

**CITY OF FALCON HEIGHTS**  
City Council Workshop  
City Hall  
2077 West Larpenteur Avenue

**AGENDA**  
April 7, 2021  
6:30 P.M.

**NOTE: THIS MEETING WILL BE HELD BY WEB CONFERENCE**

- A. CALL TO ORDER:
- B. ROLL CALL: ANDREWS \_\_\_ GUSTAFSON \_\_\_ LEEHY \_\_\_  
MIAZGA \_\_\_ WEHYEE \_\_\_  
  
STAFF PRESENT: THONGVANH \_\_\_ WALTER \_\_\_
- C. PRESENTATIONS:
- D. POLICY ITEMS:
  - 1. American Rescue Plan Act - Coronavirus Local Fiscal Recovery Fund (CLFRF)
  - 2. Stop Sign Update
  - 3. Police Services Update
  - 4. Fire Department Equipment Sale
  - 5. City Events and Facility Rentals
- E. INFORMATION/ANNOUNCEMENTS:
- F. ADJOURNMENT:

\*You can view the meeting by clicking the following Zoom link:  
<https://us02web.zoom.us/j/86741209264>

Toll Free Number 1-888-788-0099 or 1-877-853-5247

Webinar ID: 867 4120 9264

*DISCLAIMER: City Council Workshops are held monthly as an opportunity for Council Members to discuss policy topics in greater detail prior to a formal meeting where a public hearing may be held and/or action may be taken. Members of the public that would like to make a comment or ask questions about an item on the agenda for an upcoming workshop should send them to [mail@falconheights.org](mailto:mail@falconheights.org) prior to the meeting. Alternatively, time is regularly allotted for public comment during Regular City Council Meetings (typically 2nd and 4th Wednesdays) during the Community Forum.*

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## REQUEST FOR COUNCIL ACTION

<b>Meeting Date</b>	April 7, 2021
<b>Agenda Item</b>	Policy D1
<b>Attachment</b>	Memorandum
<b>Submitted By</b>	Sack Thongvanh, City Administrator

<b>Item</b>	American Rescue Plan Act of 2021 – Coronavirus Local Fiscal Recovery Fund (CLFRF)
<b>Description</b>	<p>President Biden signed the \$1.9 trillion American Rescue Plan on March 11. It included \$350 billion in federal aid for states, municipalities, counties, tribes and territories.</p> <p>The law also spells out a few other details about the aid to local governments, including that:</p> <ul style="list-style-type: none"> <li>• Funds will be released in two payments to local governments, with half following enactment and half paid 12 months following receipt of first payment.</li> <li>• There will be no minimum population threshold for payments, but non-entitlement distributions will be capped at 75% of the pre-pandemic city budget.</li> <li>• Funds can be used to replace lost revenue.</li> <li>• Funds can be transferred between jurisdictions or to nonprofit partners.</li> <li>• Investments in water, sewer, or broadband infrastructure.</li> <li>• Costs incurred by the City from March 3, 2021 to December 31, 2024 to respond to the health emergency or its negative economic impacts including:             <ul style="list-style-type: none"> <li>• Assistance to households, small businesses, and nonprofits to aid in the response to the public health emergency.</li> </ul> </li> <li>• There is an expenditure deadline of Dec. 31, 2024.</li> </ul> <p>Access to a webinar provided by LMC: <a href="https://www.lmc.org/learning-events/previous-events/recorded-webinars/road-to-recovery-series-coronavirus-local-fiscal-recovery-fund-introduction/">https://www.lmc.org/learning-events/previous-events/recorded-webinars/road-to-recovery-series-coronavirus-local-fiscal-recovery-fund-introduction/</a></p>

<b>Budget Impact</b>	To be determined. The League of MN Cities has estimated that Falcon Heights will receive about \$500,000.
<b>Attachment(s)</b>	<ul style="list-style-type: none"><li>• Memorandum from City Attorney</li></ul>
<b>Action(s) Requested</b>	No action required at this time. City Staff will continue to plan when the Council determines the use of the funds.

## MEMORANDUM

TO: SACK THONGVANH, CITY ADMINISTRATOR  
FROM: CITY ATTORNEY  
DATE: MARCH 25, 2021  
RE: AMERICA RESCUE PLAN: CORONAVIRUS LOCAL  
FISCAL RECOVERY FUND



CAMPBELL KNUTSON  
PROFESSIONAL ASSOCIATION

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### BACKGROUND

The recent passage of the America Rescue Plan Act of 2021 (“Act”) brings a new wave of federal dollars to every city in Minnesota. This memo summarizes the initial guidance surrounding the use of these dollars.

Any guidance on the subject is shrouded in uncertainty as the U.S. Department of Treasury has not yet released guidance relating to the Act. During the use of the CARES funds in 2020 the U.S. Treasury Department released a great deal of guidance on the use of CARES funds. The same volume of administrative guidance is expected to be released for this Act.

Within the America Rescue Plan is a section called the Coronavirus Local Fiscal Recovery Fund (CLFRF). For reference, the money distributed to cities for the 2020 CARES Act was called Coronavirus Relief Fund, aka CRF.

### DISTRIBUTION

CLRF is the vehicle that will deliver funds to cities and local governments. CLRF monies for cities with populations greater than 50,000 will come in two distributions directly from the U.S. Treasury:

1. The first distribution will likely occur by May 11, 2021.
2. The second distribution will likely occur before May 11, 2022.

Cities with less than 50,000 people will be receiving distributions by the State. The timing and methodology of the state’s distribution is less certain but it is estimated that the state will distribute funds by June 9, 2021.

Population data for the disbursements of funds are said to be based on a city’s 2019 population as determined by the U.S. Census Bureau.

### USES FOR THE FUNDS

The covered period for most of the CLFRF is from March 3, 2021 to December 31, 2024.

Eligible uses for CLFRF include the following:

- Costs incurred by the City from March 3, 2021 to December 31, 2024 to respond to the health emergency or its negative economic impacts including:
  - Assistance to households, small businesses, and nonprofits to aid in the response to the public health emergency.

- Aid to hard-hit industries such as tourism, travel and hospitality.
- Premium pay for essential workers.
  - An amount up to \$13 per hour that is paid to an eligible worker in addition to wages the worker otherwise received.
  - For all work performed by the eligible worker during the COVID-19 public health emergency.
  - May not exceed \$25,000 per eligible worker.
  - Can be grants paid to eligible employers who have employees who have done essential work.
- Revenue replacement for providing government services. Must compare revenue from FY 2019 for comparison.
- Investments in water, sewer, or broadband infrastructure.
- Eligible Transfers:
  - Nonprofit organizations.
  - Public benefit corporation involved in transporting passengers or cargo.
  - Special purpose unit of government (i.e. watershed district).
  - State.
  - Tribal organizations.

Non-eligible uses include:

- Using funds to directly or indirectly offset tax reductions or delay a tax/tax increase.
- Depositing funds into any pension fund.

The first non-eligible use is currently being challenged by a number of state attorneys general. The argument is primarily twofold: this provision limits states constitutional taxing authority and any expenditure for infrastructure purchases are certainly likely to lower taxes. The group of attorneys general have requested assurances from the Treasury Department that the CLFRF can in fact be used for tax relief.

If a city spends CLFRF money on non-eligible uses the city will be required to pay that money back.

### **HOW TO PREPARE**

Here are some ideas on what a city can do now to prepare for this CLFRF money:

- Maintain a report of revenue line items from FY 2019.
- Maintain a report of revenue line items from FY 2020 and FY 2021.
- Maintain a list of employers in the community who employ essential workers.
- Maintain a list of tourism, travel, and hospitality businesses in the community.
- Maintain a list of the City's planned, needed, or aspirational investments in water, sewer, or broadband infrastructure.



## REQUEST FOR COUNCIL ACTION

<b>Meeting Date</b>	April 7, 2021
<b>Agenda Item</b>	Policy D2
<b>Attachment</b>	Speed Data and Memorandum
<b>Submitted By</b>	Sack Thongvanh, City Administrator

<b>Item</b>	Stop Sign and Speed Limit Updates																																								
<b>Description</b>	<p>Members of the Council would like to revisit the process of erecting stop signs and how they can be requested by residents. In 2019, the Council received concerns and a request for a stop sign from residents in the Northhome Area stating unsafe conditions related to increased speeds and the need for a stop sign. Council directed staff to work with the City Engineer to conduct a Speed Study. An analysis of the data collected and best practices determined that a stop sign was not warranted at this time.</p> <p>Council then directed staff to research lowering the speed limits within the boundaries of Falcon Heights to 20 mph mirroring St. Paul and Minneapolis. During the last workshop, Council directed staff to conduct a survey to determine the interest on residents.</p> <p>A quick summary of the data;</p> <ul style="list-style-type: none"> <li>• Counts and speed were measured Wednesday July 15 through Monday July 20.</li> <li>• No noticeable differences in speed were seen between northbound traffic verse southbound traffic.</li> <li>• Traffic is down slightly (15%) on weekends but speeds remain consistent between weekdays and weekends.</li> <li>• Overall average (mean) speed is 19.3 mph</li> <li>• Average 85% (which is typically used to set speed limits) is 24.95 mph</li> <li>• Only 2.0% of traffic was going over the speed limit. Max speed observed was 34 MPH.</li> <li>• A summary by full days (partial days excluded) is below</li> </ul> <p>Pascal N of Iowa</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total Vehicles</th> <th>Mean</th> <th>Median</th> <th>85th</th> <th>90th</th> <th>95th</th> <th>% over limit</th> </tr> </thead> <tbody> <tr> <td>Thursday</td> <td style="text-align: center;">312</td> <td style="text-align: center;">19.3</td> <td style="text-align: center;">19.4</td> <td style="text-align: center;">25.5</td> <td style="text-align: center;">27.3</td> <td style="text-align: center;">29</td> <td style="text-align: center;">2.2%</td> </tr> <tr> <td>Friday</td> <td style="text-align: center;">308</td> <td style="text-align: center;">19.2</td> <td style="text-align: center;">20</td> <td style="text-align: center;">24.4</td> <td style="text-align: center;">25.1</td> <td style="text-align: center;">27.8</td> <td style="text-align: center;">1.0%</td> </tr> <tr> <td>Saturday</td> <td style="text-align: center;">262</td> <td style="text-align: center;">19.3</td> <td style="text-align: center;">20</td> <td style="text-align: center;">25.2</td> <td style="text-align: center;">26.9</td> <td style="text-align: center;">28.7</td> <td style="text-align: center;">1.5%</td> </tr> <tr> <td>Sunday</td> <td style="text-align: center;">270</td> <td style="text-align: center;">19.5</td> <td style="text-align: center;">20</td> <td style="text-align: center;">25.5</td> <td style="text-align: center;">27.4</td> <td style="text-align: center;">29.2</td> <td style="text-align: center;">3.0%</td> </tr> </tbody> </table>		Total Vehicles	Mean	Median	85th	90th	95th	% over limit	Thursday	312	19.3	19.4	25.5	27.3	29	2.2%	Friday	308	19.2	20	24.4	25.1	27.8	1.0%	Saturday	262	19.3	20	25.2	26.9	28.7	1.5%	Sunday	270	19.5	20	25.5	27.4	29.2	3.0%
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<b>Budget Impact</b>	The budget impact will be the cost of signage and public feedback.																																																																																																			
<b>Attachment(s)</b>	<ul style="list-style-type: none"> <li>• Speed Study Data for Pascal Street</li> <li>• Memorandum from City Attorney</li> </ul>																																																																																																			
<b>Action(s) Requested</b>	Staff is looking for direction on how to proceed.																																																																																																			



## Daily Northbound Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	16	5	1	0	0	0	0	0	0	0	0	0	0	0	24
15:00 - 15:59	5	4	5	0	1	0	0	0	0	0	0	0	0	0	0	15
16:00 - 16:59	0	5	8	4	0	0	0	0	0	0	0	0	0	0	0	17
17:00 - 17:59	7	10	7	1	1	1	0	0	0	0	0	0	0	0	0	27
18:00 - 18:59	1	2	3	1	0	1	0	0	0	0	0	0	0	0	0	8
19:00 - 19:59	8	6	6	2	0	0	0	0	0	0	0	0	0	0	0	22
20:00 - 20:59	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0	10
21:00 - 21:59	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
22:00 - 22:59	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	2	5	6	3	1	0	0	0	0	0	0	0	0	0	0	17
09:00 - 09:59	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	8
10:00 - 10:59	1	2	2	0	2	0	0	0	0	0	0	0	0	0	0	7
11:00 - 11:59	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	7
12:00 - 12:59	3	8	4	1	0	0	0	0	0	0	0	0	0	0	0	16
13:00 - 13:59	2	5	3	2	0	0	0	0	0	0	0	0	0	0	0	12
<b>Totals</b>	<b>43</b>	<b>78</b>	<b>56</b>	<b>20</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>204</b>
<b>Percent of Total</b>	<b>21.1</b>	<b>38.2</b>	<b>27.5</b>	<b>9.8</b>	<b>2.5</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>20.0</b>	<b>33.3</b>	<b>26.7</b>	<b>13.3</b>	<b>6.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>21.4</b>	<b>39.6</b>	<b>27.7</b>	<b>8.8</b>	<b>1.3</b>	<b>1.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.6 MPH
Mean Speed:	18.8 MPH	Percent in Ten Mile Pace:	65.7%	15th Percentile:	12.0 MPH
Median Speed:	18.8 MPH			90th Percentile:	26.5 MPH
Modal Speed:	17.5 MPH			95th Percentile:	29.1 MPH

## Daily Northbound Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
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16:00 - 16:59	6	6	4	1	0	0	0	0	0	0	0	0	0	0	0	17
17:00 - 17:59	3	2	6	3	0	0	0	0	0	0	0	0	0	0	0	14
18:00 - 18:59	1	1	2	3	0	0	0	0	0	0	0	0	0	0	0	7
19:00 - 19:59	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	3	5	2	1	0	0	0	0	0	0	0	0	0	0	0	11
21:00 - 21:59	3	2	0	1	1	0	0	0	0	0	0	0	0	0	0	7
22:00 - 22:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	4
07:00 - 07:59	1	4	3	1	0	0	0	0	0	0	0	0	0	0	0	9
08:00 - 08:59	2	3	3	1	0	0	0	0	0	0	0	0	0	0	0	9
09:00 - 09:59	2	4	2	1	1	0	0	0	0	0	0	0	0	0	0	10
10:00 - 10:59	1	4	6	2	1	0	0	0	0	0	0	0	0	0	0	14
11:00 - 11:59	1	4	8	5	0	0	0	0	0	0	0	0	0	0	0	18
12:00 - 12:59	2	7	6	0	0	0	0	0	0	0	0	0	0	0	0	15
13:00 - 13:59	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Totals</b>	<b>33</b>	<b>64</b>	<b>52</b>	<b>26</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180</b>
<b>Percent of Total</b>	<b>18.3</b>	<b>35.6</b>	<b>28.9</b>	<b>14.4</b>	<b>2.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>10.3</b>	<b>36.8</b>	<b>32.4</b>	<b>17.6</b>	<b>2.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>23.2</b>	<b>34.8</b>	<b>26.8</b>	<b>12.5</b>	<b>2.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.1 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.7 MPH
Mean Speed:	19.4 MPH	Percent in Ten Mile Pace:	64.4%	15th Percentile:	13.0 MPH
Median Speed:	19.4 MPH			90th Percentile:	27.4 MPH
Modal Speed:	17.5 MPH			95th Percentile:	29.1 MPH

## Daily Northbound Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	5	7	0	0	0	0	0	0	0	0	0	0	0	0	15
15:00 - 15:59	1	7	4	2	0	0	0	0	0	0	0	0	0	0	0	14
16:00 - 16:59	2	4	6	2	0	0	0	0	0	0	0	0	0	0	0	14
17:00 - 17:59	5	8	8	0	0	0	0	0	0	0	0	0	0	0	0	21
18:00 - 18:59	2	5	7	1	0	0	0	0	0	0	0	0	0	0	0	15
19:00 - 19:59	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	7
21:00 - 21:59	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
22:00 - 22:59	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00 - 23:59	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
08:00 - 08:59	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	6
09:00 - 09:59	2	3	5	2	0	0	0	0	0	0	0	0	0	0	0	12
10:00 - 10:59	6	3	5	0	0	0	0	0	0	0	0	0	0	0	0	14
11:00 - 11:59	1	2	4	2	1	0	0	0	0	0	0	0	0	0	0	10
12:00 - 12:59	3	1	7	2	0	0	0	0	0	0	0	0	0	0	0	13
13:00 - 13:59	5	6	4	2	0	0	0	0	0	0	0	0	0	0	0	17
<b>Totals</b>	<b>38</b>	<b>54</b>	<b>73</b>	<b>16</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>182</b>
<b>Percent of Total</b>	<b>20.9</b>	<b>29.7</b>	<b>40.1</b>	<b>8.8</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>21.6</b>	<b>27.5</b>	<b>39.2</b>	<b>9.8</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>20.6</b>	<b>30.5</b>	<b>40.5</b>	<b>8.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.8 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.3 MPH
Mean Speed:	18.9 MPH	Percent in Ten Mile Pace:	69.8%	15th Percentile:	12.1 MPH
Median Speed:	19.9 MPH			90th Percentile:	24.9 MPH
Modal Speed:	22.5 MPH			95th Percentile:	27.3 MPH

## Daily Northbound Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	6	4	3	0	0	0	0	0	0	0	0	0	0	0	0	13
15:00 - 15:59	2	2	5	0	0	0	0	0	0	0	0	0	0	0	0	9
16:00 - 16:59	1	2	3	0	1	0	0	0	0	0	0	0	0	0	0	7
17:00 - 17:59	3	3	5	1	0	0	0	0	0	0	0	0	0	0	0	12
18:00 - 18:59	2	4	7	1	0	0	0	0	0	0	0	0	0	0	0	14
19:00 - 19:59	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	6
20:00 - 20:59	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5
21:00 - 21:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22:00 - 22:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	5
09:00 - 09:59	0	6	1	2	0	0	0	0	0	0	0	0	0	0	0	9
10:00 - 10:59	2	1	7	1	0	0	0	0	0	0	0	0	0	0	0	11
11:00 - 11:59	3	4	10	0	0	0	0	0	0	0	0	0	0	0	0	17
12:00 - 12:59	2	6	7	2	0	0	0	0	0	0	0	0	0	0	0	17
13:00 - 13:59	1	2	5	1	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>25</b>	<b>43</b>	<b>60</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>143</b>
<b>Percent of Total</b>	<b>17.5</b>	<b>30.1</b>	<b>42.0</b>	<b>9.1</b>	<b>1.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>15.2</b>	<b>26.1</b>	<b>47.8</b>	<b>10.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>18.6</b>	<b>32.0</b>	<b>39.2</b>	<b>8.2</b>	<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.7 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.4 MPH
Mean Speed:	19.4 MPH	Percent in Ten Mile Pace:	72.0%	15th Percentile:	13.4 MPH
Median Speed:	20.3 MPH			90th Percentile:	25.1 MPH
Modal Speed:	22.5 MPH			95th Percentile:	27.8 MPH

## Daily Northbound Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	1	2	6	1	1	0	0	0	0	0	0	0	0	0	0	11
15:00 - 15:59	2	3	6	0	0	0	0	0	0	0	0	0	0	0	0	11
16:00 - 16:59	2	7	3	1	0	0	0	0	0	0	0	0	0	0	0	13
17:00 - 17:59	1	3	5	2	0	0	0	0	0	0	0	0	0	0	0	11
18:00 - 18:59	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19:00 - 19:59	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	8
20:00 - 20:59	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	8
21:00 - 21:59	0	3	2	3	0	0	0	0	0	0	0	0	0	0	0	8
22:00 - 22:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	4
07:00 - 07:59	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	5
08:00 - 08:59	1	3	1	1	1	0	0	0	0	0	0	0	0	0	0	7
09:00 - 09:59	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	9
10:00 - 10:59	4	2	5	1	0	0	0	0	0	0	0	0	0	0	0	12
11:00 - 11:59	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	6
12:00 - 12:59	2	4	2	1	3	0	0	0	0	0	0	0	0	0	0	12
13:00 - 13:59	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>26</b>	<b>40</b>	<b>52</b>	<b>17</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140</b>
<b>Percent of Total</b>	<b>18.6</b>	<b>28.6</b>	<b>37.1</b>	<b>12.1</b>	<b>3.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>20.9</b>	<b>18.6</b>	<b>48.8</b>	<b>9.3</b>	<b>2.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>17.5</b>	<b>33.0</b>	<b>32.0</b>	<b>13.4</b>	<b>4.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.2 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.1 MPH
Mean Speed:	19.7 MPH	Percent in Ten Mile Pace:	65.7%	15th Percentile:	12.9 MPH
Median Speed:	20.3 MPH			90th Percentile:	27.2 MPH
Modal Speed:	22.5 MPH			95th Percentile:	29.3 MPH

## Daily Southbound Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	4	4	1	0	0	0	0	0	0	0	0	0	0	0	12
15:00 - 15:59	2	6	6	2	0	0	0	0	0	0	0	0	0	0	0	16
16:00 - 16:59	0	4	8	1	0	0	0	0	0	0	0	0	0	0	0	13
17:00 - 17:59	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0	9
18:00 - 18:59	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	4
19:00 - 19:59	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	9
20:00 - 20:59	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	6
21:00 - 21:59	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00 - 23:59	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
09:00 - 09:59	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	6
10:00 - 10:59	1	2	4	3	0	0	0	0	0	0	0	0	0	0	0	10
11:00 - 11:59	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	7
12:00 - 12:59	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	9
13:00 - 13:59	3	3	4	3	0	0	0	0	0	0	0	0	0	0	0	13
<b>Totals</b>	<b>18</b>	<b>49</b>	<b>46</b>	<b>17</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>133</b>
<b>Percent of Total</b>	<b>13.5</b>	<b>36.8</b>	<b>34.6</b>	<b>12.8</b>	<b>2.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>15.2</b>	<b>30.3</b>	<b>30.3</b>	<b>21.2</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>13.0</b>	<b>39.0</b>	<b>36.0</b>	<b>10.0</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.6 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.9 MPH
Mean Speed:	19.8 MPH	Percent in Ten Mile Pace:	71.4%	15th Percentile:	15.1 MPH
Median Speed:	19.9 MPH			90th Percentile:	26.8 MPH
Modal Speed:	17.5 MPH			95th Percentile:	28.8 MPH

## Daily Southbound Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	0	2	2	0	0	0	0	0	0	0	0	0	0	0	7
15:00 - 15:59	1	4	4	2	0	0	0	0	0	0	0	0	0	0	0	11
16:00 - 16:59	2	5	4	0	0	0	0	0	0	0	0	0	0	0	0	11
17:00 - 17:59	4	7	6	1	1	0	0	0	0	0	0	0	0	0	0	19
18:00 - 18:59	3	1	3	2	1	0	0	0	0	0	0	0	0	0	0	10
19:00 - 19:59	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	5
20:00 - 20:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
21:00 - 21:59	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	6
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
09:00 - 09:59	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	5
10:00 - 10:59	2	6	3	1	0	0	0	0	0	0	0	0	0	0	0	12
11:00 - 11:59	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	1	4	3	2	0	0	0	0	0	0	0	0	0	0	0	10
13:00 - 13:59	2	4	0	2	0	0	0	0	0	0	0	0	0	0	0	8
<b>Totals</b>	<b>30</b>	<b>40</b>	<b>41</b>	<b>19</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>132</b>
<b>Percent of Total</b>	<b>22.7</b>	<b>30.3</b>	<b>31.1</b>	<b>14.4</b>	<b>1.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>29.7</b>	<b>32.4</b>	<b>29.7</b>	<b>8.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>20.0</b>	<b>29.5</b>	<b>31.6</b>	<b>16.8</b>	<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.2 MPH
Mean Speed:	19.0 MPH	Percent in Ten Mile Pace:	61.4%	15th Percentile:	11.4 MPH
Median Speed:	19.4 MPH			90th Percentile:	26.9 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.7 MPH

## Daily Southbound Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	8
15:00 - 15:59	1	3	3	1	1	0	0	0	0	0	0	0	0	0	0	9
16:00 - 16:59	3	5	1	1	0	0	0	0	0	0	0	0	0	0	0	10
17:00 - 17:59	1	4	5	2	0	0	0	0	0	0	0	0	0	0	0	12
18:00 - 18:59	1	3	9	2	0	0	0	0	0	0	0	0	0	0	0	15
19:00 - 19:59	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	2	5	2	1	0	0	0	0	0	0	0	0	0	0	0	10
21:00 - 21:59	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6
22:00 - 22:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 - 07:59	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4
08:00 - 08:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
09:00 - 09:59	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	7
10:00 - 10:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
11:00 - 11:59	2	0	5	0	1	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	0	3	6	2	0	0	0	0	0	0	0	0	0	0	0	11
13:00 - 13:59	2	6	0	1	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>20</b>	<b>41</b>	<b>50</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>
<b>Percent of Total</b>	<b>15.9</b>	<b>32.5</b>	<b>39.7</b>	<b>10.3</b>	<b>1.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>25.9</b>	<b>25.9</b>	<b>40.7</b>	<b>3.7</b>	<b>3.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>13.1</b>	<b>34.3</b>	<b>39.4</b>	<b>12.1</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.6 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.6 MPH
Mean Speed:	19.6 MPH	Percent in Ten Mile Pace:	72.2%	15th Percentile:	14.2 MPH
Median Speed:	20.1 MPH			90th Percentile:	25.7 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.2 MPH



## Daily Southbound Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	4	2	3	1	0	0	0	0	0	0	0	0	0	0	0	10
15:00 - 15:59	2	3	2	3	1	0	0	0	0	0	0	0	0	0	0	11
16:00 - 16:59	3	7	1	0	0	0	0	0	0	0	0	0	0	0	0	11
17:00 - 17:59	6	2	3	3	0	0	0	0	0	0	0	0	0	0	0	14
18:00 - 18:59	2	1	4	2	0	0	0	0	0	0	0	0	0	0	0	9
19:00 - 19:59	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5
20:00 - 20:59	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
21:00 - 21:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
22:00 - 22:59	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
08:00 - 08:59	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3
09:00 - 09:59	2	2	4	1	0	0	0	0	0	0	0	0	0	0	0	9
10:00 - 10:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
11:00 - 11:59	1	1	3	3	0	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	12
13:00 - 13:59	2	4	2	2	0	0	0	0	0	0	0	0	0	0	0	10
<b>Totals</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>24</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>119</b>
<b>Percent of Total</b>	<b>26.1</b>	<b>26.1</b>	<b>26.1</b>	<b>20.2</b>	<b>1.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>23.3</b>	<b>23.3</b>	<b>30.0</b>	<b>23.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>27.0</b>	<b>27.0</b>	<b>24.7</b>	<b>19.1</b>	<b>2.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.8 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	26.6 MPH
Mean Speed:	19.1 MPH	Percent in Ten Mile Pace:	52.1%	15th Percentile:	10.6 MPH
Median Speed:	19.5 MPH			90th Percentile:	27.8 MPH
Modal Speed:	10.0 MPH			95th Percentile:	29.1 MPH

## Daily Southbound Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	3	8	1	0	0	0	0	0	0	0	0	0	0	0	15
15:00 - 15:59	3	6	4	2	0	0	0	0	0	0	0	0	0	0	0	15
16:00 - 16:59	2	8	1	2	0	0	0	0	0	0	0	0	0	0	0	13
17:00 - 17:59	2	5	2	1	0	0	0	0	0	0	0	0	0	0	0	10
18:00 - 18:59	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	7
19:00 - 19:59	2	1	3	1	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	2	2	0	1	2	0	0	0	0	0	0	0	0	0	0	7
21:00 - 21:59	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4
22:00 - 22:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	4
08:00 - 08:59	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
09:00 - 09:59	1	0	3	1	1	0	0	0	0	0	0	0	0	0	0	6
10:00 - 10:59	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	4
11:00 - 11:59	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	3	3	2	2	0	0	0	0	0	0	0	0	0	0	0	10
13:00 - 13:59	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>27</b>	<b>41</b>	<b>39</b>	<b>20</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130</b>
<b>Percent of Total</b>	<b>20.8</b>	<b>31.5</b>	<b>30.0</b>	<b>15.4</b>	<b>2.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>21.4</b>	<b>21.4</b>	<b>35.7</b>	<b>17.9</b>	<b>3.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>20.6</b>	<b>34.3</b>	<b>28.4</b>	<b>14.7</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.8 MPH
Mean Speed:	19.3 MPH	Percent in Ten Mile Pace:	61.5%	15th Percentile:	12.0 MPH
Median Speed:	19.6 MPH			90th Percentile:	27.4 MPH
Modal Speed:	17.5 MPH			95th Percentile:	29.0 MPH

## Daily Total Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	5	20	9	2	0	0	0	0	0	0	0	0	0	0	0	36
15:00 - 15:59	7	10	11	2	1	0	0	0	0	0	0	0	0	0	0	31
16:00 - 16:59	0	9	16	5	0	0	0	0	0	0	0	0	0	0	0	30
17:00 - 17:59	7	14	12	1	1	1	0	0	0	0	0	0	0	0	0	36
18:00 - 18:59	1	3	5	1	1	1	0	0	0	0	0	0	0	0	0	12
19:00 - 19:59	10	9	10	2	0	0	0	0	0	0	0	0	0	0	0	31
20:00 - 20:59	4	9	2	1	0	0	0	0	0	0	0	0	0	0	0	16
21:00 - 21:59	0	6	0	2	0	0	0	0	0	0	0	0	0	0	0	8
22:00 - 22:59	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	8
23:00 - 23:59	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4
07:00 - 07:59	1	2	0	2	1	0	0	0	0	0	0	0	0	0	0	6
08:00 - 08:59	2	7	6	4	1	0	0	0	0	0	0	0	0	0	0	20
09:00 - 09:59	3	5	5	1	0	0	0	0	0	0	0	0	0	0	0	14
10:00 - 10:59	2	4	6	3	2	0	0	0	0	0	0	0	0	0	0	17
11:00 - 11:59	3	5	4	2	0	0	0	0	0	0	0	0	0	0	0	14
12:00 - 12:59	5	12	6	2	0	0	0	0	0	0	0	0	0	0	0	25
13:00 - 13:59	5	8	7	5	0	0	0	0	0	0	0	0	0	0	0	25
<b>Totals</b>	<b>61</b>	<b>127</b>	<b>102</b>	<b>37</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>337</b>
<b>Percent of Total</b>	<b>18.1</b>	<b>37.7</b>	<b>30.3</b>	<b>11.0</b>	<b>2.4</b>	<b>0.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>17.9</b>	<b>32.1</b>	<b>28.2</b>	<b>16.7</b>	<b>5.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>18.1</b>	<b>39.4</b>	<b>30.9</b>	<b>9.3</b>	<b>1.5</b>	<b>0.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.1 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.8 MPH
Mean Speed:	19.2 MPH	Percent in Ten Mile Pace:	68.0%	15th Percentile:	13.2 MPH
Median Speed:	19.2 MPH			90th Percentile:	26.7 MPH
Modal Speed:	17.5 MPH			95th Percentile:	29.0 MPH

## Daily Total Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	4	8	4	4	1	0	0	0	0	0	0	0	0	0	0	21
15:00 - 15:59	3	8	9	4	1	0	0	0	0	0	0	0	0	0	0	25
16:00 - 16:59	8	11	8	1	0	0	0	0	0	0	0	0	0	0	0	28
17:00 - 17:59	7	9	12	4	1	0	0	0	0	0	0	0	0	0	0	33
18:00 - 18:59	4	2	5	5	1	0	0	0	0	0	0	0	0	0	0	17
19:00 - 19:59	4	3	3	2	0	0	0	0	0	0	0	0	0	0	0	12
20:00 - 20:59	4	6	3	1	0	0	0	0	0	0	0	0	0	0	0	14
21:00 - 21:59	4	2	3	2	1	0	0	0	0	0	0	0	0	0	0	12
22:00 - 22:59	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	7
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	3	1	2	0	0	0	0	0	0	0	0	0	0	0	6
07:00 - 07:59	3	5	3	1	0	0	0	0	0	0	0	0	0	0	0	12
08:00 - 08:59	5	3	5	1	0	0	0	0	0	0	0	0	0	0	0	14
09:00 - 09:59	2	5	5	2	1	0	0	0	0	0	0	0	0	0	0	15
10:00 - 10:59	3	10	9	3	1	0	0	0	0	0	0	0	0	0	0	26
11:00 - 11:59	5	6	10	5	0	0	0	0	0	0	0	0	0	0	0	26
12:00 - 12:59	3	11	9	2	0	0	0	0	0	0	0	0	0	0	0	25
13:00 - 13:59	4	6	1	2	0	0	0	0	0	0	0	0	0	0	0	13
<b>Totals</b>	<b>63</b>	<b>104</b>	<b>93</b>	<b>45</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>312</b>
<b>Percent of Total</b>	<b>20.2</b>	<b>33.3</b>	<b>29.8</b>	<b>14.4</b>	<b>2.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>17.1</b>	<b>35.2</b>	<b>31.4</b>	<b>14.3</b>	<b>1.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>21.7</b>	<b>32.4</b>	<b>29.0</b>	<b>14.5</b>	<b>2.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.2 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.5 MPH
Mean Speed:	19.3 MPH	Percent in Ten Mile Pace:	63.1%	15th Percentile:	12.3 MPH
Median Speed:	19.4 MPH			90th Percentile:	27.3 MPH
Modal Speed:	17.5 MPH			95th Percentile:	29.0 MPH

## Daily Total Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	6	13	1	0	0	0	0	0	0	0	0	0	0	0	23
15:00 - 15:59	2	10	7	3	1	0	0	0	0	0	0	0	0	0	0	23
16:00 - 16:59	5	9	7	3	0	0	0	0	0	0	0	0	0	0	0	24
17:00 - 17:59	6	12	13	2	0	0	0	0	0	0	0	0	0	0	0	33
18:00 - 18:59	3	8	16	3	0	0	0	0	0	0	0	0	0	0	0	30
19:00 - 19:59	4	2	7	1	0	0	0	0	0	0	0	0	0	0	0	14
20:00 - 20:59	3	9	4	1	0	0	0	0	0	0	0	0	0	0	0	17
21:00 - 21:59	2	2	4	1	0	0	0	0	0	0	0	0	0	0	0	9
22:00 - 22:59	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
23:00 - 23:59	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
00:00 - 00:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	5	3	0	0	0	0	0	0	0	0	0	0	0	0	9
08:00 - 08:59	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	9
09:00 - 09:59	5	5	6	3	0	0	0	0	0	0	0	0	0	0	0	19
10:00 - 10:59	6	4	6	0	0	0	0	0	0	0	0	0	0	0	0	16
11:00 - 11:59	3	2	9	2	2	0	0	0	0	0	0	0	0	0	0	18
12:00 - 12:59	3	4	13	4	0	0	0	0	0	0	0	0	0	0	0	24
13:00 - 13:59	7	12	4	3	0	0	0	0	0	0	0	0	0	0	0	26
<b>Totals</b>	<b>58</b>	<b>95</b>	<b>123</b>	<b>29</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>308</b>
<b>Percent of Total</b>	<b>18.8</b>	<b>30.8</b>	<b>39.9</b>	<b>9.4</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>23.1</b>	<b>26.9</b>	<b>39.7</b>	<b>7.7</b>	<b>2.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>17.4</b>	<b>32.2</b>	<b>40.0</b>	<b>10.0</b>	<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.7 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.4 MPH
Mean Speed:	19.2 MPH	Percent in Ten Mile Pace:	70.8%	15th Percentile:	12.9 MPH
Median Speed:	20.0 MPH			90th Percentile:	25.1 MPH
Modal Speed:	22.5 MPH			95th Percentile:	27.8 MPH

## Daily Total Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	10	6	6	1	0	0	0	0	0	0	0	0	0	0	0	23
15:00 - 15:59	4	5	7	3	1	0	0	0	0	0	0	0	0	0	0	20
16:00 - 16:59	4	9	4	0	1	0	0	0	0	0	0	0	0	0	0	18
17:00 - 17:59	9	5	8	4	0	0	0	0	0	0	0	0	0	0	0	26
18:00 - 18:59	4	5	11	3	0	0	0	0	0	0	0	0	0	0	0	23
19:00 - 19:59	1	2	5	3	0	0	0	0	0	0	0	0	0	0	0	11
20:00 - 20:59	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	8
21:00 - 21:59	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	4
22:00 - 22:59	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00 - 23:59	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
07:00 - 07:59	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	5
08:00 - 08:59	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	8
09:00 - 09:59	2	8	5	3	0	0	0	0	0	0	0	0	0	0	0	18
10:00 - 10:59	3	2	8	1	0	0	0	0	0	0	0	0	0	0	0	14
11:00 - 11:59	4	5	13	3	0	0	0	0	0	0	0	0	0	0	0	25
12:00 - 12:59	5	9	10	5	0	0	0	0	0	0	0	0	0	0	0	29
13:00 - 13:59	3	6	7	3	0	0	0	0	0	0	0	0	0	0	0	19
<b>Totals</b>	<b>56</b>	<b>74</b>	<b>91</b>	<b>37</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>262</b>
<b>Percent of Total</b>	<b>21.4</b>	<b>28.2</b>	<b>34.7</b>	<b>14.1</b>	<b>1.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>18.4</b>	<b>25.0</b>	<b>40.8</b>	<b>15.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>22.6</b>	<b>29.6</b>	<b>32.3</b>	<b>13.4</b>	<b>2.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.2 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.2 MPH
Mean Speed:	19.3 MPH	Percent in Ten Mile Pace:	63.0%	15th Percentile:	11.9 MPH
Median Speed:	20.0 MPH			90th Percentile:	26.9 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.7 MPH

## Daily Total Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 1, 9-28-16

Location: PASCAL 75 FEET NORTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	4	5	14	2	1	0	0	0	0	0	0	0	0	0	0	26
15:00 - 15:59	5	9	10	2	0	0	0	0	0	0	0	0	0	0	0	26
16:00 - 16:59	4	15	4	3	0	0	0	0	0	0	0	0	0	0	0	26
17:00 - 17:59	3	8	7	3	0	0	0	0	0	0	0	0	0	0	0	21
18:00 - 18:59	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	11
19:00 - 19:59	3	4	7	1	0	0	0	0	0	0	0	0	0	0	0	15
20:00 - 20:59	4	5	1	3	2	0	0	0	0	0	0	0	0	0	0	15
21:00 - 21:59	0	6	3	3	0	0	0	0	0	0	0	0	0	0	0	12
22:00 - 22:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00 - 23:59	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	5
07:00 - 07:59	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0	9
08:00 - 08:59	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	10
09:00 - 09:59	1	1	11	1	1	0	0	0	0	0	0	0	0	0	0	15
10:00 - 10:59	5	2	6	3	0	0	0	0	0	0	0	0	0	0	0	16
11:00 - 11:59	4	3	5	2	0	0	0	0	0	0	0	0	0	0	0	14
12:00 - 12:59	5	7	4	3	3	0	0	0	0	0	0	0	0	0	0	22
13:00 - 13:59	4	4	6	4	0	0	0	0	0	0	0	0	0	0	0	18
<b>Totals</b>	<b>53</b>	<b>81</b>	<b>91</b>	<b>37</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>270</b>
<b>Percent of Total</b>	<b>19.6</b>	<b>30.0</b>	<b>33.7</b>	<b>13.7</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>21.1</b>	<b>19.7</b>	<b>43.7</b>	<b>12.7</b>	<b>2.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>19.1</b>	<b>33.7</b>	<b>30.2</b>	<b>14.1</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.2 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.5 MPH
Mean Speed:	19.5 MPH	Percent in Ten Mile Pace:	63.7%	15th Percentile:	12.5 MPH
Median Speed:	20.0 MPH			90th Percentile:	27.4 MPH
Modal Speed:	22.5 MPH			95th Percentile:	29.2 MPH

## Daily Southbound Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	3	5	1	0	0	0	0	0	0	0	0	0	0	0	12
15:00 - 15:59	4	4	5	0	0	1	0	0	0	0	0	0	0	0	0	14
16:00 - 16:59	1	5	7	3	0	0	0	0	0	0	0	0	0	0	0	16
17:00 - 17:59	6	10	6	2	0	0	0	0	0	0	0	0	0	0	0	24
18:00 - 18:59	2	1	3	2	1	0	0	0	0	0	0	0	0	0	0	9
19:00 - 19:59	5	5	8	1	0	0	0	0	0	0	0	0	0	0	0	19
20:00 - 20:59	4	1	4	0	0	0	0	0	0	0	0	0	0	0	0	9
21:00 - 21:59	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
22:00 - 22:59	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	3	3	6	4	0	0	0	0	0	0	0	0	0	0	0	16
09:00 - 09:59	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	6
10:00 - 10:59	1	4	1	0	2	0	0	0	0	0	0	0	0	0	0	8
11:00 - 11:59	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	9
12:00 - 12:59	3	5	4	1	0	0	0	0	0	0	0	0	0	0	0	13
13:00 - 13:59	1	4	4	2	0	0	0	0	0	0	0	0	0	0	0	11
<b>Totals</b>	<b>40</b>	<b>54</b>	<b>59</b>	<b>20</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>177</b>
<b>Percent of Total</b>	<b>22.6</b>	<b>30.5</b>	<b>33.3</b>	<b>11.3</b>	<b>1.7</b>	<b>0.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>20.9</b>	<b>32.6</b>	<b>25.6</b>	<b>16.3</b>	<b>4.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>23.1</b>	<b>29.9</b>	<b>35.8</b>	<b>9.7</b>	<b>0.7</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.7 MPH
Mean Speed:	19.0 MPH	Percent in Ten Mile Pace:	63.8%	15th Percentile:	11.5 MPH
Median Speed:	19.4 MPH			90th Percentile:	26.5 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.7 MPH



## Daily Southbound Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	5	4	3	2	0	0	0	0	0	0	0	0	0	0	0	14
15:00 - 15:59	3	5	6	1	0	0	0	0	0	0	0	0	0	0	0	15
16:00 - 16:59	3	9	3	1	0	0	0	0	0	0	0	0	0	0	0	16
17:00 - 17:59	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	14
18:00 - 18:59	1	2	1	3	0	0	0	0	0	0	0	0	0	0	0	7
19:00 - 19:59	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	5
20:00 - 20:59	1	4	4	1	0	0	0	0	0	0	0	0	0	0	0	10
21:00 - 21:59	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
07:00 - 07:59	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	8
08:00 - 08:59	1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	9
09:00 - 09:59	1	2	4	0	1	0	0	0	0	0	0	0	0	0	0	8
10:00 - 10:59	0	4	7	1	1	0	0	0	0	0	0	0	0	0	0	13
11:00 - 11:59	0	4	6	4	0	0	0	0	0	0	0	0	0	0	0	14
12:00 - 12:59	2	6	7	1	0	0	0	0	0	0	0	0	0	0	0	16
13:00 - 13:59	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Totals</b>	<b>26</b>	<b>62</b>	<b>61</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>
<b>Percent of Total</b>	<b>15.4</b>	<b>36.7</b>	<b>36.1</b>	<b>10.7</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>10.0</b>	<b>31.7</b>	<b>43.3</b>	<b>11.7</b>	<b>3.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>18.3</b>	<b>39.4</b>	<b>32.1</b>	<b>10.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.5 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.5 MPH
Mean Speed:	19.4 MPH	Percent in Ten Mile Pace:	72.8%	15th Percentile:	14.6 MPH
Median Speed:	19.7 MPH			90th Percentile:	25.7 MPH
Modal Speed:	17.5 MPH			95th Percentile:	28.1 MPH

## Daily Southbound Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	7	5	0	0	0	0	0	0	0	0	0	0	0	0	14
15:00 - 15:59	3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	14
16:00 - 16:59	4	6	3	1	1	0	0	0	0	0	0	0	0	0	0	15
17:00 - 17:59	2	8	7	0	0	0	0	0	0	0	0	0	0	0	0	17
18:00 - 18:59	3	8	4	1	0	0	0	0	0	0	0	0	0	0	0	16
19:00 - 19:59	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	8
21:00 - 21:59	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
22:00 - 22:59	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	0	4	1	2	0	0	0	0	0	0	0	0	0	0	0	7
09:00 - 09:59	5	3	5	2	0	0	0	0	0	0	0	0	0	0	0	15
10:00 - 10:59	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	13
11:00 - 11:59	0	4	3	1	1	0	0	0	0	0	0	0	0	0	0	9
12:00 - 12:59	0	4	6	2	0	0	0	0	0	0	0	0	0	0	0	12
13:00 - 13:59	1	4	4	1	0	0	0	0	0	0	0	0	0	0	0	10
<b>Totals</b>	<b>32</b>	<b>65</b>	<b>60</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>170</b>
<b>Percent of Total</b>	<b>18.8</b>	<b>38.2</b>	<b>35.3</b>	<b>6.5</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>24.0</b>	<b>32.0</b>	<b>32.0</b>	<b>10.0</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>16.7</b>	<b>40.8</b>	<b>36.7</b>	<b>5.0</b>	<b>0.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.5 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	23.9 MPH
Mean Speed:	18.7 MPH	Percent in Ten Mile Pace:	73.5%	15th Percentile:	12.8 MPH
Median Speed:	19.0 MPH			90th Percentile:	24.6 MPH
Modal Speed:	17.5 MPH			95th Percentile:	26.8 MPH

## Daily Southbound Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	7	3	2	0	0	0	0	0	0	0	0	0	0	0	0	12
15:00 - 15:59	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	6
16:00 - 16:59	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	6
17:00 - 17:59	2	1	5	1	0	0	0	0	0	0	0	0	0	0	0	9
18:00 - 18:59	2	8	5	0	0	0	0	0	0	0	0	0	0	0	0	15
19:00 - 19:59	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
20:00 - 20:59	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	5
21:00 - 21:59	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22:00 - 22:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
08:00 - 08:59	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	4
09:00 - 09:59	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	6
10:00 - 10:59	1	3	6	1	0	0	0	0	0	0	0	0	0	0	0	11
11:00 - 11:59	1	6	7	1	0	0	0	0	0	0	0	0	0	0	0	15
12:00 - 12:59	6	2	7	2	0	0	0	0	0	0	0	0	0	0	0	17
13:00 - 13:59	1	4	3	1	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>24</b>	<b>40</b>	<b>49</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>
<b>Percent of Total</b>	<b>19.0</b>	<b>31.7</b>	<b>38.9</b>	<b>9.5</b>	<b>0.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>7.5</b>	<b>35.0</b>	<b>45.0</b>	<b>12.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>24.4</b>	<b>30.2</b>	<b>36.0</b>	<b>8.1</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.7 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.3 MPH
Mean Speed:	19.1 MPH	Percent in Ten Mile Pace:	70.6%	15th Percentile:	12.7 MPH
Median Speed:	19.8 MPH			90th Percentile:	25.0 MPH
Modal Speed:	22.5 MPH			95th Percentile:	27.6 MPH

## Daily Southbound Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	0	3	4	2	0	0	0	0	0	0	0	0	0	0	0	9
15:00 - 15:59	1	6	2	1	0	0	0	0	0	0	0	0	0	0	0	10
16:00 - 16:59	2	7	3	1	0	0	0	0	0	0	0	0	0	0	0	13
17:00 - 17:59	1	5	4	2	0	0	0	0	0	0	0	0	0	0	0	12
18:00 - 18:59	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	4
19:00 - 19:59	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	8
20:00 - 20:59	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5
21:00 - 21:59	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	7
22:00 - 22:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00 - 23:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
07:00 - 07:59	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	5
08:00 - 08:59	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0	8
09:00 - 09:59	2	2	6	1	0	0	0	0	0	0	0	0	0	0	0	11
10:00 - 10:59	1	1	7	2	0	0	0	0	0	0	0	0	0	0	0	11
11:00 - 11:59	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	9
12:00 - 12:59	1	3	3	4	0	0	0	0	0	0	0	0	0	0	0	11
13:00 - 13:59	4	5	2	1	0	0	0	0	0	0	0	0	0	0	0	12
<b>Totals</b>	<b>18</b>	<b>53</b>	<b>45</b>	<b>22</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>139</b>
<b>Percent of Total</b>	<b>12.9</b>	<b>38.1</b>	<b>32.4</b>	<b>15.8</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>14.9</b>	<b>29.8</b>	<b>40.4</b>	<b>12.8</b>	<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>12.0</b>	<b>42.4</b>	<b>28.3</b>	<b>17.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.5 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.4 MPH
Mean Speed:	19.8 MPH	Percent in Ten Mile Pace:	70.5%	15th Percentile:	15.2 MPH
Median Speed:	19.8 MPH			90th Percentile:	27.0 MPH
Modal Speed:	17.5 MPH			95th Percentile:	28.5 MPH

## Daily Northbound Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	3	3	0	1	0	0	0	0	0	0	0	0	0	0	10
15:00 - 15:59	3	4	6	2	0	0	0	0	0	0	0	0	0	0	0	15
16:00 - 16:59	0	4	6	4	0	0	0	0	0	0	0	0	0	0	0	14
17:00 - 17:59	1	3	7	0	0	0	0	0	0	0	0	0	0	0	0	11
18:00 - 18:59	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	8
19:00 - 19:59	1	5	2	1	0	0	0	0	0	0	0	0	0	0	0	9
20:00 - 20:59	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
21:00 - 21:59	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	5
23:00 - 23:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
09:00 - 09:59	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
10:00 - 10:59	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	8
11:00 - 11:59	1	2	1	3	1	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	1	5	2	1	0	0	0	0	0	0	0	0	0	0	0	9
13:00 - 13:59	2	2	5	3	0	0	0	0	0	0	0	0	0	0	0	12
<b>Totals</b>	<b>18</b>	<b>42</b>	<b>49</b>	<b>21</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>135</b>
<b>Percent of Total</b>	<b>13.3</b>	<b>31.1</b>	<b>36.3</b>	<b>15.6</b>	<b>3.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>6.3</b>	<b>28.1</b>	<b>37.5</b>	<b>18.8</b>	<b>9.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>15.5</b>	<b>32.0</b>	<b>35.9</b>	<b>14.6</b>	<b>1.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.9 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	26.3 MPH
Mean Speed:	20.4 MPH	Percent in Ten Mile Pace:	67.4%	15th Percentile:	15.2 MPH
Median Speed:	20.7 MPH			90th Percentile:	27.9 MPH
Modal Speed:	22.5 MPH			95th Percentile:	29.5 MPH

## Daily Northbound Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	7
15:00 - 15:59	3	4	2	1	0	0	0	0	0	0	0	0	0	0	0	10
16:00 - 16:59	0	4	4	1	0	0	0	0	0	0	0	0	0	0	0	9
17:00 - 17:59	0	5	8	2	1	0	0	0	0	0	0	0	0	0	0	16
18:00 - 18:59	0	4	2	0	1	0	0	0	0	0	0	0	0	0	0	7
19:00 - 19:59	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	5
20:00 - 20:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
21:00 - 21:59	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6
22:00 - 22:59	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	6
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
09:00 - 09:59	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6
10:00 - 10:59	1	4	5	1	0	0	0	0	0	0	0	0	0	0	0	11
11:00 - 11:59	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	7
12:00 - 12:59	1	5	3	2	0	0	0	0	0	0	0	0	0	0	0	11
13:00 - 13:59	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6
<b>Totals</b>	<b>12</b>	<b>41</b>	<b>47</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>
<b>Percent of Total</b>	<b>10.2</b>	<b>34.7</b>	<b>39.8</b>	<b>12.7</b>	<b>2.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>18.2</b>	<b>30.3</b>	<b>42.4</b>	<b>9.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>7.1</b>	<b>36.5</b>	<b>38.8</b>	<b>14.1</b>	<b>3.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.9 MPH
Mean Speed:	20.4 MPH	Percent in Ten Mile Pace:	74.6%	15th Percentile:	15.6 MPH
Median Speed:	20.6 MPH			90th Percentile:	26.9 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.9 MPH

## Daily Northbound Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	1	4	5	1	0	0	0	0	0	0	0	0	0	0	0	11
15:00 - 15:59	0	4	2	3	0	0	0	0	0	0	0	0	0	0	0	9
16:00 - 16:59	1	4	1	2	0	0	0	0	0	0	0	0	0	0	0	8
17:00 - 17:59	0	4	4	3	0	0	0	0	0	0	0	0	0	0	0	11
18:00 - 18:59	1	5	8	2	0	0	0	0	0	0	0	0	0	0	0	16
19:00 - 19:59	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
20:00 - 20:59	0	4	3	1	0	0	0	0	0	0	0	0	0	0	0	8
21:00 - 21:59	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 - 07:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
08:00 - 08:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
09:00 - 09:59	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	5
10:00 - 10:59	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
11:00 - 11:59	1	1	5	0	1	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	8
13:00 - 13:59	1	5	4	1	0	0	0	0	0	0	0	0	0	0	0	11
<b>Totals</b>	<b>6</b>	<b>46</b>	<b>48</b>	<b>16</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>
<b>Percent of Total</b>	<b>5.1</b>	<b>39.3</b>	<b>41.0</b>	<b>13.7</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>8.7</b>	<b>34.8</b>	<b>43.5</b>	<b>8.7</b>	<b>4.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>4.3</b>	<b>40.4</b>	<b>40.4</b>	<b>14.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	4.6 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.9 MPH
Mean Speed:	20.7 MPH	Percent in Ten Mile Pace:	80.3%	15th Percentile:	16.2 MPH
Median Speed:	20.6 MPH			90th Percentile:	26.5 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.3 MPH

## Daily Northbound Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	3	3	1	0	0	0	0	0	0	0	0	0	0	0	9
15:00 - 15:59	3	3	3	4	0	0	0	0	0	0	0	0	0	0	0	13
16:00 - 16:59	1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	9
17:00 - 17:59	1	6	3	1	1	0	0	0	0	0	0	0	0	0	0	12
18:00 - 18:59	0	4	3	2	1	0	0	0	0	0	0	0	0	0	0	10
19:00 - 19:59	2	1	2	2	1	0	0	0	0	0	0	0	0	0	0	8
20:00 - 20:59	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
21:00 - 21:59	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
22:00 - 22:59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00 - 23:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00 - 08:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
09:00 - 09:59	2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	8
10:00 - 10:59	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	4
11:00 - 11:59	1	1	5	1	0	0	0	0	0	0	0	0	0	0	0	8
12:00 - 12:59	0	3	4	3	0	0	0	0	0	0	0	0	0	0	0	10
13:00 - 13:59	1	3	4	1	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>16</b>	<b>37</b>	<b>40</b>	<b>18</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115</b>
<b>Percent of Total</b>	<b>13.9</b>	<b>32.2</b>	<b>34.8</b>	<b>15.7</b>	<b>3.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>14.8</b>	<b>29.6</b>	<b>44.4</b>	<b>11.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>13.6</b>	<b>33.0</b>	<b>31.8</b>	<b>17.0</b>	<b>4.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.9 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	26.2 MPH
Mean Speed:	20.3 MPH	Percent in Ten Mile Pace:	67.0%	15th Percentile:	15.1 MPH
Median Speed:	20.5 MPH			90th Percentile:	27.8 MPH
Modal Speed:	22.5 MPH			95th Percentile:	29.4 MPH



## Daily Northbound Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	5	6	0	1	0	0	0	0	0	0	0	0	0	0	14
15:00 - 15:59	1	7	5	1	0	0	0	0	0	0	0	0	0	0	0	14
16:00 - 16:59	1	3	6	1	0	0	0	0	0	0	0	0	0	0	0	11
17:00 - 17:59	0	5	2	2	0	0	0	0	0	0	0	0	0	0	0	9
18:00 - 18:59	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	6
19:00 - 19:59	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0	7
20:00 - 20:59	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	5
21:00 - 21:59	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
22:00 - 22:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00 - 07:59	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
08:00 - 08:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
09:00 - 09:59	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0	7
10:00 - 10:59	1	2	2	3	0	0	0	0	0	0	0	0	0	0	0	8
11:00 - 11:59	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	10
12:00 - 12:59	2	1	5	1	0	0	0	0	0	0	0	0	0	0	0	9
13:00 - 13:59	1	2	6	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Totals</b>	<b>11</b>	<b>41</b>	<b>59</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>128</b>
<b>Percent of Total</b>	<b>8.6</b>	<b>32.0</b>	<b>46.1</b>	<b>10.9</b>	<b>2.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>5.7</b>	<b>34.3</b>	<b>45.7</b>	<b>14.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>9.7</b>	<b>31.2</b>	<b>46.2</b>	<b>9.7</b>	<b>3.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.1 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.8 MPH
Mean Speed:	20.6 MPH	Percent in Ten Mile Pace:	78.1%	15th Percentile:	15.9 MPH
Median Speed:	21.0 MPH			90th Percentile:	26.3 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.6 MPH

## Daily Total Speeds (MPH)

Study Date: Wednesday, 07/15/2020 / Thursday, 07/16/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	6	6	8	1	1	0	0	0	0	0	0	0	0	0	0	22
15:00 - 15:59	7	8	11	2	0	1	0	0	0	0	0	0	0	0	0	29
16:00 - 16:59	1	9	13	7	0	0	0	0	0	0	0	0	0	0	0	30
17:00 - 17:59	7	13	13	2	0	0	0	0	0	0	0	0	0	0	0	35
18:00 - 18:59	4	3	5	3	2	0	0	0	0	0	0	0	0	0	0	17
19:00 - 19:59	6	10	10	2	0	0	0	0	0	0	0	0	0	0	0	28
20:00 - 20:59	5	2	5	1	0	0	0	0	0	0	0	0	0	0	0	13
21:00 - 21:59	1	4	3	0	0	0	0	0	0	0	0	0	0	0	0	8
22:00 - 22:59	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	9
23:00 - 23:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
07:00 - 07:59	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	6
08:00 - 08:59	3	3	9	4	0	0	0	0	0	0	0	0	0	0	0	19
09:00 - 09:59	2	4	4	1	0	0	0	0	0	0	0	0	0	0	0	11
10:00 - 10:59	1	5	5	2	3	0	0	0	0	0	0	0	0	0	0	16
11:00 - 11:59	3	7	3	3	1	0	0	0	0	0	0	0	0	0	0	17
12:00 - 12:59	4	10	6	2	0	0	0	0	0	0	0	0	0	0	0	22
13:00 - 13:59	3	6	9	5	0	0	0	0	0	0	0	0	0	0	0	23
<b>Totals</b>	<b>58</b>	<b>96</b>	<b>108</b>	<b>41</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>312</b>
<b>Percent of Total</b>	<b>18.6</b>	<b>30.8</b>	<b>34.6</b>	<b>13.1</b>	<b>2.6</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>14.7</b>	<b>30.7</b>	<b>30.7</b>	<b>17.3</b>	<b>6.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>19.8</b>	<b>30.8</b>	<b>35.9</b>	<b>11.8</b>	<b>1.3</b>	<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	6.2 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.3 MPH
Mean Speed:	19.6 MPH	Percent in Ten Mile Pace:	65.4%	15th Percentile:	13.0 MPH
Median Speed:	20.1 MPH			90th Percentile:	27.2 MPH
Modal Speed:	22.5 MPH			95th Percentile:	29.1 MPH

## Daily Total Speeds (MPH)

Study Date: Thursday, 07/16/2020 / Friday, 07/17/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	7	5	5	3	1	0	0	0	0	0	0	0	0	0	0	21
15:00 - 15:59	6	9	8	2	0	0	0	0	0	0	0	0	0	0	0	25
16:00 - 16:59	3	13	7	2	0	0	0	0	0	0	0	0	0	0	0	25
17:00 - 17:59	0	12	15	2	1	0	0	0	0	0	0	0	0	0	0	30
18:00 - 18:59	1	6	3	3	1	0	0	0	0	0	0	0	0	0	0	14
19:00 - 19:59	2	3	4	1	0	0	0	0	0	0	0	0	0	0	0	10
20:00 - 20:59	1	5	5	1	0	0	0	0	0	0	0	0	0	0	0	12
21:00 - 21:59	1	4	4	2	0	0	0	0	0	0	0	0	0	0	0	11
22:00 - 22:59	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	7
23:00 - 23:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	5
07:00 - 07:59	3	2	4	2	0	0	0	0	0	0	0	0	0	0	0	11
08:00 - 08:59	2	4	5	0	0	0	0	0	0	0	0	0	0	0	0	11
09:00 - 09:59	1	4	7	1	1	0	0	0	0	0	0	0	0	0	0	14
10:00 - 10:59	1	8	12	2	1	0	0	0	0	0	0	0	0	0	0	24
11:00 - 11:59	2	6	9	4	0	0	0	0	0	0	0	0	0	0	0	21
12:00 - 12:59	3	11	10	3	0	0	0	0	0	0	0	0	0	0	0	27
13:00 - 13:59	2	5	4	1	0	0	0	0	0	0	0	0	0	0	0	12
<b>Totals</b>	<b>38</b>	<b>103</b>	<b>108</b>	<b>33</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>287</b>
<b>Percent of Total</b>	<b>13.2</b>	<b>35.9</b>	<b>37.6</b>	<b>11.5</b>	<b>1.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>12.9</b>	<b>31.2</b>	<b>43.0</b>	<b>10.8</b>	<b>2.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>13.4</b>	<b>38.1</b>	<b>35.1</b>	<b>11.9</b>	<b>1.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.5 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	24.7 MPH
Mean Speed:	19.8 MPH	Percent in Ten Mile Pace:	73.5%	15th Percentile:	15.2 MPH
Median Speed:	20.1 MPH			90th Percentile:	26.3 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.5 MPH

## Daily Total Speeds (MPH)

Study Date: Friday, 07/17/2020 / Saturday, 07/18/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	3	11	10	1	0	0	0	0	0	0	0	0	0	0	0	25
15:00 - 15:59	3	9	8	3	0	0	0	0	0	0	0	0	0	0	0	23
16:00 - 16:59	5	10	4	3	1	0	0	0	0	0	0	0	0	0	0	23
17:00 - 17:59	2	12	11	3	0	0	0	0	0	0	0	0	0	0	0	28
18:00 - 18:59	4	13	12	3	0	0	0	0	0	0	0	0	0	0	0	32
19:00 - 19:59	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	12
20:00 - 20:59	3	7	5	1	0	0	0	0	0	0	0	0	0	0	0	16
21:00 - 21:59	2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	8
22:00 - 22:59	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00 - 23:59	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
00:00 - 00:59	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00 - 06:59	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	5
08:00 - 08:59	0	4	2	2	0	0	0	0	0	0	0	0	0	0	0	8
09:00 - 09:59	5	6	6	3	0	0	0	0	0	0	0	0	0	0	0	20
10:00 - 10:59	5	5	6	0	0	0	0	0	0	0	0	0	0	0	0	16
11:00 - 11:59	1	5	8	1	2	0	0	0	0	0	0	0	0	0	0	17
12:00 - 12:59	0	5	12	3	0	0	0	0	0	0	0	0	0	0	0	20
13:00 - 13:59	2	9	8	2	0	0	0	0	0	0	0	0	0	0	0	21
<b>Totals</b>	<b>38</b>	<b>111</b>	<b>108</b>	<b>27</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>287</b>
<b>Percent of Total</b>	<b>13.2</b>	<b>38.7</b>	<b>37.6</b>	<b>9.4</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>19.2</b>	<b>32.9</b>	<b>35.6</b>	<b>9.6</b>	<b>2.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>11.2</b>	<b>40.7</b>	<b>38.3</b>	<b>9.3</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation: 5.3 MPH	Ten Mile Pace: 15 to 24 MPH	85th Percentile: 24.4 MPH
Mean Speed: 19.5 MPH	Percent in Ten Mile Pace: 76.3%	
Median Speed: 19.7 MPH		15th Percentile: 15.2 MPH
Modal Speed: 17.5 MPH		90th Percentile: 25.1 MPH
		95th Percentile: 27.8 MPH

## Daily Total Speeds (MPH)

Study Date: Saturday, 07/18/2020 / Sunday, 07/19/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	9	6	5	1	0	0	0	0	0	0	0	0	0	0	0	21
15:00 - 15:59	4	7	4	4	0	0	0	0	0	0	0	0	0	0	0	19
16:00 - 16:59	1	5	8	1	0	0	0	0	0	0	0	0	0	0	0	15
17:00 - 17:59	3	7	8	2	1	0	0	0	0	0	0	0	0	0	0	21
18:00 - 18:59	2	12	8	2	1	0	0	0	0	0	0	0	0	0	0	25
19:00 - 19:59	2	1	5	2	1	0	0	0	0	0	0	0	0	0	0	11
20:00 - 20:59	2	1	2	2	1	0	0	0	0	0	0	0	0	0	0	8
21:00 - 21:59	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	5
22:00 - 22:59	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 - 02:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00 - 03:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00 - 04:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 - 05:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 - 06:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00 - 07:59	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
08:00 - 08:59	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	6
09:00 - 09:59	3	4	5	2	0	0	0	0	0	0	0	0	0	0	0	14
10:00 - 10:59	2	4	8	1	0	0	0	0	0	0	0	0	0	0	0	15
11:00 - 11:59	2	7	12	2	0	0	0	0	0	0	0	0	0	0	0	23
12:00 - 12:59	6	5	11	5	0	0	0	0	0	0	0	0	0	0	0	27
13:00 - 13:59	2	7	7	2	0	0	0	0	0	0	0	0	0	0	0	18
<b>Totals</b>	<b>40</b>	<b>77</b>	<b>89</b>	<b>30</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>241</b>
<b>Percent of Total</b>	<b>16.6</b>	<b>32.0</b>	<b>36.9</b>	<b>12.4</b>	<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>10.4</b>	<b>32.8</b>	<b>44.8</b>	<b>11.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>19.0</b>	<b>31.6</b>	<b>33.9</b>	<b>12.6</b>	<b>2.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation: 5.8 MPH	Ten Mile Pace: 15 to 24 MPH	85th Percentile: 24.9 MPH
Mean Speed: 19.7 MPH	Percent in Ten Mile Pace: 68.9%	
Median Speed: 20.2 MPH		15th Percentile: 13.9 MPH
Modal Speed: 22.5 MPH		90th Percentile: 26.7 MPH
		95th Percentile: 28.7 MPH

## Daily Total Speeds (MPH)

Study Date: Sunday, 07/19/2020 / Monday, 07/20/2020

Unit ID: ROSEVILLE 6, 9-28-16

Location: PASCAL 75 FEET SOUTH OF IOWA

Posted Speed: 30

	5-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-99	Total
14:00 - 14:59	2	8	10	2	1	0	0	0	0	0	0	0	0	0	0	23
15:00 - 15:59	2	13	7	2	0	0	0	0	0	0	0	0	0	0	0	24
16:00 - 16:59	3	10	9	2	0	0	0	0	0	0	0	0	0	0	0	24
17:00 - 17:59	1	10	6	4	0	0	0	0	0	0	0	0	0	0	0	21
18:00 - 18:59	1	3	5	1	0	0	0	0	0	0	0	0	0	0	0	10
19:00 - 19:59	2	6	6	1	0	0	0	0	0	0	0	0	0	0	0	15
20:00 - 20:59	1	3	2	2	2	0	0	0	0	0	0	0	0	0	0	10
21:00 - 21:59	0	3	6	2	0	0	0	0	0	0	0	0	0	0	0	11
22:00 - 22:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
23:00 - 23:59	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4
00:00 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 - 04:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 - 05:59	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00 - 06:59	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
07:00 - 07:59	0	2	5	2	0	0	0	0	0	0	0	0	0	0	0	9
08:00 - 08:59	1	5	2	1	1	0	0	0	0	0	0	0	0	0	0	10
09:00 - 09:59	3	6	7	2	0	0	0	0	0	0	0	0	0	0	0	18
10:00 - 10:59	2	3	9	5	0	0	0	0	0	0	0	0	0	0	0	19
11:00 - 11:59	2	8	8	1	0	0	0	0	0	0	0	0	0	0	0	19
12:00 - 12:59	3	4	8	5	0	0	0	0	0	0	0	0	0	0	0	20
13:00 - 13:59	5	7	8	1	0	0	0	0	0	0	0	0	0	0	0	21
<b>Totals</b>	<b>29</b>	<b>94</b>	<b>104</b>	<b>36</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>267</b>
<b>Percent of Total</b>	<b>10.9</b>	<b>35.2</b>	<b>39.0</b>	<b>13.5</b>	<b>1.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of AM</b>	<b>11.0</b>	<b>31.7</b>	<b>42.7</b>	<b>13.4</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>
<b>Percent of PM</b>	<b>10.8</b>	<b>36.8</b>	<b>37.3</b>	<b>13.5</b>	<b>1.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100</b>

Standard Deviation:	5.3 MPH	Ten Mile Pace:	15 to 24 MPH	85th Percentile:	25.0 MPH
Mean Speed:	20.2 MPH	Percent in Ten Mile Pace:	74.2%	15th Percentile:	15.6 MPH
Median Speed:	20.5 MPH			90th Percentile:	26.8 MPH
Modal Speed:	22.5 MPH			95th Percentile:	28.6 MPH

## MEMORANDUM



CAMPBELL KNUTSON  
PROFESSIONAL ASSOCIATION

DATE: MARCH 31, 2021

RE: NEW LEGISLATION REGARDING CITY'S AUTHORITY TO ALTER SPEED LIMITS

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This Memorandum provides an update about recent legislative changes that affect a city's ability to change speed limits. First, a new provision of the law permits a city to change a speed limit on a city street provided certain procedures are followed. Minn. Stat. § 169.14, subd. 5h. Second, another provision of the law expands a city's authority to set a 25 mile-per-hour speed limit upon a residential roadway. Minn. Stat. §§ 169.011, subd. 64, 169.14, subd. 2(7). These laws become effective on August 1, 2019.

### **Authority to Change Speed Limit Upon City Streets**

If a city wishes to change a speed limit upon a city street, the city may do so without conducting an engineering and traffic investigation from the Minnesota Department of Transportation (MnDOT). Notably, the law does not permit a city to change a speed limit on town roads, county highways, or trunk highways. In order to alter a speed limit on a city street, a city must comply with the following:

- 1) The city must implement speed limit changes in a consistent and understandable manner;
- 2) The city must erect appropriate signs to display the speed limit; and
- 3) The city must develop procedures to set speed limits based on the city's safety, engineering, and traffic analysis. The city's engineering and traffic analysis must consider:
  - a. National urban speed limit guidance and studies;
  - b. Local traffic crashes; and
  - c. Methods to effectively communicate the change to the public.

The League of Minnesota Cities and the City Engineers Association of Minnesota are currently collaborating to develop guidance for cities that plan to consider changing speed limits. Prior to this legislative change, a city's ability to change speed limits was quite limited. The law previously required the city to request that MnDOT conduct an engineering and traffic study on the city street. After that was conducted, MnDOT would set the speed limit on the city street. Additional information on this collaboration can be found at the following links:

<https://www.lmc.org/news-publications/magazine/mar-apr-2021/speed-limits/>  
<https://clients.bolton-menk.com/mnspeedlimitvision/>

It does not appear that their work is yet completed. The City may want to consider waiting for the results of the visioning process to avoid changing street speed limits again in the future.

### **Authority to Set Speed Limit at 25 miles per hour**

A city has the authority to set a speed limit at 25 miles per hour (mph) on residential roadways "if adopted by the road authority having jurisdiction over the residential roadway." Minn. Stat. § 169.14, subd. 2(7). The Legislature expanded the definition of residential roadway. Minn. Stat. § 169.011, subd. 69. Previously, the term was solely defined as a city street or town road "less than one-half mile in total length." *Id.* As of August 1, 2019, the term will include a city street or town road in "an area zoned exclusively for housing that is not a collector or arterial street." *Id.*

This legislative change expands a city's authority to set a speed of 25 mph, provided the road constitutes a residential roadway under the new definition. This permits a city to set the speed limit at 25 mph without a traffic study by MnDOT and without conducting its own engineering analysis. To change the speed limit to 25 mph, a city may simply adopt that speed limit by city council action.

### **Ordinances**

St. Paul and Minneapolis have coordinated their efforts to lower speed limits under this statute. On October 23, 2019, St. Paul passed an ordinance<sup>1</sup> authorizing the city engineer establish speed limits in accordance with the above statute. Minneapolis passed a similar ordinance on December 13, 2019.<sup>2</sup> Minneapolis explicitly directed the Public Works Department and the city engineer to present a report on the speed limit changes and that report must:

- Support reaching the City's Vision Zero traffic safety goal of zero traffic deaths or severe injuries;
- Reflect the City's Complete Streets policy by improving access and comfort for people walking, biking, and taking transit;
- Reflect projected future street use resulting from anticipated land use changes;
- Support moving people and goods; and
- Set speed limits which are reasonable, comfortable, and technically defensible.

### **Evaluations and Signs**

The St. Paul and Minneapolis respective Public Works Departments published speed limit evaluations on March 12, 2020.

[St. Paul Evaluation](#)

[Minneapolis Evaluation](#)

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<sup>1</sup> St. Paul City Code, Chapter XIV, Section 152.20:

Authority to set speed limits on city streets. The city engineer may establish speed limits for city streets under the city's jurisdiction in accordance with the provisions set forth at Minn. Stat. § 169.14. The procedures relied upon to set speed limits pursuant to this section shall be kept by the department of public works and updated as needed.

<sup>2</sup> Minneapolis City Code Title 18, Chapter 474, Article 1, Section 474.420:

Speed on city streets. The city engineer may establish speed limits for city streets under the city's jurisdiction in accordance with the provisions set forth at Minnesota Statutes Section 169.14. A comprehensive listing and the procedures relied upon to establish speed limits under this section 474.420 shall be kept on file by the director of public works, and will be made readily available for public inspection.



Although “appropriate signs” is not defined in statute, Minneapolis and St. Paul’s evaluations established the following respective sign plans.

The core features of the Saint Paul sign plan include:

- Signs at gateway locations showing the Citywide default speed limit in Saint Paul is 20 mph unless otherwise posted. These signs may also be placed periodically in non-gateway locations as appropriate.
- Speed limit signs on streets where the speed limit is over 20 mph. Locations of signs for speed limits above 20 mph will be guided by:
  - At speed limit transition points
  - Near intersections with arterial or other high-traffic streets
  - At least once every mile
- Signs for streets with 20 mph speed limits will only be posted at speed limit transition points along a corridor or where staff determine the speed limit needs to be reinforced because of high potential conflicts or crash history.
- Installation of new speed limit signs is anticipated to take months to complete. New speed limits will take effect as each roadway is signed.

The core features of the Minneapolis signage plan include:

- Signage at gateway locations on major collector and arterial roadways showing the citywide speed limit in Minneapolis is 20 mph unless otherwise posted. These signs may also be placed periodically in non-gateway locations as appropriate.
- Speed limit signage on streets where the speed limit is above 20 mph. Locations of signs for speed limits above 20 mph will be guided by:
  - At speed limit transition points;
  - Near intersections with arterial or other high-traffic streets; and
  - At least once every mile and at least 1/4-mile apart.
- Signage for streets with 20 mph speed limits may be posted at speed limit transition points.

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## REQUEST FOR COUNCIL ACTION

<b>Meeting Date</b>	April 7, 2021
<b>Agenda Item</b>	Policy D3
<b>Attachment</b>	Documents
<b>Submitted By</b>	Sack Thongvanh, City Administrator

<b>Item</b>	Police Services Update
<b>Description</b>	<p>On March 30, 2021 the City of Falcon Heights received a response letter from Sheriff Fletcher to our notice that we will not be renewing our current contract with the Sheriff’s Office for police services. I would like to clarify a few points that was in Sheriff Fletcher’s letter that is attached.</p> <p>The first time Sheriff Fletcher raised any concerns for the safety of the deputies and citizens as regards to backup was at his annual update that was two years overdue. Keep in mind that we already pay for an extra percentage of an FTE for backup coverage. During Sheriff Fletcher’s presentation, he stated the additional cost would be \$350,000, but he or his staff has yet to provide any justification or details for the increase.</p> <p>During our Contract Cities meeting in December, Sheriff Fletcher stated that he would provide “Notice” to the City of Falcon Heights in January to allow Falcon Heights to have more time to explore our options. Sheriff Fletcher provided notice on March 30, 2021, one day before the required deadline per the service agreement.</p> <p>Sheriff Fletcher also stated in his letter that he has spoken with Saint Paul Police Chief Todd Axtell and confirm St. Paul’s willingness to provide services to Falcon Heights was new information to the City of Falcon Heights per Sheriff Fletcher’s mutual agreement not to renew agreement for Law Enforcement Services.</p>
<b>Budget Impact</b>	To be determined.
<b>Attachment(s)</b>	<ul style="list-style-type: none"> <li>• “Not to Renew” Letter from the City of Falcon Heights</li> <li>• Letter from Sheriff Fletcher</li> <li>• Letter to “Not to Renew” from the City of Little Canada</li> </ul>

<b>Action(s) Requested</b>	No action required at this time.
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March 29, 2021

**NOTICE TO NOT RENEW THIS AGREEMENT**

Sheriff Bob Fletcher  
425 Grove Street  
St. Paul, MN 55101

Dear Sheriff Fletcher,

I have been authorized by the Falcon Heights City Council and Mayor to send this formal letter to take action under Section C2 of the Term of Agreement and Termination of the document labeled as “Agreement for Law Enforcement Services.” The City of Falcon Heights does not intend to renew the agreement that was executed by Falcon Heights on November 1<sup>st</sup>, 2017 and the Ramsey County Board November 21<sup>st</sup>, 2017.

***C2: If either party intends not to renew this Agreement at the end of its Term, the party must notify the other party and other MUNICIPALITIES in writing at least nine (9) calendar months prior to the end of the contract Term. If either party has not approved a successor agreement at the end of the Term, the COUNTY will continue to provide law enforcement services in accordance with this Agreement.***

We recognize that many details will need to be finalized to make this request a reality in a mutually agreeable manner for both Agencies in the coming months. Please accept this as the nine (9) calendar months’ notice requirement prior to the end of the Term.

If you have any questions or concerns, please feel free to contact me by email at [sack.thongvanh@falconheights.org](mailto:sack.thongvanh@falconheights.org) or by phone at 651-792-7611.

Best Regards,

Sack Thongvanh, City Administrator

CC

Chris Heineman, Little Canada  
Dave Perrault, Arden Hills  
Kevin Kress, North Oaks  
Kevin Watson, Vadnais Heights  
Pat Christopherson, White Bear Township  
Terry Schwerm, Shoreview

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## Ramsey County Sheriff's Office

Bob Fletcher, Sheriff

**Minnesota's First Law Enforcement Agency – Established 1849**

425 Grove Street • Saint Paul, Minnesota 55101

Phone: 651-266-9333 • Fax: 651-266-9301

[www.RamseyCountySheriff.us](http://www.RamseyCountySheriff.us)

March 30, 2021

Sack Thongvanh  
City Administrator  
City of Falcon Heights  
2077 West Larpenteur Avenue  
Falcon Heights, Minnesota 55113

Reference: Mutual Agreement Not to Renew Agreement for Law Enforcement Services

Mr. Thongvanh,

I have received your letter regarding our "Agreement for Law Enforcement Services." Thank you for considering the issues that I raised at your September 23, 2020 council meeting, including the need for additional staff coverage to ensure deputy and citizen safety and reduce the risk associated with back-up deputies driving long distances with red lights and siren from our other non-contiguous Contract Cities.

As I mentioned in September, I believe the best solution is for Falcon Heights to contract with an adjacent city, such as the cities of Saint Paul or Roseville. Both cities have common borders and contiguous service areas ensuring adequate and timely law enforcement back-up when necessary.

I have spoken with Saint Paul Police Chief Todd Axtell and he confirms a willingness to provide services to your city. As you know, his western district (precinct) already provides patrol services to the Como and Saint Anthony park neighborhoods of Saint Paul, which border your city. This option appears to be the safest and most cost efficient as a continuation of our agreement would have required an estimated annual increase of \$350,000 to provide for additional staffing.

I appreciate the time you took to review and consider my concerns. Pursuant to our agreement which you referenced, please consider this a mutual decision to not renew our contract for law enforcement services at the end of the current term. Undersheriff Jeff Ramacher will be available to help to finalize any details.

Thank you for the past opportunity to provide contract law enforcement services to the City of Falcon Heights. I am proud of the relationship the Sheriff's Office has established with residents, businesses, and communities of Falcon Heights. I am also confident that the Saint Paul Police Department will continue with a high level of service.

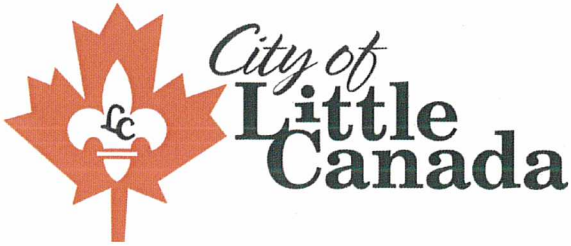
Sincerely,

Bob Fletcher  
Ramsey County Sheriff

Copy: Mayor and Council Members, City of Falcon Heights  
Contract City Managers

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MAYOR  
John Keis

COUNCIL  
Michael McGraw  
Tom Fischer  
Christian Torkelson  
Teresa Miller

March 31, 2021

**OFFICIAL NOTIFICATION**

Ryan O'Connor  
Ramsey County Manager  
15 West Kellogg Blvd.  
Saint Paul, MN 55102

Bob Fletcher  
Ramsey County Sheriff  
425 Grove Street  
St. Paul, MN 55101

Dear Mr. O'Connor and Sheriff Fletcher,

The City of Little Canada is appreciative of the police services that have been provided by the Ramsey County Sheriff's Department for over thirty years. Despite this longstanding history, the City Council has expressed recent concerns about transparency and communication regarding critical issues. For these reasons, and to fulfil their fiduciary responsibility to local taxpayers, the City Council has directed staff to explore other alternatives for law enforcement services.

The City Council has explored several potential options over the past six months, and intends to continue to explore these options in 2022. According to the Agreement for Law Enforcement Services, if either party intends not to renew this Agreement at the end of its Term, the party must notify the other party and other municipalities in writing at least nine (9) calendar months prior to the end of the contract Term. In accordance with this Agreement and by copy of this notification letter, the City of Little Canada is providing notice to Ramsey County and the other municipalities of its intent to renew the contract for a period of twelve (12) months.

If you have any questions, please feel free to contact me by phone at 651-766-4040 or by e-mail at [chris.heineman@littlecanadamn.org](mailto:chris.heineman@littlecanadamn.org).

Sincerely,

Christopher Heineman  
City Administrator

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## REQUEST FOR COUNCIL ACTION

<b>Meeting Date</b>	April 7, 2021
<b>Agenda Item</b>	Policy D4
<b>Attachment</b>	N/A
<b>Submitted By</b>	Sack Thongvanh, City Administrator

<b>Item</b>	Fire Department Equipment Sale Update
<b>Description</b>	The City Administrator will discuss options to the City Council for the sale of the trucks and various fire department equipment.
<b>Budget Impact</b>	To be determined.
<b>Attachment(s)</b>	N/A
<b>Action(s) Requested</b>	No action required at this time.

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## REQUEST FOR COUNCIL ACTION

<b>Meeting Date</b>	April 7, 2021
<b>Agenda Item</b>	Policy D5
<b>Attachment</b>	N/A
<b>Submitted By</b>	Sack Thongvanh, City Administrator

<b>Item</b>	City Events and Facility Rentals
<b>Description</b>	As covid restrictions have been lifted, relaxed or modified, it is our responsibility to determine how City events and facility use/rentals can we used in a safe manner. Staff will provide recommends to the Council.
<b>Budget Impact</b>	To be determined.
<b>Attachment(s)</b>	N/A
<b>Action(s) Requested</b>	Staff is looking for direction on how to proceed.