

COUNTY OF DUNN



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To: Dunn County Board of Supervisors

From: John Sworski, Public Works Director – Highway Commissioner

Subject: 2019 Public Works – Highway Division Operations Report

Introduction:

The Dunn County Public Works Department - Highway Division is responsible for the maintenance and construction of approximately 425 miles (850 lane miles) of County Trunk Highway along with responsibilities from various maintenance agreements with the Wisconsin Department of Transportation (WisDOT) for work on the Federal and State highway systems within the County. Dunn County maintains just over 516 lane miles for the Wisconsin DOT. The Highway Division also provides maintenance and construction services for Towns and Villages within the County as requested and allowed by law. The highway operation also works cooperatively with other Public Works Department Divisions, other County Departments and other public agencies (DNR, UW-Stout, etc.) in various capacities. This report and attachments provides an overview of the 2019 highway operation.

County Maintenance & Construction:

County routine maintenance activities are performed year round on the approximately centerline 425 miles of County Trunk Highways under the jurisdiction of Dunn County. These activities include, surface maintenance (asphalt patching, maintenance asphalt overlay, etc.), shouldering, mowing, brushing, signing, guardrail, culvert/drainage work and other miscellaneous work. Also crack filling, chip sealing and pavement markings are included in county maintenance. Below are quantities completed in 2019 for some of the before mentioned items along with resurfacing, reconditioning and design/right-of-way projects.

- Approximately 53.66 miles of crack filling
- Approximately 25.87 miles of chip sealing
- Approximately 427 miles of pavement markings
- Approximately 16.88 miles of asphalt overlays
- Approximately 5.78 miles of asphalt resurfacing/reconditioning projects
- Approximately 20.69 miles of fog sealing

- Approximately 5.52 miles of chip sealing for Towns
- Approximately 2.30 miles of crack filling for Towns and Villages

Bridge / Bridge Maintenance:

- CTH J Box Culvert Extension. Highway Department personnel removed the existing deteriorated steel beams and replaced the areas with precast concrete slab panels.
- CTH C Culvert Replacement. Highway Department crews removed twin 90" diameter x 70 ft culverts and replaced with new.
- Town of Menomonie 700th Avenue Box Culvert. Highway Department crews removed the existing structure and installed a 13' wide x 8' tall x 50' long precast box culvert.

Winter Maintenance:

2019 Winter Maintenance expenses were above the 5-year average of \$1,177,205 based on the 2014-2018 winter seasons. The total cost for 2019 Winter Maintenance was \$1,820,262. This expense includes labor, equipment and materials. Materials include salt, salt-sand and salt brine. In an effort to reduce chemical consumption and expense, salt brine is utilized to pre-wet both salt and salt-sand to have the material "stick" to the road and also accelerate the deicing process. Below is a list of data from 2019 on winter maintenance plowing and applying chemicals/abrasives.

- 14,451 tons of salt-sand used on county trunk highways (includes approx. 867 tons of salt)
- 2,533 tons of salt used on county trunk highways (not including the salt in the above salt-sand)
- 16,840 gallons of salt brine used on county trunk highways (pre-wet and pre-treat)
- 9,689 labor hours (Based on 17 county plow routes, this is approx. 450 hours per route.)
- 18,723 truck/equipment hours (Note: Trucks and snow plow equipment are assigned their own unit number and costs along with hours used are then able to be tracked separately for each. This is the reason for more truck/equipment hours than labor hours.)

Capital truck/equipment purchases:

During 2019 the highway division purchased the following assets;

- (3) Tri Axle Trucks with dump boxes and winter maintenance equipment
- (2) Tandem Axle Trucks with dump boxes and winter maintenance equipment
- (4) Compact Track Loaders
- (1) Compact Hydraulic Excavator
- (1) Skid steer Loader
- (5) Mid-sized Low Profile Trucks
- (1) 108" 3 Pt. Mounted Snowblower

Conclusion:

Once again in 2019, the highway division completed many projects and made improvements to the Dunn County Trunk Highway System to benefit all users. Dunn County Highway will continue to provide our services in an efficient and economical manner with the approved budgeted funds. If there are any questions in regard to this report or anything highway related, please contact John J. Sworski, Dunn County Public Works Director, at 715-232-2181.