



DUNN COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY DIVISION

2018 HIGHWAY 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 2018 highway operation.

County Maintenance and 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 2018 for some of the before mentioned items along with resurfacing, reconditioning and design/right-of-way projects.
- ▶ Approximately 30.75 miles of crack filling
- ▶ Approximately 39.22 miles of chip sealing
- ▶ Approximately 426 miles of pavement markings
- ▶ Approximately 7.85 miles of asphalt overlays
- ▶ Approximately 11.15 miles of asphalt resurfacing/reconditioning projects
- ▶ Approximately 20.4 miles of crack filling for Towns
- ▶ Approximately 11.03 miles of chip sealing for Towns
- ▶ Approximately 2.17 miles of asphalt resurfacing for Towns and Villages

Bridge Construction, Maintenance and Inspection

- ▶ Currently, Dunn County has 4 bridges (3 county and 1 town) in the current Local Bridge Improvement Program for their replacement. Design for structure B17-0961 CTH W over Popple Creek was awarded to Ayres and Associates of Eau Claire. Design for structure P17-0800 CTH Q over Wilson Creek was awarded to Cedar Corporation of Menomonie. Design for structure B17-0011 CTH K over Flayton Creek was awarded to KL Engineering of Menomonie. Design for the only Local bridge in the program, structure P17-0089 705th Street – Town of Wilson over Pine Creek awarded Cooper Engineering of Rice Lake.
- ▶ 2018 was also an inspection year for all county and local bridges. There are 76 bridges on the County system and 72 Town and Village structures. The bridge inspection data will be used to determine needed maintenance and repairs. This can include spall repairs, crack repairs, erosion repairs, bridge washing, deck sealing, etc. This work helps preserve and extend the life of the bridge.

Winter Maintenance

- ▶ 2018 Winter Maintenance expenses were above the 5-year average of \$1,240,957 based on the 2013-2017 winter seasons. The total cost for 2018 Winter Maintenance was \$1,333,398. 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 2018 on winter maintenance plowing and applying chemicals/abrasives.
- ▶ 12,607 tons of salt-sand used on county trunk highways (includes approx. 630 tons of salt)
- ▶ 1,689 tons of salt used on county trunk highways (not including the salt in the above salt-sand)
- ▶ 14,730 gallons of salt brine used on county trunk highways (pre-wet and pre-treat)
- ▶ 7,673 labor hours (Based on 17 county plow routes, this is approx. 450 hours per route.)
- ▶ 16,361 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.)

Miscellaneous

- ▶ Capital truck/equipment purchases -During 2018 the highway division purchased the following assets;
 - ▶ (2) Tri Axle Trucks with dump boxes and winter maintenance equipment
 - ▶ (2) $\frac{3}{4}$ Ton Crew Cab Pickups
 - ▶ (1) Track Hydraulic Excavator
 - ▶ (2) Used Water Trucks
 - ▶ (2) Skid Steer Mounted Brush Mowers
 - ▶ (1) Trailer mounted hydro-seeder

Conclusion

- ▶ Once again in 2018, 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.

Questions?



THANK YOU!

