water, and other road hazards. Snow and ice control is the most challenging weather event requiring long, difficult hours. The Highway Department also maintains a rotating call out person that is on call after hours, weekend and holidays to handle any emergency. They are equipped with chain saws, road closure signs, cold patch, etc.

Snow and ice control is a primary function of the Highway Department during the winter months. During the 2020-2021 winter season, Warren County had 22 occurrences that required 1,893.50 hours of overtime by our road & maintenance crews and consumed 3,272 tons of salt and 19,389 gallons of Beet Heat to clear the roads. The entire season cost the county \$ 338,933.47, in overtime, salt and beet heat.



Stormwater Permit Phase III



Warren County is currently regulated by a stormwater permit from the Ohio EPA required by Phase II of the National Pollution Discharge Elimination System (NPDES, we refer to it as just "Phase II." The goal of the program is to protect the quality of our streams, lakes, and groundwater. The Stormwater District, a department of the Engineer's Office, coordinates this permit for other entities including the Townships of Clearcreek, Franklin, Hamilton, Turtlecreek, and Union and the Villages of Maineville and South Lebanon. The requirements of the permit are met by collaborating with other local agencies such as the Warren County Combined Health District and the Warren County Soil and Water Conservation District (SWCD).

Throughout 2020, we continued our efforts to fulfill the permit requirements by providing education and outreach on stormwater quality to residents ranging in age from school children to adults. This happens through classroom programs and at local festivals and events with the mobile Thomas C. Spellmire Water Conservation Education Exhibit. In anticipation of a new permit in 2020 from Ohio EPA, the Stormwater District and the SWCD have updated the stormwater management and erosion and sediment control regulations along with the stormwater management plan. Lastly, local partnerships allowed for continued mapping of home sewage treatment systems (HSTs) that were not included in previous mapping efforts.

Find out how you can do your part to protect water quality by visiting our website: <http://www.wceo.us/pages/Stormwater-District.html>.

Guide to County Stormwater Services

Warren County Engineer's Office www.wceo.us | (513) 695-3309 Warren County Soil and Water Conservation District

- Stormwater Regulations, Plan Reviews, and Post-Construction www.warrenswcd.com | (513) 695-1337
- Stormwater Management
- Phase II Permit Administration
- Mapping
- Pollution Prevention / Education and Outreach
- Driveway Culverts
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control, Erosion and Sediment Control Plan Reviews
- General Drainage Issues
- Streams and Rain Gardens
- Public Education and Outreach
- Retention/Detention Basin Inspections Ponds

2021 Administrative Staff

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ENGINEER'S OFFICE ADMINISTRATION and ENGINEERING

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