



# Simplified Design Table for Minnesota Concrete Pavements

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Research Project  
Final Report 2014-27



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# **Simplified Design Table for Minnesota Concrete Pavements**

## **Final Report**

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# **Executive Summary**

The project “Simplified Design Table for Minnesota Concrete Pavements” led to the creation of MnPCC-ME, a standalone 32-bit Windows executable program to replace the preexisting RigidPave. Whereas RigidPave was based upon the outdated AASHTO 1993 design procedure for rigid pavements, MnPCC-ME is based on MEPDG version 1.1, a mechanistic-empirical design procedure that accounts for the effects of traffic loading and environment. Furthermore, MnPCC-ME was localized for Minnesota pavements through: 1) the use of local climate data and weigh-in-motion traffic data; 2) the incorporation of previously conducted calibrations of the MEPDG for Minnesota pavements; and 3) the inclusion of advanced analysis features included in MnPCC-ME’s flexible design counterpart, MnPAVE. The development and source code of MnPCC-ME is detailed in this final report.

# Chapter 1 Introduction

The research project was created in response to a Minnesota Department of Transportation (MnDOT) need statement titled, “Develop a simplified model for Concrete Pavement Design.” This statement set out specific research goals, as summarized in an excerpt from the need statement (NS 241) itself.

*Working closely with the MnDOT Materials Office, the researcher will:*

- *help validate the latest version of DARWin-ME and determine which version to use for the next step;*
- *develop a matrix of design inputs to run through the ME software;*
- *evaluate the output of the runs (done by MnDOT) and*
- *develop the methods and tool to perform regressions on the output; and*
- *develop a simplified set of inputs and equations for incorporation into an end-user design tool (MnDOT 2011).*

The following sections of Chapter 1 will introduce background and motivation for the initial research goals of NS241. Furthermore, these sections will briefly elaborate on the expansion of those goals by the project technical advisory panel (TAP) in the preliminary stages that preceded the official start of the project work.

## 1.1 MnDOT RigidPave and project objectives

Prior to the project, MnDOT had used its RigidPave software as the basis for jointed plain concrete pavement (JPCP) design for projects in the State of Minnesota. This software used a design procedure based upon the American Association of State Highway Transportation Officials (AASHTO) 1993 procedure for rigid pavements, informally referred to as “AASHTO93” herein (AASHTO 1993). As noted by the pavement research community – and observed empirically in the longevity of the JPCP at the Minnesota Road Research Project (MnROAD) – AASHTO93 is a generally conservative, outdated design procedure (Burnham and PirkI 1997, Darter et al 2001). For this reason, MnDOT sought to replace RigidPave, specifically with software based on a design procedure that incorporated both empirical and mechanistic design principles.

### 1.1.1 MnDOT rigid design to include mechanistic-empirical analysis

The natural replacement for both the RigidPave software and its underlying procedure is one of the AASHTO mechanistic-empirical (M-E) design procedures to come out the NCHRP 1-37A research project (NCHRP 2003). The first design software to result from NCHRP 1-37A was the AASHTO Mechanistic-Empirical Pavement Design Procedure (MEPDG) (AASHTO 2009). Later, the M-E structural and performance models that form the basis of the MEPDG would be used similarly in the later iterations of the AASHTO M-E procedure. More detail on these procedures, and the procedure selected for the project work, is provided in Section 1.2 below.

### ***1.1.2 Identify key design inputs to simplify design***

In meetings preceding the start of the project work, the “matrix of design inputs” discussed in NS241 quickly became an issue that required a great deal of discussion and collaboration between the research team and TAP. Given the extent of design input parameters in the AASHTO M-E design procedure, the research team conducted extensive sensitivity analyses to determine the design inputs that MnDOT and the TAP deemed most critical. This process and the final design inputs are described in Chapter 2.

### ***1.1.3 Localize MnDOT design for rigid pavements***

One feature of RigidPave that MnDOT and the TAP did not want to discard was the fact that it was not based on the original AASHTO93 design, but rather a version that had been modified to meet MnDOT needs. This so-called localization, though not expressly stated in NS241, was desired for the software to succeed RigidPave. Two major focuses were the use of 1) available Minnesota climate data and 2) weigh-in-motion (WIM) data collected by the MnDOT Traffic office. Chapter 3 details the research effort that put traffic and climate datasets to use in the new design software.

Furthermore, as the project work progressed, additional objectives surrounding localization were raised by the TAP. One such objective was the desire to use the results of a pre-existing MEPDG calibration and localization efforts by MnDOT in the developed design software. This and other localization objectives are also discussed in Chapter 3.

### ***1.1.4 Provide design table in an accessible format to act as companion to MnPAVE***

The development of an “end-user design tool,” as stated in NS241, was an open question for much of the early project work. However, once the design inputs had been narrowed, the TAP made the decision to move away from the use of Microsoft Excel as the backbone for the design software. (RigidPave was a Microsoft Excel worksheet.) The development of a standalone program is detailed in Chapter 5; the source code for that program is provided in Appendix C.

## **1.2 Relevant mechanistic-empirical procedures**

As noted above, an initial and important objective for the TAP was to select an M-E design procedure that would be the basis of the rigid design software. To assist the TAP in selecting that procedure, the research team and MnDOT worked collaboratively to develop and run JPCP projects in four AASHTO M-E design programs:

- MEPDG 0.91
- MEPDG 1.003
- MEPDG 1.1 (AASHTO 2009)
- DARWin-ME (AASHTO 2011)

As Pavement ME Design was not released until the later stages of the project work, it was not included as a potential basis for the design software. The initial investigation into these procedures was thus comparative analyses of project performance across the above four programs. The TAP and research team were, of course, forced to overlook obvious difficulties that included:

- identical projects run in three different versions of the MEPDG will inexplicably produce different performance results for each version of the software;
- while some documentation exists (Darter et al 2006), in general insufficient documentation exists to account for modifications to both the software and NCHRP 1-37A M-E models in moving from MEPDG 1.003 to DARWin-ME; and
- the MEPDG software is plagued with bugs and glitches that can corrupt project input and output files (i.e. a project input file, when run in the MEPDG, may sometimes not produce identical outputs on multiple program runs, despite the fact that the software and project inputs have not changed).

These difficulties, particularly the behavior of MEPDG, have been documented elsewhere (Kannekanti and Harvey 2006). The difficulties in these programs were accepted by the TAP on the condition that the research team remain aware of them and take efforts to limit their impact on the final product.

During the months preceding the start of the project, the research team and engineers at MnDOT worked to compare the performance of MEPDG 0.91, MEPDG 1.003, MEPDG 1.1, and DARWin-ME for a series of identical JPCP projects. These comparisons came to the general conclusion that DARWin-ME was slightly more conservative in design than MEPDG for a given project. In addition, the DARWin-ME software was found to be an improvement over the MEPDG in terms of user experience and program stability (e.g. MnDOT reported that after nearly 500 iterations, they had yet to experience a program fault).

There were also difficulties with DARWin-ME. These difficulties, such as faulting sensitivity, were all fairly minor compared to the one major issue that was noted previously. Changes to the underlying M-E models from MEPDG 1.003 to DARWin-ME are unclear and poorly documented. Furthermore, AASHTO and the DARWin-ME developers are unable to account for differences between the performance of identical JPCP projects run in a given version of MEPDG and DARWin-ME. For this reason, the TAP rejected the use of DARWin-ME on the general concern that they did not “know” DARWin-ME as well as they should, given the M-E program comparison and the lack of appropriate documentation.

The question that remained, then, was which of the versions of the MEPDG the research team would use for the project work. As was the case with DARWin-ME, program documentation was the decisive issue. While extensive modifications were made to MEPDG 0.91, incorporated into MEPDG 1.003, and documented in Darter et al (2006), no similar documentation exists for the modifications were made to MEPDG 1.003 and incorporated into MEPDG 1.1. However, the research team and MnDOT engineers involved in the investigation of the M-E procedures noted that MEPDG 1.1 did not replicate known issues that occurred in both MEPDG 0.91 and 1.003. Overall, given the experience of the research team in the development of the MEPDG, and the fact that more comprehensive documentation for the MEPDG exists than there does for DARWin-ME, the TAP selected MEPDG 1.1. Thus, all project work in the development of Minnesota JPCP projects and analysis of these pavement projects using an M-E procedure discussed in this reporting utilizes MEPDG 1.1.

### **1.3 Overall project research product**

Prior to the project work starting, the TAP had refined and expanded the project research goals extensively. Furthermore, the TAP selected MEPDG version 1.1 to serve as the M-E basis for the final design software. Hence, by the time the project work initiated with its first task, the overall project research had a clearly defined path and research product:

1. Finalize design inputs;
2. Account for local conditions and concerns;
3. Build and run a database of Minnesota JPCP projects using MEPDG version 1.1;
4. Develop software to allow users to easily interface with the database of Minnesota JPCP projects; and
5. Distribute and finalize rigid design software, known as MnPCC-ME, including the creation of a basic user's guide.

This final report, on a chapter-by-chapter basis, details the process described above and the software to result from the project.

### **1.4 Special note on the format of the final report**

This project report has been created to be used as a supplement to the MnPCC-ME software and User's Guide. A great deal of reporting that would typically be included for completeness – such as the results of the many rounds of MEPDG sensitivity analyses and climate file considerations – has been excluded to improve the ability of the report to act as reference material for MnPCC-ME users. In addition, materials that rightfully belong in the body of the report, including information on the development of the axle load spectra input files and the MnPCC-ME source code, have been relegated to appendices to this report to further improve readability.

## Chapter 2 Final design inputs for Minnesota rigid pavement project database

Given the hundreds of design inputs in the AASHTO M-E design procedure, it is not feasible to select a wide variety of inputs to be varied in creating the database of Minnesota JPCP projects for the design software. Rather, the research team conducted three rounds of sensitivity analyses, which comprised over 20,000 MEPDG project runs, to assist the TAP in selecting design parameters that were both 1) important to Minnesota pavement engineers and 2) influential in the M-E performance models. The following sections summarize the final parameters to be varied and the shared parameter values for all projects (i.e. inputs that were held constant for all projects).

### 2.1 Performance criteria and summary of input parameters to be varied

The MEPDG expresses JPCP performance in three areas: faulting, transverse cracking, and roughness (IRI). The TAP determined that, as newly constructed JPCP in Minnesota will always be doweled, there was no need to assess faulting for the design software. This effectively isolated transverse cracking as the controlling distress for the database given that IRI is dependent on both cracking and faulting. In addition, the TAP later established transverse cracking criteria based upon project location and anticipated traffic volume. These criteria are detailed in Section 5.2.

After many rounds of sensitivity studies to investigate parameters that included concrete coefficient of friction, coarse aggregate type, and base/subbase characteristics, the TAP selected the following parameters, with associated values, as parameters of interest:

- Design Life: Can be any amount, expressed in years
- Climate: Varies by MnDOT district, described in Section 2.4;
- Traffic: Varies by volume, expressed in heavy commercial annual daily trucks (HCADT) and by axle load spectra, described in Section 2.5;
- Concrete thickness: Database built using projects from 6 to 12 inches in half-inch increments (note that these values were used to build the database of JPCP project results – more detail in Chapter 5);
- Flexural strength: Database created using projects with values of 340, 465, 590, 715, or 840 psi (note flexural strength is not a selectable input parameter, rather these values were used to build the database of JPCP project results – more detail in Chapter 5);
- Joint spacing: 12 ft and 15 ft;
- Outer lane width: 12 ft and 13 ft; and
- Shoulder LTE: 10% (unbound or AC shoulder) and 40% (paved shoulder).

There are both design and computing assumptions in the selection of these parameters and their associated values. For instance, joint spacing could have included the intermediate values 13 ft and 14 ft. However, these additional values would increase the number of projects required for

the database. As the final Minnesota database comprised 10,920 unique projects, the research team was hesitant to add parameters to the database that did not have an obvious reason for inclusion – for example, values that matched as-built values were preferred. Other values that were more difficult to estimate, such as the effective load transfer on the shoulder edge for a paved or unpaved shoulder, were assumed by the TAP based on recommendations from the research team.

## 2.2 M-E design inputs for pavement layers, material properties, and design features

The following subsections briefly summarize the final inputs selected by the TAP to represent a general Minnesota JPCP project. Unless otherwise indicated, MEPDG defaults were assumed for all input parameters in the projects. Table 3, located at the end of this chapter and included in the design software, summarizes these inputs. Furthermore, Table 3 is also reproduced in the “Design Values” tab of the MnPCC-ME software.

### 2.2.1 MEPDG design features

The most important parameter to note is dowel diameter, which varies according to concrete thickness. The assigned values meet MnDOT specifications for dowel diameter as provided to the research team, summarized in Table 1.

**Table 1. MnDOT dowel diameter specifications by concrete thickness**

<b>Project HPCC (in)</b>	<b>Dowel diameter (in)</b>
6 to 7.5	1
8 to 10	1.25
10.5+	1.5

### 2.2.2 PCC layer

All concrete values are default values. While members of the TAP discussed modifying these values to more closely reflect Minnesota concretes, the research team dissuaded the TAP from these changes given the relative sensitivity of the MEPDG performance models to certain parameters.

### 2.2.3 Base, subbase, and subgrade layers

While thicker bases are constructed in Minnesota, the TAP selected a base thickness of 4 inches as project minimum. Furthermore, given the insensitivity of the MEPDG performance models to base thickness, the TAP saw no value in varying base thickness in the project database. In a similar manner, the TAP selected a value of 12 inches as a minimum subbase thickness.

Both subbase and base characteristics were provided to the research team by the TAP, who desired that the base properties emulate MnDOT Class 5 materials and that the subbase properties emulate a MnDOT select granular material. The TAP provided the associated values for these materials (e.g. Poisson ratio, elastic modulus) to the research team after consulting the MnDOT specification and MnDOT research (Xiao and Tutumluer 2012).

Likewise, the TAP agreed upon the properties of the subgrade and provided those values to the research team for use in the project database.

## 2.3 Climate and the use of available hourly climate data

As with other parameters, after several rounds of sensitivity analysis, the TAP determined that the design software should represent each district individually, so that users could easily represent the environmental conditions for a given project. The implementation of this decision into the project database and design software is briefly summarized in the following subsections.

### 2.3.1 *Development and validation of MEPDG climate inputs for Minnesota districts*

MnDOT delivered climate data for Minnesota locations in the form of associated hourly climate data (HCD) files that had been used successfully for MnDOT simulations using DARWin-ME. These locations were approved by the TAP. One early complication was that the research team uncovered that these files created errors when used in the MEPDG, and as a result the project work included scanning and rebuilding these files by replacing missing values with interpolated data, including any missing lines. The completed HCD files were used to create Enhanced Integrated Climate Model (ICM) files for each district.

### 2.3.2 *Districts and associated climate locations/files*

All districts are associated with a unique ICM file excepting District 7, which shares the Redwood Falls climate file with District 8. The locations and climate files used to represent each district are described in Table 2.

**Table 2. Climate locations and files with associated MnDOT districts**

District	Location/file
1	Hibbing, MN
2	Grand Forks, ND
3	Brainerd, MN
4	Alexandria, MN
Metro	Minneapolis-Saint Paul International Airport (MSP)
6	Rochester, MN
7	Redwood Falls, MN
8	Redwood Falls, MN

In all cases, districts are associated with the best available climate file to represent the district. District 7 is not the only case of this; as a quality HCD file to represent a location inside District 2 could not be located, the TAP determined that the use of data from climate station near Grand Forks, ND was an acceptable substitute.

### 2.3.3 *Additional user guidance on climate input files*

In all analyses conducted on MEPDG sensitivity to Minnesota climate, one fact became immediately clear: projects located in the Metro area that used the MSP climate file performed markedly better than identical projects located in non-Metro locations. While there are a number of hypotheses on structural response to environment, “island effect” climate conditions, etc. that could be constructed, the research team informed the TAP of this observation to potentially inform the design software. One effect of this observation is that the TAP was motivated to



create specific performance criteria in the design software based on Metro and Non-Metro project location. More detail on these criteria can be found in Section 5.2.

## **2.4 Traffic inputs and the localization of traffic for Minnesota conditions**

### ***2.4.1 Traffic volume, traffic growth, and design lane traffic***

The TAP determined that traffic would be characterized by the engineering using two main parameters: the volume of heavy commercial average daily truck (HCADT) traffic and a linear growth rate over the input design life of the project. One major assumption concerning traffic volume is that the software assumes that 100% of trucks are in the design lane; traffic volumes should be estimated and input accordingly.

### ***2.4.2 Axle load spectra and the use of MnDOT weigh-in-motion data***

One major interest for the TAP was the possible use of MnDOT weigh-in-motion (WIM) data in the development of the design software. While it was possible to use WIM data, it turned out to be a process that, while not complicated, was laborious given the amount of data and the procedure required to use that data to create inputs for the MEPDG. Appendix A records the step-by-step procedure the research team followed to use MnDOT WIM data to create axle load spectra inputs for the MEPDG.

The incorporation of axle load spectra into the design software provides additional sophistication to the M-E design available to state and local engineers. However, with that sophistication comes the danger of engineers selecting an inappropriate load spectra for a given project. Though the axle load spectra input appears on the main input page, it is an advanced input that should only take on the non-default spectra in rare circumstances. **Section 5.6 provides full detail on the selection of an appropriate axle load spectra for a given project.**

**Table 3. MEPDG design parameters for all Minnesota JPCP projects**

MEPDG Design Features						
Curl/Warp Eff Temp Diff	Sealant Type	Joint Design		Base Properties		
		Dowel Diameter	Dowel Spacing	Erodibility Index	PCC-Base Interface	Loss of Friction
-10	Liquid	1, 1.25, or 1.5 (MnDOT spec)	12	Erosion Resistant (3)	Full friction contact	360

MEPDG Structure - Layer 1 - JPCP							
PCC General		PCC Thermal			PCC Mix		
Unit Weight	Poisson's Ratio	COTE	Thermal Conductivity	Heat Capacity	Cement content	W/C Ratio	Aggregate
150	0.2	5	1.25	0.28	500	0.40	Limestone

MEPDG Structure - Layer 2 - Base					
Material	Thickness	Strength Properties - Level 3			Notes
		Poisson's	CoLP, Ko	Modulus	
A-1-a	4	0.35	0.5	35640	Values estimate Class 5; modulus from lab tests

MEPDG Structure - Layer 3 - Subbase					
Material	Thickness	Strength Properties - Level 3			Notes
		Poisson's	CoLP, Ko	Modulus	
A-3	12	0.35	0.5	18350	Values estimate Select Granular; modulus from lab tests

MEPDG Structure - Layer 4 - Subgrade				
Material	Thickness	Strength Properties - Level 3		
		Poisson's	CoLP, Ko	Modulus
A-6	Semi-infinite	0.35	0.5	14000

## Chapter 3 MEPDG database generation

After the TAP established the selected MEPDG project file inputs, as detailed in Chapter 2, the research team was able to generate the thousands of JPCP projects whose characteristics and performance would be used to represent Minnesota pavements for the M-E design software (MnPCC-ME). The following sections detail the process of generating MEPDG project files and obtaining the performance of these projects. The full MEPDG JPCP project database comma-separated value (CSV) file is reproduced in Appendix B of this report.

### 3.1 Development of project files

Provided the desired inputs to be varied, the research team was able to create a factorial of 10,920 MEPDG projects representing JPCP in Minnesota that would be the foundation of the MnPCC-ME software. The total number of projects was determined from the variables to be modified and is illustrated in Table 4.

**Table 4. Factorial of MEPDG projects to represent Minnesota JPCP**

7	x	3	x	2	x	13	x	5	x	2	x	2	=	<b>10920</b>
<i>Climate</i>		<i>Axle</i>		<i>Outer</i>		<i>PCC</i>		<i>Flexural</i>		<i>Panel</i>		<i>Shoulder</i>		<i>Total</i>
		<i>load</i>		<i>lane</i>		<i>Thickness</i>		<i>strength</i>		<i>length</i>		<i>LTE</i>		<i>projects</i>
		<i>spectra</i>		<i>width</i>										

A large CSV file was created to represent each of the parameters needed to be input in the MEPDG, including the varied parameters in Table 4 and the other parameters described in Chapter 2. The MEPDG project file inputs are quite extensive, so the input CSV file was extensive.

#### 3.1.1 Building MEPDG project files

The research team has conducted many analyses using large amounts of MEPDG simulations. This experience was drawn upon to build the project files, which is complicated by the fact that the MEPDG only allows Design Guide Project (DGP) files to be created through the MEPDG software graphical user interface, which is cumbersome and time consuming. To bypass this, the research team created a visual macro to automate the process of DGP file creation. For reasons that will be explained in Section 3.2, each project is assumed to have the same design life and traffic. The assumed values (which are arbitrary) for this project are a traffic volume of 2000 average annual daily trucks over a 20 year design life with no traffic growth. Once the DGP file was created, it was run through the MEPDG software (although the result of this run was not considered “official” quite yet).

#### 3.1.2 Verifying integrity and accuracy of MEPDG project input files

Once the project files are created and run initially, it is necessary to verify that the input files created are complete and accurate. As noted previously, the MEPDG software is notorious for its ability to create Windows faulting events and other such bugs/glitches, and in so doing it can sometimes corrupt seemingly proper DGP and project intermediate files. The research team created an additional macro to review the Microsoft Excel worksheet summarizing the project

inputs and the various intermediate files that are important to the JPCP models and their associated executable programs. After verifying the input files, all projects with incorrect or suspect inputs are prioritized in the queue to run all projects a second time. Initial project run results are recorded and saved for verification after the second round of simulations.

### ***3.1.3 Execute project runs***

While the MEPDG “Batch Mode” can be relied upon for relatively small numbers of simulations, the research team has enough experience with this mode failing after roughly 100 simulations to avoid it if at all possible. For this project, the research team instead created a visual macro to open, run, and save each MEPDG project for the second run of simulations. Note that this round included corrections to those project files whose inputs were somehow corrupted in the initial run.

### ***3.1.4 Final verification of MEPDG project files and results***

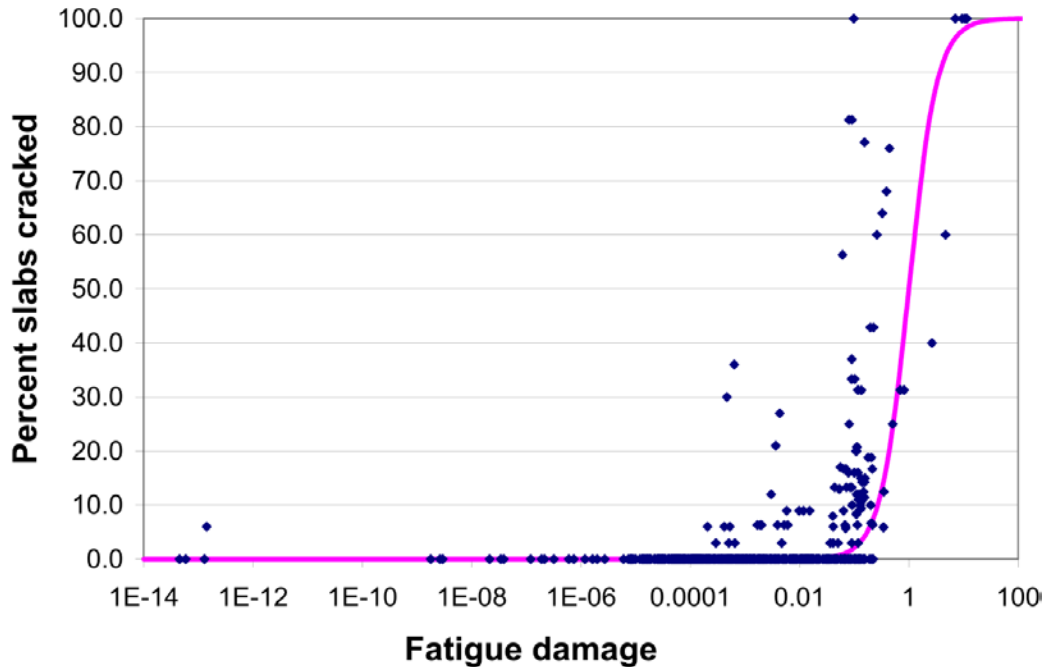
At this point, nearly all project files and results will pass the verification filters established earlier and conducted on the second round of simulations. Any suspect project files will be corrected and run individually at this point to eliminate erroneous/suspicious results.

### ***3.1.5 Creation of Minnesota JPCP database***

Given that transverse cracking is the controlling distress for the MnPCC-ME software, a final visual macro will gather top-down and bottom-up damage results for each project. These results are collected with the corresponding project information and stored on a line by line basis in a CSV file. The complete CSV file, with 10,920 lines corresponding to each Minnesota JPCP project, represents the final database. The use of damage, rather than cracking results, is detailed in Section 3.2 below.

## **3.2 Storing database results in terms of bottom-up and top-down damage**

While cracking levels are important to the final design decision, for research analysis cracking lacks accuracy given the relationship between damage and cracking (detailed in Section 5.3). Whereas top-down and bottom-up damage scale linearly with traffic volume, transverse cracking is related to damage with an inverse exponential function (commonly referred to as an “S-shaped curve”).



**Figure 1. Example of matching field data to MEPDG JPCP transverse cracking model (AASHTO 2008)**

Given the complexity of the fatigue damage and JPCP transverse cracking models, the use of cracking to quantify the sensitivity of a given M-E design to traffic is far more indirect a measure than using top-down or bottom-up damage. Thus, the analysis used for the creation of this database quantifies project performance in terms of damage factor. Given that damage scales linearly with traffic, the design software can then scale damage accordingly for any level of traffic volume, growth, and design life. The software can then convert the scaled damage to transverse cracking using the MEPDG JPCP transverse cracking model. (For reference, a damage factor of 1 corresponds to 50% transverse cracking in the pavement system.)

The use of damage results and the calculation of transverse cracking, then, is the reason the developed software is incorporate other sophisticated features, including:

- As the software uses the JPCP transverse cracking equations directly, the software is able to accommodate user-provided calibration coefficients
- As the software calculates the cracking itself and does not rely on MEPDG reporting, it is able to accommodate reliability methods beyond the MEPDG default
- As the software accommodates a full spectrum of traffic volumes, growth rates, and design lives, the calculated total traffic can be used to inform the project performance criteria

An additional advantage of the use of damage and damage scaling is that, should MnDOT choose to modify the software further, many features that are as yet unexplored will be more easily implementable as the MEPDG database of projects will not need to be re-run. More details on the MEPDG JPCP Transverse Cracking model can be found in Section 5.3.

# Chapter 4 Final design software

## 4.1 Establishing the software

In the early stages of the project, the TAP expressed the desire to have the final software take a form similar to that of RigidPave. However, over the course of time, it became clear to the TAP that the familiarity of the Excel spreadsheet was outweighed by its limitations – namely, in binding the design tool to the requirement that it not only be compatible with current versions of Excel, but also the previous versions of Excel that are certainly in use throughout the State of Minnesota. The one constant the TAP was comfortable with was the assumption that all state and local engineers would have as his or her operating system either a 32-bit or 64-bit installation of Microsoft Windows.

In addition, it was important to the TAP to preserve the ease and “usability” of RigidPave in the developed design software. Many TAP members pointed to the MnPAVE software, yet expressed the concern that even MnPAVE could be simplified and made more direct. MnPAVE requires a Windows installation, and while the installation itself can be a simple, multi-stage process, it also puts the engineer one step further from direct use of the design software. In describing its experiences and desires, the TAP set out rough guidelines for the research team to follow. These guidelines are effectively summarized as “Make it quick and easy.”

An important addition to these guidelines is the understanding that the research team members are pavement engineers, not software developers. Thus, another guiding principle was that the implemented software required code that was both accessible and portable. The research team had no intentions of being perpetual custodians of the developed software – rather, the intention was to develop simple code that could be finalized with input from the TAP and handed to MnDOT, for MnDOT to modify and maintain henceforth.

The developed software is based on an open-source (publicly available under the GNU Public License) Windows scripting language called AutoHotKey\_L (AHK) (AutoHotKey 2013). AHK is an interpreted language, thus the instructions in an AHK script are not compiled as the language and data structures are tied together in ways that are not present in a typical compiled language. Given that the scripting is open-sourced under GPL, MnDOT should have no concerns of copyrights or other proprietary violations. More detail on the developed software is included in the following sections. Finally, the AHK script used to produce the design software is provided in Appendix D of this report.

By using AHK, the Mn-PCC ME program was created with three design goals: it should be portable; it should not require installation; and it should limit user interaction to changing pavement design inputs and obtaining a design thickness.

Portability. The software is a 32-bit program, which itself is a self-contained executable (EXE) file. This file can be stored and run from any location on a user’s Windows machine.

No installation. The program requires no installation to run, and it makes no changes to the Windows registry. The program file can be emailed, stored on a USB drive, etc. and used anywhere. This feature goes hand-in-hand with its portability.

Limit clicks to design. User interaction (through so-called clicks) should be limited to opening the program, changing inputs as required, and clicking “Run” to return a design thickness. The program returns the thickness result in an instant.

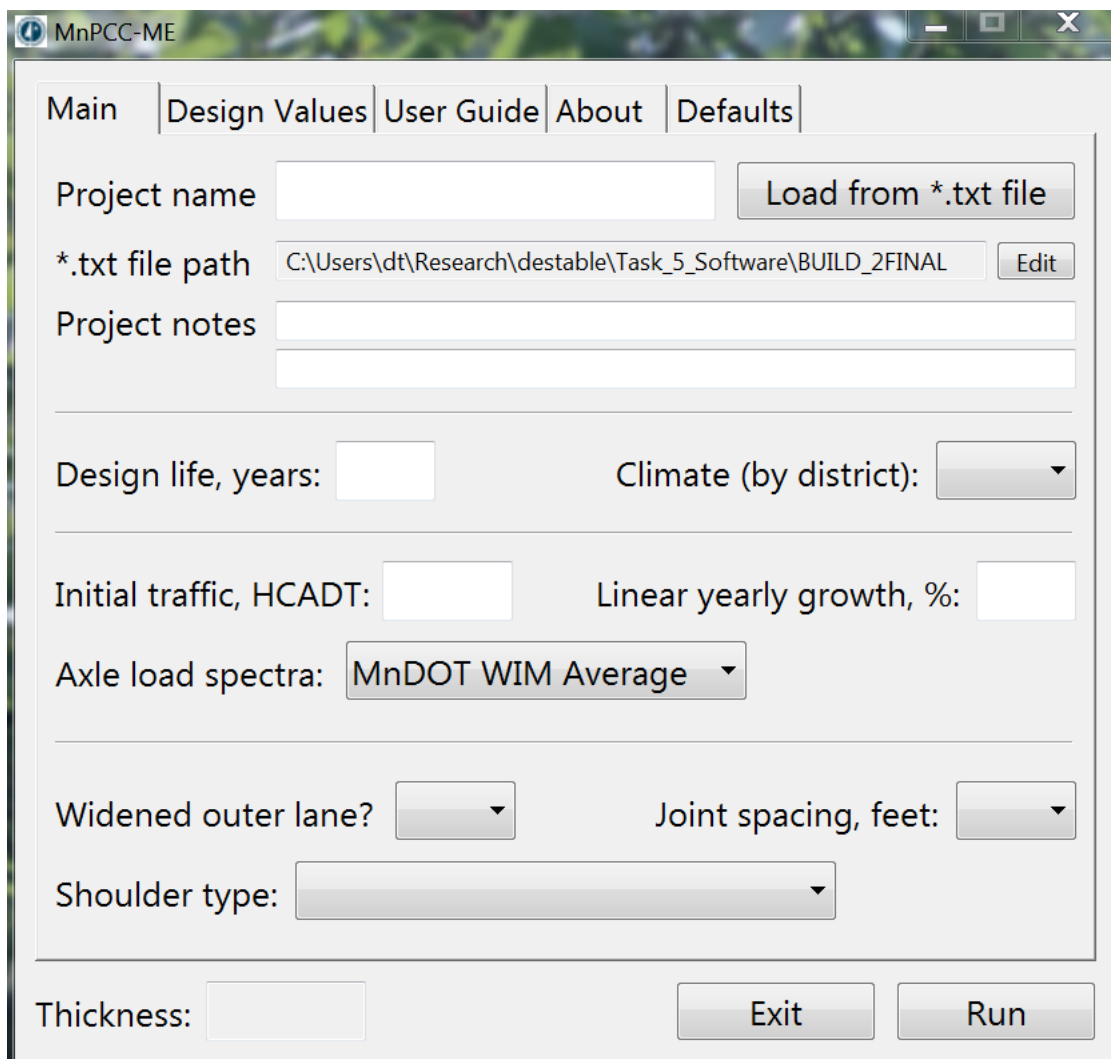
The goal is that a state or local engineer should be able to take a project report and quickly estimate the design thickness given information from that report. After extensive testing of the software through many versions, the TAP concluded the design process is straightforward.

## 4.2 Program overview

The software is a 32-bit program executable (EXE) file that can be opened from any location on the user’s Windows installation. The following subsections detail its use and benefits.

### 4.2.1 General use

Upon opening, by default the program will display the Main tab, illustrated in Figure 2.



The screenshot shows the MnPCC-ME software interface. At the top is a title bar with the icon and text 'MnPCC-ME'. Below the title bar is a tabbed interface with five tabs: 'Main', 'Design Values', 'User Guide', 'About', and 'Defaults'. The 'Main' tab is selected. The main area contains several input fields and buttons. At the top left is a 'Project name' text box. To its right is a 'Load from \*.txt file' button. Below the project name is a '\*.txt file path' text box containing the path 'C:\Users\dt\Research\destable\Task\_5\_Software\BUILD\_2FINAL', with an 'Edit' button to its right. Below the file path is a 'Project notes' text area with two lines. Further down are 'Design life, years:' and 'Climate (by district):' fields. Below these are 'Initial traffic, HCADT:' and 'Linear yearly growth, %:' fields. Below the growth field is an 'Axle load spectra:' dropdown menu showing 'MnDOT WIM Average'. Below the spectra menu are 'Widened outer lane?' and 'Joint spacing, feet:' dropdown menus. Below the joint spacing menu is a 'Shoulder type:' dropdown menu. At the bottom left is a 'Thickness:' text box. At the bottom right are 'Exit' and 'Run' buttons.

Figure 2. MnPCC-ME Main input tab

All other tabs in the program interface, while useful, are unnecessary to complete a project run. The Main tab contains all intended design parameters for a given project, and the fields can be completed easily and the project run quickly to immediately obtain a design thickness.

**A special note is that one input on the main input tab is less straightforward than the others: the Axle Load Spectra input. While the TAP intended for most users to leave this input as the default (“Minnesota Average”), if the user feels a change is warranted, guidance has been provided in both the User’s Guide and Section 5.6 of this report to assist the user with that input relative to a given project report.**

The software has been designed so that it can be used without the need to “learn” the program, but rather picked up and put to use immediately. However, the following subsections detail a few features of the developed software and its use.

#### 4.2.2 Project file format

As illustrated in Figure 2, the program is able to save to and read from project files. These project files are simple text files that summarize all project inputs and some calculated properties (including total trucks over design life).

#### 4.2.3 Protections to avoid changes to advanced default inputs

Certain project inputs are restricted to use by engineers in the MnDOT Office of Materials and Road Research only. The TAP felt that these inputs (described in detail in Chapter 5) were important to include in the software but too potentially influential to be considered as standard inputs included in the main tab of the software. The tab corresponding to the advanced inputs (labeled “Defaults”) is password-protected to avoid engineers accidentally modifying these values. This tab, and its inputs, are illustrated in

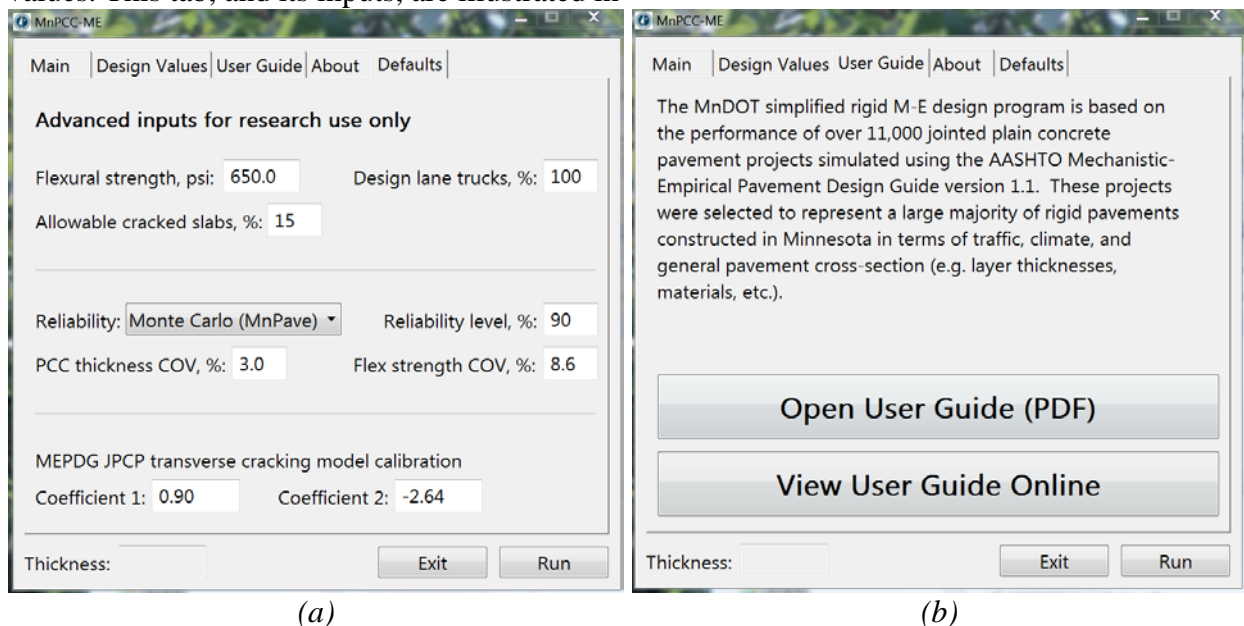


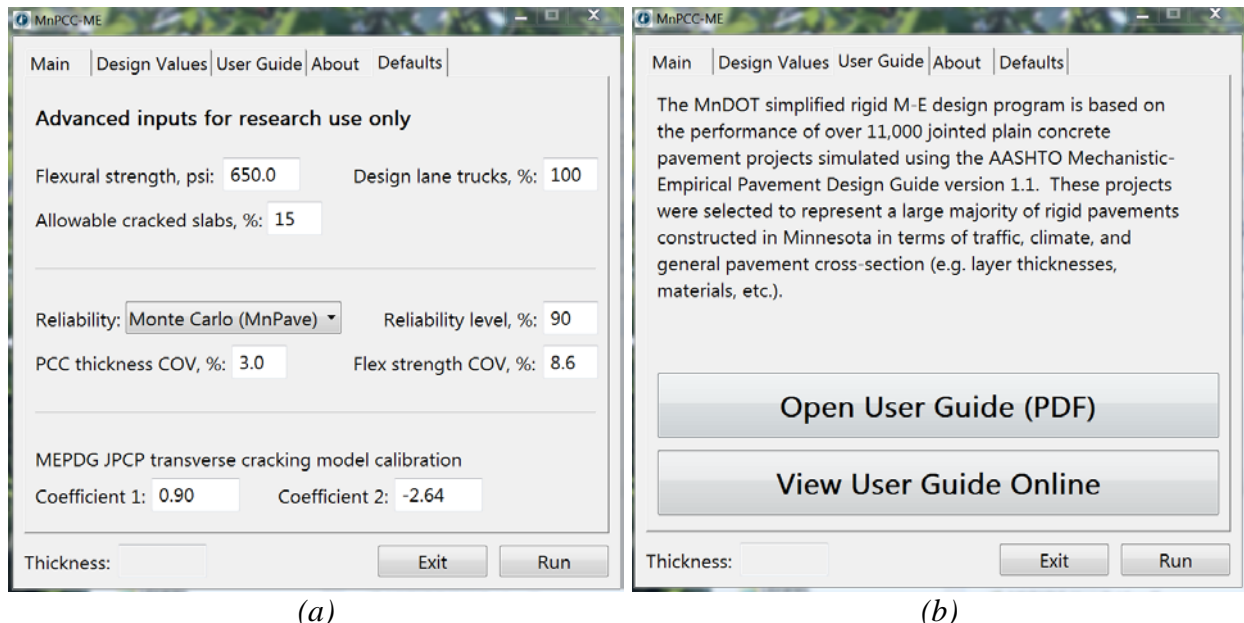
Figure 3.

#### 4.2.4 Software user’s guide

A simple user’s guide is provided to users in the form of a portable document format (PDF) file embedded in the software executable file. This PDF file is opened by the software on user prompting, and it is the only aspect of the software that requires external programs (in this case,



a program capable of reading PDF files). It should be noted that the software will continue to function should the user not have a PDF reader installed on his/her computer. The user's guide is illustrated in Appendix C of this report, and the corresponding tab in the program is illustrated in Figure 3.



**Figure 3. (a) MnPCC-ME advanced inputs for research use and (b) “User’s Guide” tab**

# Chapter 5 Advanced inputs for the design software

## 5.1 Reliability analysis

The design software presents two options for reliability analysis: 1) the reliability analysis of the MEPDG and 2) Monte Carlo method-based reliability analysis. The following subsections provide more detail on each. Note that the default reliability analysis for MnPCC-ME is the Monte Carlo simulation.

### 5.1.1 MEPDG reliability analysis

For more detail on the MEPDG reliability analysis, the reader is encouraged to consult the MEPDG User's Guide (NCHRP 2003) and the MEPDG Manual of Practice (AASHTO 2008).

### 5.1.2 Monte Carlo simulation (similar to MnPAVE)

One request from the TAP from the very beginning of the project was that users wanted the design software to emulate the reliability analysis of MnPAVE, MnDOT's M-E design tool for flexible pavements. In MnPAVE, the reliability analysis is a Monte Carlo simulation that accounts for variations in surface layer thickness and modulus. The research team developed a basic Monte Carlo simulation that acts in a manner similar to that of MnPAVE.

A Monte Carlo simulation, in very basic terms, consists of running multiple simulations in which certain parameters are randomly varied to obtain a distribution of results. For this project, the result is the predicted transverse cracking and the varied parameters are concrete thickness and modulus of rupture. Given a certain reliability level (or confidence level), the software uses the distribution of transverse cracking to report the associated design thickness value that meets the input reliability level.

## 5.2 Performance criteria based on location and traffic volume

Throughout the project the TAP adjusted performance criteria (transverse cracking and reliability levels) to compare thickness designs from early versions of MnPCC-ME with those of RigidPave and the AASHTO M-E software for similar projects. The final criteria from the TAP follows recommendations from AASHTO and the MEPDG developers (NCHRP 2003) to vary cracking and reliability based upon traffic volume, the rationale being that higher volume roadways should be subject to more stringent design criteria. The final criteria are described in Table 5. Note that the total vehicles over service life are calculated by the design software using the traffic volume, linear growth, and design life.

**Table 5. Final performance criteria selected by TAP for design software**

<i>Total vehicles over service life</i>	<b>Metro</b>		<b>All other districts</b>	
	<i>Reliability</i>	<i>Cracking</i>	<i>Reliability</i>	<i>Cracking</i>
<b>6.5M or less</b>	75%	6.5%	50%	15%
<b>6.5M to 13M</b>	90%	6.5%	75%	15%
<b>13M or more</b>	97.5%	6.5%	90%	15%

### 5.3 MEPDG JPCP transverse cracking model calibration coefficients

Given that the design software does the cracking calculation directly using available damage information from the database of MEPDG JPCP projects, the software is able to accommodate the use of non-default JPCP transverse cracking model coefficients, where the JPCP transverse cracking model is expressed in the MEPDG Manual of Practice (AASHTO 2008) as

$$CRK = \frac{1}{C4 + FD^{C5}} \quad (1)$$

where  $C4$  and  $C5$  are calibration constants (with AASHTO default values of 1.0 and -1.98, respectively) and  $CRK$  refers to the percent of slabs cracked in bottom-up and top-down transverse cracking and  $FD$  to the slab bottom-up and top-down fatigue damage, as calculated using Equations (2) and (3)

$$FD = \sum \frac{n_{i,j,k,l,m,n}}{N_{i,j,k,l,m,n}} \quad (2)$$

$$\log(N_{i,j,k,l,m,n}) = C_1 \cdot \left( \frac{MR_i}{\sigma_{i,j,k,l,m,n}} \right)^{C_2} \quad (3)$$

where

- $N_{i,j,k,l,m,n}$  = Allowable number of load applications given conditions  $i, j, k, l, m$ , and  $n$
- $n_{i,j,k,l,m,n}$  = Applied number of load applications at condition  $i, j, k, l, m$ , and  $n$
- $MR_i$  = PCC modulus of rupture at age  $i$ , psi
- $\sigma_{i,j,k,l,m,n}$  = Applied critical stress at condition  $i, j, k, l, m$ , and  $n$
- $C_1$  = Calibration constant (AASHTO default value is 2.0)
- $C_2$  = Calibration constant (AASHTO default value is 1.22)
- $i$  = Age
- $j$  = Month
- $k$  = Axle type (single, tandem, and tridem)
- $l$  = Load level
- $m$  = Temperature difference
- $n$  = Traffic path.

One of many reasons the TAP selected MEPDG to serve as the basis for the database was that the local cracking coefficients developed in previous MnDOT calibration studies could be applied to the projects in the database. For this reason, the local calibration coefficients  $C4$  and  $C5$  for Minnesota have values of 0.9 and -2.64, respectively (Yut et al 2007; Velasquez et al 2009). More detail on the cracking performance and the database of JPCP projects can be found in Section 3.2, which details the use of damage, as opposed to cracking, as the main result of the JPCP database.

## 5.4 Variability in as-built thickness and modulus of rupture

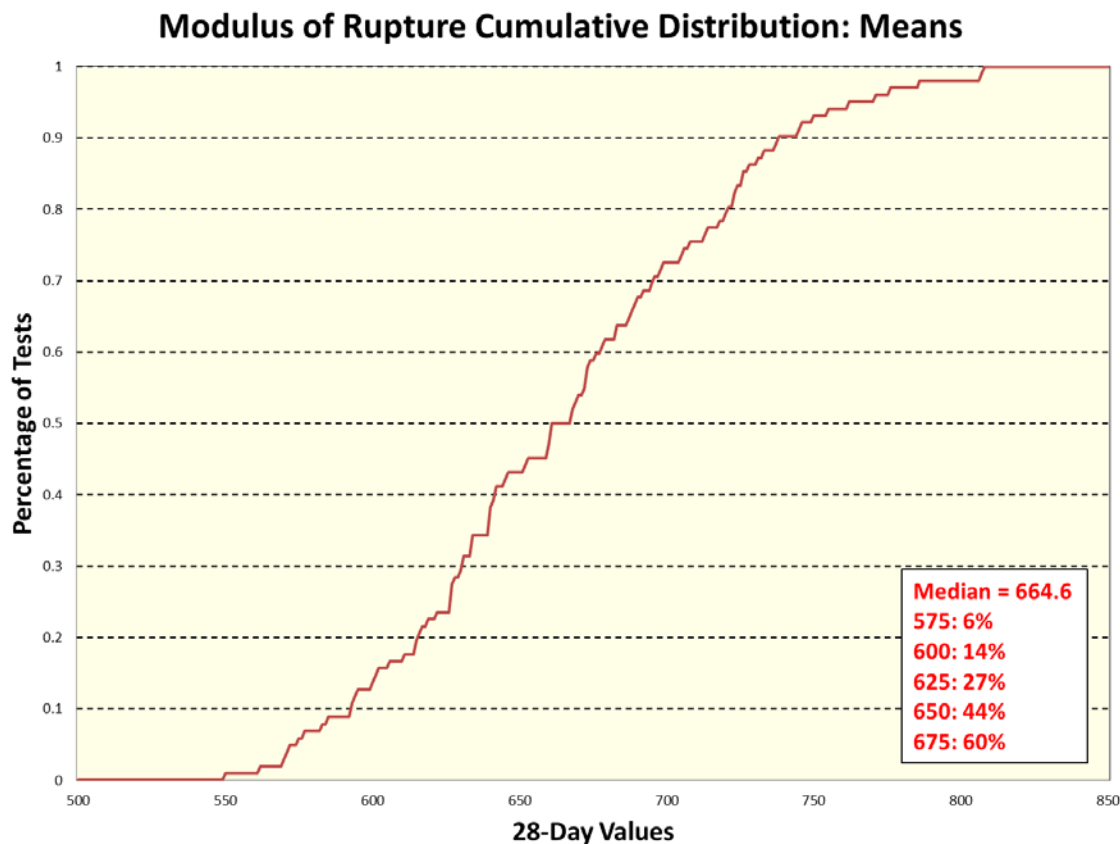
The research team consulted with members of the MnDOT Concrete Design office for data to develop a coefficient of variation (COV) for each of as-built concrete thickness and concrete modulus of rupture. Table 6, Table 7, and Figure 4 summarize the statistical analyses conducted on datasets for both as-built core thicknesses and beam flexural strength tests. While this data is not included in full in this final report, it can be accessed through the MnDOT Concrete Design office to verify and/or revise the COVs present in MnPCC-ME.

**Table 6. Summary of statistical analysis conducted by research team on MnDOT as-built core data**

Project HPCC (in)	Projects	Cores	Mean Coefficient of Variation
6 to 7.5	9	448	7.34%
8 to 10	35	2507	4.58%
10.5+	18	1430	2.67%
Overall	62	4385	4.43%

**Table 7. Summary of MnDOT statistical analysis of strength beams**

Project MR	Projects	Beams	Mean Coefficient of Variation
Overall	42	7592	8.61%



**Figure 4. Distribution of means for all strength beam data as reported by MnDOT**

## 5.5 Special comments on concrete modulus of rupture

The default value for the concrete modulus of rupture was a point of constant discussion among the members of the TAP. There were a number of reasons this particular parameter was frequently discussed, among which number

- Not only is it a very influential design parameter in the MEPDG, but there is a great deal of empirical data to support its importance to pavement durability and overall performance. In short, flexural strength is very important.
- The modulus of rupture is a closely monitored property of the pavement, and as detailed in Section 3.4, MnDOT has collected a large number of strength beams in the process of monitoring paving projects. The TAP recognized that the available MnDOT strength beam data had obvious implications for this project.
- Finally, the MEPDG reliability analysis accounts for variability in material properties in uncertain ways in the sense that all project variability is assumed to be of a fixed value. This fixed value is, of course, unfair to those characteristics that are closely monitored and controlled, and flexural strength is one such property.

In response to the above three (and other) points, the TAP made the decisions detailed in the subsections below.

### 5.5.1 *Use of MnDOT beam strength test data for Design Table project*

As described in Section 3.4, the TAP chose to use MnDOT beam data collected from paving projects throughout Minnesota for the development of a coefficient of variation in flexural strength. Furthermore, the statistical median of means (667 psi), indicated in Figure 4, was used to inform the default value assumed in the design software, as detailed in Section 5.5.2 below.

### 5.5.2 *Assumed values of modulus of rupture for reliability analysis*

As discussed in Section 3.1, the design software assumes one of two reliability methods: the default is a Monte Carlo simulation and the second is the MEPDG reliability analysis. Because these methods handle variability in flexural strength differently, different default values for flexural strength are assumed for each reliability method. The MnDOT specification for concrete pavement construction requires that projects meet a flexural strength of 500 psi; as a consequence, this value had been previously assumed by MnDOT for its M-E design purposes.

If the default Monte Carlo simulation is assumed, the default flexural strength is 650 psi. This value is used as it is near the statistical mean from the MnDOT data and because the Monte Carlo simulation accounts for the actual variation in this property, also represented in the MnDOT data.

If the MEPDG reliability analysis is assumed, the default flexural strength is 590 psi. This value is used because the TAP was uncertain about a few things regarding the MEPDG: 1) as discussed before, the “blanket” variability applied to all material properties ignores much of the quality control invested in current construction methods and 2) given the sensitivity of the MEPDG to the flexural strength, the TAP was concerned that there was a risk of “overcorrecting” by adjusting the flexural strength too much to account for the reliability unfairly assessing the variability in flexural strength. As a result, the TAP settled on a value of 590 psi, which, while higher and more realistic (given MnDOT beam data) than the previous default of 500 psi, is not too high as to create concerns about overcorrection.

## 5.6 Selection of appropriate axle load spectra

While axle load spectra is an input parameter that all users can modify (i.e. it is not protected in the “Advanced Inputs” tab of the design software), it remains a very sensitive input that should not be modified unnecessarily. Use of non-default load spectra should only be conducted in the presence of significant traffic data to justify the decision. With very few exceptions, the TAP intended for users to select the default load spectra (the Minnesota average, or “MNAVG”) for all projects.

The decision that the Minnesota average axle load spectra is appropriate for all Minnesota projects is not only based on TAP intuition and experience, but also on the extensive WIM data made available to the project. This data supported the idea that nearly all projects are best served by the average load spectra. More reporting on the selection of the load spectra and the damage caused by the load spectra is reported in Section 2.4.

Generally, users will not have the extensive traffic data (including axles by type and weight) to make a fully informed decision about the axle load spectra. If these users should still be uncomfortable using the program default, in most cases the only data they will possess will come from a traffic report that looks similar to the information in Figure 5, an excerpt from a report provided to the research team by engineers at MnDOT.

BASE YEAR PROPORTIONS		BASE YR. VOLUME	% TREND	FORECAST %	FUTURE VOL.
2AX-6TIRE SU	1.9%	795	1	1.9%	1301
3AX+ SU	0.9%	367	1	0.9%	601
3AX TST	0.1%	25	1	0.1%	41
4AX TST	0.2%	71	1	0.2%	116
5AX+ TST	4.5%	1946	1	4.5%	3184
(5AX+ TST MAX)	0	0	1	0.0%	0
(5AX+ TST OTH)	0	0	1	0.0%	0
TR TR, BUSES	0.4%	172	1	0.4%	282
TWIN TRAILERS	0.1%	34	1	0.1%	55
SUMMARIES:		AADT	HCADT	HCADT %	20 YR DESIGN
0	COUNT:	0	0	#DIV/0!	LANE CUMULATIVE ESAL
2014	FORECAST:	42800	3410	8.0%	
2034	FORECAST:	70100	5580	8.0%	
DESIGN LANE FACTOR:		0.45			
					FLEXIBLE RIGID
					14,591,000 22,739,000

**Figure 5. Sample traffic report provided to project engineer by MnDOT Traffic office**

The information in Figure 2 is nowhere near as comprehensive as the data used to build and evaluate the axle load spectra, which accounts for axles by type (single, tandem, or tridem) and axle weight. However, it can still provide a good “first step” in axle load spectra selection if used in conjunction with Table 8, which estimates the distribution of heavy commercial vehicles (by MnDOT class) for each axle load spectra option in the design software. These estimates are based on the same data used to create the input files (i.e. the WIM data provided to the project by the Traffic office).

**Table 8. Estimation of MnDOT vehicle class distributions for each associated axle load spectra**

MNDOT CLASS	DESCRIPTION	MNAVG	MNHVY	MEPDG
4	2AX 6TIRE	20.0%	16.4%	24.6%

5	3AX SINGLE	8.1%	7.7%	8.1%
6	3AX SEMI	2.2%	1.1%	2.5%
7	4AX SEMI	2.2%	1.1%	2.5%
8	5 AX SEMI	58.5%	54.4%	31.3%
9	6AX SEMI	3.6%	11.1%	9.8%
10	TRAILERS, BUSES	2.1%	1.4%	1.8%
11	TWIN TRAILERS	3.1%	6.8%	19.4%
	<b>TOTAL CLASS 9 + 11</b>	<b>6.7%</b>	<b>17.9%</b>	<b>29.2%</b>

In order to help use the table appropriately, the following describes the steps a user should follow to evaluate the axle load spectra using Figure 5 and Table 8. First, the entries under “Base Year Proportions” are the percentages of total HCADT traffic volume. These values should be normalized so that we recover a distribution of classes within the anticipated heavy commercial traffic. Table 9 performs this first operation, where all values in the “Base Year Proportions” are divided by the anticipated percentage of HCADT (“HCADT %”). In this case, the anticipated percentage of HCADT is 8.0%.

**Table 9. Determining distribution of HCADT by MnDOT vehicle class from example traffic report**

Description	Reported data	Distribution	Notes (MnDOT Class)
2AX-6TIRE SU	1.9%	23.8%	4
3AX+ SU	0.9%	11.3%	5
3AX TST	0.1%	1.3%	6
4AX TST	0.2%	2.5%	7
5AX+ TST	4.5%	56.3%	8
(5AX+ TST MAX)	0	0.0%	9
(5AX+ TST OTH)	0	0.0%	9
TR TR, BUSES	0.4%	5.0%	10
TWIN TRAILERS	0.1%	1.3%	11

Given the distribution from Table 9, the user can compare the distribution to those of Table 8. **A very important point is that, far and away, the most important comparison is in the so-called tail of the vehicle classes. In MnDOT vehicle class terms, this tail consists of Class 9 and Class 11 vehicles.** No other vehicle class comparison effectively matters – this is because the majority of damage to a given pavement is due to MnDOT Class 9 and 11 vehicles and their associated axle types/weights. For this reason, the rows of Table 6 corresponding to these vehicle classes have been highlighted and totaled in the final row.

For the example of Figure 5, the total amount of heavy commercial vehicles that fall under MnDOT Classes 9 and 11 is 1.3%. This total is obtained by adding the corresponding three rows under the Distribution column in Table 9 for 5AX+ TST MAX (MnDOT Class 9), 5AX+ TST OTH (MnDOT Class 9), and TWIN TRAILERS (MnDOT Class 11). To determine if this total warrants a consideration of non-default axle load spectra, we compare the total with the values in the final row of Table 6. Here we see that 1.3% is well below all values, including that of MNAVIG, the default axle load spectra for the design tool. Thus, there is no reason to deviate from the default axle load spectra.

To reiterate, the TAP approved the axle load spectra on the assumption that nearly all users would not deviate from the Minnesota average axle load spectra. If the user has a rare case

where the total distribution of MnDOT Class 9 and 11 vehicles significantly exceeds the Minnesota averages for that “tail,” the user is encouraged to consult the Traffic office. More information on the axle load spectra by type and weight will allow the user to make an informed design. **In nearly all cases, including those where the project distribution tail marginally exceeds the Minnesota average tail, the user should adopt the Minnesota average axle load spectra.**



## Chapter 6 Conclusions

As noted in the special note to the Introduction, this final report is intended to supplement the MnPCC-ME software and User's Guide. It does not record every research effort in the process, in part because that effort was quite extensive yet not particularly worthy of reporting. Rather, much of the project research was an effort to inform the TAP so it could mold the developed MEPDG database and M-E design software. For this reason, the previous chapters were focused on reporting the final decisions from the TAP.

Those decisions resulted in MnPCC-ME, a design tool for rigid pavements that has many benefits for MnDOT and Minnesota pavements:

- The software is portable, it is accessible, and it produces results instantaneously.
- The software requires that users modify only critical input parameters.
- The project database is built on the AASHTO M-E procedure.
- The project database is robust, yet it is not unwieldy.
- Both the software and database are easily accessed and potentially modified by MnDOT research engineers.

It is hoped that MnPCC-ME will encourage state and local engineers to incorporate M-E principles into the design of Minnesota rigid pavements.

### 6.1 Special notes on modifications to and future versions of MnPCC-ME

The research team has provided the full database and source code so that MnDOT is able to make any and all revisions to the software, should it be required or desired. The following subsections discuss a few examples of possible revisions or changes and how the developed software supports these changes.

#### 6.1.1 *Coefficients of variation and calibration constants*

As noted in the previous chapters, should additional research provide MnDOT with additional perspective on variation in thickness and flexural strength, the corresponding advanced inputs can be easily modified to new default values. In addition, if future research deals with further calibration of the AASHTO M-E models using Minnesota pavements, the revised calibration constants can be incorporated into future designs by simply changing the corresponding fields in the software. Note that MnDOT 1) could make these changes on a per-run basis or 2) could modify the source code to use new default values and rebuild a new version of the program executable.

#### 6.1.2 *Modifying results database to accommodate other MEPDG-based mechanistic-empirical design methods*

Should additional information on the AASHTO M-E procedures, or any other design procedure, come to light and MnDOT should choose to adopt that procedure fully, the developed software can still be used in conjunction with that new procedure. MnDOT will need to build and run projects under the new procedure, but provided the results (including top-down and bottom-up

damage) are reported in a format that matches the current format of the database CSV file, the software will interact with the new CSV file without issue. (This example assumes, of course, that MnDOT is aware that the software continue to estimate project cracking at a specified reliability level according to the MEPDG JPCP transverse cracking model, as described in Sections 3.2 and 5.3.)

### ***6.1.3 Merging MnPCC-ME and MnPAVE for a unified MnDOT M-E design procedure***

Finally, the research team anticipates that it may be worthwhile for MnDOT to pursue the unification of its rigid and flexible design software. During the project work, the research team received many requests for MnPCC-ME features that simply could not be fulfilled adequately due to a lack of research hours. A majority of those requests could be effectively summarized as “Is the research team able to make [feature] look like it does in MnPAVE?” This speaks not only to the quality and wide adoption of MnPAVE but to the apparent need to join these procedures so that they share similar inputs (in terms of traffic and climate) and similar outputs (in terms of reporting and formatting). The unification of this software would have obvious benefits beyond the engineer’s understanding of inputs; for instance, alternative bids on paving projects would be less influenced by disparities in the inputs/outputs of the two design programs.

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# **Appendix A.**

## **MnDOT Traffic Data and Axle Load Spectra Input File Generation**

The MnDOT Traffic Office delivered six Microsoft Excel files (\*.xlsx) to the research team that contained data from eleven WIM stations from around the state. Of the files delivered, the following were consulted for the work described here:

- Load\_Spectrum\_By\_Class\_Single\_Axle.xlsx
- Load\_Spectrum\_By\_Class\_Tandem\_Axle.xlsx
- Load\_Spectrum\_By\_Class\_Tridem\_Axle.xlsx
- Load\_Spectrum\_By\_Class\_GVW.xlsx
- Vehicle Classification Scheme 2011.pdf

A few months after the initial delivery of traffic files, MnDOT Traffic delivered eight additional Microsoft Excel files (\*.xlsx) containing required data for the same stations. Of these eight files, three were considered for the work described in Appendix A:

- Load\_Spectrum\_5&9.xlsx
- Load\_Spectrum\_All\_Others.xlsx
- WIM\_Volume.xlsx

The following sections describe the step-by-step process used to build and use localized axle load spectra files for the MEPDG.

### **A.1 Procedure to incorporate state load spectra levels into M-E design**

To develop traffic load spectra input files for the MEPDG, the research team selected one calendar year of data (January through December) from each of eleven available WIMs. Each year of data was selected within one year of the same calendar year for all eleven stations. MnDOT WIM data used for this project were load spectra data by single, tandem, and tridem axles. Quad axles were not applicable given that they are currently not considered in the analysis procedure of the MEPDG (version 1.1). All axles were counted by vehicle class. The analysis also used WIM data that identified load spectra by gross vehicle weight and class.

The following subsections detail different stages in the process the research team applied to create MEPDG-appropriate traffic inputs given the MnDOT WIM data. The steps of this process are:

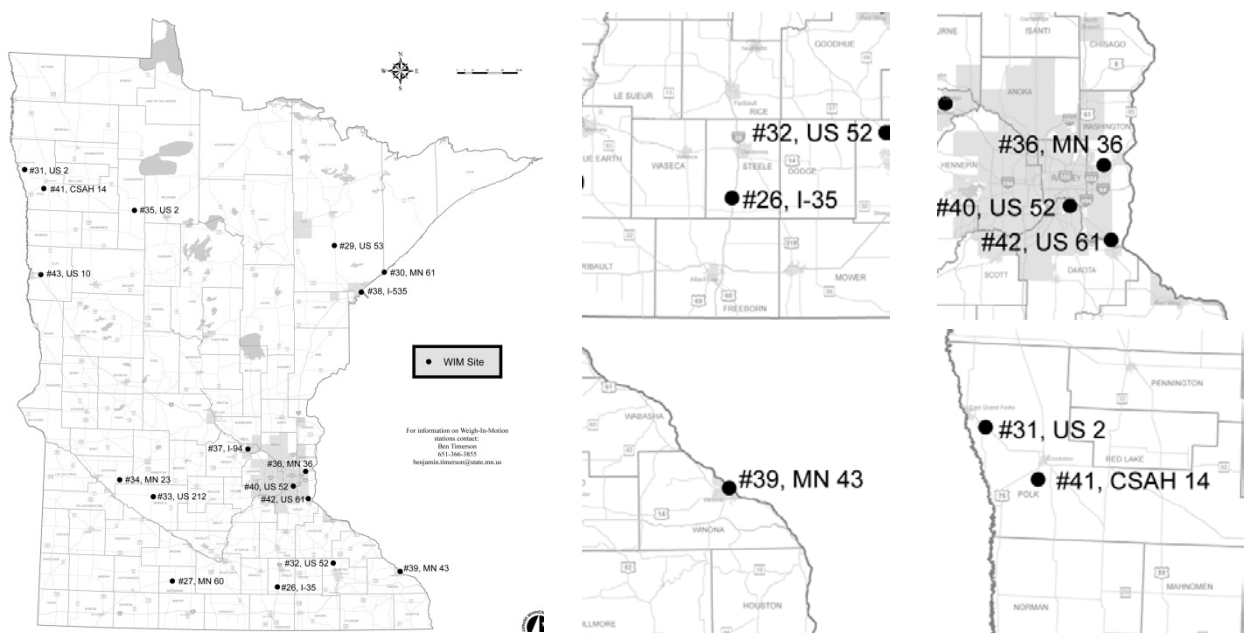
1. Estimate traffic volumes for each WIM given MnDOT vehicle count by class
2. Use MEPDG axle/truck ratios by class and MnDOT vehicle count by class to obtain MEPDG estimated axle count and compare MEPDG estimated axle count with MnDOT observed axle counts by axle type
3. Develop MEPDG load spectra by axle type using MnDOT WIM data
4. Create MEPDG intermediate traffic files from MnDOT WIM data and estimated traffic volume

The steps above are based on the assumptions that the data recorded for vehicle counts and axle counts account for identical traffic. Furthermore, MnDOT Traffic Forecasting and Analysis estimated WIM accuracy to be between 5% and 10% (Khazanovich 2012). This figure is considered reasonable in light of recommendations established by the MEPDG developers (Selezneva and Hallenbeck 2013). While WIM data accuracy was not considered in this study, it is of course an important factor when including local axle load spectra data into an M-E design study.

#### A.1.1 Estimate Traffic Volume by WIM Station

An important step in the process in understanding MnDOT WIM-based traffic inputs relative to MEPDG defaults was to first determine the traffic volume associated with a selected WIM. To obtain per-WIM traffic volumes, the process used MnDOT traffic analysis for explicit truck counts by class (provided in a file internally described as containing load spectra by class and gross vehicle weight). As an example, this information in summary is listed in **Error!**

**Reference source not found.** below for four WIMs used to illustrate the analysis, where truck classifications follow the MnDOT vehicle classification scheme. (While details of the WIMs are immaterial to the analysis, Figure 6 presents the locations of these WIMs for completeness.)



**Figure 6. Locations of MNDOT weigh-in-motion stations (inset figures depict locations of four WIMs used in the illustration of input file develop)**

**Table 10. Total truck counts by class for WIMs used in the traffic volume estimation**

# Trucks	WIM 26	WIM 36	WIM 39	WIM 41
CL4	35,449	13,101	5,178	1,301
CL5	124,518	191,530	52,555	6,188
CL6	65,971	44,183	19,019	5,704
CL7	3,787	4,262	3,281	2,036
CL8	41,224	24,830	11,623	799

<b>CL9</b>	1,191,006	65,637	149,821	11,072
<b>CL10</b>	34,671	8,123	13,865	7,226
<b>CL11</b>	60,544	56	189	5
<b>CL12</b>	21,678	799	600	49
<b>CL13</b>	4,088	1,034	583	1,482
<b>Total</b>	1,582,936	353,555	256,714	35,862
<b>AADTT</b>	4,337	969	703	98

As each WIM station represents 12 months of data, the calculation of the AADTT from the total trucks is straightforward, and that calculation is indicated in the final row of Table 10.

#### *A.1.2 Develop MEPDG Estimate of Axle Count*

The truck count estimates of Table 10 can then be used alongside estimates of axles by class, from reported WIM data, to further examine the traffic data. The MEPDG estimates single, tandem, and tridem axle volumes from overall traffic volumes by class according to the ratios of Table 11.

**Table 11. MEPDG estimate of axle volumes given truck volume by class**

<b>Class</b>	<b>MEPDG Axles/Truck<sup>1</sup></b>		
	<b>SA</b>	<b>TA</b>	<b>TR</b>
<b>CL4</b>	1.62	0.39	0.00
<b>CL5</b>	2.00	0.00	0.00
<b>CL6</b>	1.02	0.99	0.00
<b>CL7</b>	1.00	0.26	0.83
<b>CL8</b>	2.38	0.67	0.00
<b>CL9</b>	1.13	1.93	0.00
<b>CL10</b>	1.19	1.09	0.89
<b>CL11</b>	4.29	0.26	0.06
<b>CL12</b>	3.52	1.14	0.06
<b>CL13</b>	2.15	2.13	0.35

<sup>1</sup>From MEPDG User Guide (AASHTO 2008), also found in MEPDG v1.1 software at "Traffic > General Traffic Inputs > Number Axles/Truck"

As the MnDOT vehicle classifications agree with the classifications adopted by the MEPDG in terms of the axle configuration associated with each class, Table 11 can be used in conjunction with Table 10 to develop an estimate for single, tandem, and tridem axles by class for each WIM station to be used by the MEPDG, where the axle ratio for each class is multiplied by the truck count for that class to determine the estimated single, tandem, and tridem axles, respectively. An example of this estimation is provided in Table 12 alongside actual observed MnDOT axle counts by class for a given WIM.

**Table 12. MEPDG estimated axles by class versus MnDOT observed axles by class for WIM 26**

<b>MEPDG Est. Axles</b>	<b>WIM 26</b>			<b>MnDOT # Axles</b>	<b>WIM 26</b>		
	<b>SA</b>	<b>TA</b>	<b>TR</b>		<b>SA<sup>1</sup></b>	<b>TA<sup>2</sup></b>	<b>TR<sup>3</sup></b>
<b>CL4</b>	57,427	13,825	0	<b>CL4</b>	72,601	10,164	0
<b>CL5</b>	249,036	0	0	<b>CL5*</b>	250,416	0	0

<b>CL6</b>	67,290	65,311	0	<b>CL6</b>	0	66,611	0
<b>CL7</b>	3,787	985	3,143	<b>CL7</b>	4,266	645	1,415
<b>CL8</b>	98,113	27,620	0	<b>CL8</b>	53,509	29,142	0
<b>CL9</b>	1,345,837	2,298,642	0	<b>CL9*</b>	1,534,340	2,218,370	0
<b>CL10</b>	41,258	37,791	30,857	<b>CL10</b>	31,793	52,849	11,622
<b>CL11</b>	259,734	15,741	3,633	<b>CL11</b>	242,298	0	0
<b>CL12</b>	76,307	24,713	1,301	<b>CL12</b>	63,399	21,808	455
<b>CL13</b>	8,789	8,707	1,431	<b>CL13</b>	6161	7565	1663
<b>TOTAL</b>	2,207,579	2,493,336	40,365	<b>TOTAL</b>	2,258,783	2,407,154	15,155

While there are some discrepancies between the MEPDG estimate and the actual MnDOT observed axles, the overall comparison is favorable. MnDOT WIM data includes steering axles, which similar analysis should be certain to include as they account for a significant number of the single axles considered.

#### *A.1.3 Develop MEPDG load spectra by axle using WIM data*

The first step involved the resolution of MnDOT load spectra by single, tandem, and tridem axles into the load spectra used by the MEPDG for each of those axles. (Note that quad axles are discounted in this analysis, as they are not considered currently by the MEPDG.) The WIM data provided by MnDOT specifies load intervals by axle type as:

- Single axles are counted in 2 kip intervals from 1 to 41 kip.
- Tandem axles are counted in 2 kip intervals from 1 to 81 kip.
- Tridem axles are counted in 1 kip intervals from 0.5 to 141.5 kip.

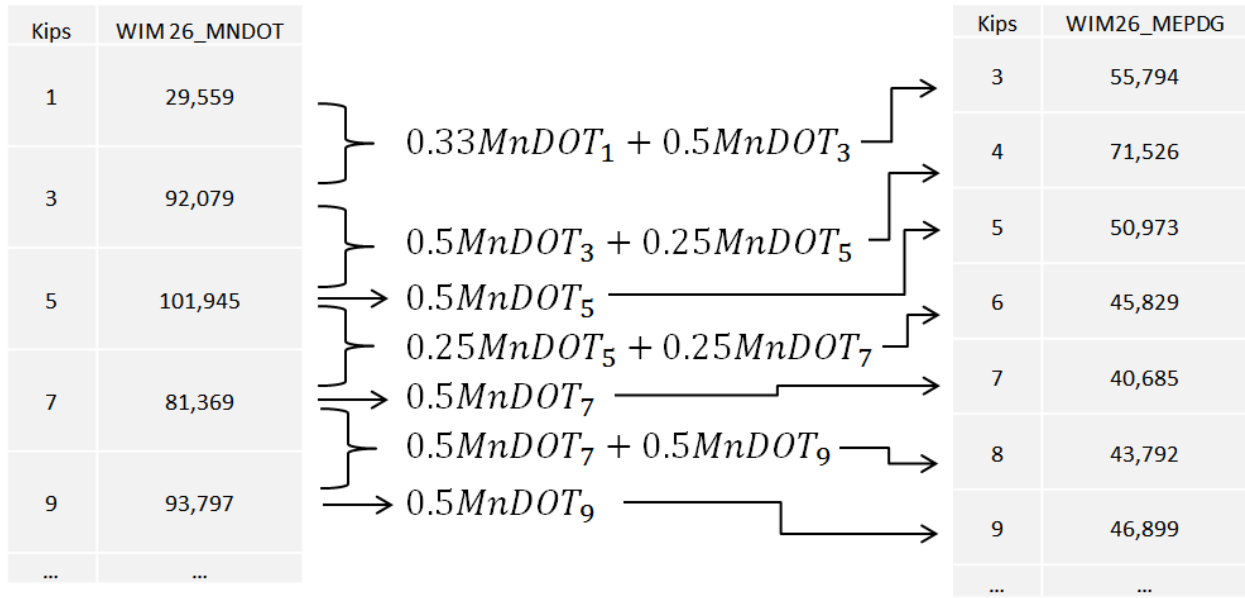
The load intervals by axle type adopted by the MEPDG for traffic inputs are:

- Single axles are counted in 1 kip intervals from 3 to 40 kip.
- Tandem axles are counted in 2 kip intervals from 6 to 80 kip.
- Tridem axles are counted in 12 kip intervals from 12 to 102 kip.

The intervals above are often referred to informally as “buckets.” The simple issue was to describe MnDOT traffic counts per axle and bucket according to the buckets used by MEPDG. While there is research on converting WIM data from various DOTs to an MEPDG-appropriate format, the papers and reports reviewed by the research team did not specify their methodology in doing so.

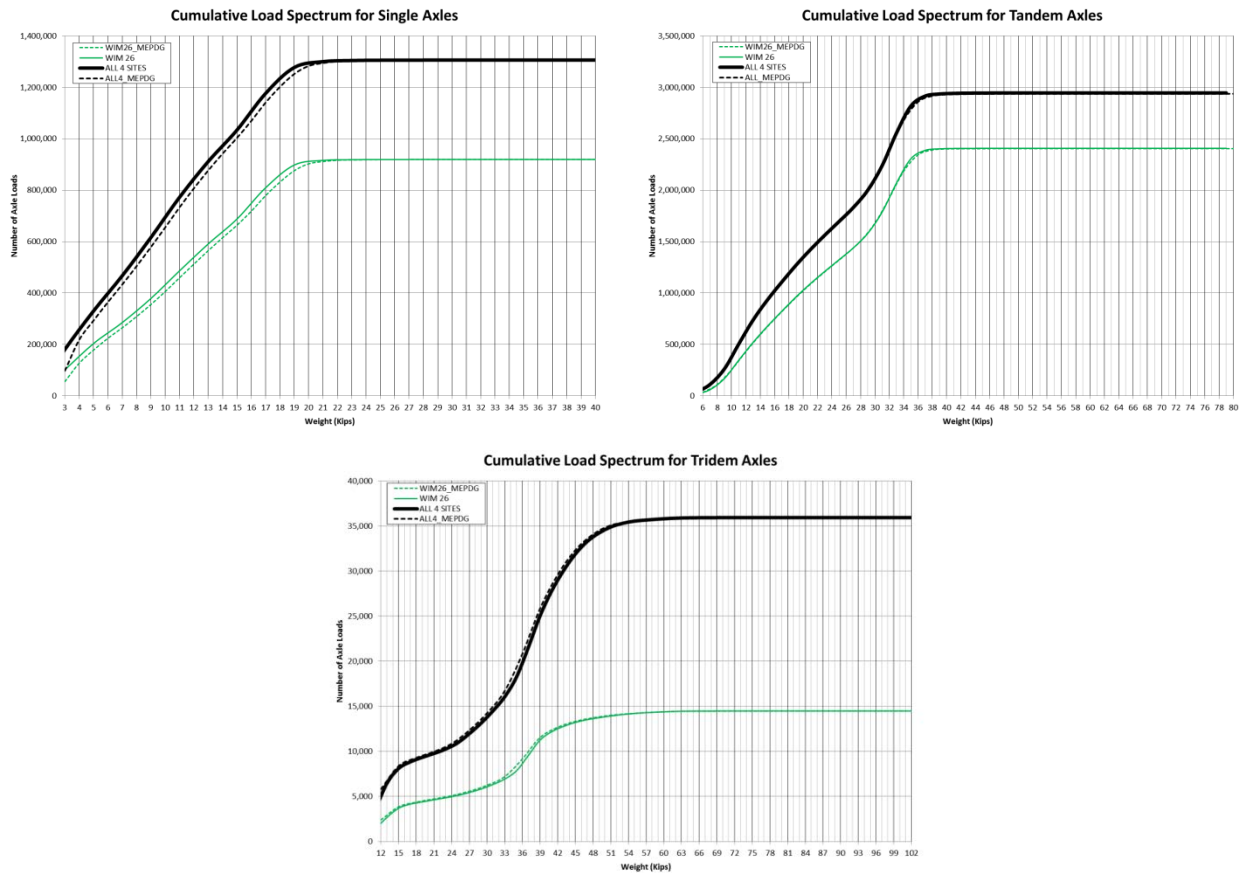
Hence, the research team employed a simple, straightforward estimation of axle counts for the MEPDG in a manner that is analogous to tributary load calculations in engineering analyses of structural mechanics. First, for a given axle type, the load intervals are totaled for all vehicle classifications. These total axle counts per interval are then re-distributed from the MnDOT kip buckets into the MEPDG kip buckets. Figure 7 describes this process for single axle data explicitly; this procedure was followed to develop equivalent MEPDG traffic load spectra by axle from the MnDOT WIM data in its given format.





**Figure 7. Approximating MnDOT load spectra for single axles using MEPDG load spectra**

At the conclusion of this process, the research team had load spectra data following the MEPDG load intervals that roughly approximated the WIM data provided by MnDOT. The final approximations are illustrated by axle type in Figure 8.



**Figure 8. Example of approximation of MnDOT WIM load spectra by axle type for MEPDG**

As evident in Figure 8, the developed MEPDG load spectra (in dotted lines) for each WIM adequately approximate the MnDOT originals (in solid line). Examination of each subfigure should account for the fact that for the single axle conversion, additional kip buckets were created to accommodate the MEPDG, whereas in the tridem axle case, MnDOT kip buckets had to be condensed into fewer buckets to accommodate the MEPDG. This is a rough estimate; it is an initial effort and should not be viewed as a final product. The intent was to generate approximate traffic inputs relatively quickly for analysis.

The procedure could be further refined to mirror the shape of the load interval function. However, for the time being the methodology as described above is sound, albeit unsophisticated, in that each load interval count according to the MnDOT WIM data contributes an equivalent load (in kips) in the MEPDG configuration (i.e. no “double counting” of loads from the MnDOT system to the MEPDG system).

#### *A.1.4 Create MEPDG intermediate traffic files for estimated traffic volume*

These load spectra by axle type for each WIM then give the relative distribution of load intervals for a given WIM. The MEPDG considers this distribution through the following intermediate comma-separated value (CSV) files:

- SingleAxleOutput.CSV
- TandemAxleOutput.CSV
- TridemAxleOutput.CSV

These files are not intended to be manipulated by the MEPDG user. However, given the experience of the research team in using the MEPDG for research purposes, the intermediate CSV files can be manipulated to investigate the influence the different load spectra have on predicted performance relative to the default load spectra assumed by the MEPDG.

The CSV files to be replaced per MEDPG project are located in the project directory. Hence, for a typical MEPDG installation, the intermediate traffic files for a project titled “Example1” are located in the directory C:\DG2002\Projects\Example1. Each file consists of load interval counts by month of pavement life, where each month corresponds to a row and each column corresponds to a load interval. Because of this, seasonal effects due to variable traffic load by month can be investigated, as noted above and later discussed in the Results section.

#### *A.1.5 Run MEPDG project files using modified intermediate traffic files for WIM-based load spectra*

To run the MEPDG with the modified load spectra files, the user has two options:

- Replace the original intermediate traffic CSV files with the modified files, which should be assigned “Read Only” properties, and re-run the MEPDG for the given project.
- Access the cracking.exe program in the MEPDG intermediate files and run this program to assess modified damage and cracking results.

For projects where faulting is not anticipated to be a major distress, the second option is the most efficient method for conducting analysis on the effect of axle load spectra. Furthermore, the first option includes the risk that the MEPDG software will overwrite the modified CSV files with the MEPDG default CSV files.

## **A.2 Analysis of projects using WIM-based load spectra**

To assess the differences in performance for Minnesota rigid pavement projects using MNDOT WIM-based axle load spectra instead of the MEPDG default load spectra, a series of projects were built and run using the MEPDG. These projects were designed so that only the load spectra varied from project to project. To begin, each WIM-based load spectra was used with the same project with 2000 AADTT and 4% linear traffic growth. The projects’ other properties were otherwise arbitrary; the emphasis was on using the same traffic inputs for all WIM-based load spectra for one project to recover the estimated rigid ESALs. The estimated rigid ESALs for each WIM-based load spectra, as reported by the MEPDG on completion of the project simulation, are reported in Table 13.

**Table 13. MEPDG estimated rigid ESALs per WIM load spectra for traffic volume of 2000 AADTT**

<b>Traffic Load Spectra</b>	<b>Estimated ESALs (for 2000 AADTT)</b>	<b>Traffic Load Spectra</b>	<b>Estimated ESALs (for 2000 AADTT)</b>
<b>WIM26</b>	8.90	<b>WIM37</b>	7.82

<b>WIM33</b>	32.42	<b>WIM38</b>	8.25
<b>WIM34</b>	10.19	<b>WIM39</b>	7.09
<b>WIM35</b>	7.17	<b>WIM40</b>	8.01
<b>WIM36</b>	7.65	<b>WIM41</b>	21.23
<i>MEPDG Default</i>	19.08		

From Table 13 one can observe that, in general, the use of Minnesota-specific load spectra is less damaging to projects than the use of the MEPDG default load spectra. Whereas the MEPDG default load spectra produces roughly 19 million rigid ESALs for 2000 AADTT at 4% linear growth, the WIMs made available to this research produce an average of 11.9 million rigid ESALs for this traffic level. Here only two of the ten WIMs produce more rigid ESALs than the MEPDG default:

- WIM 41 is situated along a county road near Crookston, Minnesota.
- WIM 33 is situated along a highway near Olivia, Minnesota.

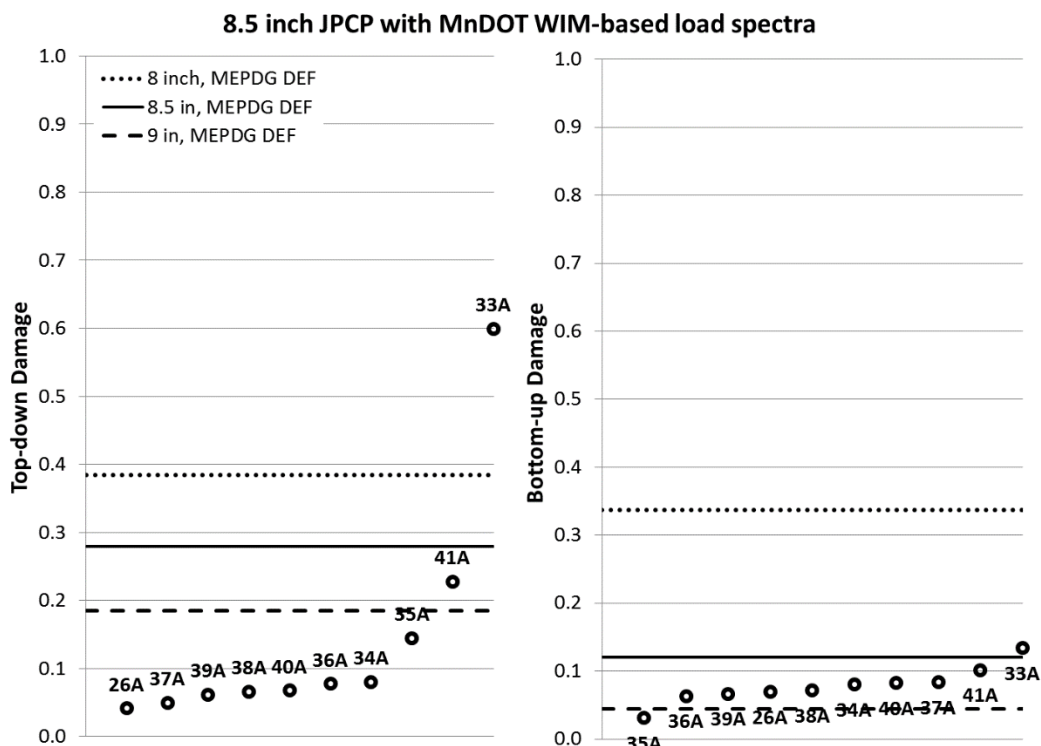
The only notable characteristics of these WIMs made available to the research team are those of WIM 41, which is located on a roadway that is seasonally used by the local agriculture industry for produce hauling. Local hauling practices lead to unusually heavy tandem and tridem axles for this WIM when compared to the distribution of axles for other WIMs.

Additional projects, with inputs suggested by MnDOT, were developed to assess the influence of WIM-based axle load spectra. This factorial of projects differed only in each projects use of different WIMs for the respective axle load spectra, otherwise the projects were identical in the following points:

1. The projects were associated with a climate file (.icm) for Alexandria, MN.
2. The projects assumed a 35-year design life and AADTT of 6780 vehicles with 2.5% linear growth.
3. The projects assumed a PCC thickness of 8.5 inches and MnDOT standards for layer thicknesses and selected materials, otherwise all inputs were set to the MEPDG Level 3 defaults.

The total top-down and bottom-up damage for these projects across all ten WIM-based load spectra files is depicted in Figure 9.

A note on Figure 9 is that one challenge of the research is discussing the relative influence of local WIM-based load spectra in terms that are easy to understand. While the use of damage, as discussed above, avoids the confusion that accompany indirect measures such as transverse cracking or faulting, it is still a factor that is difficult to appreciate in “real” terms. To address this, additional companion projects were developed using MEPDG default load spectra and half-inch increments in PCC thickness above and below the standard thickness assumed for the analysis. All other properties of these projects are identical to those detailed above (using Alexandria, 35-year service life, etc.). The use of the half-inch variations in thickness with default load spectra can be used to assess WIM-use relative to the damage experienced by thicker or thinner slabs. Thus, the lines in Figure 9 illustrate the damage for the projects which vary from the factorial only in their use of the MEPDG default load spectra and PCC thicknesses of 8, 8.5, and 9 inches.



**Figure 9. Damage in 8.5-inch JPCP project using WIM-based load spectra (lines indicate damage for equivalent project with JPCP thickness of 8, 8.5, and 9 inches)**

The predominant mode of failure in this case is top-down damage (at left in Figure 9). All but one project experiences less top-down damage than the standard 8.5 inch project using MEPDG default load spectra. The outlier, the project associated with WIM 33, experiences just over double the damage as the MEPDG default case with 8.5 inches of PCC thickness.

Furthermore, consider the damage of WIM 33 relative to the damage experienced by the MEPDG default case with 8 inches: this suggests that pavements designed using MEPDG defaults, if constructed for the location near WIM 33, would be underdesigned by at least a half-inch based on the damage experienced by the 8 inch MEPDG default project. It is more likely that those projects near WIM 33 would be underdesigned by a full inch or 1.5 inches.

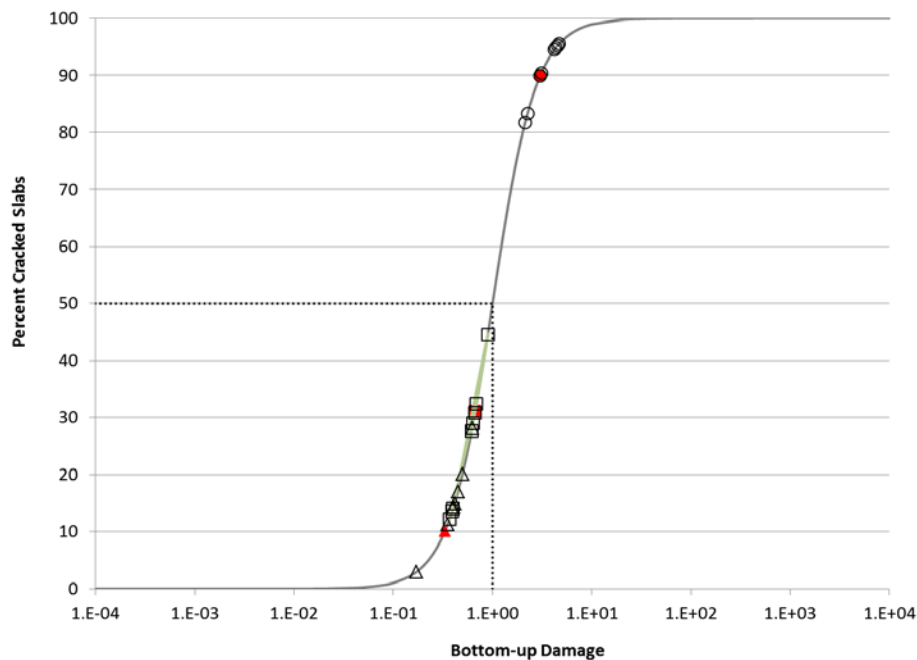
On the other hand, pavements constructed using MEPDG defaults near other WIMs would be overdesigned by a half-inch. Figure 9 at left illustrates that the damage experienced by those projects using those WIMs is less than the damage experienced by the project using MEPDG default load spectra and 9 inches of PCC thickness. The exception is WIM 41, whose use is slightly less damaging to the pavement than the MEPDG default (despite the fact that its associated rigid ESALs slightly exceeds those of the MEPDG default load spectra, as indicated in Table 13).

### A.2.1 Seasonal effect

One important feature of the WIM data provided for this research study is that the extent of the data allowed for seasonal analysis. As the MEPDG considers single, tandem, and tridem axle loads by month, this analysis was possible. Using data for the same calendar year for six of the ten WIMs, two sets of associated axle load spectra were constructed:

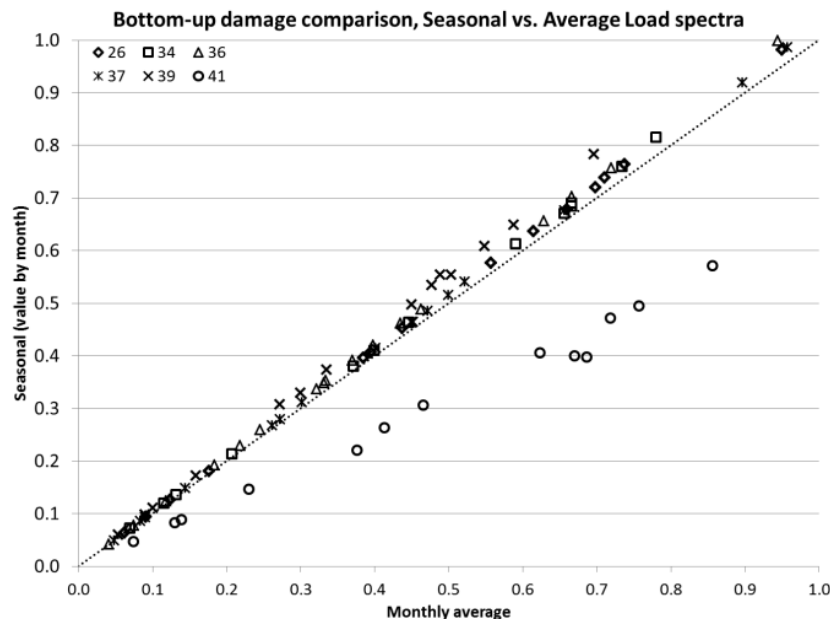
- “Seasonal” axle load spectra, using axle load data by month
- “Average” axle load spectra, using a monthly average for the given calendar year for axle load data

Twenty-five projects were selected from hundreds of projects to investigate the effect of seasonal axle load data. The projects were selected based on the damage produced using MEPDG defaults and the corresponding transverse cracking for those levels of damage (points shown in Figure 10 correspond to the projects used). Each of these selected projects was simulated using the seasonal and average axle load spectra for each WIM (thus resulting in a total of 300 simulations for the seasonal investigation.) Bottom-up damage was the predominant source of distress (i.e. transverse cracking) for all projects selected.



**Figure 10. Transverse cracking curve illustrating selection of projects for seasonal investigation**

Figure 11 illustrates results of this investigation by comparing, per project, the damage predicted given seasonal axle load spectra or monthly average load spectra. (Note that Figure 11 presents a subset of the simulations: those projects with damage exceeding 1.0 were excluded to preserve readability.) Furthermore, the dotted line in Figure 11 represents parity: projects above this line indicate that the use of seasonal load spectra was more damaging than the use of average load spectra.



**Figure 11. Comparison of bottom-up damage for projects using either load spectra based on seasonal WIM data versus monthly average WIM data**

In general, Figure 11 suggests that the use of seasonal WIM data is slightly more damaging to the pavement system than the use of average WIM data. The exception to this is WIM 41, which produced far less damage in projects when seasonal axle load spectra were used. Table 14 supports this observation.

**Table 14. Average percent increase in bottom-up damage when using seasonal load spectra from average load spectra for 25 projects**

WIM	Average difference
26	3.5%
34	3.3%
36	5.8%
37	3.3%
39	11.5%
41	-37.2%

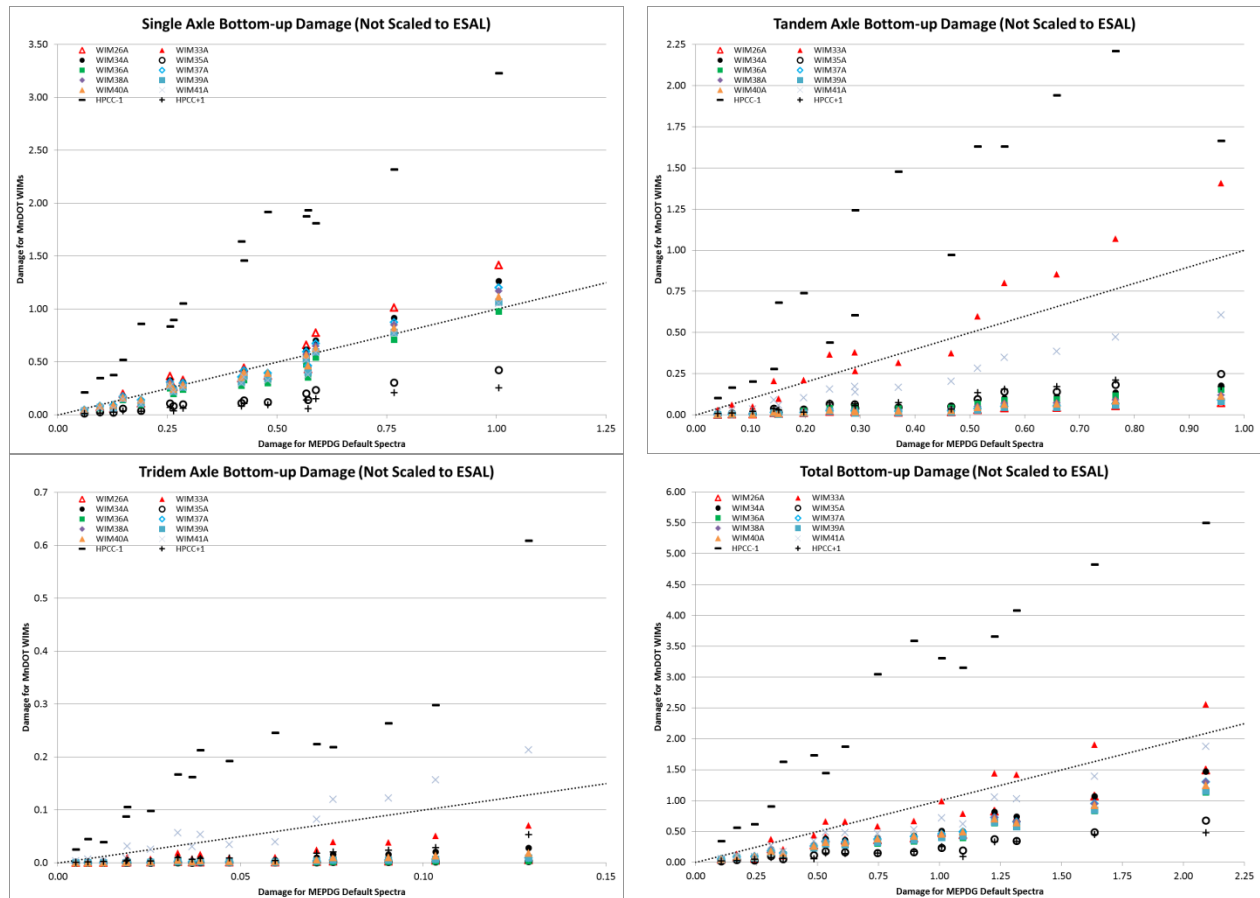
### A.2.2 Additional sensitivity analysis by axle types

A fuller factorial of projects was conducted to further assess the sensitivity of pavement performance to axle load spectra. The results of this factorial is presented in brief, as it is quite extensive yet does not add to the above analysis beyond supporting the results of the previous sections. The projects comprising this factorial were selected from thousands of MEPDG simulations for Minnesota rigid pavements. Many properties varied across these simulations, the most notable being:

- PCC thickness, which varied from 6 to 12 inches;
- PCC modulus of rupture, which had a value of 500, 590, 650, or 700 psi;
- Joint spacing, which had a value of either 12 or 15 ft;
- Outer lane width, which was either 12 or 13 ft; and

- Climate, which was one of three climates corresponding to MnDOT districts.

Projects from these simulations were selected at random to be used to verify the earlier analysis on performance sensitivity and seasonal effects. An example of this analysis is presented in Figure 12, which was used to examine influence on pavement damage by axle type (i.e. single, tandem, and tridem) of WIM-based load spectra versus MEPDG default load spectra.



**Figure 12. Example of sensitivity analysis for damage by axle types and WIM-based load spectra**

The initial motivation for the sensitivity analysis by axle types was to investigate not only the damage by axle but also the differences among the local axle load spectra and the MEPDG default. The example results of Figure 12 above suggested to the research team that to avoid unnecessary complexity in reviewing and discussing results, a safe assumption for the project work was that pavement damage could be assessed by total damage alone (rather than by axle type).

### A.3 Discussion

It can be seen in the figures above that only one Minnesota-specific load spectra – WIM 33 – consistently produced damage/cracking that exceeded that of an identical case that used the non-default load spectra. Most axle load spectra inputs based on Minnesota WIM data would, in general, result in a design that is potentially 0.5 inches thinner. However, while the use of WIM



data may lead to generally thinner pavement design pavement design for Minnesota, there are a few items to consider:

1. As thickness increases, faulting and consequently IRI will increase.
2. The MnDOT Traffic office estimates that WIM data observational error is anywhere between five and ten percent. This error should be considered alongside design concerns.

Thus, the influence of WIM-based axle load spectra for all but the heaviest case (WIM 33) is difficult to justify. However, it is clear that the design local pavements experiencing axle loads similar to those experienced at WIM 33 would greatly benefit from the use of non-default load spectra when using the MEPDG.

Furthermore, the seasonal analysis suggests that there is no appreciable advantage to seasonal load spectra for the design of Minnesota rigid pavements. The only outlier to this assessment is the performance of projects using seasonal data versus those using average data for WIM 41. The use of seasonal data produced nearly 40 percent less damage than the average. This result, while surprising, can be explained by the fact that the spike in unusually heavy axles comes during the late fall, early winter harvest. This is a time of year when the pavement structure is relatively stiff (with a high associated k-value, i.e. modulus of subgrade reaction), and thus the pavement is near its most structurally sound to experience those heavy axles from harvest hauls. The structure thus minimizes the damage done by those axles – had they been produced during spring thaw, of course, then the results would have been much different. While the use of seasonal axle load data in the design of local pavements experiencing axle loads similar to those experienced at WIM 41 would result in thinner pavements, this observation must be considered relative to the implication of underdesign for roadways that are susceptible to unusually high axle loads, such as those characterized by the harvest hauls of WIM 41.

Finally, the analysis for both damage sensitivity and seasonal effect was supported by the extended sensitivity analysis conducted on the influence of axle load spectra on damage by axle type.

### **A.3 Conclusions**

The research team determined that while MnDOT WIM data could be used to create load spectra files for the MEPDG, generally the use of non-default axle load spectra did not result in a considerably thinner design. Moreover, the standout WIM was found to be cause for a slightly thicker design given the performance of pavement projects using its associated load spectra versus the performance of projects using the MEPDG defaults (or other Minnesota WIM-based files). Furthermore, the research team found that the use of seasonal traffic files did not significantly influence predicted damage, and where seasonal loads were particularly higher than average (during late fall/early winter harvests), these loads occurred in months where the pavement system was at its strongest and least likely to be damaged by higher traffic volumes and axle loads. In the end, the research team recommended to the TAP that the final design table use two load spectra files for Minnesota rigid pavements, where one set, designated as “Heavy,” which corresponded to an average of the two outlier WIM stations (33 and 41), and the other set, designated as “Average,” which corresponded to an average of all other WIM data. In addition, given the result of the seasonal effect investigation, it was recommended that these load spectra files be based on monthly averages to simplify traffic file development. The TAP adopted these recommendations.

## **Appendix B.**

### **MEPDG Database Summary**

The following pages of this Appendix document the comma-separated value (CSV) file that is the database of the 10,920 JPCP projects that is accessed by the design software. Each entry in the database has the format of Project identifier, Axle Load Spectra, Climate, Joint spacing, Lane Width, Outer lane width, Shoulder LTE, Thickness, Flexural Strength, Bottom-up damage, Top-down damage. Furthermore, each database entry corresponds to a complete MEPDG project file.

These tables are presented for completeness and are not intended to be used directly or reproduced. To access the database or the project files, the reader is encouraged to contact MnDOT to obtain the full CSV database file or the corresponding MEPDG project files.

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C2L2H05F3J1E1	,MNAV,G	GR	12	21	13,10	8,590	0,139	0,010
C2L2H05F3J1E2	,MNAV,G	GR	12	21	13,30	8,590	0,079	0,014
C2L2H05F3J2E1	,MNAV,G	GR	15	21	13,10	8,590	0,069	0,010
C2L2H05F3J2E2	,MNAV,G	GR	15	21	13,30	8,590	0,069	0,010
C2L2H05F4J1E1	,MNAV,G	GR	12	21	13,10	8,715	0,022	0,002
C2L2H05F4J1E2	,MNAV,G	GR	12	21	13,30	8,715	0,002	0,002
C2L2H05F4J2E1	,MNAV,G	GR	15	21	13,10	8,715	0,017	0,002
C2L2H05F4J2E2	,MNAV,G	GR	15	21	13,30	8,715	0,017	0,002
C2L2H05F5J1E1	,MNAV,G	GR	12	21	13,10	8,840	0,004	0,000
C2L2H05F5J1E2	,MNAV,G	GR	12	21	13,30	8,840	0,004	0,000
C2L2H05F5J2E1	,MNAV,G	GR	15	21	13,10	8,840	0,003	0,000
C2L2H05F5J2E2	,MNAV,G	GR	15	21	13,30	8,840	0,003	0,000
C2L2H06F1J1E1	,MNAV,G	GR	12	21	13,10	8,5	0,340	0,504
C2L2H06F1J1E2	,MNAV,G	GR	12	21	13,30	8,5	0,340	0,504
C2L2H06F1J2E1	,MNAV,G	GR	15	21	13,10	8,5	0,340	0,679
C2L2H06F1J2E2	,MNAV,G	GR	15	21	13,30	8,5	0,340	1,165
C2L2H06F2J1E1	,MNAV,G	GR	12	21	13,10	8,5	0,465	0,040
C2L2H06F2J1E2	,MNAV,G	GR	12	21	13,30	8,5	0,465	0,040
C2L2H06F2J2E1	,MNAV,G	GR	15	21	13,10	8,5	0,465	0,219
C2L2H06F2J2E2	,MNAV,G	GR	15	21	13,30	8,5	0,465	0,123
C2L2H06F3J1E1	,MNAV,G	GR	12	21	13,10	8,5	0,590	0,004
C2L2H06F3J1E2	,MNAV,G	GR	12	21	13,30	8,5	0,590	0,004
C2L2H06F3J2E1	,MNAV,G	GR	15	21	13,10	8,5	0,590	0,030
C2L2H06F3J2E2	,MNAV,G	GR	15	21	13,30	8,5	0,590	0,030
C2L2H06F4J1E1	,MNAV,G	GR	12	21	13,10	8,5	0,715	0,006
C2L2H06F4J1E2	,MNAV,G	GR	12	21	13,30	8,5	0,715	0,006
C2L2H06F4J2E1	,MNAV,G	GR	15	21	13,10	8,5	0,715	0,007
C2L2H06F4J2E2	,MNAV,G	GR	15	21	13,30	8,5	0,715	0,007
C2L2H06F5J1E1	,MNAV,G	GR	12	21	13,10	8,5	0,840	0,001
C2L2H06F5J1E2	,MNAV,G	GR	12	21	13,30	8,5	0,840	0,001
C2L2H06F5J2E1	,MNAV,G	GR	15	21	13,10	8,5	0,840	0,011
C2L2H06F5J2E2	,MNAV,G	GR	15	21	13,30	8,5	0,840	0,011
C2L2H07F1J1E1	,MNAV,G	GR	12	21	13,10	9	0,340	0,236
C2L2H07F1J1E2	,MNAV,G	GR	12	21	13,30	9	0,340	0,286
C2L2H07F1J2E1	,MNAV,G	GR	15	21	13,10	9	0,340	0,995
C2L2H07F1J2E2	,MNAV,G	GR	15	21	13,30	9	0,340	0,995
C2L2H07F2J1E1	,MNAV,G	GR	12	21	13,10	9	0,465	0,015
C2L2H07F2J1E2	,MNAV,G	GR	12	21	13,30	9	0,465	0,015
C2L2H07F2J2E1	,MNAV,G	GR	15	21	13,10	9	0,465	0,108
C2L2H07F2J2E2	,MNAV,G	GR	15	21	13,30	9	0,465	0,108
C2L2H07F3J1E1	,MNAV,G	GR	12	21	13,10	9	0,590	0,016
C2L2H07F3J1E2	,MNAV,G	GR	12	21	13,30	9	0,590	0,016
C2L2H07F3J2E1	,MNAV,G	GR	15	21	13,10	9	0,590	0,014
C2L2H07F3J2E2	,MNAV,G	GR	15	21	13,30	9	0,590	0,014
C2L2H07F4J1E1	,MNAV,G	GR	12	21	13,10	9	0,715	0,002
C2L2H07F4J1E2	,MNAV,G	GR	12	21	13,30	9	0,715	0,002
C2L2H07F4J2E1	,MNAV,G	GR	15	21	13,10	9	0,715	0,002
C2L2H07F								

GFRF	12.1	5.3	13.10	10.5	3,400.01184	0.0093	C3LTH
GFRF	12.1	5.3	13.40	10.5	3,400.01184	0.0093	C3LTH
GFRF	15.1	5.3	13.10	10.5	3,400.01324	0.0599	C3LTH
GFRF	15.1	5.3	13.40	10.5	3,400.01324	0.0599	C3LTH
GFRF	12.1	5.3	13.10	10.5	4,650.0009	0.0008	C3LTH
GFRF	12.1	5.3	13.40	10.5	4,650.0009	0.0008	C3LTH
GFRF	15.1	5.3	13.10	10.5	4,650.0080	0.0084	C3LTH
GFRF	15.1	5.3	13.40	10.5	4,650.0080	0.0084	C3LTH
GFRF	12.1	5.3	13.10	10.5	5,590.0001	0.0001	C3LTH
GFRF	12.1	5.3	13.40	10.5	5,590.0001	0.0001	C3LTH
GFRF	15.1	5.3	13.10	10.5	5,590.0006	0.0013	C3LTH
GFRF	15.1	5.3	13.40	10.5	5,590.0006	0.0013	C3LTH
GFRF	12.1	5.3	13.10	10.5	7,150.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	10.5	7,150.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	10.5	7,150.0001	0.0002	C3LTH
GFRF	15.1	5.3	13.40	10.5	7,150.0001	0.0002	C3LTH
GFRF	12.1	5.3	13.10	10.5	8,840.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	10.5	8,840.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	10.5	8,840.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.40	10.5	8,840.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.10	11.340	0.0071	0.0064	C3LTH
GFRF	12.1	5.3	13.40	11.340	0.0071	0.0064	C3LTH
GFRF	15.1	5.3	13.10	11.340	0.0563	0.0460	C3LTH
GFRF	15.1	5.3	13.40	11.340	0.0563	0.0460	C3LTH
GFRF	12.1	5.3	13.10	11.465	0.0003	0.0005	C3LTH
GFRF	12.1	5.3	13.40	11.465	0.0003	0.0005	C3LTH
GFRF	15.1	5.3	13.10	11.465	0.0028	0.0059	C3LTH
GFRF	15.1	5.3	13.40	11.465	0.0028	0.0059	C3LTH
GFRF	12.1	5.3	13.10	11.590	0.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	11.590	0.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	11.590	0.0002	0.0009	C3LTH
GFRF	15.1	5.3	13.40	11.590	0.0002	0.0009	C3LTH
GFRF	12.1	5.3	13.10	11.715	0.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	11.715	0.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	11.715	0.0000	0.0001	C3LTH
GFRF	15.1	5.3	13.40	11.715	0.0000	0.0001	C3LTH
GFRF	12.1	5.3	13.10	11.840	0.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	11.840	0.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	11.840	0.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.40	11.840	0.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.10	11.540	0.0031	0.0041	C3LTH
GFRF	12.1	5.3	13.40	11.540	0.0031	0.0041	C3LTH
GFRF	15.1	5.3	13.10	11.540	0.0262	0.0328	C3LTH
GFRF	15.1	5.3	13.40	11.540	0.0261	0.0328	C3LTH
GFRF	12.1	5.3	13.10	11.465	0.0001	0.0003	C3LTH
GFRF	12.1	5.3	13.40	11.465	0.0001	0.0003	C3LTH
GFRF	15.1	5.3	13.10	11.465	0.0011	0.0038	C3LTH
GFRF	15.1	5.3	13.40	11.465	0.0011	0.0038	C3LTH
GFRF	12.1	5.3	13.10	11.590	0.0000	0.0000	C3LTH
GFRF	12.1	5.3	13.40	11.590	0.0000	0.0000	C3LTH
GFRF	15.1	5.3	13.10	11.590	0.0001	0.0005	C3LTH
GFRF	15.1	5					

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C4L2H09F1J2E2	MANVAG	LA15	21	13	10	3,40	0,213	0,0772
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C4L2H09F2J1E2	MANVAG	LA12	21	13	10	3,40	0,465	0,0022
C4L2H09F2J2E1	MANVAG	LA15	21	13	10	3,40	0,465	0,0178
C4L2H09F2J2E2	MANVAG	LA15	21	13	10	3,40	0,465	0,0178
C4L2H09F3J1E1	MANVAG	LA12	21	13	10	3,40	0,590	0,0002
C4L2H09F3J1E2	MANVAG	LA12	21	13	10	3,40	0,590	0,0002
C4L2H09F3J2E1	MANVAG	LA15	21	13	10	3,40	0,590	0,0017
C4L2H09F3J2E2	MANVAG	LA15	21	13	10	3,40	0,590	0,0017
C4L2H09F4J1E1	MANVAG	LA12	21	13	10	3,40	0,715	0,0000
C4L2H09F4J1E2	MANVAG	LA12	21	13	10	3,40	0,715	0,0000
C4L2H09F4J2E1	MANVAG	LA15	21	13	10	3,40	0,715	0,0000
C4L2H09F4J2E2	MANVAG	LA15	21	13	10	3,40	0,715	0,0000
C4L2H09F5J1E1	MANVAG	LA12	21	13	10	3,40	0,840	0,0000
C4L2H09F5J1E2	MANVAG	LA12	21	13	10	3,40	0,840	0,0000
C4L2H09F5J2E1	MANVAG	LA15	21	13	10	3,40	0,840	0,0000
C4L2H09F5J2E2	MANVAG	LA15	21	13	10	3,40	0,840	0,0000
C4L2H10F1J1E1	MANVAG	LA12	15	13	10	5,340	0,1188	0,0089
C4L2H10F1J1E2	MANVAG	LA12	15	13	10	5,340	0,1188	0,0089
C4L2H10F1J2E1	MANVAG	LA15	15	13	10	5,340	0,1246	0,0577
C4L2H10F1J2E2	MANVAG	LA15	15	13	10	5,340	0,1246	0,0577
C4L2H10F2J1E1	MANVAG	LA12	15	13	10	5,465	0,0099	0,0007
C4L2H10F2J1E2	MANVAG	LA12	15	13	10	5,465	0,0099	0,0007
C4L2H10F2J2E1	MANVAG	LA15	15	13	10	5,465	0,0076	0,0080
C4L2H10F2J2E2	MANVAG	LA15	15	13	10	5,465	0,0076	0,0080
C4L2H10F3J1E1	MANVAG	LA12	15	13	10	5,590	0,0001	0,0001
C4L2H10F3J1E2	MANVAG	LA12	15	13	10	5,590	0,0001	0,0001
C4L2H10F3J2E1	MANVAG	LA15	15	13	10	5,590	0,0006	0,0012
C4L2H10F3J2E2	MANVAG	LA15	15	13	10	5,590	0,0006	0,0012
C4L2H10F4J1E1	MANVAG	LA12	15	13	10	5,715	0,0000	0,0000
C4L2H10F4J1E2	MANVAG	LA12	15	13	10	5,715	0,0000	0,0000
C4L2H10F4J2E1	MANVAG	LA15	15	13	10	5,715	0,0001	0,0002
C4L2H10F4J2E2	MANVAG	LA15	15	13	10	5,715	0,0001	0,0002
C4L2H10F5J1E1	MANVAG	LA12	15	13	10	5,840	0,0000	0,0000
C4L2H10F5J1E2	MANVAG	LA12	15	13	10	5,840		

H04F511E1	MINAVG	MS	12	12	10	7.5	8.840	0.0114	0.0001	
H04F511E2	MINAVG	MS	12	12	12	40	7.840	0.0042	0.0001	
H04F512E1	MINAVG	MS	15	15	12	10	8.840	0.0560	0.0017	
H04F52E2	MINAVG	MS	15	15	12	40	7.5	8.840	0.0243	0.0007
H05F11E1	MINAVG	MS	12	12	25	12	10	8.340	5.6390	0.0847
H05F11E2	MINAVG	MS	15	15	25	12	40	8.340	2.8274	0.0423
H05F12E2	MINAVG	MS	15	15	25	12	10	8.340	10.6584	0.2197
H05F1J2E1	MINAVG	MS	15	15	25	12	40	8.340	5.8650	0.1191
H05F2J1E1	MINAVG	MS	12	12	25	12	10	8.465	0.6446	0.0139
H05F2J1E2	MINAVG	MS	12	12	25	12	40	8.465	0.2898	0.0064
H05F2J2E1	MINAVG	MS	15	15	25	12	10	8.465	1.7733	0.0606
H05F2J2E2	MINAVG	MS	15	15	25	12	40	8.465	0.9043	0.0303
H05F3J1E1	MINAVG	MS	12	12	25	12	10	8.590	0.0959	0.0023
H05F3J1E2	MINAVG	MS	12	12	25	12	40	8.590	0.0393	0.0010
H05F3J2E1	MINAVG	MS	15	15	25	12	10	8.590	0.3689	0.0156
H05F3J2E2	MINAVG	MS	15	15	25	12	40	8.590	0.1726	0.0072
H05F4J1E1	MINAVG	MS	12	12	25	12	10	8.715	0.0174	0.0004
H05F4J1E2	MINAVG	MS	12	12	25	12	40	8.715	0.0066	0.0002
H05F4J2E1	MINAVG	MS	15	15	25	12	10	8.715	0.0861	0.0040
H05F4J2E2	MINAVG	MS	15	15	25	12	40	8.715	0.0379	0.0017
H05F5J1E1	MINAVG	MS	12	12	25	12	10	8.840	0.0038	0.0001
H05F5J1E2	MINAVG	MS	12	12	25	12	40	8.840	0.0114	0.0000
H05F5J2E1	MINAVG	MS	15	15	25	12	10	8.840	0.0226	0.0010
H05F5J2E2	MINAVG	MS	15	15	25	12	40	8.840	0.0097	0.0004
H06F11E1	MINAVG	MS	12	12	25	12	10	8.540	3.2647	0.0682
H06F1J1E1	MINAVG	MS	12	12	25	12	40	8.540	2.511	0.0339
H06F1J2E1	MINAVG	MS	15	15	25	12	10	8.540	3.7723	0.2055
H06F1J2E2	MINAVG	MS	15	15	25	12	40	8.540	3.0663	0.1115
H06F2J1E1	MINAVG	MS	12	12	25	12	10	8.465	0.4505	0.0099
H06F2J1E2	MINAVG	MS	12	12	25	12	40	8.465	0.1064	0.0045
H06F2J2E1	MINAVG	MS	15	15	25	12	10	8.465	0.8238	0.0489
H06F2J2E2	MINAVG	MS	15	15	25	12	40	8.465	0.4015	0.0245
H06F3J1E1	MINAVG	MS	12	12	25	12	10	8.590	0.0317	0.0015
H06F3J1E2	MINAVG	MS	12	12	25	12	40	8.590	0.0126	0.0006
H06F3J2E1	MINAVG	MS	15	15	25	12	10	8.590	0.1467	0.0113
H06F3J2E2	MINAVG	MS	15	15	25	12	40	8.590	0.0644	0.0052
H06F4J1E1	MINAVG	MS	12	12	25	12	10	8.715	0.0053	0.0002
H06F4J1E2	MINAVG	MS	12	12	25	12	40	8.715	0.0019	0.0001
H06F4J2E1	MINAVG	MS	15	15	25	12	10	8.715	0.0303	0.0026
H06F4J2E2	MINAVG	MS	15	15	25	12	40	8.715	0.0126	0.0011
H06F5J1E1	MINAVG	MS	12	12	25	12	10	8.840	0.0011	0.0000
H06F5J1E2	MINAVG	MS	12	12	25	12	40	8.840	0.0004	0.0000

C5L2H01F1J1E1 MNAVG MSP:12,11,13,0,6,340,10,1217,0,0313  
C5L2H01F1J1E2 MNAVG MSP:15,11,13,40,6,340,10,1217,0,0313  
C5L2H01F1J2E1 MNAVG MSP:15,11,13,0,6,340,12,0008,0,0460  
C5L2H01F1J2E2 MNAVG MSP:15,11,13,40,6,340,12,0008,0,0460  
C5L2H01F2J1E1 MNAVG MSP:12,11,13,0,6,465,1,6682,0,0068  
C5L2H01F2J1E2 MNAVG MSP:15,11,13,40,6,465,1,6682,0,0068  
C5L2H01F2J2E1 MNAVG MSP:15,11,13,0,6,465,2,3433,0,0178  
C5L2H01F2J2E2 MNAVG MSP:15,11,13,40,6,465,2,3433,0,0178  
C5L2H01F3J1E1 MNAVG MSP:12,11,13,0,6,590,0,3669,0,0019  
C5L2H01F3J1E2 MNAVG MSP:15,11,13,40,6,590,0,3669,0,0019  
C5L2H01F3J2E1 MNAVG MSP:15,11,13,0,6,590,0,6377,0,0073  
C5L2H01F3J2E2 MNAVG MSP:15,11,13,40,6,590,0,6377,0,0073  
C5L2H01F4J1E1 MNAVG MSP:12,11,13,0,6,715,0,0936,0,0005  
C5L2H01F4J1E2 MNAVG MSP:15,11,13,40,6,715,0,0936,0,0005  
C5L2H01F4J2E1 MNAVG MSP:15,11,13,0,6,715,0,2044,0,002  
C5L2H01F4J2E2 MNAVG MSP:15,11,13,40,6,715,0,2044,0,002  
C5L2H01F5J1E1 MNAVG MSP:12,11,13,0,6,840,0,266,0,000  
C5L2H01F5J1E2 MNAVG MSP:15,11,13,40,6,840,0,266,0,000  
C5L2H01F5J2E1 MNAVG MSP:15,11,13,0,6,840,0,0725,0,001  
C5L2H01F5J2E2 MNAVG MSP:15,11,13,40,6,840,0,0725,0,001  
C5L2H02F1J1E1 MNAVG MSP:12,11,13,0,6,5,340,0,554,0,0239  
C5L2H02F1J1E2 MNAVG MSP:12,11,13,40,6,5,340,0,554,0,0239  
C5L2H02F1J2E1 MNAVG MSP:15,11,13,0,6,5,340,0,7590,0,047  
C5L2H02F1J2E2 MNAVG MSP:15,11,13,40,6,5,340,6,7327,0,0747  
C5L2H02F2J1E1 MNAVG MSP:12,11,13,0,6,5,465,0,7834,0,005  
C5L2H02F2J1E2 MNAVG MSP:12,11,13,40,6,5,465,0,7766,0,005  
C5L2H02F2J2E1 MNAVG MSP:15,11,13,0,6,5,465,1,3329,0,018  
C5L2H02F2J2E2 MNAVG MSP:15,11,13,40,6,5,465,1,3329,0,018  
C5L2H02F3J1E1 MNAVG MSP:12,11,13,0,6,5,590,0,1500,0,001  
C5L2H02F3J1E2 MNAVG MSP:12,11,13,40,6,5,590,0,1500,0,001  
C5L2H02F3J2E1 MNAVG MSP:15,11,13,0,6,5,590,0,3411,0,006  
C5L2H02F3J2E2 MNAVG MSP:15,11,13,40,6,5,590,0,3411,0,006  
C5L2H02F4J1E1 MNAVG MSP:12,11,13,0,6,715,0,0338,0,000  
C5L2H02F4J1E2 MNAVG MSP:12,11,13,40,6,715,0,0338,0,000  
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C5L2H02F4J2E2 MNAVG MSP:15,11,13,40,6,715,0,1018,0,002  
C5L2H02F5J1E1 MNAVG MSP:12,11,13,0,6,840,0,0085,0,000  
C5L2H02F5J1E2 MNAVG MSP:15,11,13,40,6,840,0,0085,0,000  
C5L2H02F5J2E1 MNAVG MSP:15,11,13,0,6,840,0,0327,0,000  
C5L2H02F5J2E2 MNAVG MSP:15,11,13,40,6,840,0,0327,0,000  
C5L2H03F1J1E1 MNAVG MSP:12,11,13,0,7,340,2,6466,0,0220  
C5L2H03F1J1E2 MNAVG MSP:12,11,13,40,7,340,2,6466,0,0220  
C5L2H03F1J2E1 MNAVG MSP:15,11,13,0,7,340,0,4747,0,0542  
C5L2H03F1J2E2 MNAVG MSP:15,11,13,40,7,340,0,4747,0,0542  
C5L2H03F2J1E1 MNAVG MSP:12,11,13,0,7,465,0,3590,0,004  
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C5L2H03F2J2E1 MNAVG MSP:15,11,13,0,7,465,0,7717,0,0179  
C5L2H03F2J2E2 MNAVG MSP:15,11,13,40,7,465,0,7717,0,0179  
C5L2H03F3J1E1 MNAVG MSP:12,11,13,0,7,590,0,0604,0,0009  
C5L2H03F3J1E2 MNAVG MSP:12,11,13,40,7,590,0,0604,0,0009  
C5L2H03F3J2E1 MNAVG MSP:15,11,13,0,7,590,0,1821,0,0054  
C5L2H03F3J2E2 MNAVG MSP:15,11,13,40,7,590,0,1821,0,0054  
C5L2H03F4J1E1 MNAVG MSP:12,11,13,0,7,715,0,0126,0,0002  
C5L2H03F4J1E2 MNAVG MSP:12,11,13,40,7,715,0,0126,0,0002  
C5L2H03F4J2E1 MNAVG MSP:15,11,13,0,7,715,0,0494,0,0015  
C5L2H03F4J2E2 MNAVG MSP:15,11,13,40,7,715,0,0494,0,0015  
C5L2H03F5J1E1 MNAVG MSP:12,11,13,0,7,840,0,0030,0,0000  
C5L2H03F5J1E2 MNAVG MSP:12,11,13,40,7,840,0,0030,0,0000  
C5L2H03F5J2E1 MNAVG MSP:15,11,13,0,7,840,0,0147,0,0004  
C5L2H03F5J2E2 MNAVG MSP:15,11,13,40,7,840,0,0147,0,0004  
C5L2H04F1J1E1 MNAVG MSP:12,11,13,0,7,5,340,1,2859,0,020  
C5L2H04F1J1E2 MNAVG MSP:12,11,13,40,7,5,340,2,1289,0,020  
C5L2H04F1J2E1 MNAVG MSP:15,11,13,0,7,5,340,2,3710,0,059  
C5L2H04F1J2E2 MNAVG MSP:15,11,13,40,7,5,340,2,3710,0,059  
C5L2H04F2J1E1 MNAVG MSP:12,11,13,0,7,5,465,0,1485,0,0038  
C5L2H04F2J1E2 MNAVG MSP:12,11,13,40,7,5,465,0,1485,0,0038  
C5L2H04F2J2E1 MNAVG MSP:15,11,13,0,7,5,465,0,3987,0,017  
C5L2H04F2J2E2 MNAVG MSP:15,11,13,40,7,5,465,0,3987,0,017  
C5L2H04F3J1E1 MNAVG MSP:12,11,13,0,7,5,590,0,0220,0,0006  
C5L2H04F3J1E2 MNAVG MSP:12,11,13,40,7,5,590,0,0220,0,0006  
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C5L2H04F3J2E2 MNAVG MSP:15,11,13,40,7,5,590,0,0841,0,004  
C5L2H04F4J1E1 MNAVG MSP:12,11,13,0,7,5,715,0,0040,0,000  
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C5L2H04F4J2E2 MNAVG MSP:15,11,13,40,7,5,715,0,0205,0,001  
C5L2H04F5J1E1 MNAVG MSP:12,11,13,0,7,5,840,0,0009,0,000  
C5L2H04F5J1E2 MNAVG MSP:12,11,13,40,7,5,840,0,0009,0,000  
C5L2H04F5J2E1 MNAVG MSP:15,11,13,0,7,5,840,0,0055,0,000  
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1.2H10F2J1E1	1NNVAG	MSP	12,1	5,13	10,10	5,465	0,0005	0,0002
1.2H10F2J2E1	1NNVAG	MSP	12,1	5,13	40,10	5,465	0,0005	0,0002
1.2H10F2J2E1	1NNVAG	MSP	15,1	5,13	10,10	5,465	0,0036	0,0028
1.2H10F2J2E2	1NNVAG	MSP	15,1	5,13	40,10	5,465	0,0036	0,0028
1.2H10F3J1E1	1NNVAG	MSP	12,1	5,13	10,10	5,590	0,0000	0,0000
1.2H10F3J1E2	1NNVAG	MSP	12,1	5,13	40,10	5,590	0,0000	0,0000
1.2H10F3J2E1	1NNVAG	MSP	15,1	5,13	10,10	5,590	0,0003	0,0004
1.2H10F3J2E2	1NNVAG	MSP	15,1	5,13	40,10	5,590	0,0003	0,0004
1.2H10F4J1E1	1NNVAG	MSP	12,1	5,13	10,10	5,715	0,0000	0,0000
1.2H10F4J1E2	1NNVAG	MSP	12,1	5,13	40,10	5,715	0,0000	0,0001
1.2H10F4J2E2	1NNVAG	MSP	15,1	5,13	40,10	5,715	0,0000	0,0001
1.2H10F5J1E1	1NNVAG	MSP	12,1	5,13	10,10	5,840	0,0000	0,0000
1.2H10F5J1E2	1NNVAG	MSP	12,1	5,13	40,10	5,840	0,0000	0,0000
1.2H10F5J2E1	1NNVAG	MSP	15,1	5,13	10,10	5,840	0,0000	0,0000
1.2H10F5J2E2	1NNVAG	MSP	15,1	5,13	40,10	5,840	0,0000	0,0000
1.2H11F1J1E1	1NNVAG	MSP	12,1	5,13	10,11	3,400	0,0042	0,0022
1.2H11F1J1E2	1NNVAG	MSP	12,1	5,13	40,11	3,400	0,0042	0,0022
1.2H11F1J2E1	1NNVAG	MSP	15,1	5,13	10,11	3,400	0,0236	0,0172
1.2H11F1J2E2	1NNVAG	MSP	15,1	5,13	40,11	3,400	0,0236	0,0172
1.2H11F2J1E1	1NNVAG	MSP	12,1	5,13	10,11	4,665	0,0002	0,0001
1.2H11F2J1E2	1NNVAG	MSP	12,1	5,13	40,11	4,665	0,0002	0,0001
1.2H11F2J2E1	1NNVAG	MSP	15,1	5,13	10,11	4,665	0,0012	0,0019
1.2H11F2J2E2	1NNVAG	MSP	15,1	5,13	40,11	4,665	0,0012	0,0019
1.2H11F3J1E1	1NNVAG	MSP	12,1	5,13	10,11	5,590	0,0000	0,0000
1.2H11F3J1E2	1NNVAG	MSP	12,1	5,13	40,11	5,590	0,0000	0,0000
1.2H11F3J2E1	1NNVAG	MSP	15,1	5,13	10,11	5,590	0,0001	0,0002
1.2H11F3J2E2	1NNVAG	MSP	15,1	5,13	40,11	5,590	0,0001	0,0002
1.2H11F4J1E1	1NNVAG	MSP	12,1	5,13	10,11	7,715	0,0000	0,0000
1.2H11F4J1E2	1NNVAG	MSP	12,1	5,13	40,11	7,715	0,0000	0,0000
1.2H11F4J2E1	1NNVAG	MSP	15,1	5,13	10,11	7,715	0,0000	0,0000
1.2H11F4J2E2	1NNVAG	MSP	15,1	5,13	40,11	7,715	0,0000	0,0000
1.2H11F5J1E1	1NNVAG	MSP	12,1	5,13	10,11	8,840	0,0000	0,0000
1.2H11F5J1E2	1NNVAG	MSP	12,1	5,13	40,11	8,840	0,0000	0,0000
1.2H11F5J2E1	1NNVAG	MSP	15,1	5,13	10,11	8,840	0,0000	0,0000
1.2H11F5J2E2	1NNVAG	MSP	15,1	5,13	40,11	8,840	0,0000	0,0000
1.2H12F1J1E1	1NNVAG	MSP	12,1	5,13	10,11	5,340	0,0197	0,0014
1.2H12F1J1E2	1NNVAG	MSP	12,1	5,13	40,11	5,340	0,0198	0,0014
1.2H12F1J2E1	1NNVAG	MSP	15,1	5,13	10,11	5,340	0,1110	0,0122
1.2H12F1J2E2	1NNVAG	MSP	15,1	5,13	40,11	5,340	0,1110	0,0122
1.2H12F2J1E1	1NNVAG	MSP	12,1	5,13	10,11	5,465	0,0001	0,0001
1.2H12F2J1E2	1NNVAG	MSP	12,1	5,13	40,11	5,465	0,0001	0,0001
1.2H12F2J2E1	1NNVAG	MSP	15,1	5,13	10,11	5,465	0,0005	0,0012
1.2H12F2J2E2	1NNVAG	MSP	15,1	5,13	40,11			

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C2L2H04F2J2E2,MNHVY,GRF,15,1,12,10,7,5,465,6.2265,0.9568  
C2L2H04F3J1E1,MNHVY,GRF,12,1,12,10,7,5,590,0.6316,0.1159  
C2L2H04F3J1E2,MNHVY,GRF,15,1,12,10,7,5,590,0.2554,0.0550  
C2L2H04F3J2E1,MNHVY,GRF,15,1,12,10,7,5,590,2.8677,0.2829  
C2L2H04F3J2E2,MNHVY,GRF,15,1,12,10,7,5,590,1.1151,0.0229  
C2L2H04F4J1E1,MNHVY,GRF,12,1,12,10,7,5,715,0.1151,0.0215  
C2L2H04F4J1E2,MNHVY,GRF,12,1,12,10,7,5,715,0.0419,0.0171  
C2L2H04F4J2E1,MNHVY,GRF,15,1,12,10,7,5,715,0.7651,0.1764  
C2L2H04F4J2E2,MNHVY,GRF,15,1,12,10,7,5,715,0.3295,0.0853  
C2L2H04F5J1E1,MNHVY,GRF,12,1,12,10,7,5,840,0.0237,0.0057  
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C2L2H04F5J2E1,MNHVY,GRF,15,1,12,10,7,5,840,0.2157,0.0555  
C2L2H04F5J2E2,MNHVY,GRF,15,1,12,10,7,5,840,0.0843,0.0243  
C2L2H05F1J1E1,MNHVY,GRF,12,1,12,10,8,340,15.9859,2.0888  
C2L2H05F1J1E2,MNHVY,GRF,12,1,12,10,8,340,8.0184,1.1269  
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C2L2H05F2J2E2,MNHVY,GRF,15,1,12,10,8,465,3.4914,0.7925  
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C2L2H05F3J1E2,MNHVY,GRF,12,1,12,10,8,590,0.0900,0.0346  
C2L2H05F3J2E1,MNHVY,GRF,15,1,12,10,8,590,1.6625,0.4193  
C2L2H05F3J2E2,MNHVY,GRF,15,1,12,10,8,590,0.7462,0.2108  
C2L2H05F4J1E1,MNHVY,GRF,12,1,12,10,8,715,0.0383,0.0145  
C2L2H05F4J1E2,MNHVY,GRF,12,1,12,10,8,715,0.0129,0.0065  
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C2L2H06F4J2E1,MNHVY,GRF,15,1,12,10,8,5,715,0.1180,0.0819  
C2L2H06F4J2E2,MNHVY,GRF,15,1,12,10,8,5,715,0.0439,0.0391  
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C2L2H07F1J2E1,MNHVY,GRF,15,1,12,10,9,340,13.7555,9.9438  
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C2L2H07F4J1E2,MNHVY,GRF,12,1,12,10,9,715,0.0101,0.0020  
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C2L2H07F5J2E2,MNHVY,GRF,15,1,12,10,9,840,0.0026,0.0057  
C2L2H08F1J1E1,MNHVY,GRF,12,1,12,10,9,340,1.5755,0.9696  
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C2L2H08F2J1E1,MNHVY,GRF,12,1,12,10,9,465,0.0968,0.1206  
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C2L2H08F3J1E1,MNHVY,GRF,12,1,12,10,9,590,0.0084,0.0150  
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C2L2H08F3J2E2,MNHVY,GRF,15,1,12,10,9,590,0.0361,0.0761  
C2L2H08F4J1E1,MNHVY,GRF,



C2L2H02F51E1	MNHVY	GRF	12	13	10.6	5.840	0.0210	0.0028
C2L2H02F51E2	MNHVY	GRF	12	13	10.6	5.840	0.0210	0.0028
C2L2H02F52E1	MNHVY	GRF	15	13	10.6	5.840	0.1268	0.0233
C2L2H02F52E2	MNHVY	GRF	15	13	10.6	5.840	0.1268	0.0233
C2L2H03F11E1	MNHVY	GRF	12	13	10.7	340.8	1536	0.6477
C2L2H03F11E2	MNHVY	GRF	12	13	10.7	340.8	1536	0.6477
C2L2H03F12E1	MNHVY	GRF	15	13	10.7	340	14.8825	1.4879
C2L2H03F12E2	MNHVY	GRF	15	13	10.7	340	14.8825	1.4879
C2L2H03F21E1	MNHVY	GRF	12	13	10.7	465	1.0719	0.1399
C2L2H03F21E2	MNHVY	GRF	12	13	10.7	465	1.0719	0.1399
C2L2H03F22E1	MNHVY	GRF	15	13	10.7	465	0.1618	0.5061
C2L2H03F22E2	MNHVY	GRF	15	13	10.7	465	0.1618	0.5061
C2L2H03F31E1	MNHVY	GRF	12	13	10.7	590.0	1676	0.0301
C2L2H03F31E2	MNHVY	GRF	12	13	10.7	590.0	1676	0.0301
C2L2H03F32E1	MNHVY	GRF	15	13	10.7	590.0	0.7303	0.1603
C2L2H03F32E2	MNHVY	GRF	15	13	10.7	590.0	0.7303	0.1603
C2L2H03F41E1	MNHVY	GRF	12	13	10.7	715.0	0.0308	0.006
C2L2H03F41E2	MNHVY	GRF	12	13	10.7	715.0	0.0308	0.006
C2L2H03F42E1	MNHVY	GRF	15	13	10.7	715.0	1980	0.049
C2L2H03F42E2	MNHVY	GRF	15	13	10.7	715.0	1980	0.049
C2L2H03F51E1	MNHVY	GRF	12	13	10.7	840.0	0.064	0.0015
C2L2H03F51E2	MNHVY	GRF	12	13	10.7	840.0	0.064	0.0015
C2L2H03F52E1	MNHVY	GRF	15	13	10.7	840.0	0.0561	0.0150
C2L2H03F52E2	MNHVY	GRF	15	13	10.7	840.0	0.0561	0.0150
C2L2H04F11E1	MNHVY	GRF	12	13	10.7	5.340	3.8600	0.594
C2L2H04F11E2	MNHVY	GRF	12	13	10.7	5.340	3.8600	0.594
C2L2H04F12E1	MNHVY	GRF	15	13	10.7	5.340	8.7759	1.571
C2L2H04F12E2	MNHVY	GRF	15	13	10.7	5.340	8.7759	1.571
C2L2H04F21E1	MNHVY	GRF	12	13	10.7	5.465	0.4126	0.1129
C2L2H04F21E2	MNHVY	GRF	12	13	10.7	5.465	0.4126	0.1129
C2L2H04F22E1	MNHVY	GRF	15	13	10.7	5.465	1.5614	0.4708
C2L2H04F22E2	MNHVY	GRF	15	13	10.7	5.465	1.5614	0.4708
C2L2H04F31E1	MNHVY	GRF	12	13	10.7	5.590	0.0542	0.0219
C2L2H04F31E2	MNHVY	GRF	12	13	10.7	5.590	0.0542	0.0219
C2L2H04F32E1	MNHVY	GRF	15	13	10.7	5.590	0.3291	0.1333
C2L2H04F32E2	MNHVY	GRF	15	13	10.7	5.590	0.3291	0.1333
C2L2H04F41E1	MNHVY	GRF	12	13	10.7	7.515	0.0085	0.004
C2L2H04F41E2	MNHVY	GRF	12	13	10.7	7.515	0.0085	0.004
C2L2H04F42E1	MNHVY	GRF	15	13	10.7	7.515	0.0759	0.0374
C2L2H04F42E2	MNHVY	GRF	15	13	10.7	7.515	0.0759	0.0374
C2L2H04F51E1	MNHVY	GRF	12	13	10.7	5.840	0.0015	0.0009
C2L2H04F51E2	MNHVY	GRF	12	13	10.7	5.840	0.0015	0.0009
C2L2H04F52E1	MNHVY	GRF	15	13	10.7	5.840	0.0185	0.0104
C2L2H04F52E2	MNHVY	GRF	15	13	10.7	5.840	0.0185	0.0104
C2L2H05F11E1	MNHVY	GRF	25	13	10.8	340	1.875	0.493
C2L2H05F11E2	MNHVY	GRF	25	13	10.8	340	1.8714	0.493

C2L2H07F3J1E1	MNNHY	GRF	12	125	13	109	590	0.0018	0.00
C2L2H07F3J2E1	MNNHY	GRF	12	125	13	409	590	0.0180	0.00
C2L2H07F3J1E1	MNNHY	GRF	15	125	13	109	590	0.0245	0.05
C2L2H07F3J2E1	MNNHY	GRF	15	125	13	409	590	0.0245	0.05
C2L2H07F4J1E1	MNNHY	GRF	12	125	13	109	715	0.0002	0.00
C2L2H07F4J2E1	MNNHY	GRF	12	125	13	409	715	0.0002	0.00
C2L2H07F4J1E1	MNNHY	GRF	15	125	13	109	715	0.0033	0.01
C2L2H07F4J2E1	MNNHY	GRF	15	125	13	409	715	0.0033	0.01
C2L2H07F5J1E1	MNNHY	GRF	12	125	13	109	840	0.0000	0.00
C2L2H07F5J2E1	MNNHY	GRF	12	125	13	409	840	0.0000	0.00
C2L2H07F5J1E1	MNNHY	GRF	15	125	13	109	840	0.0005	0.00
C2L2H07F5J2E1	MNNHY	GRF	15	125	13	409	840	0.0005	0.00
C2L2H08F1J1E1	MNNHY	GRF	12	125	13	109	930	0.0400	1.12
C2L2H08F1J2E1	MNNHY	GRF	12	125	13	409	930	0.1400	1.12
C2L2H08F1J1E1	MNNHY	GRF	15	125	13	109	930	0.3400	8.81
C2L2H08F1J2E1	MNNHY	GRF	15	125	13	409	930	0.3400	8.81
C2L2H08F2J1E1	MNNHY	GRF	12	125	13	109	935	0.465	0.068
C2L2H08F2J2E1	MNNHY	GRF	12	125	13	409	935	0.465	0.068
C2L2H08F2J1E1	MNNHY	GRF	15	125	13	109	935	0.465	0.068
C2L2H08F2J2E1	MNNHY	GRF	15	125	13	409	935	0.465	0.068
C2L2H08F3J1E1	MNNHY	GRF	12	125	13	109	935	0.590	0.005
C2L2H08F3J2E1	MNNHY	GRF	12	125	13	409	935	0.590	0.005
C2L2H08F3J1E1	MNNHY	GRF	15	125	13	109	935	0.590	0.005
C2L2H08F3J2E1	MNNHY	GRF	15	125	13	409	935	0.590	0.005
C2L2H08F4J1E1	MNNHY	GRF	12	125	13	109	935	0.715	0.001
C2L2H08F4J2E1	MNNHY	GRF	12	125	13	409	935	0.715	0.001
C2L2H08F4J1E1	MNNHY	GRF	15	125	13	109	935	0.715	0.009
C2L2H08F4J2E1	MNNHY	GRF	15	125	13	409	935	0.715	0.009
C2L2H08F5J1E1	MNNHY	GRF	12	125	13	109	935	0.840	0.000
C2L2H08F5J2E1	MNNHY	GRF	12	125	13	409	935	0.840	0.000
C2L2H08F5J1E1	MNNHY	GRF	15	125	13	109	935	0.840	0.001
C2L2H08F5J2E1	MNNHY	GRF	15	125	13	409	935	0.840	0.001
C2L2H09F1J1E1	MNNHY	GRF	12	125	13	109	10340	0.0598	0.17
C2L2H09F1J2E1	MNNHY	GRF	12	125	13	409	10340	0.0597	0.17
C2L2H09F1J2E1	MNNHY	GRF	15	125	13	109	10340	0.4721	0.88
C2L2H09F1J2E1	MNNHY	GRF	15	125	13	409	10340	0.4730	0.88
C2L2H09F2J1E1	MNNHY	GRF	12	125	13	109	10465	0.0025	0.00
C2L2H09F2J2E1	MNNHY	GRF	12	125	13	409	10465	0.0025	0.00
C2L2H09F2J2E1	MNNHY	GRF	15	125	13	109	10465	0.0330	0.11
C2L2H09F2J2E1	MNNHY	GRF	15	125	13	409	10465	0.0331	0.11
C2L2H09F3J1E1	MNNHY	GRF	12	125	13	109	10590	0.0002	0.00
C2L2H09F3J2E1	MNNHY	GRF	12	125	13	409	10590	0.0002	0.00
C2L2H09F3J2E1	MNNHY	GRF	15	125	13	109	10590	0.0027	0.00
C2L2H09F3J2E1	MNNHY	GRF	15	125	13	409	10590		

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C3L2H12F12E1, MNHVF, GRF, 15.15, 13.10, 11.5, 340.0, 00048.0  
C3L2H12F12E2, MNHVF, GRF, 15.15, 13.40, 11.5, 340.0, 00448.0  
C3L2H12F2J1E1, MNHVF, GRF, 12.15, 13.10, 11.5, 465.0, 00007.0  
C3L2H12F2J1E2, MNHVF, GRF, 12.15, 13.40, 11.5, 465.0, 00007.0  
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C3L2H12F4J1E1, MNHVF, GRF, 12.15, 13.10, 11.5, 715.0, 00000.0  
C3L2H12F4J1E2, MNHVF, GRF, 12.15, 13.40, 11.5, 715.0, 00000.0  
C3L2H12F4J2E1, MNHVF, GRF, 15.15, 13.10, 11.5, 715.0, 00000.0  
C3L2H12F4J2E2, MNHVF, GRF, 15.15, 13.40, 11.5, 715.0, 00000.0  
C3L2H12F5J1E1, MNHVF, GRF, 12.15, 13.10, 11.5, 840.0, 00000.0  
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C3L2H13F1J2E2, MNHVF, GRF, 15.15, 13.40, 12.340, 0.0166.0  
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C3L1H01F4J1E2, MNHVF, BRN, 12.1, 12.40, 6.715, 1.5200.0  
C3L1H01F4J2E1, MNHVF, BRN, 15.1, 12.10, 6.715, 7.7540.4  
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C3L1H02F1J1E2, MNHVF, BRN, 12.1, 12.40, 6.65, 340.79.2844.0  
C3L1H02F1J2E1, MNHVF, BRN, 15.1, 12.10, 6.65, 340.185.4824.0  
C3L1H02F1J2E2, MNHVF, BRN, 15.1, 12.40, 6.65, 340.114.1802.0  
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C3L1H02F3J2E2, MNHVF, BRN, 15.1, 12.40, 6.65, 590.6.8783.0  
C3L1H02F4J1E1, MNHVF, BRN, 12.1, 12.10, 6.65, 715.1.3099.0  
C3L1H02F4J1E2, MNHVF, BRN, 12.1, 12.40, 6.65, 715.0.5700.0  
C3L1H02F4J2E1, MNHVF, BRN, 1

C3L1H034F1E1	MNHVY	BRN	12	1,12	0,77	715	0,4913	0,5033
C3L1H034F1E2	MNHVY	BRN	12	1,12	0,40	777	0,2010	0,2543
C3L1H034F4E1	MNHVY	BRN	15	1,12	0,77	715	2,3615	0,2833
C3L1H034F4E2	MNHVY	BRN	15	1,12	0,40	775	1,1150	1,1313
C3L1H035F1E1	MNHVY	BRN	12	1,12	0,77	840	0,2140	0,0137
C3L1H035F1E2	MNHVY	BRN	12	1,12	0,40	780	0,0500	0,0053
C3L1H035F2E1	MNHVY	BRN	15	1,12	0,77	840	0,8036	0,9890
C3L1H035F2E2	MNHVY	BRN	15	1,12	0,40	780	0,3560	0,0436
C3L1H04F1E1	MNHVY	BRN	12	1,12	0,75	340	36,9556	2,362
C3L1H04F1E2	MNHVY	BRN	12	1,12	0,40	735	30	78,26
C3L1H04F4E1	MNHVY	BRN	15	1,12	0,75	340	77	4520
C3L1H04F4E2	MNHVY	BRN	15	1,12	0,40	735	340	6079
C3L1H04F2E1	MNHVY	BRN	12	1,12	0,75	465	9,942	0,63
C3L1H04F2E2	MNHVY	BRN	12	1,12	0,40	765	4,2368	0,32
C3L1H04F4E2	MNHVY	BRN	15	1,12	0,75	465	14	7718
C3L1H04F2E2	MNHVY	BRN	15	1,12	0,40	765	4,65	7,8468
C3L1H04F3E1	MNHVY	BRN	12	1,12	0,75	590	0,8114	0,04
C3L1H04F3E2	MNHVY	BRN	12	1,12	0,40	755	0,334	0,07
C3L1H04F3E2	MNHVY	BRN	15	1,12	0,75	590	3,6891	0,63
C3L1H04F3E2	MNHVY	BRN	15	1,12	0,40	755	1,9824	0,31
C3L1H04F4E1	MNHVY	BRN	12	1,12	0,75	715	0,1536	0,03
C3L1H04F4E2	MNHVY	BRN	12	1,12	0,40	715	0,0574	0,001
C3L1H04F4E2	MNHVY	BRN	15	1,12	0,75	715	0,0203	0,009
C3L1H04F4E2	MNHVY	BRN	15	1,12	0,40	715	0,0523	0,029
C3L1H04F5E1	MNHVY	BRN	12	1,12	0,75	840	0,0331	0,000
C3L1H04F5E2	MNHVY	BRN	12	1,12	0,40	785	0,0112	0,000
C3L1H04F5E2	MNHVY	BRN	15	1,12	0,75	840	0,3056	0,06
C3L1H04F5E2	MNHVY	BRN	15	1,12	0,40	785	0,1232	0,022
C3L1H05F1E1	MNHVY	BRN	12	1,25	10	0,8	340	19,694
C3L1H05F1E2	MNHVY	BRN	12	1,25	10	0,8	340	9,9526
C3L1H05F1E2	MNHVY	BRN	15	1,25	10	0,8	340	46,5382
C3L1H05F1E2	MNHVY	BRN	15	1,25	10	0,8	340	26,3620
C3L1H05F2E1	MNHVY	BRN	12	1,25	10	0,8	465	2,2305
C3L1H05F2E2	MNHVY	BRN	12	1,25	10	0,8	465	9,735
C3L1H05F2E2	MNHVY	BRN	15	1,25	10	0,8	465	1,7908
C3L1H05F2E2	MNHVY	BRN	15	1,25	10	0,8	465	4,352
C3L1H05F3E1	MNHVY	BRN	12	1,25	10	0,8	590	0,3129
C3L1H05F3E2	MNHVY	BRN	12	1,25	10	0,8	590	0,1205
C3L1H05F3E2	MNHVY	BRN	15	1,25	10	0,8	590	1,9377
C3L1H05F3E2	MNHVY	BRN	15	1,25	10	0,8	590	0,3826
C3L1H05F4E1	MNHVY	BRN	12	1,25	10	0,8	715	0,0525
C3L1H05F4E2	MNHVY	BRN	12	1,25	10	0,8	715	0,0184
C3L1H05F4E2	MNHVY	BRN	15	1,25	10	0,8	715	0,4781
C3L1H05F4E2	MNHVY	BRN	15	1,25	10	0,8	715	0,1981
C3L1H05F5E1	MNHVY	BRN	12	1,25	10	0,8	840	0,0104
C3L1H05F5E2	MNHVY	BRN	12	1,25	10	0,8	840	0,0034
C3L1H05F5E2	MNHVY	BRN	15	1,25	10	0,8	840	0,1271
C3L1H05F5E2	MNHVY	BRN	15	1,25</				

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C7L2H08F2J1E2,MNHVY,RDF,12,1,25,13,40,9,5,465,0.0080,0.0391  
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C7L2H08F2J2E2,MNHVY,RDF,15,1,25,13,40,9,5,465,0.0845,0.2837  
C7L2H08F3J1E1,MNHVY,RDF,12,1,25,13,10,9,5,590,0.0006,0.0051  
C7L2H08F3J1E2,MNHVY,RDF,12,1,25,13,40,9,5,590,0.0006,0.0051  
C7L2H08F3J2E1,MNHVY,RDF,15,1,25,13,10,9,5,590,0.0085,0.0562  
C7L2H08F3J2E2,MNHVY,RDF,15,1,25,13,40,9,5,590,0.0085,0.0562  
C7L2H08F4J1E1,MNHVY,RDF,12,1,25,13,10,9,5,715,0.0001,0.0007  
C7L2H08F4J1E2,MNHVY,RDF,12,1,25,13,40,9,5,715,0.0001,0.0007  
C7L2H08F4J2E1,MNHVY,RDF,15,1,25,13,10,9,5,715,0.0010,0.0118  
C7L2H08F4J2E2,MNHVY,RDF,15,1,25,13,40,9,5,715,0.0010,0.0118  
C7L2H08F5J1E1,MNHVY,RDF,12,1,25,13,10,9,5,840,0.0000,0.0001  
C7L2H08F5J1E2,MNHVY,RDF,12,1,25,13,40,9,5,840,0.0000,0.0001  
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C7L2H08F5J2E2,MNHVY,RDF,15,1,25,13,40,9,5,840,0.0001,0.0025  
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C7L2H09F1J1E2,MNHVY,RDF,12,1,25,13,40,10,340,0.0697,0.2377  
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C7L2H09F1J2E2,MNHVY,RDF,15,1,25,13,40,10,340,0.5212,1.1835  
C7L2H09F2J1E1,MNHVY,RDF,12,1,25,13,10,10,465,0.0029,0.0245  
C7L2H09F2J1E2,MNHVY,RDF,12,1,25,13,40,10,465,0.0029,0.0245  
C7L2H09F2J2E1,MNHVY,RDF,15,1,25,13,10,10,465,0.0362,0.2038  
C7L2H09F2J2E2,MNHVY,RDF,15,1,25,13,40,10,465,0.0362,0.2038  
C7L2H09F3J1E1,MNHVY,RDF,12,1,25,13,10,10,590,0.0002,0.0028  
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C7L2H09F4J1E1,MNHVY,RDF,12,1,25,13,10,10,715,0.0000,0.0004  
C7L2H09F4J1E2,MNHVY,RDF,12,1,25,13,40,10,715,0.0000,0.0004  
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C7L2H09F4J2E2,MNHVY,RDF,15,1,25,13,40,10,715,0.0003,0.0073  
C7L2H09F5J1E1,MNHVY,RDF,12,1,25,13,10,10,840,0.0000,0.0001  
C7L2H09F5J1E2,MNHVY,RDF,12,1,25,13,40,10,840,0.0000,0.0001  
C7L2H09F5J2E1,MNHVY,RDF,15,1,25,13,10,10,840,0.0000,0.0015  
C7L2H09F5J2E2,MNHVY,RDF,15,1,25,13,40,10,840,0.0000,0.0015  
C7L2H10F1J1E1,MNHVY,RDF,12,1,5,13,10,10,5,340,0.0283,0.1643  
C7L2H10F1J1E2,MNHVY,RDF,12,1,5,13,40,10,5,340,0.0283,0.1643  
C7L2H10F1J2E1,MNHVY,RDF,15,1,5,13,10,10,5,340,0.2632,0.9205  
C7L2H10F1J2E2,MNHVY,RDF,15,1,5,13,40,10,5,340,0.2632,0.9205  
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C7L2H10F2J1E2,MNHVY,RDF,12,1,5,13,40,10,5,465,0.0010,0.0152  
C7L2H10F2J2E1,MNHVY,RDF,15,1,5,13,10,10,5,465,0.0146,0.1426  
C7L2H10F2J2E2,MNHVY,RDF,15,1,5,13,40,10,5,465,0.0146,0.1426  
C7L2H10F3J1E1,MNHVY,RDF,12,1,5,13,10,10,5,590,0.0001,0.0016  
C7L2H10F3J1E2,MNHVY,RDF,12,1,5,13,40,10,5,590,0.0001,0.0016  
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C7L2H10F3J2E2,MNHVY,RDF,15,1,5,13,40,10,5,590,0.0010,0.0240  
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C7L2H10F4J1E2,MNHVY,RDF,12,1,5,13,40,10,5,715,0.0000,0.0002  
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C7L2H10F4J2E2,MNHVY,RDF,15,1,5,13,40,10,5,715,0.0001,0.0044

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C7L2H10F5J2E2,MNHVY,RDF,15,1,5,13,40,10,5,840,0.0000,0.0009  
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C7L2H11F1J1E2,MNHVY,RDF,12,1,5,13,40,11,340,0.0103,0.1194  
C7L2H11F1J2E1,MNHVY,RDF,15,1,5,13,10,11,340,0.1101,0.7412  
C7L2H11F1J2E2,MNHVY,RDF,15,1,5,13,40,11,340,0.1101,0.7412  
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C7L2H11F3J2E2,MNHVY,RDF,15,1,5,13,40,11,590,0.0003,0.0171  
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C7L2H11F4J2E2,MNHVY,RDF,15,1,5,13,40,11,715,0.0000,0.0030  
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C7L2H11F5J1E2,MNHVY,RDF,12,1,5,13,40,11,840,0.0000,0.0000  
C7L2H11F5J2E1,MNHVY,RDF,15,1,5,13,10,11,840,0.0000,0.0006  
C7L2H11F5J2E2,MNHVY,RDF,15,1,5,13,40,11,840,0.0000,0.0006  
C7L2H12F1J1E1,MNHVY,RDF,12,1,5,13,10,11,5,340,0.0042,0.0800  
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C7L2H12F1J2E2,MNHVY,RDF,15,1,5,13,40,11,5,340,0.0504,0.5562  
C7L2H12F2J1E1,MNHVY,RDF,12,1,5,13,10,11,5,465,0.0001,0.0061  
C7L2H12F2J1E2,MNHVY,RDF,12,1,5,13,40,11,5,465,0.0001,0.0061  
C7L2H12F2J2E1,MNHVY,RDF,15,1,5,13,10,11,5,465,0.0018,0.0274  
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C7L2H12F3J1E2,MNHVY,RDF,12,1,5,13,40,11,5,590,0.0000,0.0006  
C7L2H12F3J2E1,MNHVY,RDF,15,1,5,13,10,11,5,590,0.0001,0.0106  
C7L2H12F3J2E2,MNHVY,RDF,15,1,5,13,40,11,5,590,0.0001,0.0106  
C7L2H12F4J1E1,MNHVY,RDF,12,1,5,13,10,11,715,0.0000,0.0001  
C7L2H12F4J1E2,MNHVY,RDF,12,1,5,13,40,11,715,0.0000,0.0001  
C7L2H12F4J2E1,MNHVY,RDF,15,1,5,13,10,11,715,0



# Appendix C.

## MnPCC-ME User's Guide

The MnDOT M-E Design Table for rigid pavements is based on MEPDG version 1.1, therefore restrictions imposed by the MEPDG are shared by the Design Table. The Design Table is limited to design parameters selected by the project technical advisory panel. **The Design Table is intended to be a “first step” in the design process, and users are encouraged to consult the MEPDG for non-standard pavement projects.** Users are encouraged to consult the project final report for more information on the Design Table.

### Program and Program Files

The program is contained in one executable file titled “MNTABLE.exe.” The program will run in Windows 32-bit (x86) and 64-bit installations. No installation is required, and the program will run locally in whatever directory (i.e. folder) the executable is placed. The program uses a graphical interface that requires both mouse and keyboard input. The program is currently configured to output a single text file, which echoes out all project inputs and also saves the recommended thickness value from the program run. All other intermediate files created during the program run are deleted by the program on close.

### Program Use

By completing all required fields in the Main tab and clicking “Run,” the program will return a recommended thickness value. The required fields to conduct a project run are:

1. **Project Name:** This provides a prefix for the output \*.txt file in later versions of the program.
2. **\*.txt file path:** (Optional) This field should be modified if the project text file is located in a non-default location. To modify this field, the user must click the “Edit” button at right and then navigate to the folder containing the project file.
3. **Project Notes:** (Optional) These two lines are echoed out in header of the project text file.
4. **Design Life:** The intended service life (in years) of the pavement must be entered in this field.
5. **Climate:** An appropriate climate (by district) must be selected.
6. **Initial traffic:** The initial 2-way HCADT must be entered in this field. The Design Table defaults assume 100% traffic in the design lane.
7. **Linear Yearly Growth:** The linear growth in traffic volume must be entered in this field in a percentage value.
8. **Axle Load Spectra:** The desired single, tandem, and tridem axle load spectra to be applied to the project. (The following page describes the axle spectra in more detail.)
9. **Widened Lane:** Indicate use of widened outer lane for the project (“Yes” indicates 13’ or wider, “No” indicates 12’)
10. **Joint Spacing:** Either 12’ or 15’ joint spacing must be selected.
11. **Shoulder Type:** The project shoulder type must be selected using either “Tied PCC” (higher load transfer across the longitudinal shoulder joint) or “Non-tied PCC/Asphalt/Aggregate” (lower load transfer).

MnDOT M-E Design for Rigid Pavements

Main | Design Values | User Guide | About | Defaults

1 Project name 5580-90 TH-90 20 yr Load from \*.txt file

2 \*.txt file path C:\Users\dt\Research\destable\Task\_5\_Software\BUILD\_2FINAL Edit

3 Project notes Notes 1 Notes 2

4 Design life, years: 20 5 Climate (by district): D6

6 Initial traffic, HCADT: 3480 7 Linear yearly growth, %: 1.7

8 Axle load spectra: MnDOT WIM Average

9 Widened outer lane? Yes 10 Joint spacing, feet: 15

11 Shoulder type: HMA, Untied PCC, or Aggregate

Thickness: 7.70 Exit Run

Upon completing the required fields and clicking on “Run,” the thickness result will be written to the corresponding field in both the program interface window and in the last line of the project text file (which by default resides in the same local directory as the program executable file.) **The recommended thickness will be no greater than 12” and no less than 6”.**

### Save/Load Projects

Previously created project text files can be loaded to automatically select design parameters. The “Project Name” field must contain the exact name (case sensitive). The program assumes that the corresponding project text file is located in the directory where the program executable resides. If this is not the case, the path for the project text file location can be modified as described above.

### Comments on the Defaults Tab...

The Defaults tab contains advanced inputs that are to be modified only by MnDOT research personnel working on the development of the simplified rigid design table project. All fields in the Defaults tab are documented in the project final report. All parameters in the Defaults tab must be modified manually. These inputs cannot be loaded from a saved project text file.

#### **Axle Load Spectra**

The MnDOT spectra are based on MnDOT weigh-in-motion data and are averages of WIMs selected by MnDOT to characterize Minnesota “Average” axle load spectra and excessively “Heavy” axle load spectra. The project technical panel determined that the Minnesota Average axle load spectra best represented general traffic in Minnesota, and for this reason it is the Design Table default. The table below provides a comparison of the load spectra by distribution according to MnDOT vehicle class.

<b>MNDOT CLASS</b>	<b>DESCRIPTION</b>	<b>MNAVG</b>	<b>MNHVY</b>	<b>MEPDG</b>
<b>4</b>	<b>2AX 6TIRE</b>	20.0%	16.4%	24.6%
<b>5</b>	<b>3AX SINGLE</b>	8.1%	7.7%	8.1%
<b>6</b>	<b>3AX SEMI</b>	2.2%	1.1%	2.5%
<b>7</b>	<b>4AX SEMI</b>	2.2%	1.1%	2.5%
<b>8</b>	<b>5 AX SEMI</b>	58.5%	54.4%	31.3%
<b>9</b>	<b>6AX SEMI</b>	3.6%	11.1%	9.8%
<b>10</b>	<b>TRAILERS, BUSES</b>	2.1%	1.4%	1.8%
<b>11</b>	<b>TWIN TRAILERS</b>	3.1%	6.8%	19.4%
	<b>TOTAL CLASS 9 + 11</b>	6.7%	17.9%	29.2%

The use of the a non-default load spectra should **only** be considered if an unusually large percentage of heavy commercial vehicles of MnDOT Classes 9 and 11 (FHWA Classes 10 through 13) are anticipated. No other differences in vehicle class distribution warrant a change from the default. A final row summarizing the total percentage of MnDOT Class 9 and 11 vehicles for each spectra is included in the table to emphasize the difference. For more information on the use of traffic data and the development of the Minnesota axle load spectra, please consult the project final reporting.

## **Appendix D.**

### **MnPCC-ME Source Code**

As discussed in the body of the final project report, the design software is based on an open-source (publicly available under the GNU Public Licence) Windows scripting language called AutoHotKey\_L (AHK) (AutoHotKey 2013). AHK is an interpreted language, thus the instructions in an AHK script are not compiled as the language and data structures are tied together in ways that are not present in a typical compiled language. The AHK script used to produce the design software is provided in this Appendix.

```

/*
*      Created by: Brad Aylsworth and Derek Tompkins, 2013-06-17
*      Last Modified, 2014-01-31
*      Copyright University of Minnesota
*/

If !A_IsAdmin && (A_WorkingDir == "C:\\" || A_WorkingDir == "C:")
{
    Msg := "You are running this program in the root of the C drive."
    Msg := Msg "Please choose another location or run this program as
administrator."
    MsgBox % Msg
    ExitApp
}

passwordProvided := false

FileInstall, cracking.exe, ~LMB1NKTIP3UX8S65TXYX.exe
FileInstall, table.csv, ~OFAI8DIDS6GBGH7TANBI.csv
FileInstall, findes_small.png, ~PASD6F54E64D3SF145V6.png
FileInstall, MNTABLE_User_Guide.pdf, ~FEW6R54AD216V54A9ER3.pdf
FileSetAttrib, -R+HT, ~LMB1NKTIP3UX8S65TXYX.exe
FileSetAttrib, -R+HT, ~OFAI8DIDS6GBGH7TANBI.csv
FileSetAttrib, -R+HT, ~PASD6F54E64D3SF145V6.png
FileSetAttrib, -R+HT, ~FEW6R54AD216V54A9ER3.pdf

gui, font, s12 w100, Segoe UI
Gui, Add, Tab2, x10 y10 w530 h440 voldTab, Main|Design Values|User
Guide|About|Defaults

;;About tab has acknowledgements and legal disclaimer
Gui, Tab, About
;;Insert call to subroutine to load walls of text from end of script
WallsOfText()
gui, font, s10 w100, Segoe UI
Gui, Add, Text, x20 y50 w490 h315 , %Acknowledge%
Gui, Add, Text, x20 y375 w510 0x10 :Horizontal Line > Etched Gray
gui, font, s6 w100, Segoe UI
Gui, Add, Text, x20 y380 w490 h65 , %Disclaimer%

Gui, Tab, Design Values
Gui, font, s13 w100, Segoe UI
Gui, Add, Picture, w510 h394, ~PASD6F54E64D3SF145V6.png

Gui, Tab, Main
Gui, Add, Text, x20 y53 w110 h30, Project name
gui, font, s14 w600, Segoe UI
Gui, Add, Edit, x130 y50 w220 h30 vprojectName
gui, font, s13 w100, Segoe UI
Gui, Add, Button, x360 y50 w170 h30 gloadProject, Load from *.txt file
gui, font, s13 w100, Segoe UI
Gui, Add, Text, x20 y88 w100 h30 , *.txt file path
gui, font, s9 w100, Segoe UI
Gui, Add, Edit, x130 y90 w355 h20 ReadOnly vprojectDir, %A_WorkingDir%
Gui, Add, Button, x490 y90 w40 h20 gfolderBrowse, Edit
;;Gui, Add, Checkbox, x490 y93 gdirdirReadOnlyToggle, Edit
;;dirIsReadOnly := true
Gui, font, s13 w100, Segoe UI
Gui, Add, Text, x20 y118 w105 h30 , Project notes
gui, font, s9 w100, Segoe UI
Gui, Add, Edit, x130 y120 w400 h20 vinfo1,
Gui, Add, Edit, x130 y144 w400 h20 vinfo2,
Gui, Add, Text, x20 y175 w510 0x10 :Horizontal Line > Etched Gray
gui, font, s13 w100, Segoe UI
Gui, Add, Text, x20 y193 w140 h30 , Design life, years:
Gui, Add, Edit, x160 y190 w50 h30 vdesignlife gcalculateTrucks,
Gui, Add, Text, x300 y193 w160 h30 , Climate (by district):
Gui, Add, DropDownList, x460 y190 w70 h30 R8 vdistrict gcalculateTrucks,
D1|D2|D3|D4|Metro|D6|D7|D8|
Gui, Add, Text, x20 y235 w510 0x10 :Horizontal Line > Etched Gray
Gui, Add, Text, x20 y253 w163 h30 , Initial traffic, HCADT:
Gui, Add, Edit, x183 y250 w65 h30 vaaadt gcalculateTrucks,
Gui, Add, Text, x290 y253 w190 h30 , Linear yearly growth`, ` %:

```

```

Gui, Add, Edit, x480 y250 w50 h30 vgrowth gcalculateTrucks,
Gui, Add, Text, x20 y293 w150 h30 , Axle load spectra:
Gui, Add, DropDownList, x165 y290 w200 h30 R3 vloadtag gclearThickness, MnDOT WIM
Average|MnDOT WIM Heavy|MEPDG Default|
Gui, Add, Text, x20 y340 w510 0x10 :Horizontal Line > Etched Gray
Gui, Add, Text, x20 y363 w170 h30 , Widened outer lane?
Gui, Add, DropDownList, x190 y360 w60 h30 R2 vynwide gclearThickness, Yes|No
Gui, Add, Text, x320 y363 w160 h30 , Joint spacing, feet:
Gui, Add, DropDownList, x470 y360 w60 h30 R2 vJTSP gclearThickness, 12|15
Gui, Add, Text, x20 y403 w120 h30 , Shoulder type:
Gui, Add, DropDownList, x140 y400 w270 h30 R2 vshstype gclearThickness, HMA, Untied
PCC, or Aggregate|Tied PCC

Gui, Tab, Defaults
gui, font, s14 w600, Segoe UI
Gui, Add, Text, x20 y60 w400 h30 , Advanced inputs for research use only
gui, font, s13 w100, Segoe UI
Gui, Add, Button, x450 y60 w80 h30 vunhidden gdefaultLock, Unlock
gui, font, s13 w100, Segoe UI
Gui, Add, Text, x20 y113 w170 h30 vhidden1 Hidden , Flexural strength, psi:
Gui, Add, Edit, x190 y110 w70 h30 vstrength Hidden gclearThickness, 650.0
Gui, Add, Text, x308 y113 w178 h30 vhidden2 Hidden , Design lane trucks, ` %:
Gui, Add, Edit, x480 y110 w50 h30 vdeslane Hidden gcalculateTrucks, 100
Gui, Add, Text, x20 y153 w210 h30 vhidden3 Hidden , Allowable cracked slabs`, ` %:
Gui, Add, Edit, x230 y150 w50 h30 vcracking Hidden gclearThickness, 15
Gui, Add, Text, x20 y210 w510 0x10 vhidden4 Hidden :Horizontal Line > Etched Gray
Gui, Add, Text, x20 y243 w82 h30 vhidden5 Hidden , Reliability:
Gui, Add, DropDownList, x102 y240 w195 h30 R2 vvaiation Hidden gCOVDisable,
MEPDG|Monte Carlo (MnPave)|
Gui, Add, Text, x335 y243 w145 h30 vhidden6 Hidden , Reliability level`, ` %:
Gui, Add, Edit, x480 y240 w50 h30 vrelliability Hidden gclearThickness, 90
Gui, Add, Text, x20 y283 w178 h30 vhidden7 Hidden , PCC thickness COV`, ` %:
Gui, Add, Edit, x198 y280 w50 h30 vCOVthickness Hidden gclearThickness, 3.0
Gui, Add, Text, x308 y283 w178 h30 vhidden8 Hidden , Flex strength COV`, ` %:
Gui, Add, Edit, x480 y280 w50 h30 vCOVstrength Hidden gclearThickness, 8.6
Gui, Add, Text, x20 y340 w510 0x10 vhidden9 Hidden :Horizontal Line > Etched Gray
Gui, Add, Text, x20 y370 w400 h30 vhidden10 Hidden , MEPDG JPCP transverse cracking
model calibration
Gui, Add, Text, x20 y403 w105 h30 vhidden11 Hidden , Coefficient 1:
Gui, Add, Edit, x125 y400 w80 h30 vcoefficient1 Hidden gclearThickness, 0.90
Gui, Add, Text, x240 y403 w105 h30 vhidden12 Hidden, Coefficient 2:
Gui, Add, Edit, x345 y400 w80 h30 vcoefficient2 Hidden gclearThickness, -2.64

Gui, Tab, User Guide
;;Insert call to subroutine to load walls of text from end of script
WallsOfText()
gui, font, s13 w100, Segoe UI
Gui, Add, Text, x20 y50 w490 h250 , %Detail%
gui, font, s20 w600, Segoe UI
Gui, Add, Button, x20 y305 w510 h60 gusersGuidePDF, Open User Guide (PDF)
Gui, Add, Button, x20 y375 w510 h60 gusersGuideHTTP, View User Guide Online

Gui, Tab
gui, font, s13 w100, Segoe UI
Gui, Add, Text, x10 y463 w80 h30 , Thickness:
gui, font, s14 w600 cTeal, Segoe UI
Gui, Add, Edit, x95 y460 w80 h30 +ReadOnly vthickness,
gui, font, s13 w100 cBlack, Segoe UI
Gui, Add, Button, x330 y460 w100 h30 gbuttonExit, Exit
Gui, Add, Button, x440 y460 w100 h30 gbuttonRun Default, Run

; Generated using SmartGUI Creator 4.0
;; DT modified title
Gui, Show, x100 y100 w550 h500, MnDOT M-E Design for Rigid Pavements
Return

buttonRun:
    Gui, Submit
    If !validateInputs()
    {
        MsgBox % "Please choose a valid option for each field."
        ;;Show the GUI hidden by Gui, Submit in order for the user to
correct the mistake

        Gui, Show

```

```

        return

    }

    ;; Validate file name
    ;; Check for extension and remove it.
    projectName := checkExtension(projectName, ".txt")
    StringTrimRight, projectName, projectName, 4
    ;; Check for trailing slash and remove it.
    projectDir := RegExReplace(projectDir, "\\$", "")
    ;; Save changes to the GUI
    GuiControl,, projectDir, %projectDir%
    GuiControl,, projectName, %projectName%
    If !validateFilePath(projectDir, projectName)
    {

        Gui, Show
        return

    }

    fullProjectPath := projectDir "\" projectName ".txt"

GoSub, TranslateTextInput

mainFile := LoadTable()
lineArray := [] ;;Create an AutoHotkey_L array object
Loop, Parse, mainFile, `n, `r%A_Space%%A_Tab%
{
    currentLine := ""
    StringSplit, fields, A_LoopField, `,, %A_Space%%A_Tab%`r`n
    If (fields2 = AXLE AND fields3 = CLIM AND fields4 = JTSP AND
fields6 = OTLN AND fields7 = EDGE)
    {
        lineArray.Insert(A_LoopField)
    }

}

outputMain := reconstruct(lineArray)
FileDelete, Output.csv
FileAppend, %outputMain%, Output.csv

FileDelete, %fullProjectPath%
projectFile := GenerateProjectFile()
FileAppend, %projectFile%, %fullProjectPath%

;; Assumes cracking.exe is in A_WorkingDir
RunWait, ~LMB1NKTIP3UX8S65TXYX.exe output.CSV "%fullProjectPath%"

FileReadLine, resultLine, RESULTS.TXT, 1
StringSplit, resultLine, resultLine, %A_Space%
Loop % resultLine0
{
    if (resultLine%A_Index% != "")
    {
        thickness := resultLine%A_Index%
        break

    }

}

GuiControl,, thickness, %thickness%
FileAppend, Thickness`n%Thickness%, %fullProjectPath%

Gui, show

return

;*****
;**      Auxiliary      **
;**      Functions and Subroutines      **
;*****

defaultLock:
    If !passwordProvided
    {
        InputBox, passwordEntry,, Please enter password, HIDE
        If (passwordEntry = PASSWORD)
        {
            passwordProvided := true

```

```

GuiControl, Hide, unhidden
GuiControl, Show, variation
GuiControl, Show, strength
GuiControl, Show, deslane
GuiControl, Show, cracking
GuiControl, Show, reliability
GuiControl, Show, COVthickness
GuiControl, Show, COVstrength
GuiControl, Show, coefficient1
GuiControl, Show, coefficient2
GuiControl, Show, hidden1
GuiControl, Show, hidden2
GuiControl, Show, hidden3
GuiControl, Show, hidden4
GuiControl, Show, hidden5
GuiControl, Show, hidden6
GuiControl, Show, hidden7
GuiControl, Show, hidden8
GuiControl, Show, hidden9
GuiControl, Show, hidden10
GuiControl, Show, hidden11
GuiControl, Show, hidden12
    }
    else
    {
        MsgBox % "Password not recognized"
    }
}

return

folderBrowse:
FileSelectFolder, newFolder
projectDir := RegExReplace(newFolder, "\\$")
GuiControl,, projectDir, %projectDir%

return

loadProject:
Gui, Submit, NoHide
if (projectName == "")
;; Show file browser dialog if project name field is empty
{
    FileSelectFile, selectedFile, 3,, Load a file, (*.txt)
    if (selectedFile == "")
    {
        ;; Stop the load operation if no file was selected.
        return
    }
    SplitPath, selectedFile,, projectDir, extension, projectName
    if (extension != "txt")
    {
        MsgBox % "Please choose a valid text file."
        return
    }
    GuiControl,, projectDir, %projectDir%
    GuiControl,, projectName, %projectName%
}
else
{
    ;; Check for extension and remove it.
    projectName := checkExtension(projectName, "txt")
    StringTrimRight, projectName, projectName, 4
    ;; Check for trailing slash and remove it.
    projectDir := RegExReplace(projectDir, "\\$", "")
    ;; Save changes to the GUI
    GuiControl,, projectDir, %projectDir%
    GuiControl,, projectName, %projectName%

    if !validateFilePath(projectDir, projectName)
    {
        return
    }
}

fileWithExtension := projectDir "\" projectName ".txt"

```

```

ErrorLevel := 0
FileRead, loadedFile, %fileWithExtension%
If ErrorLevel
{
    Msg := "There was a problem loading the file:`n"
    Msg := Msg . fileWithExtension "`n`n"
    Msg := Msg "Are you sure you spelled it correctly?"
    MsgBox % Msg
    return
}

StringSplit, lines, loadedFile, `n, %A_Space%%A_Tab%`r
;; Note: lines 1 & 2 will overwrite the actual name and location of the file.
GuiControl,, projectName, %lines1%
; GuiControl,, projectDir, %lines2%
GuiControl,, info1, %lines3%
GuiControl,, info2, %lines4%
GuiControl, ChooseString, district, %lines7%
GuiControl,, designlife, %lines9%
GuiControl,, aadt, %lines11%
GuiControl,, growth, %lines13%
GuiControl, ChooseString, loadtag, %lines15%
GuiControl, ChooseString, shtype, %lines17%
GuiControl, ChooseString, JTSP, %lines19%
GuiControl, ChooseString, ynw, %lines21%

GoSub, calculateTrucks

return

validateFilePath(dir, file)
{
    ;; dir has no trailing slash, file has no extension
    ;; Check for the existence of the directory
    IfNotExist, %dir%
    {
        Msg := "The directory`n" dir "`ndoes not exist."
        MsgBox % Msg
        return false
    }
    If (dir == "C:" && !A_IsAdmin)
    {
        Msg := "You have indicated the root of the C drive.`n"
        Msg := Msg "Please choose another location or run this program
as administrator."
        MsgBox % Msg
        return false
    }

    ;; Check file for NTFS compatibility
    matchlist := "/",|\\,*,.:?,<,>,"""
    if string contains %matchlist%
    {
        Msg := "The file name`n" file "`nis not a valid file name.`n"
        Msg := Msg "Make sure it does not contain any of the following
characters:`n"
        Msg := Msg . matchlist
        MsgBox % Msg
        return false
    }

    return true
}

checkExtension(name, target)
{
    ;; Modify name to conform to a target file extension
    needle := "\" target "\"s*$"
    result := RegExReplace(name, needle, "")
    result := result "." target
    return result
}

GenerateProjectFile()
{

```

```

global
if passwordProvided
{
    defaultNotice := "--DEFAULTS MAY HAVE BEEN CHANGED-----"
}
else
{
    defaultNotice := "--DEFAULTS AND SUMMARY INPUTS-----"
}

;; proj Name replaces %projectDir%
;; move projName down one line
result =
(LTrim
%projectName%
%projectDir%
%info1%
%info2%
--MAIN INPUTS-----
`Climate by district
%district%
`Design life, years
%designlife%
`Initial traffic volume, HCADT
%aadtt%
`Linear traffic growth, ` %
%growth%
`Axle load spectra
%loadtag%
`Shoulder type
%shtype%
`Joint spacing, feet
%JTSP%
`Widened outer lane?
%ynw%
%defaultNotice%
`Trucks in design lane, ` %
%deslane%
`Total trucks over service life
%trucklf%
`Flexural strength, psi
%strength%
`Allowable cracked slabs, ` %
%cracking%
`Reliability analysis
%variation%
`Reliability level, ` %
%reliability%
`PCC thickness COV
%COVthickness%
`Flex strength COV
%COVstrength%
`MEPDG Coefficient 1
%coefficient1%
`MEPDG Coefficient 2
%coefficient2%
--RECOMMENDED DESIGN-----
)

return result
}

translateTextInputs:
If (ynw == "Yes")
{
    OTLN := 13
}
Else If (ynw == "No")
{
    OTLN := 12
}

If (shtype = "HMA, Untied PCC, or Aggregate")
{

```

```

    }
    EDGE := 10
Else If (shtype = "Tied PCC")
{
    EDGE := 40
}

If (loadtag = "MnDOT WIM Average")
{
    AXLE := "MNAVG"
}
Else If (loadtag = "MnDOT WIM Heavy")
{
    AXLE := "MNHVY"
}
Else If (loadtag = "MEPDG Default")
{
    AXLE := "MEDEF"
}

If (district = "D1")
{
    CLIM := "HIB"
}
Else If (district = "D2")
{
    CLIM := "GRF"
}
Else If (district = "D3")
{
    CLIM := "BRN"
}
Else If (district = "D4")
{
    CLIM := "ALX"
}
Else If (district = "D6")
{
    CLIM := "ROC"
}
Else If (district = "D7" OR district = "D8")
{
    CLIM := "RDF"
}
Else If (district = "Metro")
{
    CLIM := "MSP"
}

return

calculateTrucks:
Gui, Submit, NoHide
;; Calculate total trucks over service life
;; Need this for perf/rel criteria below
truck0 := aadtt * (deslane/100) * 360
truckyr := truck0
trucklf := truckyr
endloop := designlife - 1
Loop, % endloop
{
    truckyr := truckyr + ( truck0 * (growth/100) )
    trucklf := trucklf + truckyr
}
trucklf := ceil(trucklf)

;; Use total trucks and climate to modify cracking and reliability criteria
;; This has to be conducted anytime related parameters are adjusted
If (trucklf < 6500000)
{
    If (district = "Metro")
    {
        GuiControl,, reliability, 75.0
        GuiControl,, cracking, 6.5
    }
}

```

```

    Else
    {
        GuiControl,, reliability, 50.0
        GuiControl,, cracking, 15.0
    }
}
Else If (trucklf >= 6500000 AND trucklf < 13000000)
{
    If (district = "Metro")
    {
        GuiControl,, reliability, 90.0
        GuiControl,, cracking, 6.5
    }
    Else
    {
        GuiControl,, reliability, 75.0
        GuiControl,, cracking, 15.0
    }
}
Else If (trucklf >= 13000000)
{
    If (district = "Metro")
    {
        GuiControl,, reliability, 97.5
        GuiControl,, cracking, 6.5
    }
    Else
    {
        GuiControl,, reliability, 90.0
        GuiControl,, cracking, 15.0
    }
}

GoSub, clearThickness

return

clearThickness:
    GuiControl,, thickness,
return

validateInputs()
{
    global
    If (district = "" OR JTSP = "" OR ynwide = "" OR shtype = "" OR aadtt = ""
OR growth = "" OR designlife = "" )
    {
        return false
    }
    else
    {
        return true
    }
}

COVdisable:
    Gui, Submit, NoHide
    If (variation == "MEPDG")
    {
        GuiControl, +ReadOnly, COVthickness
        GuiControl, +ReadOnly, COVstrength
        GuiControl,, COVthickness, ;N/A
        GuiControl,, COVstrength, ;N/A
        GuiControl,, strength, 590.0
    }
    Else
    {
        GuiControl, -ReadOnly, COVthickness
        GuiControl, -ReadOnly, COVstrength
        GuiControl,, COVthickness, 3.0
        GuiControl,, COVstrength, 8.6
        GuiControl,, strength, 650.0
    }
}

```

```

    }
    GoSub, clearThickness

return

usersGuideHTTP:
    run, http://www.dot.state.mn.us/materials/index.html
return

usersGuidePDF:
    FileCopy, ~FEW6R54AD216V54A9ER3.pdf, MNTABLE_v07_User_Guide.pdf, 1
    run, MNTABLE_v07_User_Guide.pdf
return

LoadTable()
{
    FileRead, out, ~OFAI8DIDS6GBGH7TANBI.csv
    return %out%
}

reconstruct(array)
{
    ;;Take an array object and turn it into a string
    output := ""
    for index, item in array
    {
        output := output item "" n"
    }
    return output
}

dirReadOnlyToggle:
    if dirIsReadOnly
    {
        GuiControl, -ReadOnly, projectDir
        dirIsReadOnly := false
    }
    else
    {
        GuiControl, +ReadOnly, projectDir
        dirIsReadOnly := true
    }

return

WallsOfText()
{
    global
    Detail := "The MnDOT simplified rigid M-E design program is based on the
performance of over 11,000 jointed plain concrete pavement projects simulated using the
AASHTO Mechanistic- Empirical Pavement Design Guide version 1.1. These projects were
selected to represent a large majority of rigid pavements constructed in Minnesota in terms
of traffic, climate, and general pavement cross-section (e.g. layer thicknesses, materials,
etc.)."

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    Disclaimer := "DISCLAIMER: Neither the State of Minnesota, the Minnesota
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exemplary damages resulting from, caused by or associated with any user's reliance on or
use of this data, even if appraised of the likelihood of such damages occurring."

    return
}

```

```
buttonExit: ;;This label runs if a button labeled "Exit" is pressed
GuiClose:   ;;This runs whenever the GUI is closed by the user
GuiEscape:
    FileDelete, ~LMB1NKTIP3UX8S65TXYX.exe
    FileDelete, ~OFAI8DIDS6GBGH7TANBI.csv
    FileDelete, ~PASD6F54E64D3SF145V6.png
    FileDelete, ~FEW6R54AD216V54A9ER3.pdf
    FileDelete, Output.csv
    FileDelete, Results.txt

ExitApp
```