

IDAHO TRANSPORTATION DEPARTMENT

RESEARCH REPORT

**RP ###**

**Report Title**

By

Principal Investigator(s) (First M.I. Last)

Authoring Organization

Prepared for

Idaho Transportation Department

Research Program, Contracting Services

Division of Engineering Services

<http://itd.idaho.gov/alt-programs/?target=research-program>

Month Year (e.g. February 2018)

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**FHWA Form F 1700.7**

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| **METRIC (SI\*) CONVERSION FACTORS** | | | | | | | | | | | | | | | | | | | | | |
| APPROXIMATE CONVERSIONS TO SI UNITS | | | | | | | | | | | | APPROXIMATE CONVERSIONS FROM SI UNITS | | | | | | | | | |
| Symbol | | When You Know | | Multiply By | | | | To Find | | Symbol | | Symbol | | When You Know | | Multiply By | | To Find | | Symbol | |
|  | | | | | | | | | | | |  | | | | | | | | | |
|  | | | | | | LENGTH |  | | | | |  | | | | LENGTH | |  | | | |
|  | | | | | | | | | | | |  | | | | | | | | | |
| in | inches | | | | 25.4 | | millimeters | | | | mm | mm | millimeters | | | 0.039 | inches | | | | in |
| ft | feet | | | | 0.3048 | | meters | | | | m | m | meters | | | 3.28 | feet | | | | ft |
| yd | yards | | | | 0.914 | | meters | | | | m | m | meters | | | 1.09 | yards | | | | yd |
| mi | miles (statute) | | | | 1.61 | | kilometers | | | | km | km | kilometers | | | 0.621 | miles (statute) | | | | mi |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
|  |  | | | | AREA | |  | | | |  |  |  | | | AREA |  | | | |  |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
| in2 | square inches | | | | 645.2 | | millimeters squared | | | | cm2 | mm2 | millimeters squared | | | 0.0016 | square inches | | | | in2 |
| ft2 | square feet | | | | 0.0929 | | meters squared | | | | m2 | m2 | meters squared | | | 10.764 | square feet | | | | ft2 |
| yd2 | square yards | | | | 0.836 | | meters squared | | | | m2 | km2 | kilometers squared | | | 0.39 | square miles | | | | mi2 |
| mi2 | square miles | | | | 2.59 | | kilometers squared | | | | km2 | ha | hectares (10,000 m2) | | | 2.471 | acres | | | | ac |
| ac | acres | | | | 0.4046 | | hectares | | | | ha |  |  | | |  |  | | | |  |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
|  |  | | | | MASS (weight) | |  | | | |  |  |  | | | MASS (weight) |  | | | |  |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
| oz | Ounces (avdp) | | | | 28.35 | | grams | | | | g | g | grams | | | 0.0353 | Ounces (avdp) | | | | oz |
| lb | Pounds (avdp) | | | | 0.454 | | kilograms | | | | kg | kg | kilograms | | | 2.205 | Pounds (avdp) | | | | lb |
| T | Short tons (2000 lb) | | | | 0.907 | | megagrams | | | | mg | mg | megagrams (1000 kg) | | | 1.103 | short tons | | | | T |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
|  |  | | | | VOLUME | |  | | | |  |  |  | | | VOLUME |  | | | |  |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
| fl oz | fluid ounces (US) | | | | 29.57 | | milliliters | | | | mL | mL | milliliters | | | 0.034 | fluid ounces (US) | | | | fl oz |
| gal | Gallons (liq) | | | | 3.785 | | liters | | | | liters | liters | liters | | | 0.264 | Gallons (liq) | | | | gal |
| ft3 | cubic feet | | | | 0.0283 | | meters cubed | | | | m3 | m3 | meters cubed | | | 35.315 | cubic feet | | | | ft3 |
| yd3 | cubic yards | | | | 0.765 | | meters cubed | | | | m3 | m3 | meters cubed | | | 1.308 | cubic yards | | | | yd3 |
|  |  | | | |  | |  | | | |  |  |  | | |  |  | | | |  |
| Note: Volumes greater than 1000 L shall be shown in m3 | | | | | | | | | | | |  | | | | | | | | | |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
|  |  | | TEMPERATURE  (exact) | | | | | |  | |  |  |  | | TEMPERATURE  (exact) | | | |  | |  |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
| oF | Fahrenheit temperature | | 5/9 (oF-32) | | | | | | Celsius temperature | | oC | oC | Celsius temperature | | 9/5 oC+32 | | | | Fahrenheit temperature | | oF |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
|  |  | | ILLUMINATION | | | | | |  | |  |  |  | | ILLUMINATION | | | |  | |  |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
| fc | Foot-candles | | 10.76 | | | | | | lux | | lx | lx | lux | | 0.0929 | | | | foot-candles | | fc |
| fl | foot-lamberts | | 3.426 | | | | | | candela/m2 | | cd/cm2 | cd/cm2 | candela/m2 | | 0.2919 | | | | foot-lamberts | | fl |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
|  |  | | FORCE and PRESSURE or STRESS | | | | | |  | |  |  |  | | FORCE and PRESSURE or STRESS | | | |  | |  |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |
| lbf | pound-force | | 4.45 | | | | | | newtons | | N | N | newtons | | 0.225 | | | | pound-force | | lbf |
| psi | pound-force per square inch | | 6.89 | | | | | | kilopascals | | kPa | kPa | kilopascals | | 0.145 | | | | pound-force per square inch | | psi |
|  |  | |  | | | | | |  | |  |  |  | |  | | | |  | |  |

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# Acknowledgements

Type acknowledgements here.

**Technical Advisory Committee**

Each research project is overseen by a technical advisory committee (TAC), which is led by an ITD project sponsor and project manager. The Technical Advisory Committee (TAC) is responsible for monitoring project progress, reviewing deliverables, ensuring that study objective are met, and facilitating implementation of research recommendations, as appropriate. ITD’s Research Program Manager appreciates the work of the following TAC members in guiding this research study.

**Project Sponsor –**

**Project Manager *–***

**TAC Members**

**FHWA-Idaho Advisor –**

# Table of Contents

[Executive Summary/Abstract viii](#_Toc274914422)

[Chapter 1. Chapter Title 1](#_Toc274914423)

[Type Heading Here 1](#_Toc274914424)

[Type Subheading Here 1](#_Toc274914425)

[References 3](#_Toc274914426)

[Appendix A. Appendix Title 4](#_Toc274914427)

# List of Tables

[Table 1. Table Title 1](#_Toc258595988)

# List of Figures

[Figure 1. Figure Title. 2](#_Toc258595981)

# List of Acronyms

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# Executive Summary/Abstract

Type Executive Summary or Abstract here.

# 

# Chapter 1 Chapter Title

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### Type Subheading Here

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#### *Type Next-level Subheading Here*

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Table 1. Intersection Crash History (1/1/2002 to 12/31/2004)(1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Intersection | Number of Crashes | Collision Type | | | | Severity | | MEV | Crashes per MEV |
| Rear-End | Turning | Angle | Other | PDO | Injury |
| SW ABC Blvd/ SW XYZ Avenue | 32 | 13 | 13 | 4 | 2 | 21 | 11 | 14.6 | 0.44 |
| SW ABC Blvd/ SW LMNOP Avenue | 6 | 2 | 3 | 1 | 0 | 4 | 2 | 5.1 | 0.23 |
| PDO—Property Damage Only MEV—Million Entering Vehicles | | | | | | | | | |

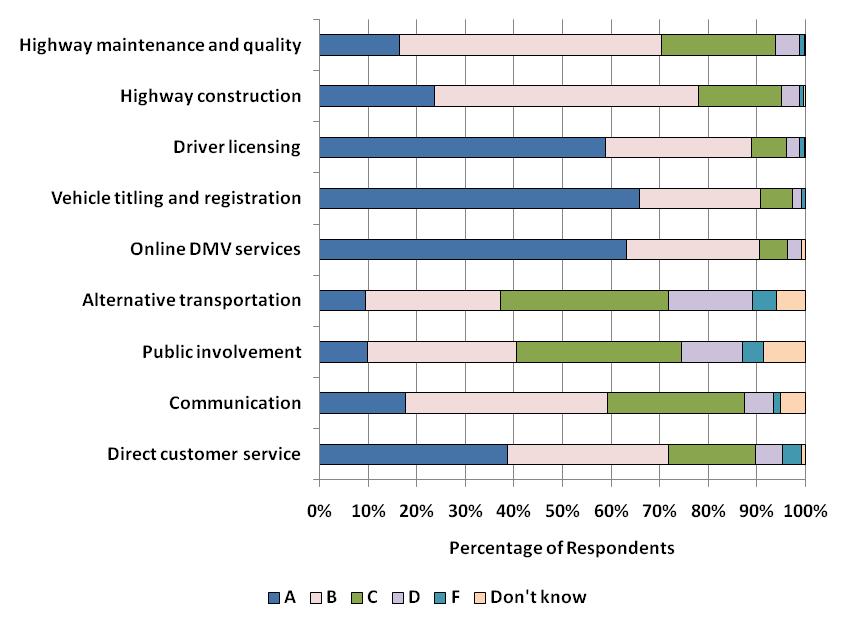


Figure 1. Overall Grades Awarded to ITD Services(1)

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# References

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# Appendix A Appendix Title

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