

SHEET 10
LTPP TRAFFIC DATA
TRAFFIC VOLUME AND LOAD
ESTIMATE UPDATE - NO SITE COUNT

*STATE ASSIGNED ID [1016]
 *STATE CODE [27]
 *SHRP SECTION ID [1029]

1. ANNUAL TRAFFIC ESTIMATES

YEAR	ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	ESTIMATED TOTAL VEHICLES AADT GPS LANE	ESTIMATED TOTAL TRUCKS AADT GPS LANE	ESTIMATED ESAL'S / YR GPS LANE (1000's)
<u>1990</u>	<u>9700</u>	<u>380</u>	<u>4360</u>	<u>170</u>	<u>36</u>

**2. METHOD FOR ESTIMATING TOTAL VEHICLE
AADT (TWO-WAY)**

- ☐ Growth factored last year's estimate.
☐ Estimated based on volume counts at nearby locations.
☐ Used computerized network analysis.
☒ Other Interpolation 89-91

**3. METHOD FOR ESTIMATING TOTAL TRUCK
AADT (TWO-WAY)**

- ☐ Used system average from counts taken this year.
☐ Used count data from nearby sites.
☐ Used count data from previous years at GPS site.
☐ Used system averages from previous year counts.
☐ Used computerized network analysis.
☒ Other Interpolation 89-91

**4. METHOD FOR ESTIMATING TOTAL VEHICLES
GPS LANE AADT**

- ☐ System distribution factors.
☒ Other Interpolation 89-91

**5. METHOD FOR ESTIMATING TOTAL
TRUCKS, GPS LANE, AADT**

- ☐ System distribution factors.
☒ Other Interpolation 89-91

**6. METHOD FOR ESTIMATING ESAL/YEAR
IN GPS LANE**

- ☐ ESAL/Truck factor.
☐ ESAL/vehicle class factors -
 Number of classes
☒ Other Interpolation 89-91

7. ESAL ESTIMATES - SOURCE OF DATA

- ☐ Prior years data collected at GPS site.
☐ Current year system average.
☐ Prior year system average.
☐ Historical W-4 tables.
☒ Other Interpolation 89-91

8. WEIGHT SCALE TYPE

- ☐ WIM Scale.
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement.
☒ Other Interpolation 89-91

Monitoring started in 1990.

NAME OF PREPARER Curtis Dahlin PHONE # (612) 296-6846
 DATE PREPARED 7-8-92

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 Milepost No: 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Missing data from the following time periods:

3/1/93 thru 3/17/93
4/3/93 thru 4/5/93
4/13/93 thru 4/15/93
5/10/93 thru 5/24/93

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: September 22, 1993

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 Milepost No: 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Lost data between midnight and 1:00 pm on 10/22/92.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: June 14, 1993

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Missing data from the following time periods:
4/3/94

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: June 3, 1994

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Lost data between midnight and 1:00 pm on 10/22/92.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: June 14, 1993

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Time period covered 1/1/95 - 4/30/95. Missing 4/2/95.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: May 18, 1995

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: No missing data for this time period.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: January 24, 1995

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Time period covered 5/1/95 - 8/31/95. No missing data.

NAME OF PREPARER: Jim Muske PHONE NO.: 612-296-1665
DATE PREPARED: June 26, 1996

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Missing data from the following time periods:

8/29/93 thru 8/31/93
9/16/93 thru 9/22/93
9/27/93 thru 10/11/93
10/17/93 thru 10/21/93
10/28/93 thru 10/31/93
11/2/93 thru 12/1/93

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: September 22, 1993

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Missing data from the following time periods:

3/1/93 thru 3/17/93
4/3/93 thru 4/5/93
4/13/93 thru 4/15/93
5/10/93 thru 5/24/93

NAME OF PREPARER: Vicky Sarnier
DATE PREPARED: September 22, 1993

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 Milepost No: 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: No missing data for this time period.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: October 14, 1994

PHONE NO.: 612-296-8526

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 1016
State Code: 27
SHRP Section ID: 1029
Effective Date: 11/90

Highway Rt No: State Hwy 65 **Milepost No:** 36.17

Location: Isanti, Minnesota .27 mi N of CSAH 5 N of Isanti

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Data began being collected 7/28/91. There is no missing data for the time period 7/28/91 through 12/31/91.

NAME OF PREPARER: Vicky Sarner PHONE NO.: 612-296-8526
DATE PREPARED: April 28, 1995

Sheet 12
Traffic Data
Collection Site

State Assigned ID: 9003
State Code: 27
SHRP Section ID: 9075
Effective Date: 11/90

Highway Rt No:US 71

Milepost No: 103.45

Location: Olivia, Minnesota .4 mi N of CSAH 11 N of Olivia

Vehicle Classification Method: FHWA

Type of Classification Equipment: NA

AVC Equipment Make/Model No.: NA

Sensor Type: NA

Weight Scale Type: Permanent WIM

Equipment Make/Model No.: IRD 1060

Sensor Type: Piezo

Method of Calibration: Initial calibration with a loaded 5 axle semi & subsequent calibrations are done automatically.

Frequency of Calibration: Dependent on need. Can be as often as every week.

Comments: Data began being collected 8/1/91. There is no missing data between 8/1/91 and 12/31/91.

NAME OF PREPARER: Vicky Sarner
DATE PREPARED: April 28, 1995

PHONE NO.: 612-296-8526

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65 Isanti, MN

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	1444-0992
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.2.2	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65 Isanti, MN

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	1444-0992
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.3.3	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65, Isanti, Mn

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	9107-1307
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954 206 2330
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.3.3	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65 Isanti, MN

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	1444-0992
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.2.2	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65 Isanti, MN

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	9107-1307
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.5.2	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

**SHEET 15
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [1016]

STATE CODE [27]

SHRP SECTION ID [1029]

LOCATION TH 65 Isanti, MN

DATE OF INSTALLATION November 1990

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit	Dell 386	IRD	1444-0992
Interface		IRD	
Modem	MT 932 9600 bps	Multitech	3011954
Loop Amplifiers		Microsense	
Other _____			
Sensor(s) / Platform(s)			
GPS Lane Sensor	Piezo	IRD	
Sensor Next Adjacent Lane (1)			
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package	7.2.2	IRD	
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane 1			
Downstream - Lane 1			
Upstream - Other Lanes			
Downstream - Other Lanes			

SHEET 14

*STATE ASSIGNED ID [1 0 1 6]

*STATE CODE [27]

*SHRP SECTION ID [1029]

MP # 36.17 MODEL # IRD

[illegible]