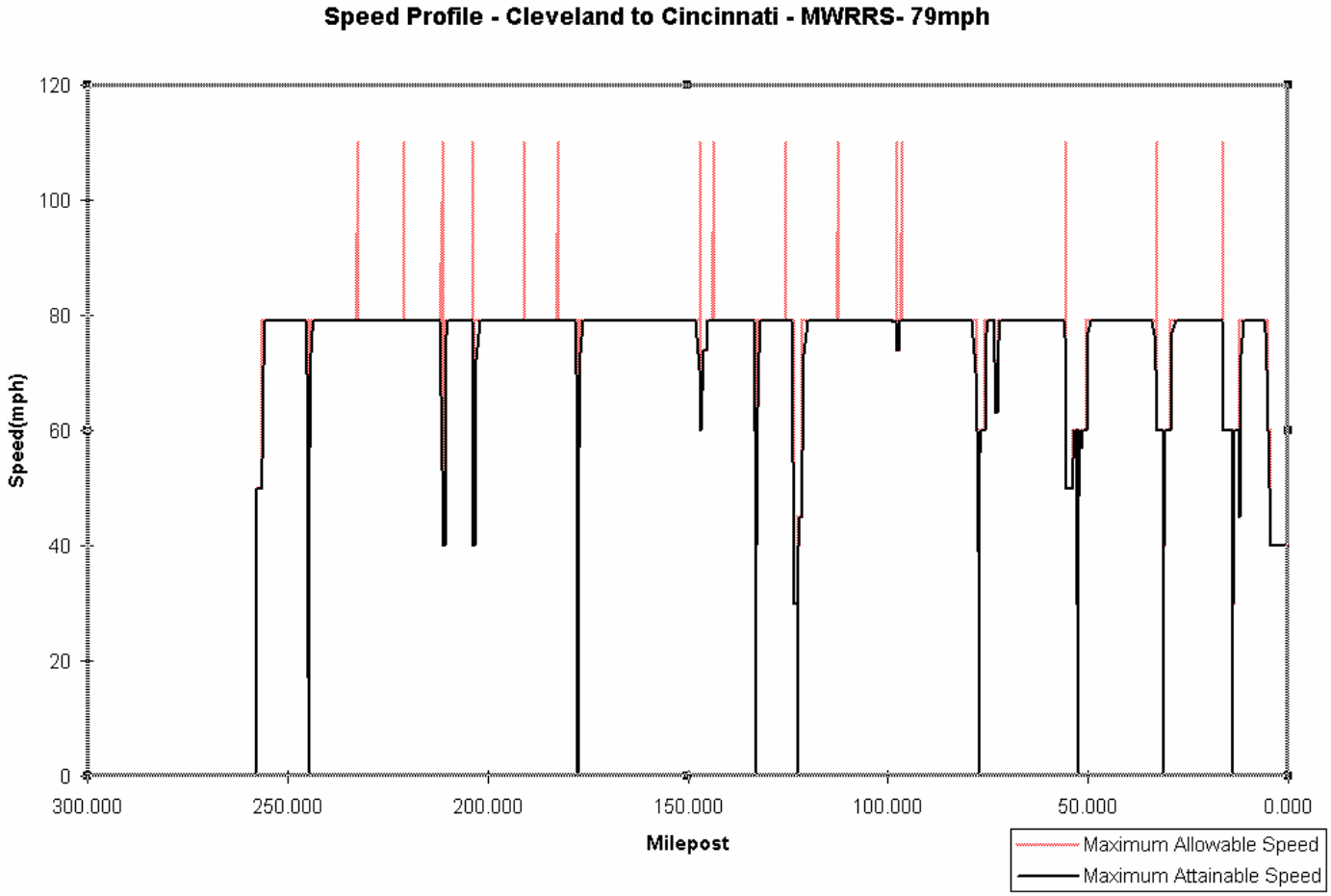
A15 - Train Speed Profiles - 79-mph and 110-mph

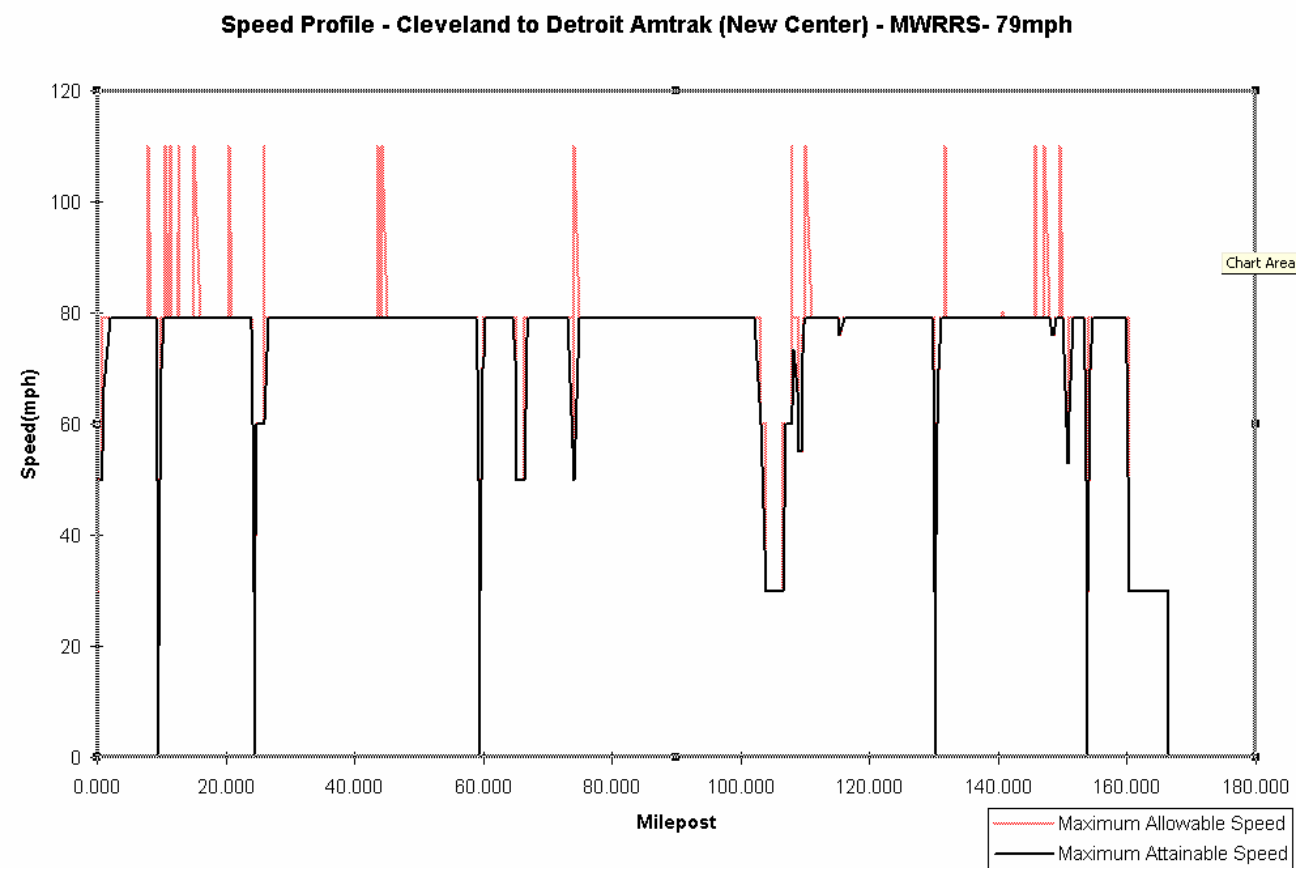
79-mph Speed Profiles

Cleveland to Cincinnati



Locomotion Overall Travel Time: 3:50 hours

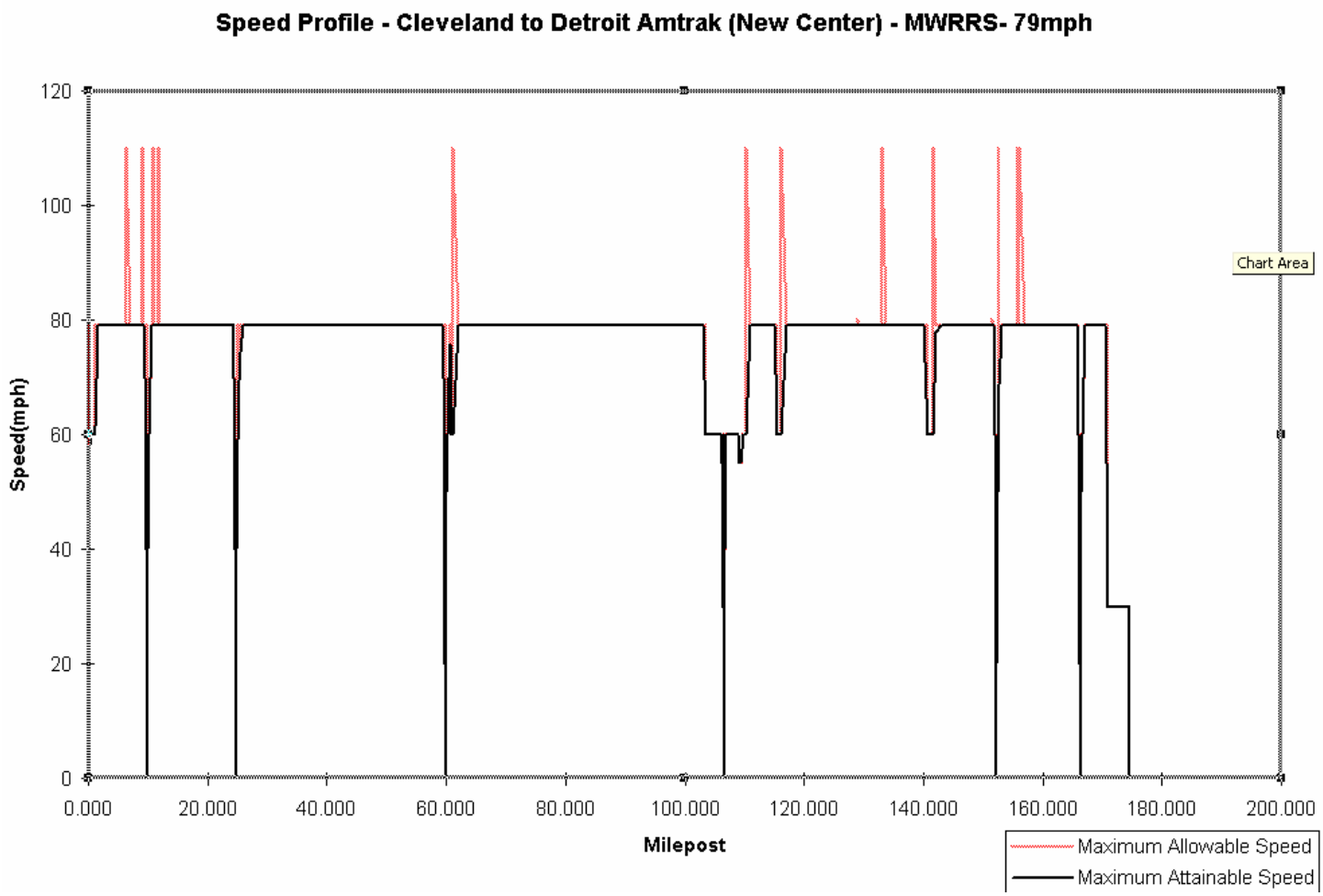
Cleveland to Detroit via Wyandotte



Locomotion Overall Travel Time: 2:35 hours

Note: this run corresponds to a maximum 79-mph speed limit. However, the "Modern" scenario as defined in the Ohio Hub report had a 110-mph speed limit from Cleveland to Toledo, since it assumed that this segment would be built by the MWRRS.

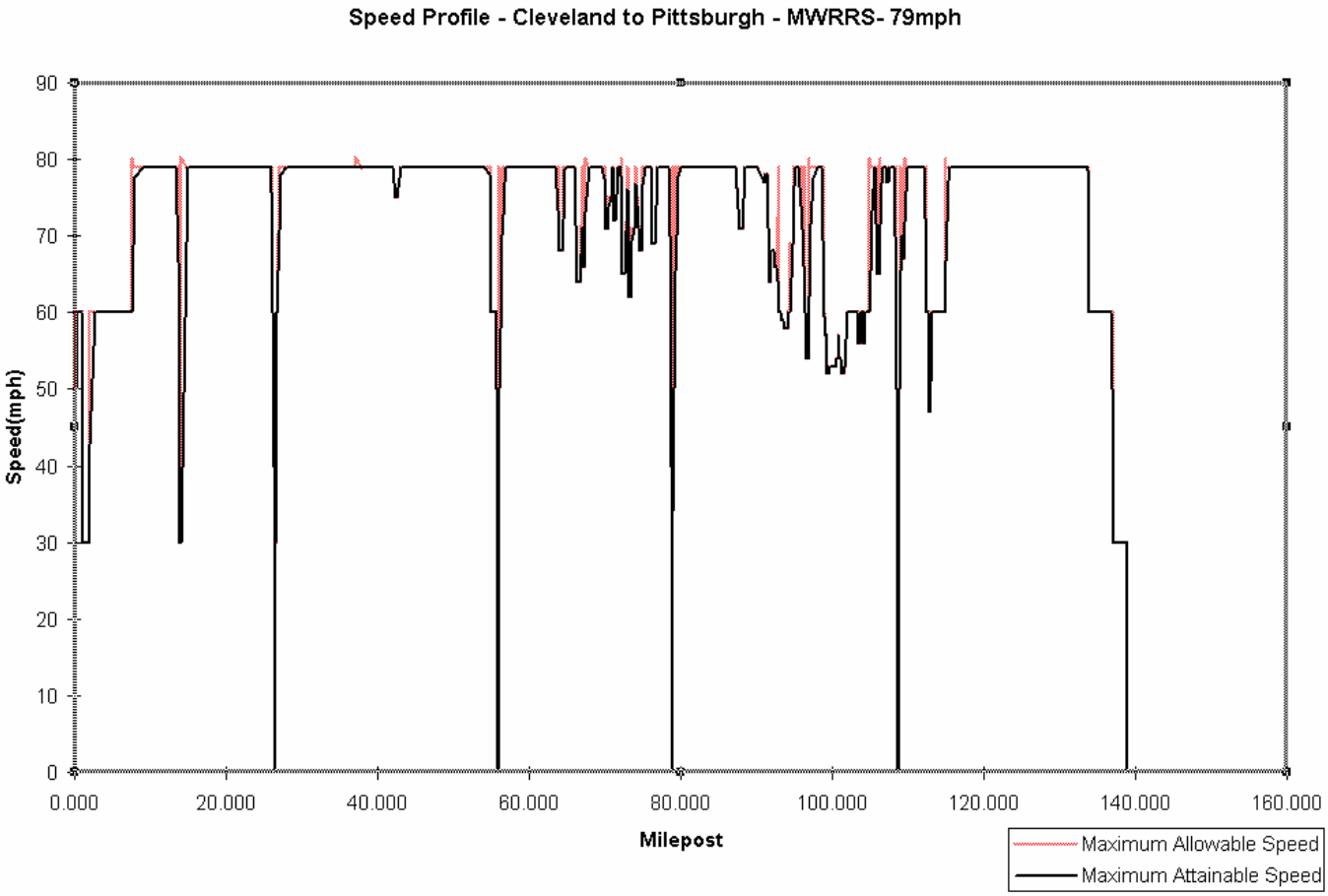
Cleveland to Detroit via Dearborn



Locomotion Overall Travel Time: 2:37:08 hours

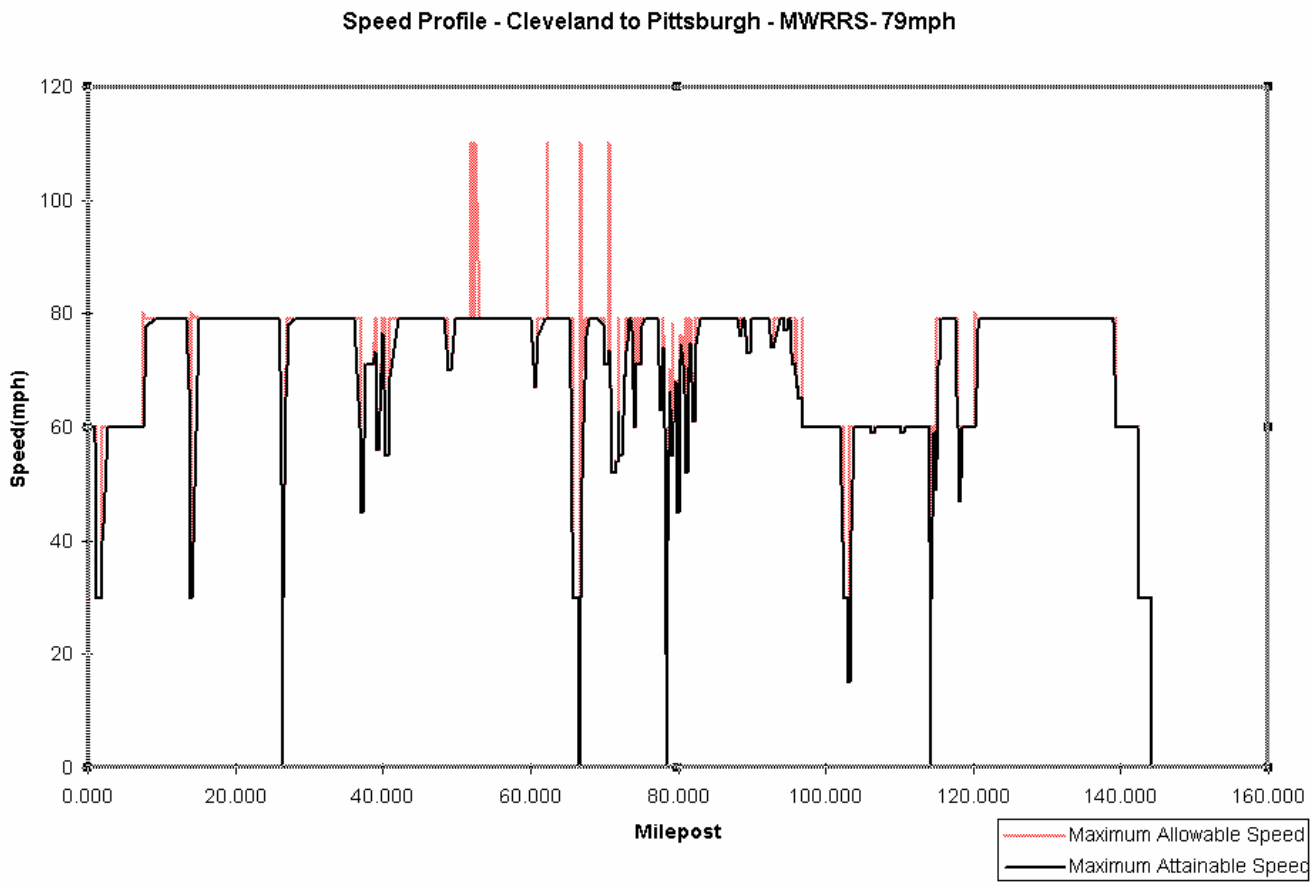
Note: this run corresponds to a maximum 79-mph speed limit. However, the "Modern" scenario as defined in the Ohio Hub report had a 110-mph speed limit from Cleveland to Toledo, since it assumed that this segment would be built by the MWRRS.

Cleveland to Pittsburgh via Alliance



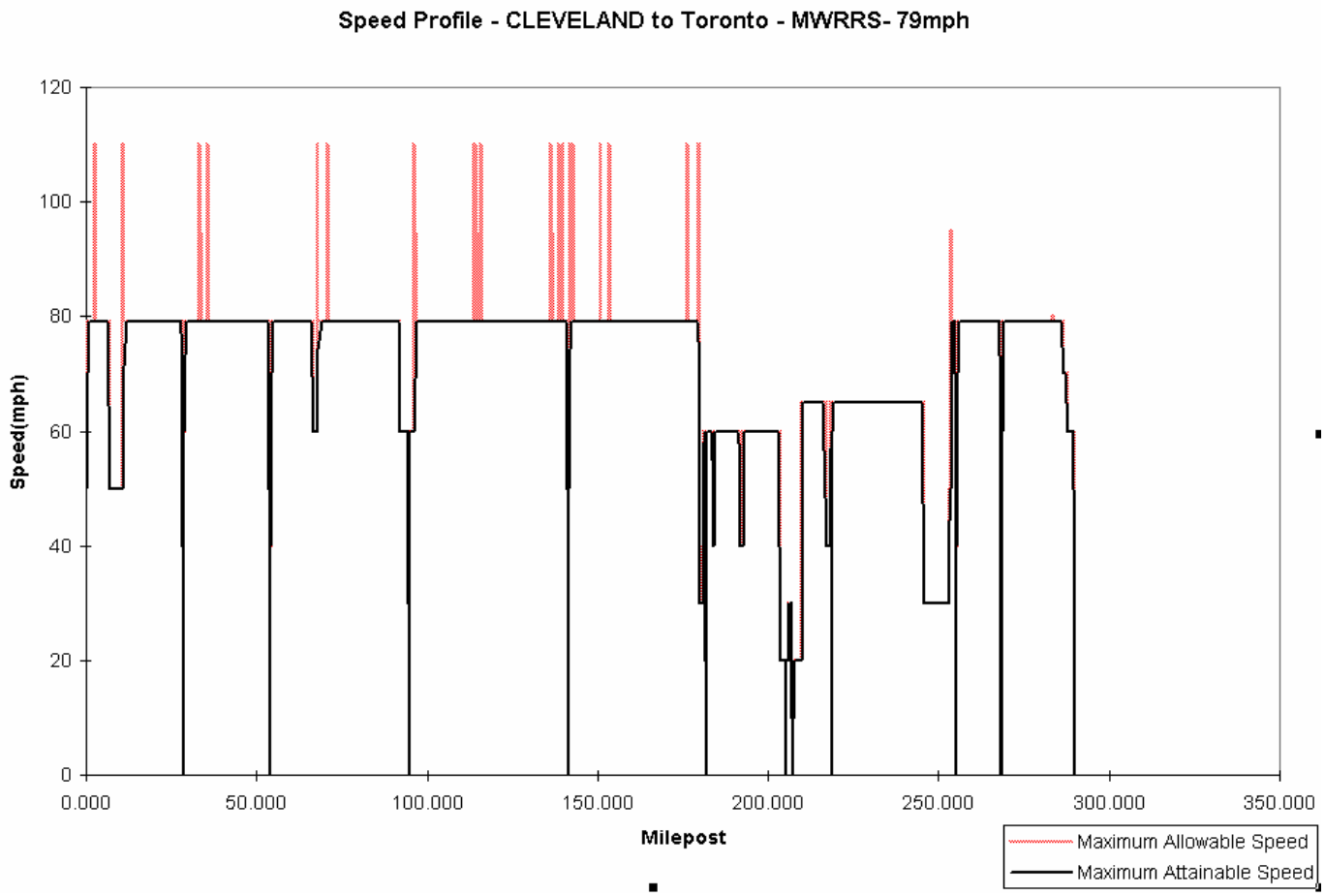
Locomotion Overall Travel Time: 2:07:47 hours

Cleveland to Pittsburgh via Youngstown



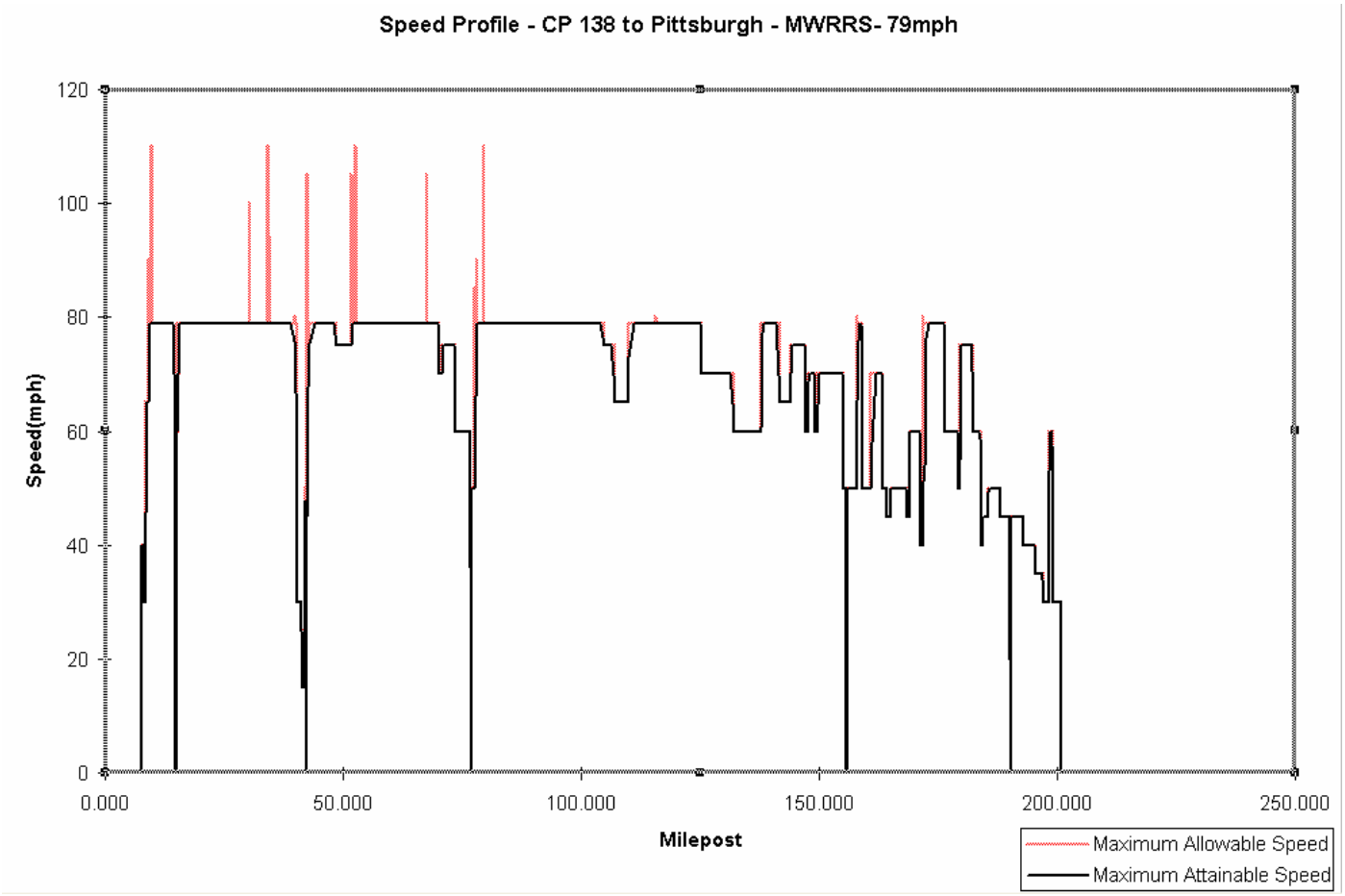
Locomotion Overall Travel Time: 2:18:54 hours

Cleveland to Toronto



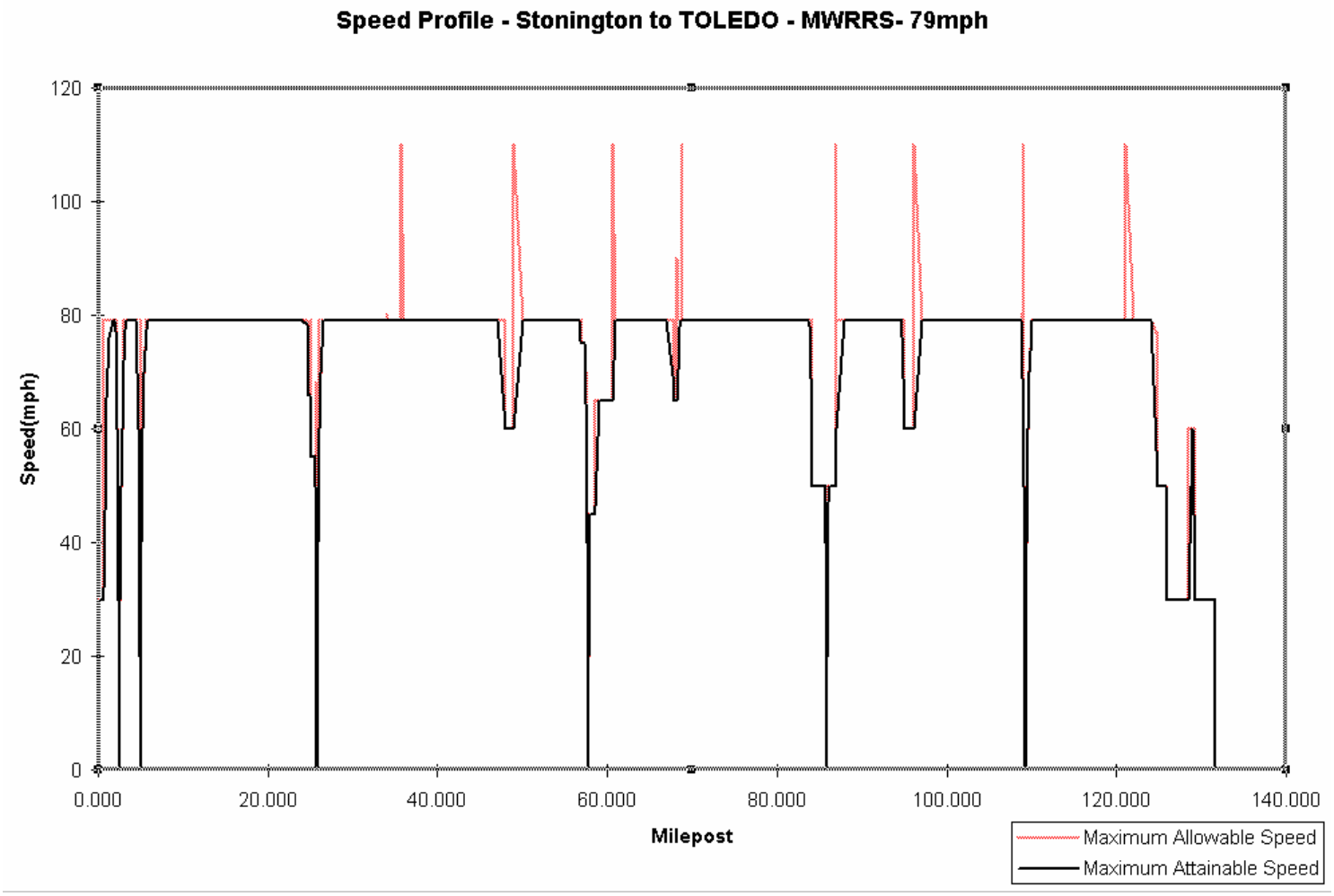
Locomotion Overall Travel Time: 4:52 hours

Columbus to Pittsburgh



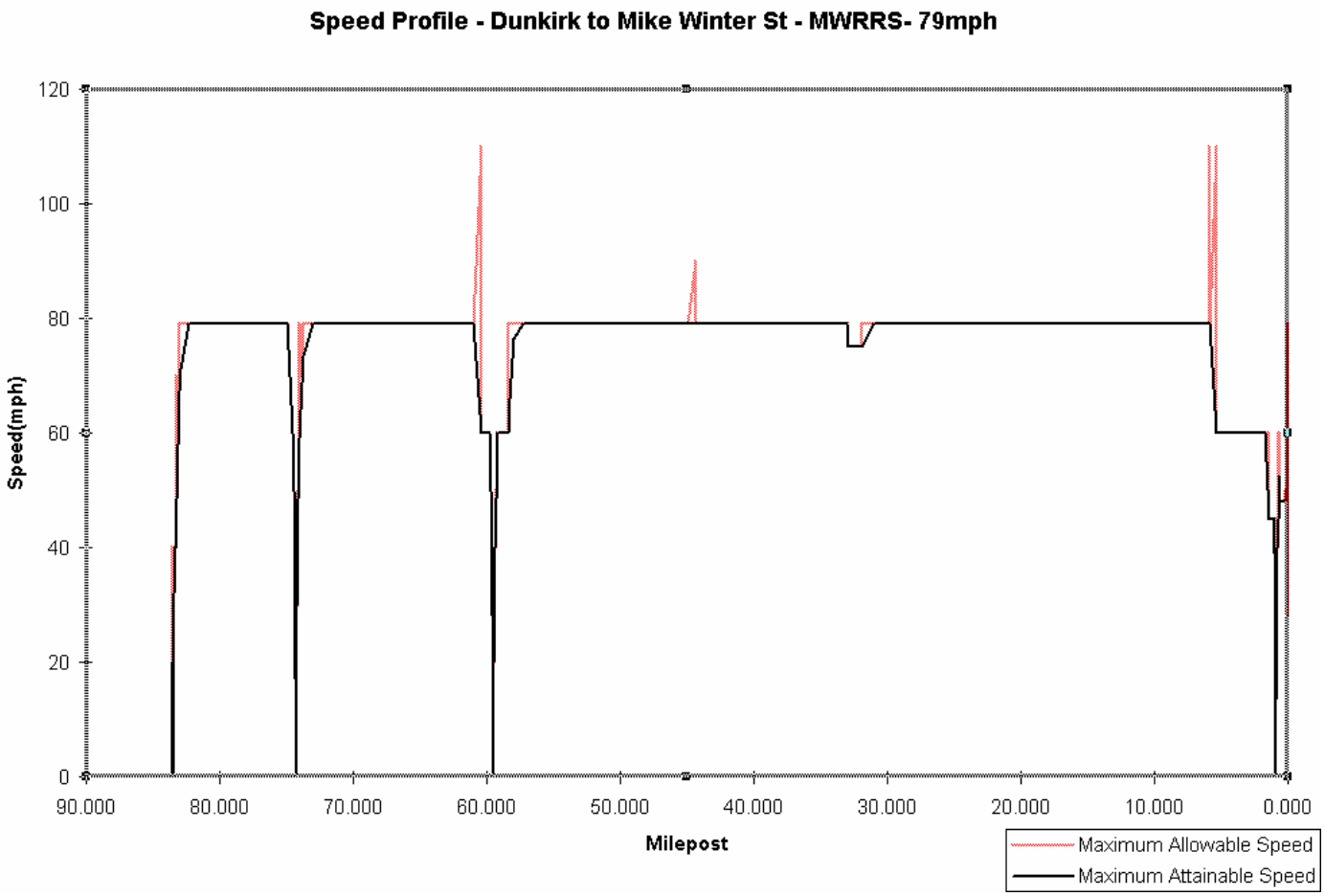
Locomotion Overall Travel Time: 3:10 hours

Columbus to Toledo



Locomotion Overall Travel Time: 2:08 hours

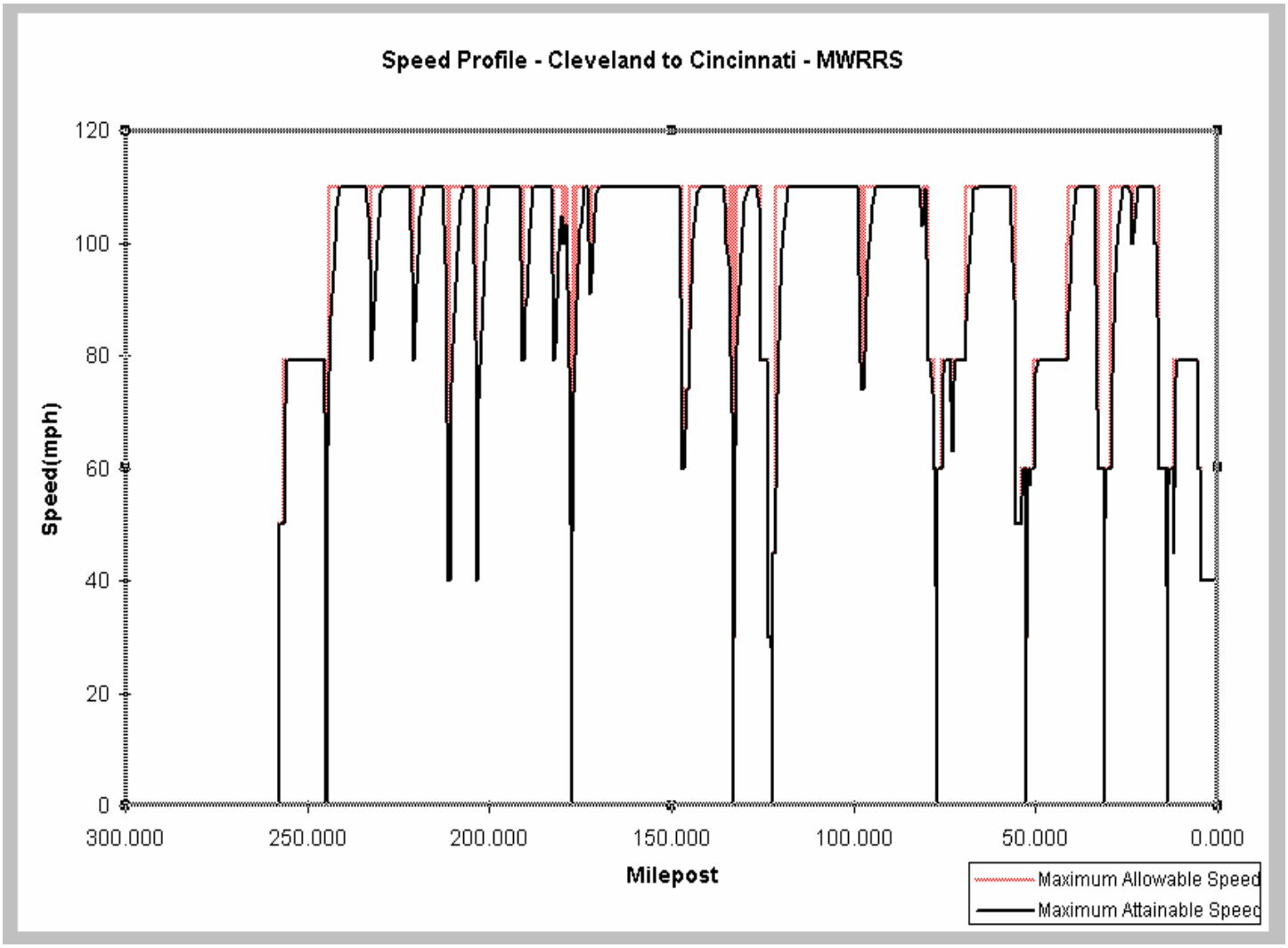
Dunkirk to Ft. Wayne



Locomotion Overall Travel Time: 1:17 hours

110-mph Speed Profiles

Cleveland to Cincinnati

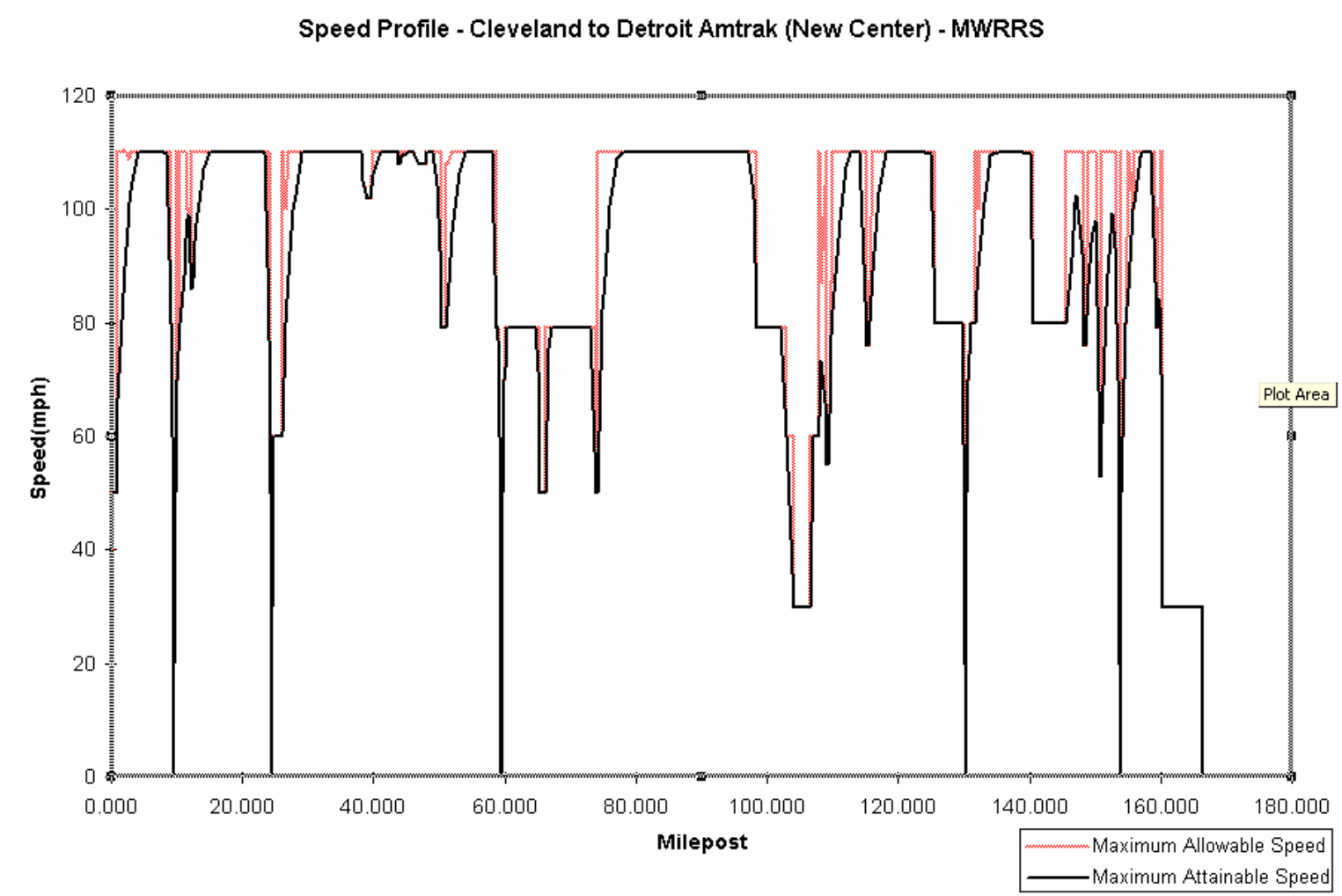


From Locomotion: overall time 3:15:01 (195 minutes)

From Train Schedule: 3:49 (229 minutes)

Slack Time Percentage: 17%

Cleveland to Detroit via Wyandotte

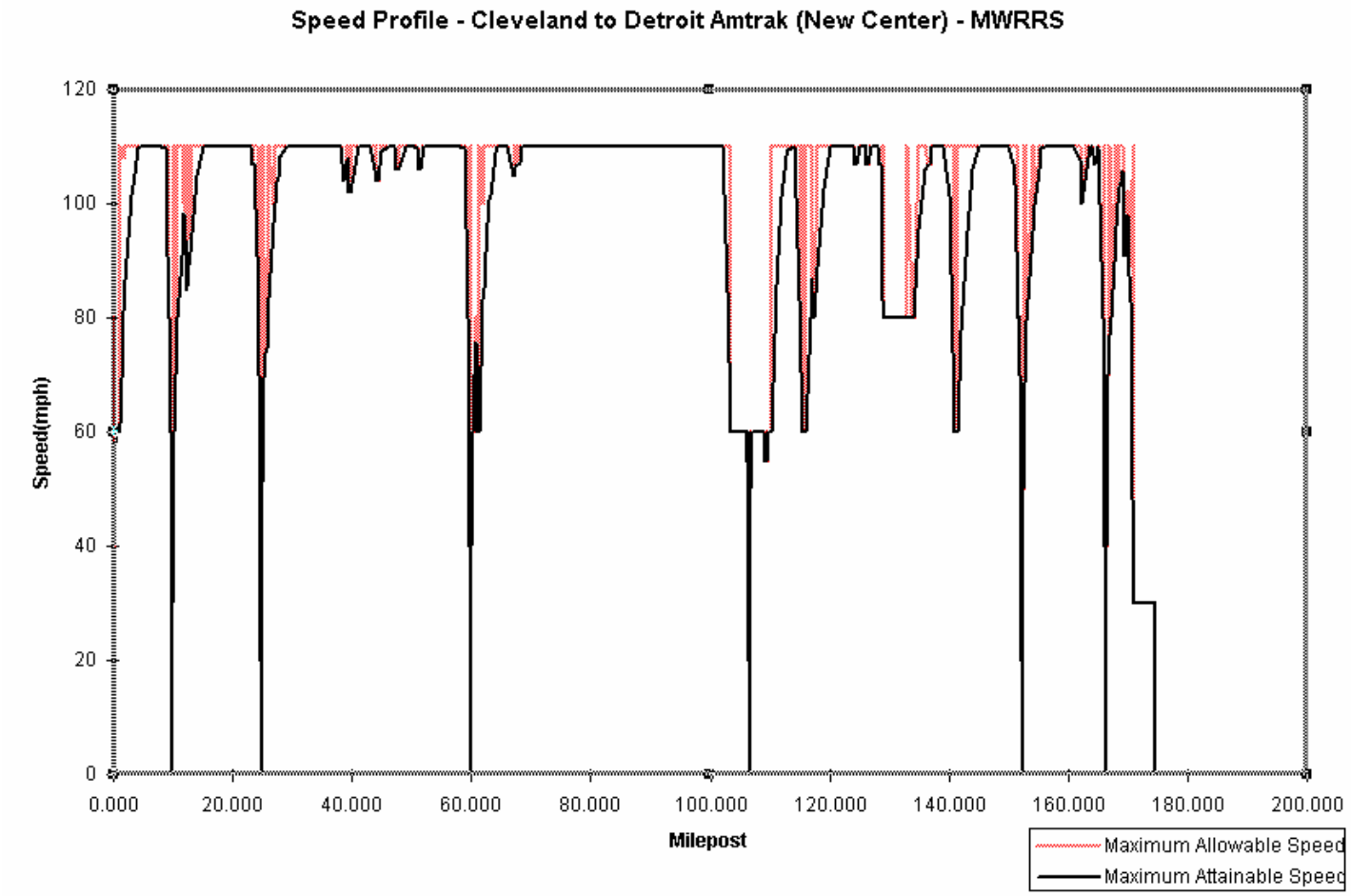


From Locomotion: overall time 2:14:05 (134 minutes)

From Train Schedule: 2:40 (160 minutes)

Slack Time Percentage: 19%

Cleveland to Detroit via Dearborn

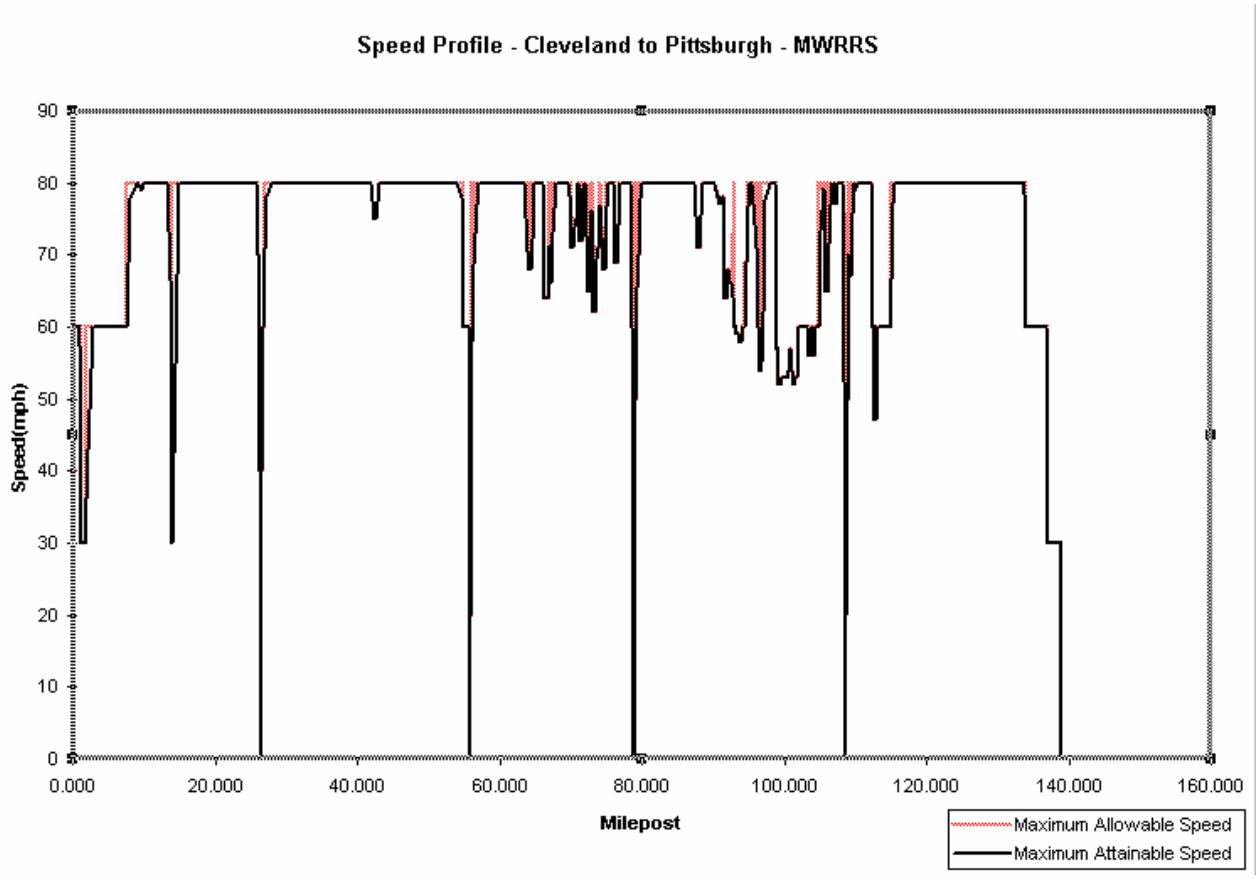


From Locomotion: overall time 2:09:08 (129 minutes)

From Train Schedule: 2:43 (163 minutes)

Slack Time Percentage: 26%

Cleveland to Pittsburgh via Alliance

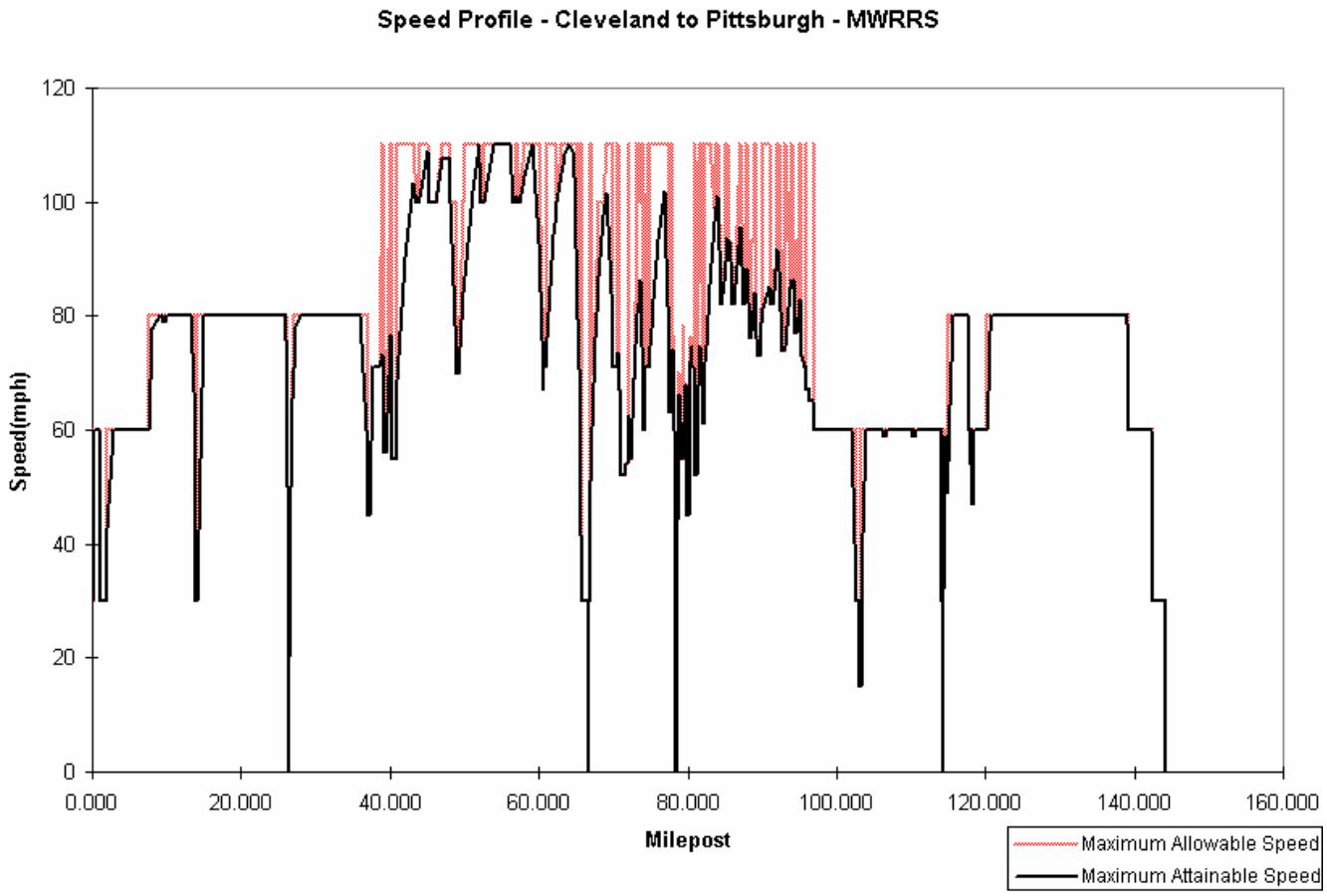


From Locomotion: overall time 2:07:47 (128 minutes)

From Train Schedule: 2:22 (142 minutes)

Slack Time Percentage: 10.94%

Cleveland to Pittsburgh via Youngstown



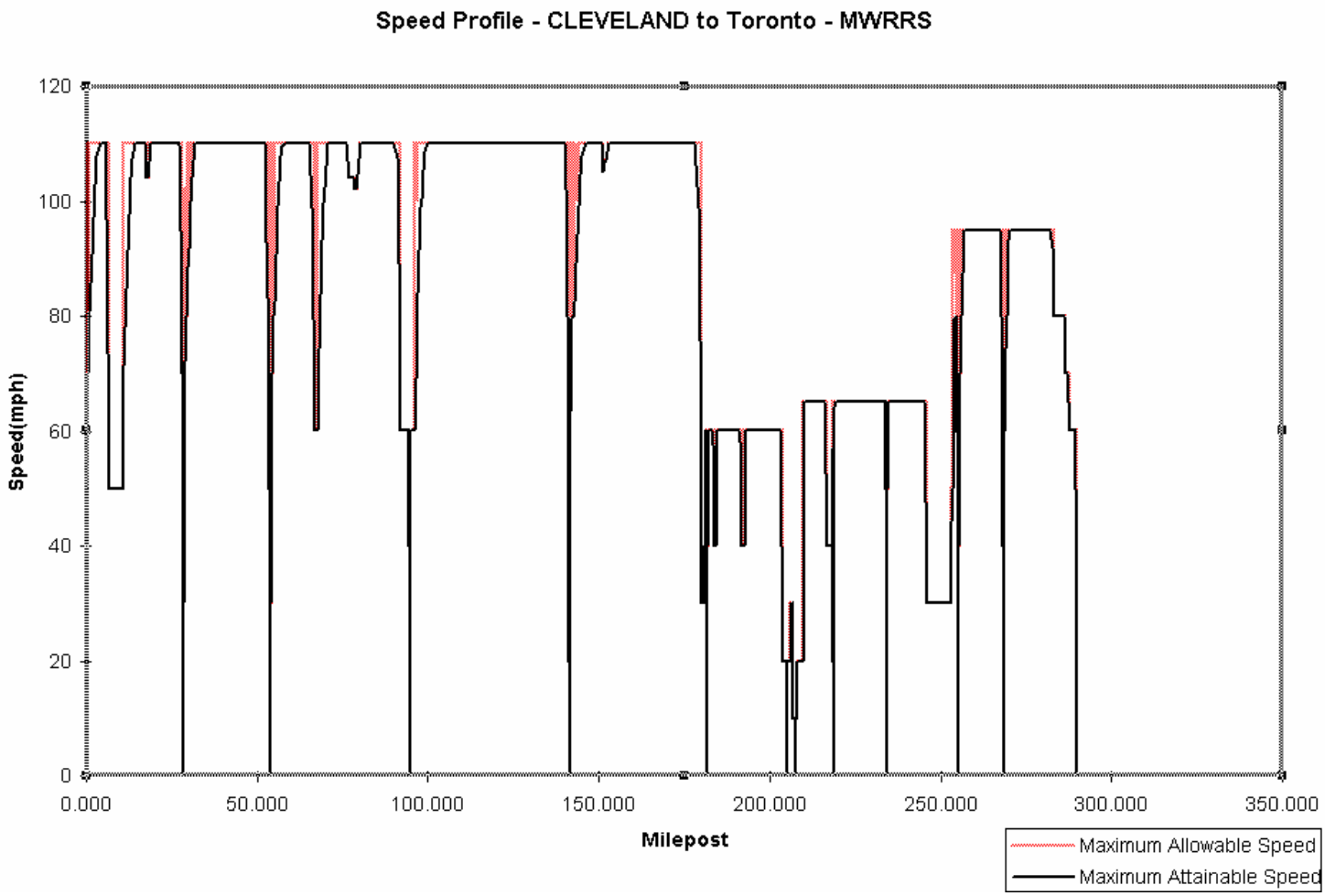
From Locomotion: overall time 2:13:35 (133 minutes)

From Train Schedule: 2:31 (151 minutes)

Slack Time Percentage: 13.53%

The 110-mph speed can be attained over only short distances. However, there is a 60-mph speed limit from CP 75 near Moravia, to CP Rochester which is severely limiting the performance of this alignment. This segment could be evaluated for higher speeds, but currently reflects the speed limits that are reflected in the archived Trackman profile.

Cleveland to Toronto

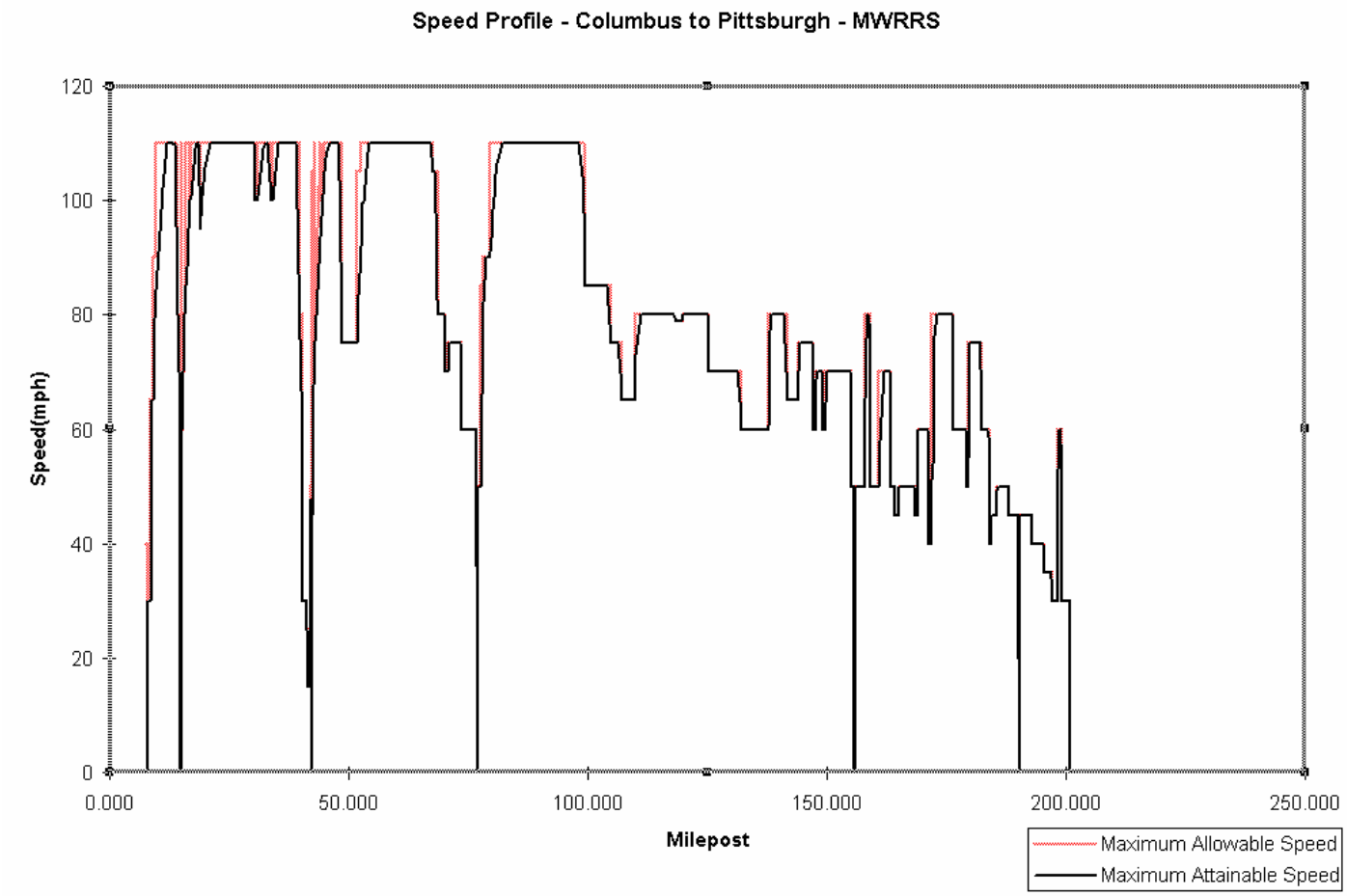


From Locomotion: overall time 4:15:57 (256 minutes)

From Train Schedule: 5:00 (300 minutes)

Slack Time Percentage: 17%

Columbus to Pittsburgh

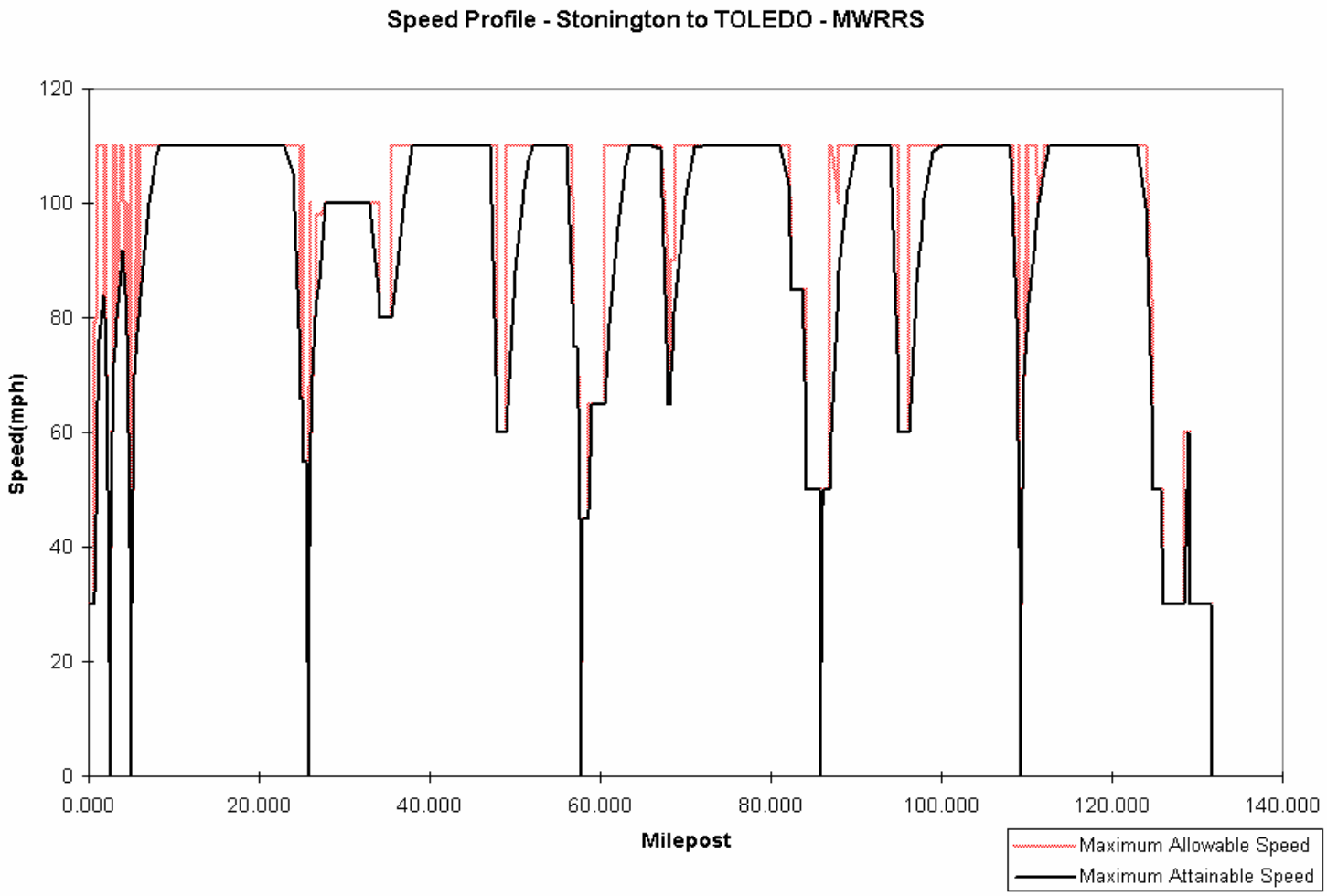


From Locomotion: overall time 2:56:42 (177 minutes)

From Train Schedule: 3:15 (195 minutes)

Slack Time Percentage: 10.17%

Columbus to Toledo

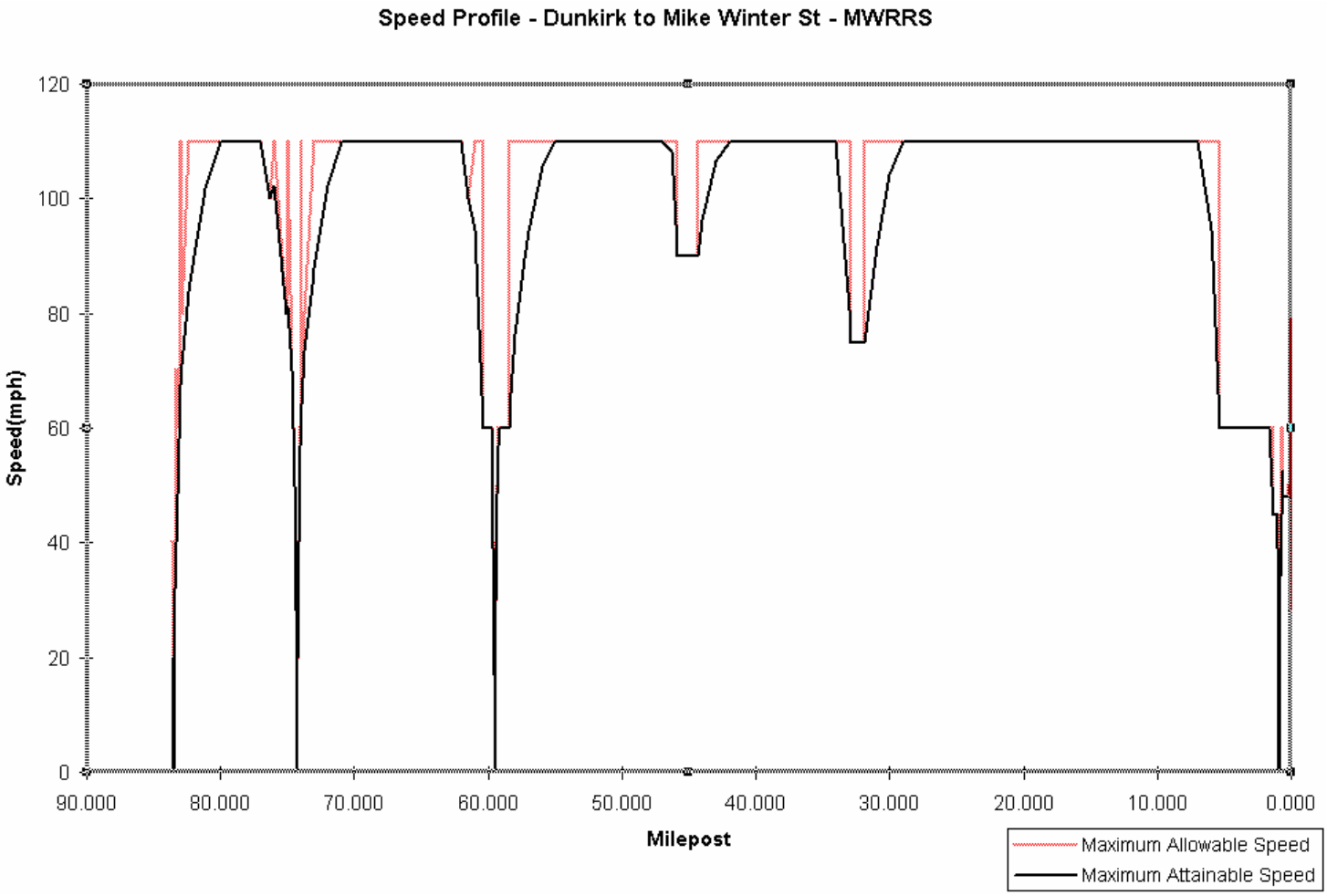


From Locomotion: overall time 1:49:12 (109 minutes)

From Train Schedule: 2:11 (131 minutes)

*Slack Time Percentage: 20%

Dunkirk to Ft. Wayne



From Locomotion: overall time 1:03:18 (63 minutes)

From Train Schedule: 1:06 (66 minutes)

Slack Time Percentage: 5%