





MASON CITY SUB  
AT GRADE ROAD CROSSINGS

MP	Street	City	Dot Nbr.
73.70	DEAN AVE	DES MOINES	876001C
73.85	WALNUT	DES MOINES	876002J
73.94	CAPITOL	DES MOINES	876003R
74.02	GRAND AVENUE	DES MOINES	876004X
74.08	DES MOINES STREET	DES MOINES	876005E
74.23	HUBBELL AVENUE	DES MOINES	876006L
74.56	EASTON BLVD.	DES MOINES	876009G
75.87	HULL AVENUE	DES MOINES	876010B
77.46	BROADWAY AVE	DES MOINES	876012P
78.48	NE 54TH AVE	DES MOINES	199846C
79.05	NE 22ND STREET	DES MOINES	876015K
80.09	CORPORATE WOOD DR	ANKENY	922326M
80.53	NE 29TH STREET	DES MOINES	876018F
82.18	N.E. 70TH AVE.	DES MOINES	876020G
83.18	NE 78TH AVE	DES MOINES	876021N
85.19	IA HWY 931	DES MOINES	876022V
86.21	N.E. 102ND AVE.	DES MOINES	876023C
86.94	N.E. 108TH AVE.	DES MOINES	876024J
87.46	PRIVATE	DES MOINES	876025R
87.71	PRIVATE	DES MOINES	876026X
88.32	N.E. 118TH AVE.	DES MOINES	876027E
89.32	WALNUT STREET	DES MOINES	876029T
89.46	MAIN ST	DES MOINES	876030M
89.72	PRIVATE	DES MOINES	876031U
90.32	N.E. 134TH AVE.	DES MOINES	876032B
91.21	N.E. 141ST. AVE.	DES MOINES	876033H
91.70	PRIVATE	DES MOINES	876034P
92.35	N.E. 150TH STREET	DES MOINES	876035W
92.47	PRIVATE	DES MOINES	876036D
93.38	N.E. 158TH STREET	DES MOINES	876037K
94.59	PRIVATE	CAMBRIDGE	876038S
95.59	PRIVATE	CAMBRIDGE	876040T
96.09	PRIVATE	CAMBRIDGE	876041A
96.37	320 TH. STREET	CAMBRIDGE	876042G
96.61	CENTER STREET	CAMBRIDGE	876043N
97.00	4 TH. STREET	CAMBRIDGE	876044V
97.74	PRIVATE	CAMBRIDGE	876046J
98.36	PRIVATE	CAMBRIDGE	876047R
98.61	PRIVATE	CAMBRIDGE	876048X
99.37	290 TH. STREET	CAMBRIDGE	876049E
99.71	PRIVATE	CAMBRIDGE	876050Y
100.40	280 TH. STREET	CAMBRIDGE	876051F
101.01	PRIVATE	CAMBRIDGE	876052M
101.48	270 TH. STREET	CAMBRIDGE	876053U
101.57	PRIVATE	CAMBRIDGE	876054B
101.94	PRIVATE	CAMBRIDGE	876055H
102.28	FIELD TO FIELD	CAMBRIDGE	924407U
102.51	PRIVATE	CAMBRIDGE	876056P
102.87	595 TH. AVE.	CAMBRIDGE	876057W
103.04	260TH	CAMBRIDGE	876058D
103.48	PRIVATE	CAMBRIDGE	876059K
103.94	PRIVATE	CAMBRIDGE	876060E
104.34	PRIVATE	CAMBRIDGE	876061L
104.59	250 TH. STREET	CAMBRIDGE	876062T
104.80	610TH AVENUE	CAMBRIDGE	876063A
105.74	MAPLE STREET	CAMBRIDGE	876065N
106.10	CO RD S14	NEVADA	876067C
106.80	S. 6TH ST.	NEVADA	876070K
106.87	7TH ST	NEVADA	876071S
106.94	8TH STREET SW	NEVADA	876072Y
107.20	11TH STREET	NEVADA	876074M
107.72	19TH STREET SW	NEVADA	876075U

MP	Street	City	Dot Nbr.
108.33	PRIVATE	NEVADA	876076B
109.22	CR- #S27	NEVADA	876078P
109.49	PRIVATE	NEVADA	922495A
110.86	220TH	NEVADA	876081X
111.88	210TH	NEVADA	876082E
112.88	200TH	NEVADA	876083L
113.37	RICHLAND ST	NEVADA	876084T
113.88	190TH ST	NEVADA	876085A
114.88	180TH	NEVADA	876086G
115.89	170TH	NEVADA	876088V
117.99	150TH	NEVADA	876089C
119.00	140TH	NEVADA	876090W
119.84	LATROBE AVE.	CALLSBURG	876091D
120.00	2ND STREET	CALLSBURG	876092K
121.00	120TH	CALLSBURG	876093S
122.00	110TH	CALLSBURG	876094Y
122.95	340TH	GARDEN CITY	876095F
123.95	330TH	GARDEN CITY	876096M
124.95	CR D65	GARDEN CITY	876097U
125.44	CR S27	GARDEN CITY	876099H
125.44	CR S-27	GARDEN CITY	922498V
125.95	310TH ST	GARDEN CITY	876101G
126.94	300TH	GARDEN CITY	876102N
127.94	290TH	GARDEN CITY	876103V
128.93	280TH	GARDEN CITY	876104C
131.02	260TH	GARDEN CITY	876106R
131.26	F-AVE.	GARDEN CITY	876107X
132.19	250TH	BUCKEYE	876109L
133.19	CR D47	BUCKEYE	876110F
134.19	230TH	BUCKEYE	876112U
135.24	220TH	BUCKEYE	876113B
136.24	CO. RD D-41	BUCKEYE	876114H
137.57	ELLSWORTH	BUCKEYE	876115P
137.73	IOWA HIGHWAY #359	BUCKEYE	876116W
138.60	PRIVATE	BUCKEYE	876117D
139.37	180TH STREET	BUCKEYE	876118K
139.87	PRIVATE	BUCKEYE	876119S
140.59	CR D25	BUCKEYE	876120L
140.97	PRIVATE	BUCKEYE	876121T
141.80	PRIVATE	BUCKEYE	876122A
142.52	155TH	BUCKEYE	876123G
143.16	I-AVE.	BUCKEYE	876125V
144.66	140TH	IOWA FALLS	876127J
145.01	140TH ST	IOWA FALLS	876128R
145.46	140TH STREET	IOWA FALLS	876129X
146.34	KK	IOWA FALLS	876130S
147.14	PARK	IOWA FALLS	876132F
147.40	HOLLIS AVENUE	IOWA FALLS	876133M
147.62	WEST THIRD	IOWA FALLS	876134U
147.66	ROCKSYLVANIA	IOWA FALLS	876135B
147.70	W.2ND	IOWA FALLS	876136H
147.88	SHERMAN ST.	IOWA FALLS	876137P
148.73	115TH STREET	IOWA FALLS	876139D
151.15	30TH ST.	IOWA FALLS	876143T
152.14	40TH ST	IOWA FALLS	876145G
153.17	50TH ST	BRADFORD	876146N
155.18	CO RD C-55/70TH S	BRADFORD	876147V
155.51	75TH ST	BRADFORD	876149J
156.33	80TH	BRADFORD	876150D
157.33	90TH	BRADFORD	876151K
158.41	NETTLE AVE.	BRADFORD	876152S
158.89	PRIVATE	BRADFORD	876153Y

MP	Street	City	Dot Nbr.
159.60	110TH	BRADFORD	876155M
160.63	120TH	HAMPTON	876156U
162.70	STREET	HAMPTON	876158H
163.09	ROAD	HAMPTON	876159P
163.67	AVE	HAMPTON	876160J
163.73	1ST AVE NW	HAMPTON	876161R
164.16	OLIVE AVE	HAMPTON	876163E
164.50	PRIVATE	HAMPTON	876165T
164.79	PRIVATE	HAMPTON	876166A
166.08	STREET	HAMPTON	876168N
167.08	180TH	HAMPTON	876169V
168.08	CR- RD C25	CHAPIN	876170P
169.59	PRIVATE	CHAPIN	876172D
170.17	210TH ST	CHAPIN	876173K
171.17	220TH	CHAPIN	876174S
171.86	PRIVATE	SHEFFIELD	876175Y
172.17	230TH	SHEFFIELD	876176F
173.16	240TH	SHEFFIELD	876177M
174.16	250TH	SHEFFIELD	876178U
174.66	PRIVATE	SHEFFIELD	876179B
174.91	255TH	SHEFFIELD	876180V
175.79	105TH	SHEFFIELD	876181C
177.29	120TH	MASON CITY	876182J
177.79	PRIVATE	MASON CITY	876183R
178.29	130TH	MASON CITY	876184X
179.29	140TH	MASON CITY	876187T
180.29	150TH ST	MASON CITY	876189G
181.27	160TH	MASON CITY	876190B
182.28	170TH	MASON CITY	876191H
183.28	180TH	MASON CITY	876192P
184.28	190TH	MASON CITY	876193W
185.27	200TH	MASON CITY	876194D
186.27	210TH ST	MASON CITY	876195K
187.38	220TH	MASON CITY	876196S
187.98	PRIVATE	MASON CITY	876197Y
188.39	230TH ST	MASON CITY	876198F
189.39	240TH ST	MASON CITY	876200E
190.95	AVE	MASON CITY	876201L
191.09	STREET SW	MASON CITY	196393C
191.51	SW.	MASON CITY	187090U
192.09	6TH S.W.	MASON CITY	196392V
192.29	4TH S.W.	MASON CITY	196390G
192.60	1ST N.W.	MASON CITY	196388F
193.06	9TH ST. N.W.	MASON CITY	196387Y



With your Help  
by way of feedback  
Reporting changes, corrections,  
and suggestions. Our goal is to  
Produce an accurate real world  
Chart, that will assist road crews  
with territorial knowledge

## EMPLOYEE DRIVEN

### Symbols Used

Detector Talker ( ALWAYS TALKS )  
Located at MP xxx.2

Detector talk on defect only  
Located at MP xxx.5

Private Road Crossing

Public Road Crossing

AEI Reader

Bridge

Yard Board  
Located at MP xxx.4

Tunnel

Knuckle Alley Watch your slack

Absolute Signal both directions

Directional Absolute Signal

Directional Absolute Signal

Intermediate Signal for both directions

Directional Intermediate Signal

Directional Intermediate Signal

Absolute Signal & Intermediate Signal

Intermediate Signal and Absolute Signal

SPEED CHANGE at MP xxx.2

Needs Verified

Road Crossing List Available at:  
\* UP Employee Home  
\* Departments  
\* Engineering  
\* Right of Way, Facilities and Maps  
\* Facilities Information And Maps  
\* Public Projects  
\* DOT Road Crossing Reports  
\* Summary list of DOTs

Don't Over Look the FILTERS.  
I use MAINLINE and ACTIVE.

**Special Note**  
The last digit for Intermediate signals designates  
Signals NUMBER, not LOCATION. They are  
for most parts the same, but may be up to 2500 feet different.  
This holds true for Detectors as well.

# KEY to reading Mini Fog Charts

After 5 minutes of studying chart make up.  
Retrieving Territorial Data is fast and easy.

**Safety and Train Handling  
are the two most important  
issues these charts address**

## Train Handling Guide

Following Grade Color Scheme used for suggested General Train Handling

**Throttle Modulation** **Dynamic Braking** **Automatic Braking** **Dynamic & Automatic Braking**

NOTE: No Two trains handle the same. This is a General Guide line only, and for a Green Light run. Common sense required.

Throttle Modulation, you will be in power.

Dynamics will probably be need.

Dynamics and Air may be required.

Automatic Brake application might be in order.

Drifting, or light throttle or maybe light dynamics.

You'll be in Dynamic, and might need air also. The grade is noticeable.

Shot of air may be better than Dynamics if you missed your lag using throttle modulation.

Grade Change point from 0.4 % to a 0.9 % grade

*In a Nut Shell  
If Grade Color changes  
be aware of Speed Issues*



### Direction

Charts are drawn for both Directions.  
Speeds, Footages, and Signal Numbers may differ.  
Grade will definitely be different. Up is now down, and vice versa.  
Good all around idea to use chart that corresponds to direction of travel.

### Be Aware of

- ✓ Signals are for ALL MAINS & Controlled SIDINGS unless so noted.
- ✓ Footage between signals is an about sort of deal, and Not Verified
- ✓ Grade numbers might not be shown when room is unavailable
- ✓ Grade is Averaged at times
- ✓ Changes are made often, only your feedback will keep charts current
- ✓ **This does not replace or supplement your time table; this is only reference material for learning.**

### Hints & Tips

- ✓ Printed double sided, charts fit one sheet per direction.
- ✓ When printing, select NONE for Page Scaling, and select Auto-Rotate and Center.
- ✓ Good for tracking SLOW ORDERS. Laminated, a Dry / Wet Marker works great.
- ✓ Working on Color in Low Visibility, knowing distance to next signal can be handy.
- ✓ Bright colored removable labels are great for notes. I like the round florescent orange ones. They grab your attention. I use for Radio Channel changes, slow orders, x orders etc.
- ✓ Add your own notes with a PDF editor

**REFERENCE ONLY  
For Learning Purposes  
Mistakes Guaranteed**

These are Grade & Speed Charts with a little extra  
Room limitations prevents more information.  
Went with priority order of:

SPEED - GRADE - DETECTORS - SIGNALS - TRACK - XINGS - FOOTAGE

I hope you find charts helpful.  
For the most accurate charts possible,  
I will need to hear from you.  
That's how it works.

www.FOGCHART.com

*Jerry Kern (Branchman)*