# CHICAGO - DELIVERING ZERO EMISSIONS COMMUNITIES (DZEC) TRUCK COUNTING PROJECT

COUNT LOCATIONS: S. 103<sup>rd</sup> St. – Norfolk Southern north side

South Deering

S. 103<sup>rd</sup> St. – Norfolk Southern south side –

South Deering

COUNT DATE: 04-18-2023

COUNT TYPE: 24-Hour Average Daily Traffic/Automatic Traffic Recorder

### **PROJECT LOCATION MAP**

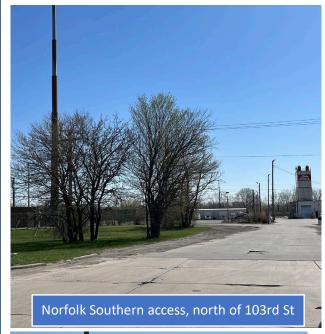


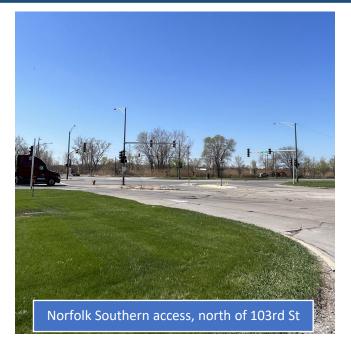
### **COUNT TYPE: 24-Hour Average Daily Traffic**

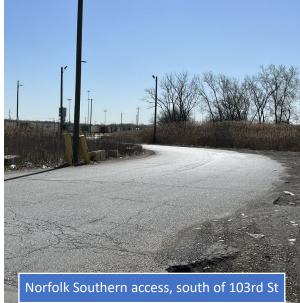
Average Daily Traffic Counts (ADT), also referred to by Miovision as ATRs – Automatic Traffic Recorder (ATR) counts are used to capture the volume of vehicles that travel on a roadway over a given period of time. ADTs count all vehicles that travel through a specific point of a road over a short duration time period and are representative only of the time period and type of traffic volumes included. ADT is a standard measure of traffic volume used for traffic monitoring and forecasting.



### **SITE PHOTOS**









### SUMMARY DATA REPORTS

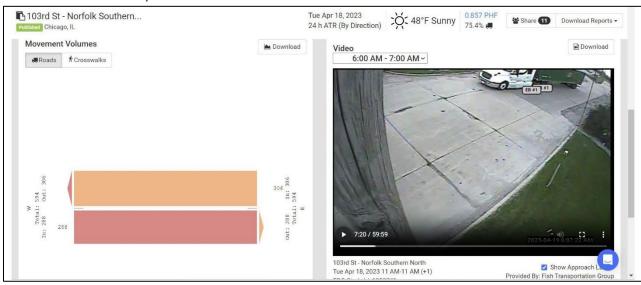
Truck traffic data was collected utilizing Miovision Scout video data collection (cameras). Video data was collected for a 24-hour period on a typical, non-holiday weekday. Miovision DataLink was used to generate reports and data visualizations to analyze traffic and truck count data. In addition, FTG generated truck-specific data reports. Summary data reports from both Miovision Datalink and FTG are described and presented below.

### **Miovision Datalink Reports**

The following information is provided as generated from the Miovision Datalink portal:

- 1. Detailed PDF report presenting raw traffic volumes summarized by:
  - Time increments (i.e., 15-minute, 60-minute)
  - Length of count (i.e., Peak hour counts, 12-hour counts, 24-hour counts)
  - Data tables presented as: full count length summary, AM peak period, midday, PM peak period
- 2. Intersection data plot (movement visualization) showing Intersection diagram (vehicles entering and exiting the intersection)

Example from Miovision Datalink Portal Norfolk Southern access, north of 103<sup>rd</sup> Street



### **Example from Miovision Datalink Portal**

Norfolk Southern access, south of 103rd Street (at Doty Ave)



### **FTG Summary Reports**

Truck volume summary reports were generated by FTG. The following reports were prepared for each count location:

- Hourly truck volumes, tabulated by
  - o Hour
  - o Direction
  - Truck classification

Both Miovision and FTG reports are attached below.

Tue Apr 18, 2023

Full Length (11 AM-11 AM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks) All Channels

ID: 1058741, Location: 41.70844, -87.580185

East West		
Westbound Eastbound		
Т Арр	Т Арр	Int
04-18 11:00AM 23 <b>23</b>	24 <b>24</b>	
12:00PM 18 <b>18</b>	18 <b>18</b>	36
1:00PM 21 <b>21</b>	17 <b>17</b>	38
2:00PM 17 <b>17</b>	18 <b>18</b>	36 38 35 32
3:00PM 17 <b>17</b>	15 <b>15</b>	32
4:00PM 14 <b>14</b>	12 <b>12</b>	26
5:00PM 9 <b>9</b>	6 <b>6</b>	15
6:00PM 13 <b>13</b>	7 <b>7</b>	20 13
7:00PM 7 <b>7</b>	6 <b>6</b>	
8:00PM 6 <b>6</b>	5 <b>5</b>	
9:00PM 8 <b>8</b>	8 <b>8</b>	
10:00PM 7 <b>7</b>	7 <b>7</b>	
11:00PM 12 <b>12</b>	11 <b>11</b>	
04-19 12:00AM 8 <b>8</b>	6 <b>6</b>	
1:00AM 6 <b>6</b>	7 <b>7</b>	I
2:00AM 5 <b>5</b>	6 <b>6</b>	
3:00AM 9 <b>9</b>	14 <b>14</b>	
4:00AM 17 <b>17</b>	19 <b>19</b>	
5:00AM 21 <b>21</b>	23 <b>23</b>	
6:00AM 17 <b>17</b>	9 <b>9</b>	
7:00AM 6 <b>6</b>	6 <b>6</b>	
8:00AM 11 <b>11</b>	14 <b>14</b>	
9:00AM 17 <b>17</b>	11 <b>11</b>	
10:00AM 17 <b>17</b>	19 <b>19</b>	36
<b>Total</b> 306 <b>306</b>	288 <b>288</b>	594
<b>% Approach</b> 100% - 1	100% -	-
<b>% Total</b> 51.5% <b>51.5%</b> 48	8.5% <b>48.5%</b>	-
<b>Lights</b> 71 <b>71</b>	75 <b>75</b>	146
<b>% Lights</b> 23.2% <b>23.2%</b> 26	6.0% <b>26.0%</b>	24.6%
ticulated Trucks 202 202	19 <b>19</b>	221
	6.6% <b>6.6%</b>	37.2%
gle-Unit Trucks 33 33	194 <b>194</b>	227
gle-Unit Trucks 10.8% <b>10.8%</b> 67	7.4% <b>67.4%</b>	38.2%

<sup>\*</sup>T: Thru

Tue Apr 18, 2023
Full Length (11 AM-11 AM (+1))
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Channels
ID: 1058741, Location: 41.70844, -87.580185



Tue Apr 18, 2023 Midday Peak (Apr 18 2023 11AM - 12 PM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks) All Channels

ID: 1058741, Location: 41.70844, -87.580185

Leg	East		West		
Direction	Westbound		Eastbound		
Time	Т	Арр	T	Арр	Int
2023-04-18 11:00AM	5	5	7	7	12
11:15AM	5	5	9	9	14
11:30AM	8	8	6	6	14
11:45AM	5	5	2	2	7
Total	23	23	24	24	47
% Approach	100%	-	100%	-	-
% Total	48.9%	48.9%	51.1%	51.1%	-
PHF	0.719	0.719	0.667	0.667	0.839
Lights	4	4	5	5	9
% Lights	17.4%	17.4%	20.8%	20.8%	19.1%
Articulated Trucks	15	15	1	1	16
% Articulated Trucks	65.2%	65.2%	4.2%	4.2%	34.0%
Buses and Single-Unit Trucks	4	4	18	18	22
% Buses and Single-Unit Trucks	17.4%	17.4%	75.0%	75.0%	46.8%

<sup>\*</sup>T: Thru

Tue Apr 18, 2023 Midday Peak (Apr 18 2023 11AM - 12 PM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks) All Channels ID: 1058741, Location: 41.70844, -87.580185



Tue Apr 18, 2023

PM Peak (Apr 18 2023 1:15PM - 2:15 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Channels

ID: 1058741, Location: 41.70844, -87.580185

Leg	East		West		
Direction	Westbound		Eastbound		
Time	Т	Арр		Арр	Int
2023-04-18 1:15PM	5	5	5	5	10
1:30PM	6	6	7	7	13
1:45PM	7	7	2	2	9
2:00PM	5	5	6	6	11
Tota	23	23	20	20	43
% Approach	100%	-	100%	-	-
% Tota	53.5%	53.5%	46.5%	46.5%	-
PHI	0.821	0.821	0.714	0.714	0.827
Light	8	8	1	1	9
% Lights	34.8%	34.8%	5.0%	5.0%	20.9%
Articulated Trucks	13	13	5	5	18
% Articulated Trucks	56.5%	56.5%	25.0%	25.0%	41.9%
Buses and Single-Unit Trucks	2	2	14	14	16
% Buses and Single-Unit Trucks	8.7%	8.7%	70.0%	70.0%	37.2%

<sup>\*</sup>T: Thru

Tue Apr 18, 2023 PM Peak (Apr 18 2023 1:15PM - 2:15 PM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks) All Channels ID: 1058741, Location: 41.70844, -87.580185



Wed Apr 19, 2023

AM Peak (Apr 19 2023 5:15AM - 6:15 AM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Channels

ID: 1058741, Location: 41.70844, -87.580185

Leg		East		West		
Direction		Westbound		Eastbound		
Time		T	Арр	T	Арр	Int
2023-04-19	5:15AM	7	7	7	7	14
	5:30AM	6	6	6	6	12
	5:45AM	4	4	6	6	10
	6:00AM	8	8	4	4	12
	Total	25	25	23	23	48
% <i>F</i>	Approach	100%	-	100%	-	-
	% Total	52.1%	52.1%	47.9%	47.9%	-
	PHF	0.781	0.781	0.821	0.821	0.857
	Lights	4	4	8	8	12
	% Lights	16.0%	16.0%	34.8%	34.8%	25.0%
Articulate	d Trucks	19	19	1	1	20
% Articulate	d Trucks	76.0%	76.0%	4.3%	4.3%	41.7%
Buses and Single-Uni	it Trucks	2	2	14	14	16
% Buses and Single-Uni	it Trucks	8.0%	8.0%	60.9%	60.9%	33.3%

<sup>\*</sup>T: Thru

Wed Apr 19, 2023 AM Peak (Apr 19 2023 5:15AM - 6:15 AM) - Overall Peak Hour All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1058741, Location: 41.70844, -87.580185





Fish Transportation Group Inc. 1950 N Washington Street Suite 211 Naperville, Illinois, United States 60563 708-660-0305

Count Name: 103rd St -Norfolk Southern North Site Code: Start Date: 04/18/2023 Page No: 1

**Direction (Westbound)** 

Start Time	Lights	Mediums	Articulated Trucks	Total
11:00 AM	4	4	15	23
12:00 PM	4	4	10	18
1:00 PM	8	2	11	21
2:00 PM	5	0	12	17
3:00 PM	5	2	10	17
4:00 PM	8	0	6	14
5:00 PM	6	0	3	9
6:00 PM	2	6	5	13
7:00 PM	1	0	6	7
8:00 PM	3	0	3	6
9:00 PM	1	0	7	8
10:00 PM	0	1	6	7
11:00 PM	3	1	8	12
04/19/2023 12:00 AM	1	1	6	8
1:00 AM	1	1	4	6
2:00 AM	1	0	4	5
3:00 AM	2	0	7	9
4:00 AM	1	2	14	17
5:00 AM	5	2	14	21
6:00 AM	2	2	13	17
7:00 AM	0	2	4	6
8:00 AM	2	1	8	11
9:00 AM	3	1	13	17
10:00 AM	3	1	13	17
Total	71	33	202	306
Total %	23.2	10.8	66.0	100.0
AM Times	5:00 AM	11:00 AM	11:00 AM	11:00 AM
AM Peaks	5	4	15	23
PM Times	4:00 PM	12:00 PM	2:00 PM	1:00 PM
PM Peaks	8	4	12	21



Fish Transportation Group Inc. 1950 N Washington Street Suite 211 Naperville, Illinois, United States 60563 708-660-0305

Count Name: 103rd St -Norfolk Southern North Site Code: Start Date: 04/18/2023 Page No: 2

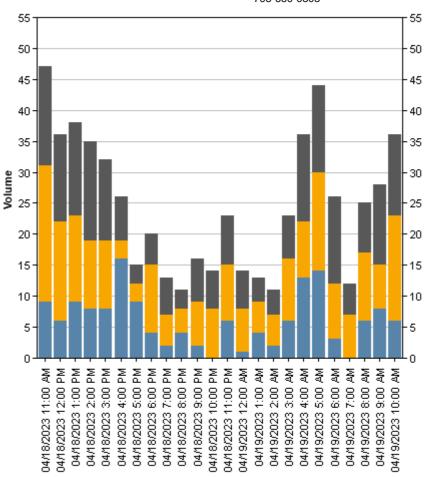
Direction (Eastbound)

Start Time	Lights	Mediums	Articulated Trucks	Total
11:00 AM	5	18	1	24
12:00 PM	2	12	4	18
1:00 PM	1	<del>·</del>	4	17
2:00 PM	3	11	4	18
3:00 PM	3	9	3	15
4:00 PM	8	. 3	1	12
5:00 PM	3	3	0	6
6:00 PM	2	5	0	7
7:00 PM	1	5	0	6
8:00 PM	1	4	0	5
9:00 PM	1	7	0	8
10:00 PM	0	7	0	7
11:00 PM	3	8	0	11
04/19/2023 12:00 AM	0	6	0	6
1:00 AM	3	4	0	7
2:00 AM	1	5	0	6
3:00 AM	4	10	0	14
4:00 AM	12	7	0	19
5:00 AM	9	14	0	23
6:00 AM	1	7	1	9
7:00 AM	0	5	1	6
8:00 AM	4	10	0	14
9:00 AM	5	6	0	11
10:00 AM	3	16	0	19
Total	75	194	19	288
Total %	26.0	67.4	6.6	100.0
AM Times	5:00 AM	11:00 AM	11:00 AM	11:00 AM
AM Peaks	9	18	1	24
PM Times	4:00 PM	12:00 PM	2:00 PM	1:00 PM
PM Peaks	8	12	4	17



Fish Transportation Group Inc.
1950 N Washington Street
Suite 211

Naperville, Illinois, United States 60563 708-660-0305

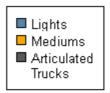


Time of Day

Count Name: 103rd St -Norfolk Southern North

Site Code:

Start Date: 04/18/2023 Page No: 3



Tue Apr 18, 2023 Full Length (11 AM-11 AM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks) All Channels

ID: 1058742, Location: 41.707359, -87.580681

		South		North	Leg
		Northbound		Southbound	Direction
	App I	T #	Арр	T	Time
154	81	81	73	73	2023-04-18 11:00AM
171	82	82	89	89	12:00PM
158	84	84	74	74	1:00PM
141	79	79	62	62	2:00PM
121	74	74	47	47	3:00PM
108	58	58	50	50	4:00PM
92	48	48	44	44	5:00PM
82	51	51	31	31	6:00PM
77	30	30	47	47	7:00PM
60	32	1	28	28	8:00PM
58	30	30	28	28	9:00PM
81	35	35	46	46	10:00PM
64	37	37	27	27	11:00PM
55	29	29	26	26	2023-04-19 12:00AM
49	28	28	21	21	1:00AM
55	26	26	29	29	2:00AM
87	40	40	47	47	3:00AM
84	36	36	48	48	4:00AM
117	40	40	77	77	5:00AM
106	43	43	63	63	6:00AM
69	35	35	34	34	7:00AM
141	58	58	83	83	8:00AM
97	36	36	61	61	9:00AM
140	69	69	71	71	10:00AM
2367	1161	1161 <b>1</b> 3	1206	1206	Total
	-	100%	-	100%	% Approach
	49.0%	49.0% <b>49</b> .	51.0%	51.0%	% Total
861	415	415	446	446	Lights
36.4%	35.7%	35.7% <b>35.</b>	37.0%	37.0%	% Lights
799	269	269	530	530	Articulated Trucks
33.8%	23.2%	23.2% <b>23.</b>	43.9%	43.9%	% Articulated Trucks
707	477	477	230	230	Buses and Single-Unit Trucks
29.9%	41.1%	41.1% <b>41</b> .	19.1%	19.1%	% Buses and Single-Unit Trucks

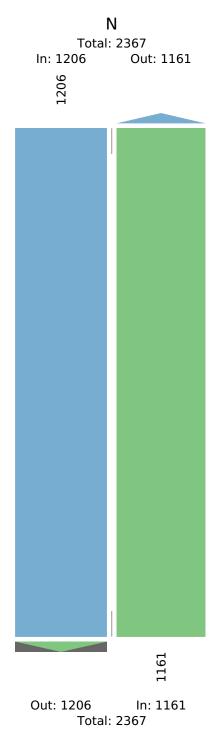
<sup>\*</sup>T: Thru

Tue Apr 18, 2023
Full Length (11 AM-11 AM (+1))
All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks) All Channels

ID: 1058742, Location: 41.707359, -87.580681

Provided by: Fish Transportation Group Inc. 1950 N Washington Street, Suite 211, Naperville, IL, 60563, US



S

Tue Apr 18, 2023 Midday Peak (Apr 18 2023 11:45AM - 12:45 PM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)
All Channels

ID: 1058742, Location: 41.707359, -87.580681

Leg		North		South		
Direction		Southbound		Northbound		
Time		Т	Арр	T	Арр	Int
	2023-04-18 11:45AM	21	21	25	25	46
	12:00PM	27	27	21	21	48
	12:15PM	20	20	18	18	38
	12:30PM	21	21	25	25	46
	Total	89	89	89	89	178
	% Approach	100%	-	100%	-	-
	% Total	50.0%	50.0%	50.0%	50.0%	-
	PHF	0.824	0.824	0.890	0.890	0.927
	Lights	21	21	28	28	49
	% Lights	23.6%	23.6%	31.5%	31.5%	27.5%
	Articulated Trucks	51	51	33	33	84
	% Articulated Trucks	57.3%	57.3%	37.1%	37.1%	47.2%
I	Buses and Single-Unit Trucks	17	17	28	28	45
% I	Suses and Single-Unit Trucks	19.1%	19.1%	31.5%	31.5%	25.3%

<sup>\*</sup>T: Thru

Tue Apr 18, 2023 Midday Peak (Apr 18 2023 11:45AM - 12:45 PM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks) All Channels

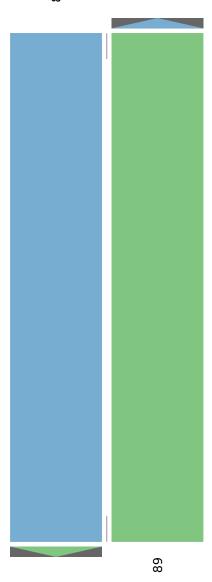
ID: 1058742, Location: 41.707359, -87.580681

N Total: 178 In: 89 Out: 89 Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US

89



Out: 89 In: 89 Total: 178 S

Tue Apr 18, 2023

PM Peak (Apr 18 2023 1:15PM - 2:15 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Channels

ID: 1058742, Location: 41.707359, -87.580681

Leg		North		South		
Direction		Southbound		Northbound		
Time		T	Арр	T	Арр	Int
	2023-04-18 1:15PM	16	16	23	23	39
	1:30PM	25	25	24	24	49
	1:45PM	20	20	25	25	45
	2:00PM	21	21	25	25	46
	Total	82	82	97	97	179
	% Approach	100%	-	100%	-	-
	% Total	45.8%	45.8%	54.2%	54.2%	-
	PHF	0.820	0.820	0.970	0.970	0.913
	Lights	28	28	36	36	64
	% Lights	34.1%	34.1%	37.1%	37.1%	35.8%
	Articulated Trucks	42	42	22	22	64
	% Articulated Trucks	51.2%	51.2%	22.7%	22.7%	35.8%
	Buses and Single-Unit Trucks	12	12	39	39	51
% I	Buses and Single-Unit Trucks	14.6%	14.6%	40.2%	40.2%	28.5%

<sup>\*</sup>T: Thru

Tue Apr 18, 2023

PM Peak (Apr 18 2023 1:15PM - 2:15 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks) All Channels

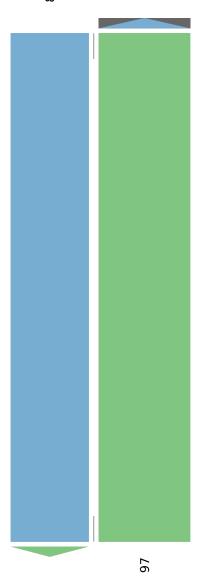
ID: 1058742, Location: 41.707359, -87.580681

N Total: 179 In: 82 Out: 97 Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US

82



Out: 82 In: 97 Total: 179 S

Wed Apr 19, 2023

AM Peak (Apr 19 2023 8AM - 9 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit

Trucks)

All Channels

ID: 1058742, Location: 41.707359, -87.580681

Leg		North		South		
Direction		Southbound		Northbound		
Time		T	Арр	T	Арр	Int
2023	-04-19 8:00AM	16	16	13	13	29
	8:15AM	21	21	13	13	34
	8:30AM	23	23	13	13	36
	8:45AM	23	23	19	19	42
	Total	83	83	58	58	141
	% Approach	100%	-	100%	-	-
	% Total	58.9%	58.9%	41.1%	41.1%	-
	PHF	0.902	0.902	0.763	0.763	0.839
	Lights	42	42	23	23	65
	% Lights	50.6%	50.6%	39.7%	39.7%	46.1%
Art	iculated Trucks	24	24	21	21	45
% Art	iculated Trucks	28.9%	28.9%	36.2%	36.2%	31.9%
Buses and Sing	le-Unit Trucks	17	17	14	14	31
% Buses and Sing	le-Unit Trucks	20.5%	20.5%	24.1%	24.1%	22.0%

<sup>\*</sup>T: Thru

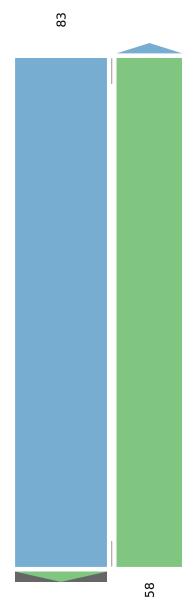
Wed Apr 19, 2023 AM Peak (Apr 19 2023 8AM - 9 AM) All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks) All Channels

ID: 1058742, Location: 41.707359, -87.580681

N Total: 141 In: 83 Out: 58 Provided by: Fish Transportation Group Inc.

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Out: 83 In: 58 Total: 141 S



Fish Transportation Group Inc. 1950 N Washington Street Suite 211 Naperville, Illinois, United States 60563 708-660-0305

Count Name: 103rd St -Doty Ave Site Code: Start Date: 04/18/2023 Page No: 1

**Direction (Southbound)** 

Start Time	Lights	Mediums	Articulated Trucks	Total
11:00 AM	25	11	37	73
12:00 PM	21	15	53	89
1:00 PM	19	12	43	74
2:00 PM	25	9	28	62
3:00 PM	12	12	23	47
4:00 PM	17	6	27	50
5:00 PM	19	4	21	44
6:00 PM	10	7	14	31
7:00 PM	26	9	12	47
8:00 PM	9	6	13	28
9:00 PM	12	9	7	28
10:00 PM	20	12	14	46
11:00 PM	8	6	13	27
04/19/2023 12:00 AM	10	4	12	26
1:00 AM	6	3	12	21
2:00 AM	3	8	18	29
3:00 AM	22	5	20	47
4:00 AM	21	10	17	48
5:00 AM	40	12	25	77
6:00 AM	38	8	17	63
7:00 AM	10	10	14	34
8:00 AM	42	17	24	83
9:00 AM	19	20	22	61
10:00 AM	12	15	44	71
Total	446	230	530	1206
Total %	37.0	19.1	43.9	100.0
AM Times	8:00 AM	10:00 AM	10:00 AM	11:00 AN
AM Peaks	42	15	44	73
PM Times	2:00 PM	12:00 PM	12:00 PM	12:00 PN
PM Peaks	25	15	53	89



Fish Transportation Group Inc. 1950 N Washington Street Suite 211 Naperville, Illinois, United States 60563 708-660-0305

Count Name: 103rd St -Doty Ave Site Code: Start Date: 04/18/2023 Page No: 2

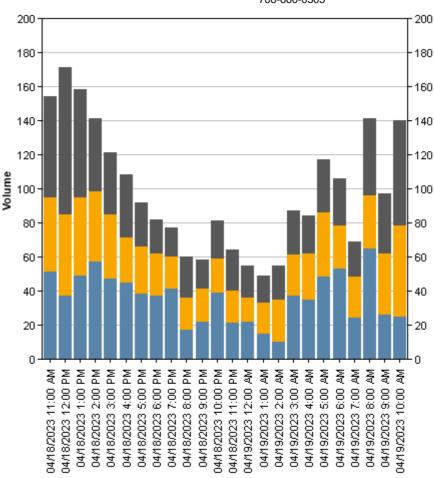
**Direction (Northbound)** 

Start Time	Lights	Mediums	Articulated Trucks	Total
11:00 AM	26	33	22	81
12:00 PM	16	33	33	82
1:00 PM	30	34	20	84
2:00 PM	32	32	15	79
3:00 PM	35	26	13	74
4:00 PM	28	20	10	58
5:00 PM	19	24	5	48
6:00 PM	27	18	6	51
7:00 PM	15	10	5	30
8:00 PM	8	13	11	32
9:00 PM	10	10	10	30
10:00 PM	19	8	8	35
11:00 PM	13	13	11	37
04/19/2023 12:00 AM	12	10	7	29
1:00 AM	9	15	4	28
2:00 AM	7	17	2	26
3:00 AM	15	19	6	40
4:00 AM	14	17	5	36
5:00 AM	8	26	6	40
6:00 AM	15	17	11	43
7:00 AM	14	14	7	35
8:00 AM	23	14	21	58
9:00 AM	7	16	13	36
10:00 AM	13	38	18	69
Total	415	477	269	1161
Total %	35.7	41.1	23.2	100.0
AM Times	8:00 AM	10:00 AM	10:00 AM	11:00 AN
AM Peaks	23	38	18	81
PM Times	2:00 PM	12:00 PM	12:00 PM	12:00 PM
PM Peaks	32	33	33	82



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Time of Day

Count Name: 103rd St -Doty Ave Site Code:

Start Date: 04/18/2023 Page No: 3

