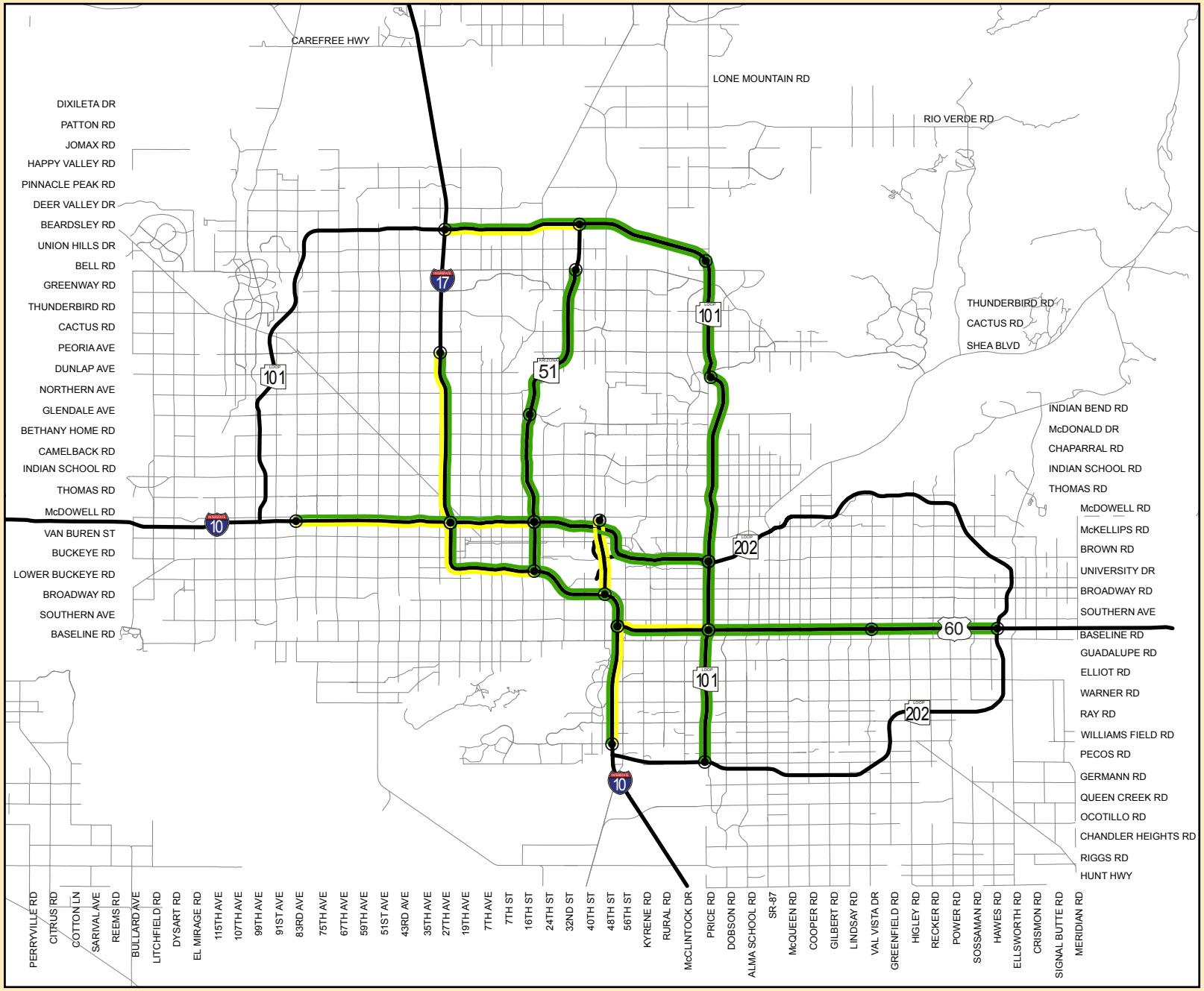
DRAFT

MARICOPA ASSOCIATION of GOVERNMENTS

Performance Measures Study

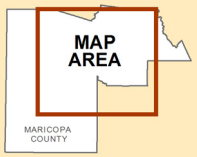
Average AM Peak Period Corridor Speeds General Purpose Lanes



Legend

Average Corridor Speeds (2011)

- 25 - 40 MPH
- 40 - 55 MPH
- > 55 MPH
- Existing Freeway
- Major Roads
- Corridor Breakpoints



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.

0 5 10 15 20 Miles

N

Source: Maricopa Association of Governments

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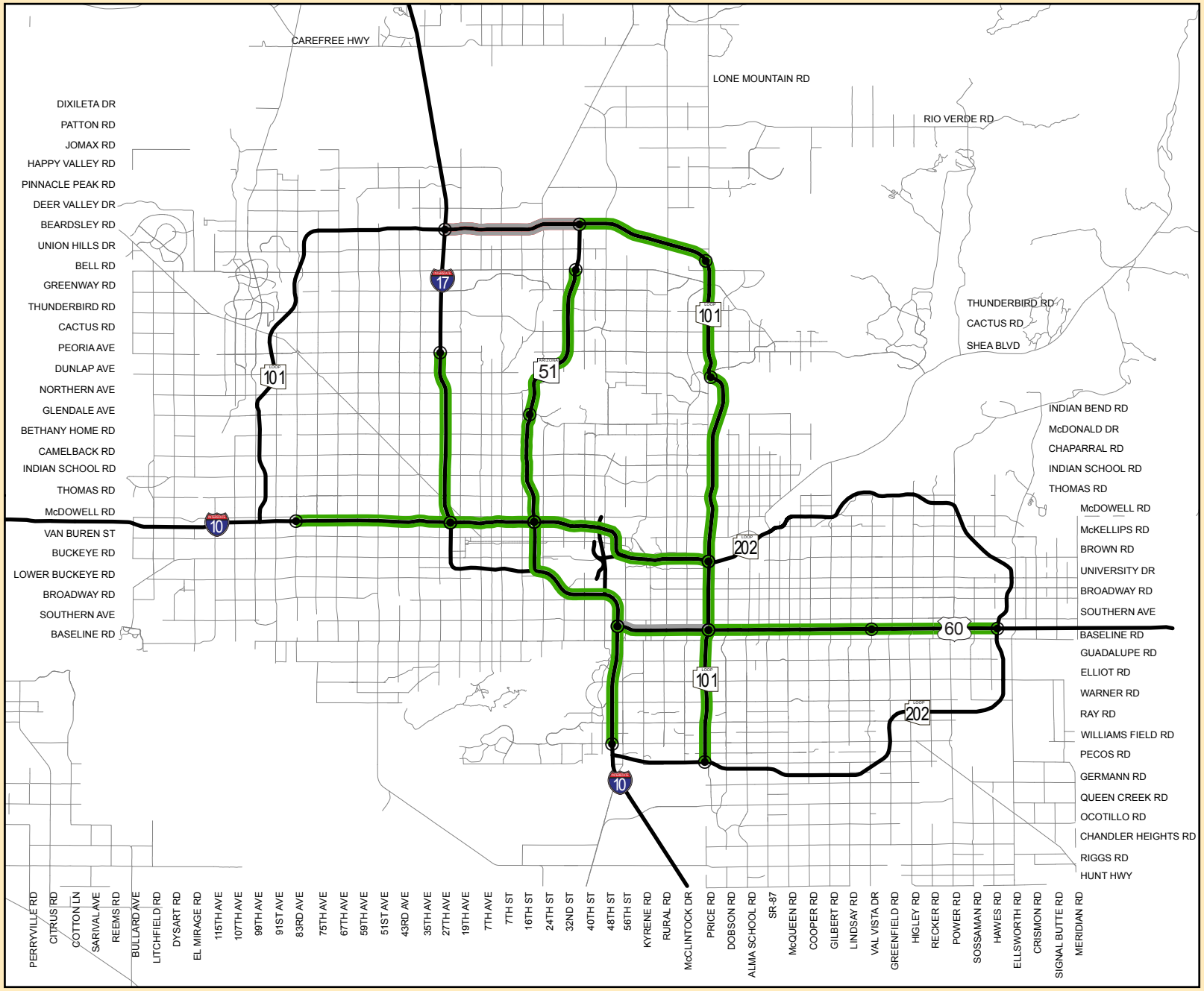
MARICOPA ASSOCIATION of GOVERNMENTS

Performance Measures Study

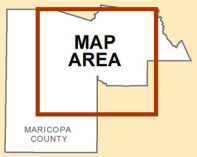
Average AM Peak Period Corridor Speeds HOV Lanes



Legend

Average Corridor Speeds (2011)

- 25 - 40 MPH
- 40 - 55 MPH
- > 55 MPH
- Data Not Valid
- Existing Freeway
- Major Roads
- Corridor Breakpoints



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0 5 10 15 20 Miles

N

Source: Maricopa Association of Governments

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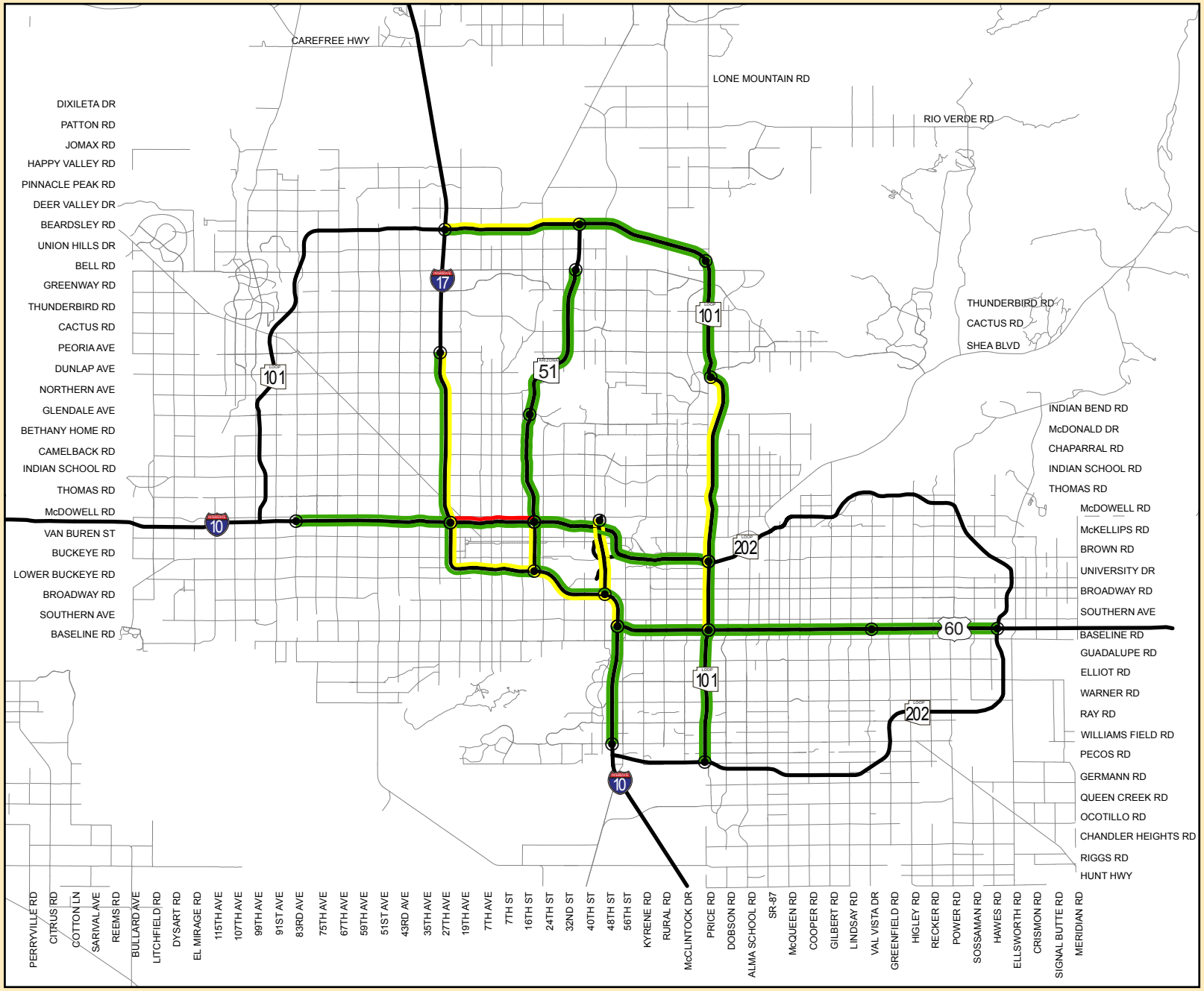
MARICOPA ASSOCIATION of GOVERNMENTS

Performance Measures Study

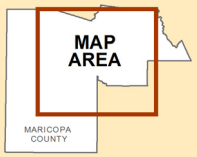
Average PM Peak Period Corridor Speeds General Purpose Lanes



Legend

Average Corridor Speeds (2011)

- 25 - 40 MPH
- 40 - 55 MPH
- > 55 MPH
- Existing Freeway
- Major Roads
- Corridor Breakpoints



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0 5 10 15 20 Miles

N

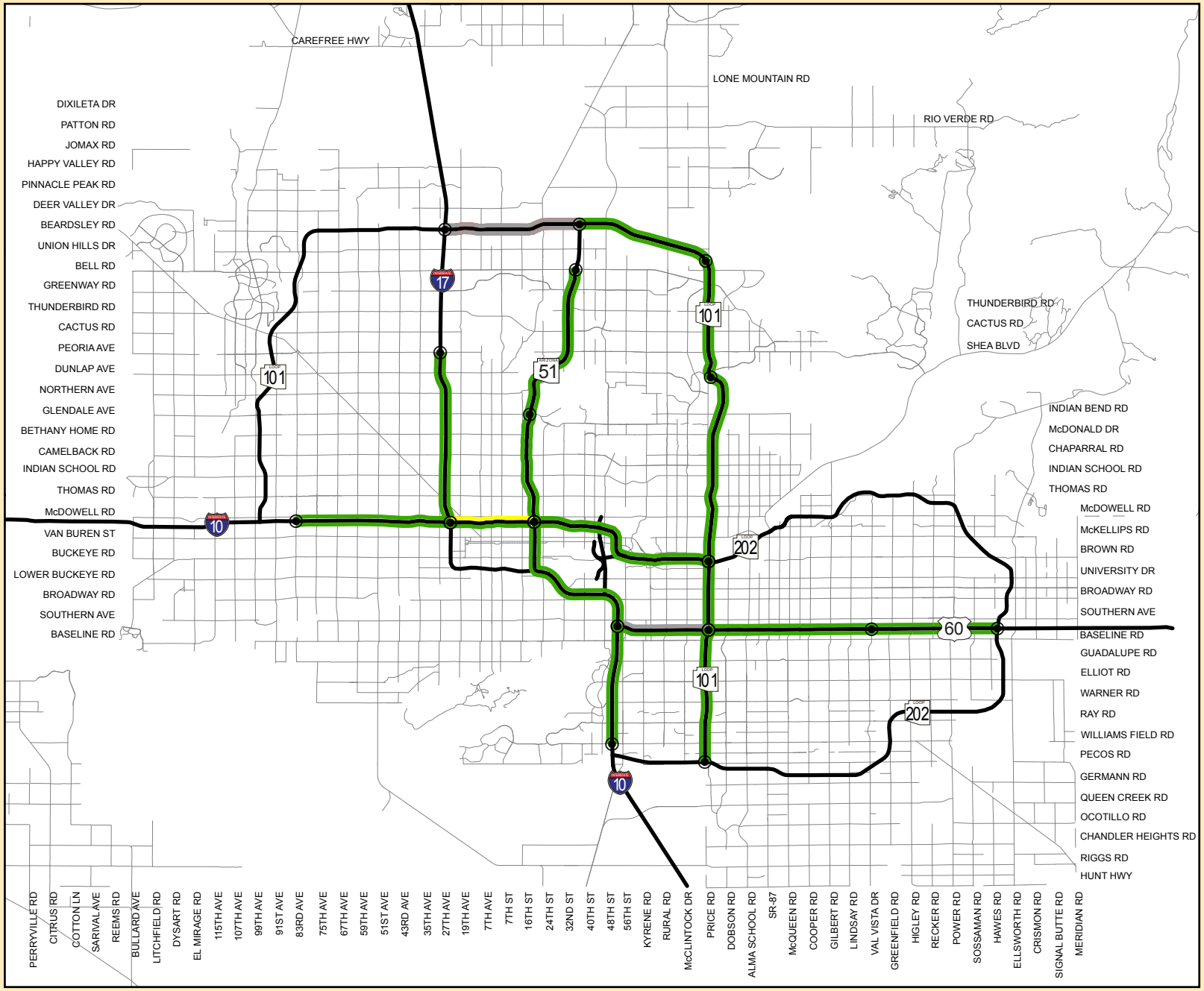
Source: Maricopa Association of Governments

DRAFT

MARICOPA ASSOCIATION of GOVERNMENTS

Performance Measures Study

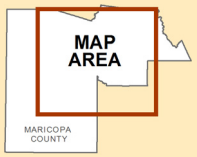
Average PM Peak Period Corridor Speeds HOV Lanes



Legend

Average Corridor Speeds (2011)

- 25 - 40 MPH
- 40 - 55 MPH
- > 55 MPH
- Data Not Valid
- Existing Freeway
- Major Roads
- Corridor Breakpoints



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0 5 10 15 20 Miles

N

Source: Maricopa Association of Governments

Results for Annual Average Peak Period Speed by Corridor

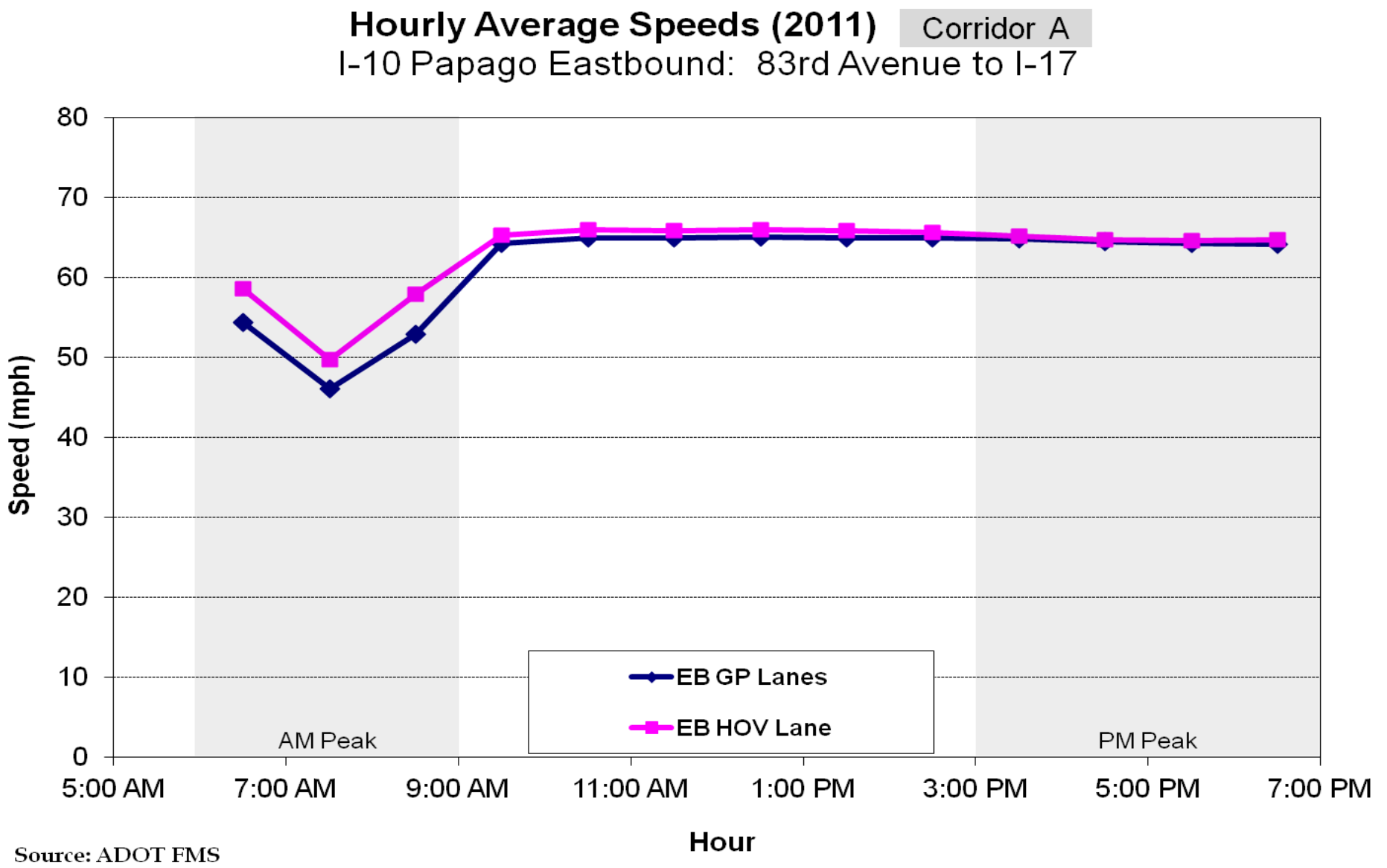
Corridor ID	Freeway Corridor	Dir	From	To	Average AM Peak Period Speed (mph)					
					General-purpose Lanes			HOV Lanes		
					2010	2011	% Change	2010	2011	% Change
A	I-10 Papago	EB	83rd Avenue	I-17	49.8	51.1	2.6%	53.4	55.4	3.8%
		WB	I-17	83rd Avenue	60.4	63.2	4.5%	61.8	65.6	6.0%
B	I-10 Papago	EB	I-17	SR 51/Loop 202	53.5	54.0	1.0%	62.5	63.3	1.3%
		WB	SR 51/Loop 202	I-17	58.5	60.8	3.9%	65.8	68.8	4.6%
C	I-10 Maricopa	EB	SR 51/Loop 202	U.S. 60	61.5	62.3	1.3%	66.7	67.1	0.7%
		WB	U.S. 60	SR 51/Loop 202	57.4	61.2	6.6%	59.7	64.3	7.6%
D	I-10 Maricopa	EB	U.S. 60	Chandler Blvd	64.7	66.8	3.2%	68.3	70.7	3.6%
		WB	Chandler Blvd	U.S. 60	43.2	46.0	6.6%	58.7	61.3	4.4%
E	I-17	NB	Maricopa TI	I-10	58.5	60.1	2.8%	na	na	na
		SB	I-10	Maricopa TI	53.6	53.3	-0.5%	na	na	na
F	I-17	NB	I-10	Peoria Ave.	58.0	60.6	4.4%	61.3	63.9	4.2%
		SB	Peoria Ave.	I-10	50.3	55.8	10.9%	60.2	62.6	4.0%
G	SR 51	NB	I-10/Loop 202	Glendale Avenue	62.6	65.9	5.4%	66.9	68.4	2.2%
		SB	Glendale Avenue	I-10/Loop 202	54.8	58.6	7.1%	58.9	61.7	4.8%
H	SR 51	NB	Glendale Avenue	Bell Road	65.1	69.2	6.3%	62.1	65.9	6.2%
		SB	Bell Road	Glendale Avenue	61.2	63.3	3.5%	65.7	68.7	4.6%
I	Loop 202	EB	I-10/SR 51	Loop 101	63.5	66.2	4.2%	not available	70.4	na
		WB	Loop 101	I-10/SR 51	54.9	55.7	1.5%	63.7	67.4	5.8%
J	U.S. 60	EB	I-10	Loop 101	60.6	62.0	2.3%	61.5	63.9	3.9%
		WB	Loop 101	I-10	53.3	53.4	0.2%	not available	0.0	na
K	U.S. 60	EB	Loop 101	Val Vista Dr.	60.9	62.9	3.2%	61.7	63.5	2.9%
		WB	Val Vista Dr.	Loop 101	59.3	60.0	1.3%	62.3	65.5	5.1%
L	U.S. 60	EB	Val Vista Dr.	Loop 202	65.7	67.3	2.4%	64.1	70.3	9.7%
		WB	Loop 202	Val Vista Dr.	64.1	66.4	3.7%	68.1	73.2	7.4%
M	SR 143	NB	I-10	Loop 202/ McDowell	54.6	54.3	-0.6%	na	na	na
		SB	Loop 202/ McDowell	I-10	55.9	52.4	-6.3%	na	na	na
N	Loop 101	NB	Loop 202 Santan	U.S. 60	not available	56.0	na	not available	66.3	na
		SB	U.S. 60	Loop 202 Santan	not available	68.5	na	not available	74.4	na
O	Loop 101	NB	U.S. 60	Loop 202 Red Mountain	53.0	56.1	5.8%	63.9	67.6	5.7%
		SB	Loop 202 Red Mountain	U.S. 60	64.8	67.5	4.2%	69.7	72.6	4.2%
P	Loop 101	NB	Loop 202 Red Mountain	90th St.	55.4	56.6	2.2%	63.9	66.1	3.4%
		SB	90th St.	Loop 202 Red Mountain	63.4	65.5	3.3%	70.0	73.2	4.5%
Q	Loop 101	NB	90th St.	Pima Rd.	62.7	65.4	4.3%	66.6	69.7	4.6%
		SB	Pima Rd.	90th St.	64.0	65.8	2.8%	70.1	72.9	4.0%
R	Loop 101	EB	Pima Rd.	SR 51	60.9	62.6	2.7%	68.5	70.5	2.8%
		WB	SR 51	Pima Rd.	65.9	68.0	3.2%	70.3	71.2	1.3%
S	Loop 101	EB	SR 51	I-17	45.1	48.1	6.7%	not available	not available	na
		WB	I-17	SR 51	65.0	61.9	-4.7%	not available	not available	na

Source: ADOT FMS
na = not applicable

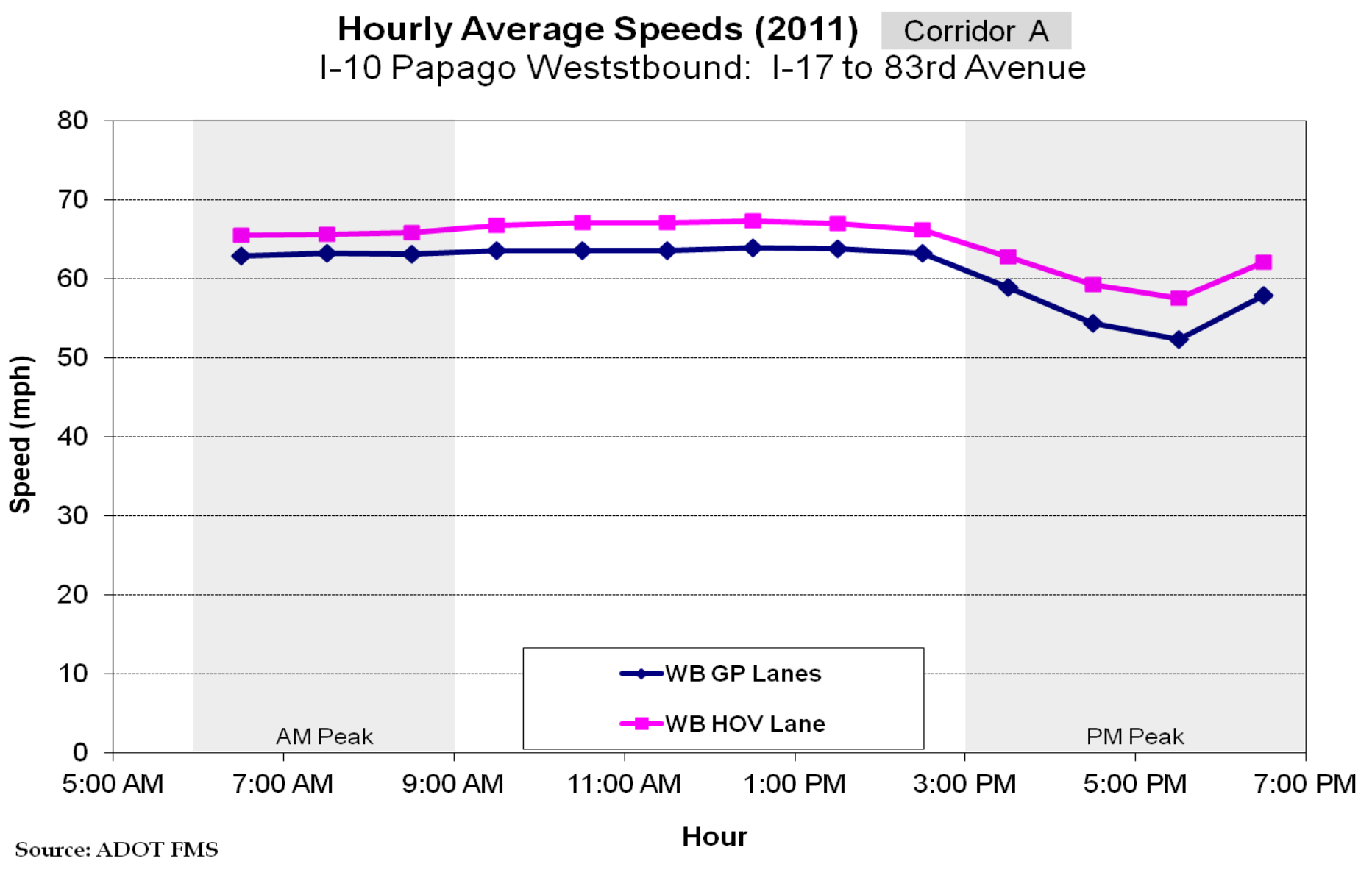
Results for Annual Average Peak Period Speed by Corridor

Corridor ID	Freeway Corridor	Dir	From	To	Average PM Peak Period Speed (mph)					
					General-purpose Lanes			HOV Lanes		
					2010	2011	% Change	2010	2011	% Change
A	I-10 Papago	EB	83rd Avenue	I-17	61.8	64.4	4.2%	61.7	64.8	5.0%
		WB	I-17	83rd Avenue	54.1	55.9	3.3%	58.6	60.5	3.2%
B	I-10 Papago	EB	I-17	SR 51/Loop 202	56.9	56.8	-0.3%	63.5	63.8	0.4%
		WB	SR 51/Loop 202	I-17	37.5	37.2	-0.9%	47.3	47.0	-0.5%
C	I-10 Maricopa	EB	SR 51/Loop 202	U.S. 60	44.4	48.6	9.4%	51.4	56.6	10.3%
		WB	U.S. 60	SR 51/Loop 202	61.5	64.2	4.4%	62.4	65.7	5.3%
D	I-10 Maricopa	EB	U.S. 60	Chandler Blvd	56.7	58.3	2.9%	63.0	66.5	5.6%
		WB	Chandler Blvd	U.S. 60	60.3	63.6	5.6%	67.1	67.2	0.2%
E	I-17	NB	Maricopa TI	I-10	50.9	51.1	0.5%	na	na	na
		SB	I-10	Maricopa TI	57.5	59.7	3.9%	na	na	na
F	I-17	NB	I-10	Peoria Ave.	48.6	49.9	2.8%	55.5	57.5	3.6%
		SB	Peoria Ave.	I-10	56.2	61.6	9.7%	62.3	68.4	9.7%
G	SR 51	NB	I-10/Loop 202	Glendale Avenue	55.8	58.0	3.8%	65.0	66.1	1.7%
		SB	Glendale Avenue	I-10/Loop 202	57.6	61.8	7.3%	60.5	63.6	5.1%
H	SR 51	NB	Glendale Avenue	Bell Road	64.3	68.2	6.1%	62.1	65.7	5.7%
		SB	Bell Road	Glendale Avenue	64.6	66.9	3.6%	67.1	70.2	4.7%
I	Loop 202	EB	I-10/SR 51	Loop 101	62.8	63.2	0.6%	not available	69.6	na
		WB	Loop 101	I-10/SR 51	54.7	59.1	8.0%	62.9	66.9	6.3%
J	U.S. 60	EB	I-10	Loop 101	57.6	58.4	1.3%	62.7	64.9	3.4%
		WB	Loop 101	I-10	62.4	64.0	2.6%	not available	0.0	na
K	U.S. 60	EB	Loop 101	Val Vista Dr.	59.5	61.1	2.8%	62.9	64.8	2.9%
		WB	Val Vista Dr.	Loop 101	62.4	64.7	3.7%	62.2	63.9	2.7%
L	U.S. 60	EB	Val Vista Dr.	Loop 202	66.3	67.6	1.9%	68.8	73.2	6.3%
		WB	Loop 202	Val Vista Dr.	63.6	66.0	3.7%	66.6	71.5	7.3%
M	SR 143	NB	I-10	Loop 202/ McDowell	55.0	54.4	-1.0%	na	na	0.0
		SB	Loop 202/ McDowell	I-10	53.9	53.2	-1.4%	na	na	-0.1
N	Loop 101	NB	Loop 202 Santan	U.S. 60	not available	65.5	na	not available	72.1	na
		SB	U.S. 60	Loop 202 Santan	not available	59.1	na	not available	70.2	na
O	Loop 101	NB	U.S. 60	Loop 202 Red Mountain	63.0	64.8	2.9%	68.6	72.0	4.9%
		SB	Loop 202 Red Mountain	U.S. 60	47.5	46.4	-2.5%	58.4	60.4	3.4%
P	Loop 101	NB	Loop 202 Red Mountain	90th St.	59.9	61.6	2.8%	66.4	68.8	3.5%
		SB	90th St.	Loop 202 Red Mountain	52.0	52.1	0.2%	63.6	65.7	3.3%
Q	Loop 101	NB	90th St.	Pima Rd.	61.7	63.8	3.5%	66.5	69.5	4.5%
		SB	Pima Rd.	90th St.	63.6	65.3	2.8%	69.9	72.9	4.3%
R	Loop 101	EB	Pima Rd.	SR 51	64.3	67.0	4.3%	70.0	73.1	4.5%
		WB	SR 51	Pima Rd.	55.6	58.5	5.2%	66.1	69.0	4.3%
S	Loop 101	EB	SR 51	I-17	59.6	59.0	-1.1%	not available	not available	na
		WB	I-17	SR 51	52.3	51.4	-1.7%	not available	not available	na

Source: ADOT FMS
na = not applicable



Source: ADOT FMS



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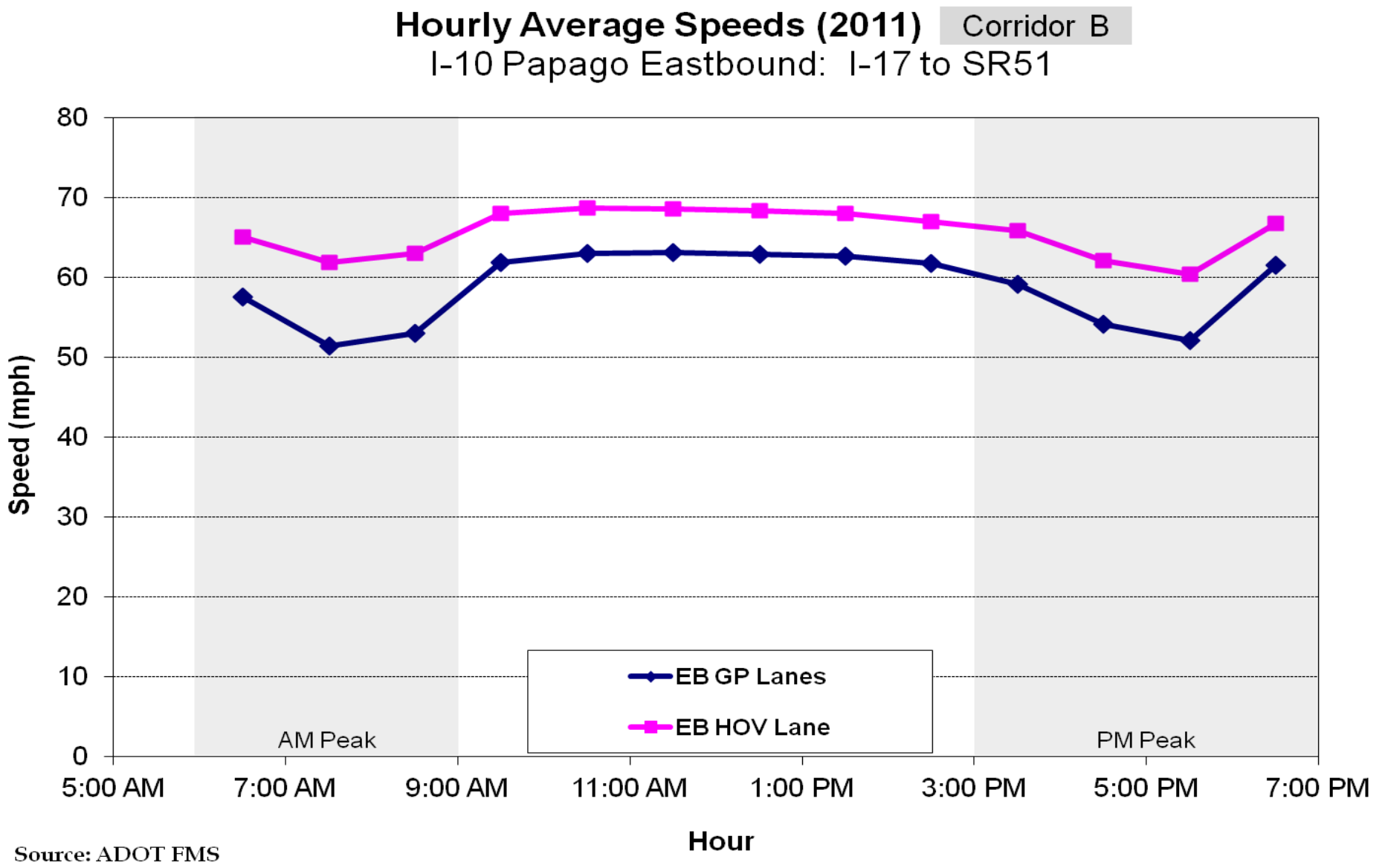
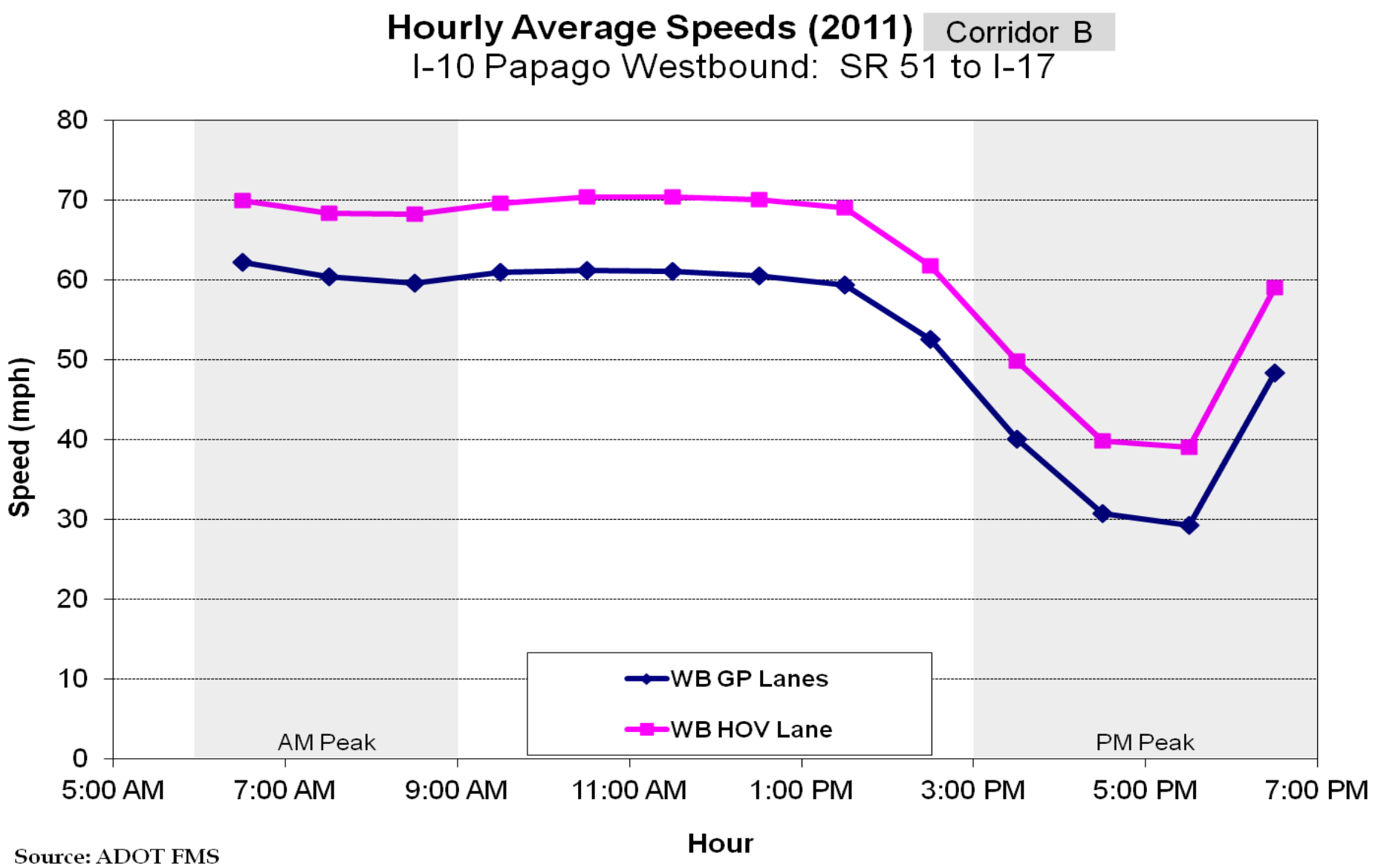
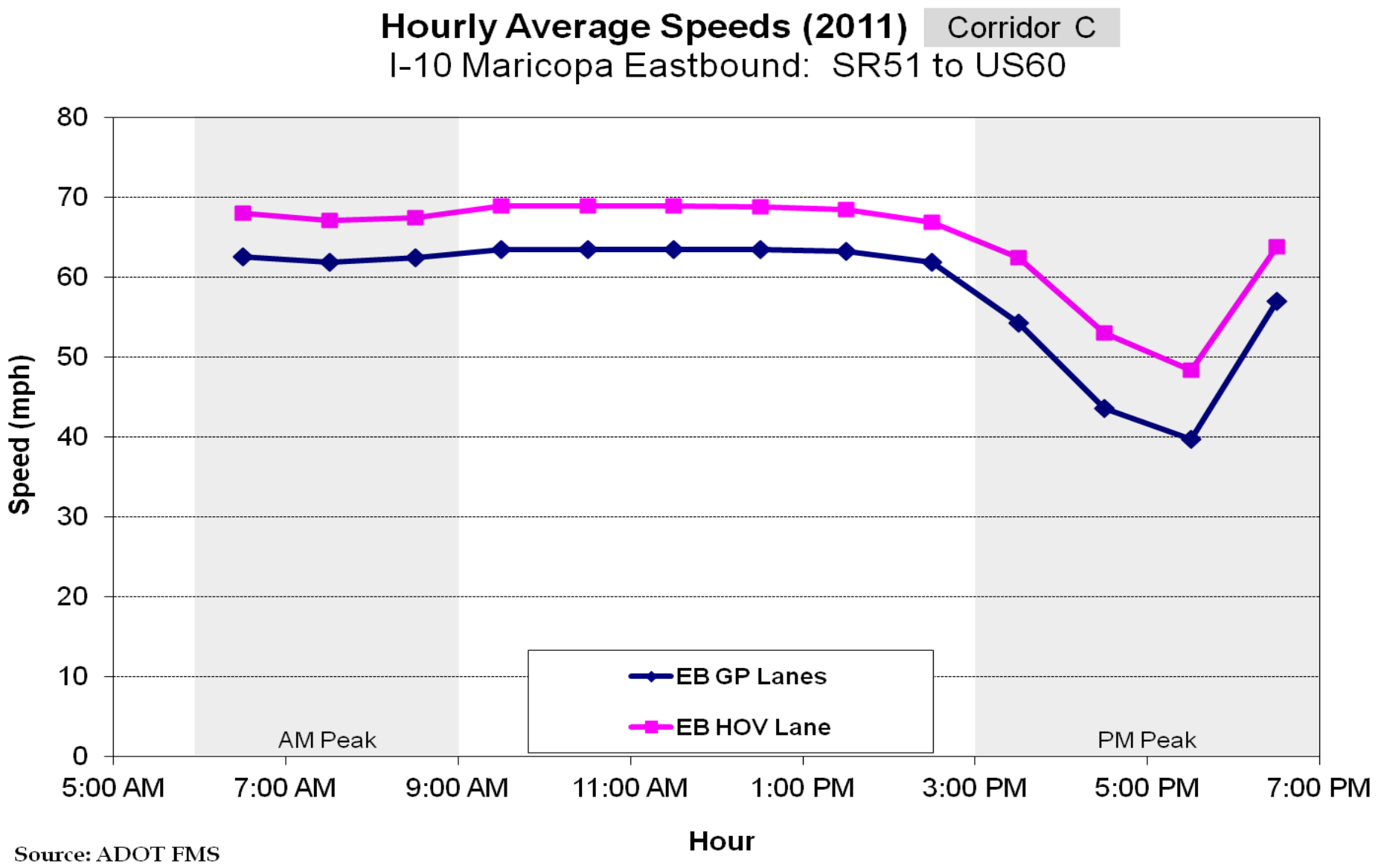


Source: ADOT FMS



Source: ADOT FMS



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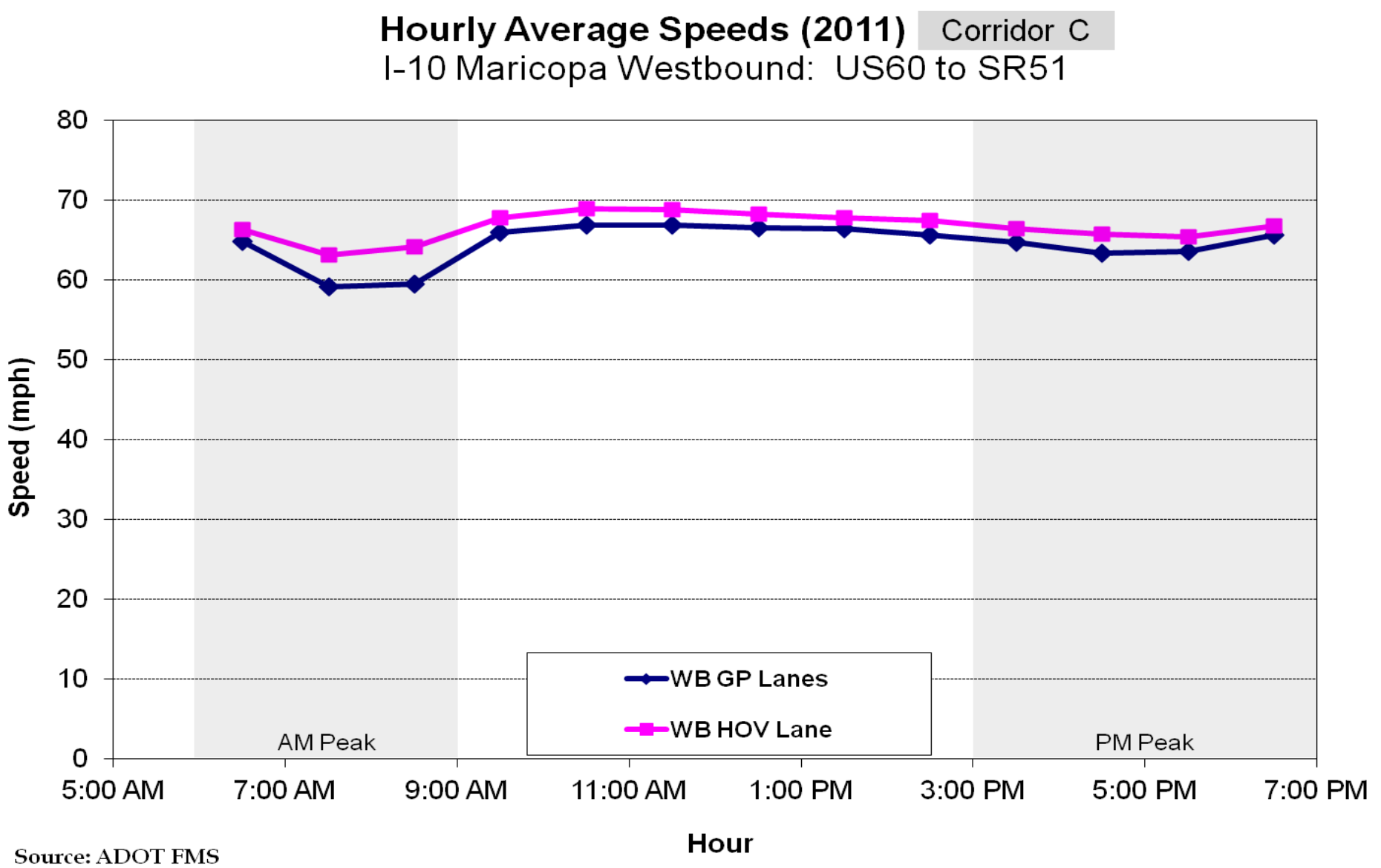

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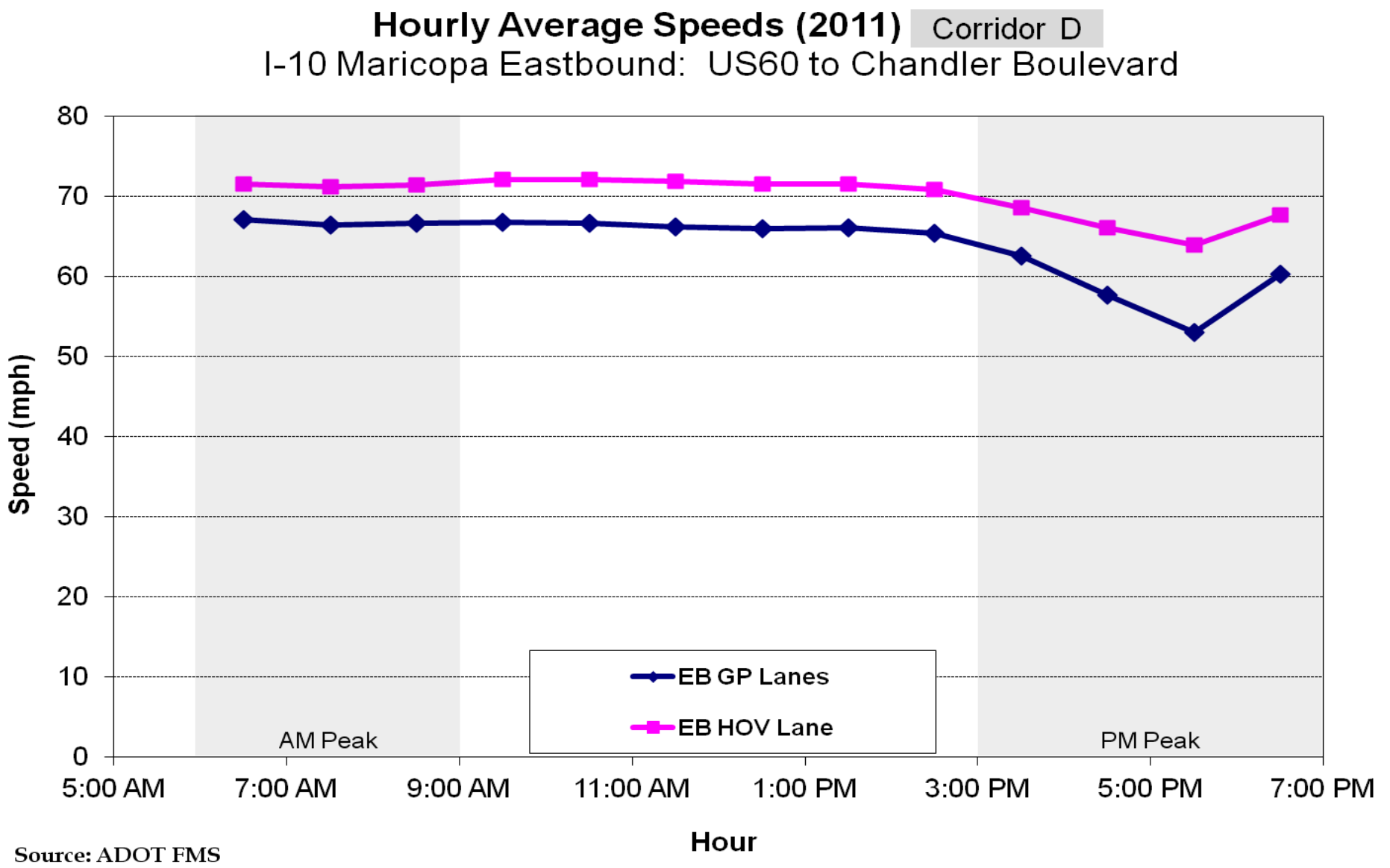

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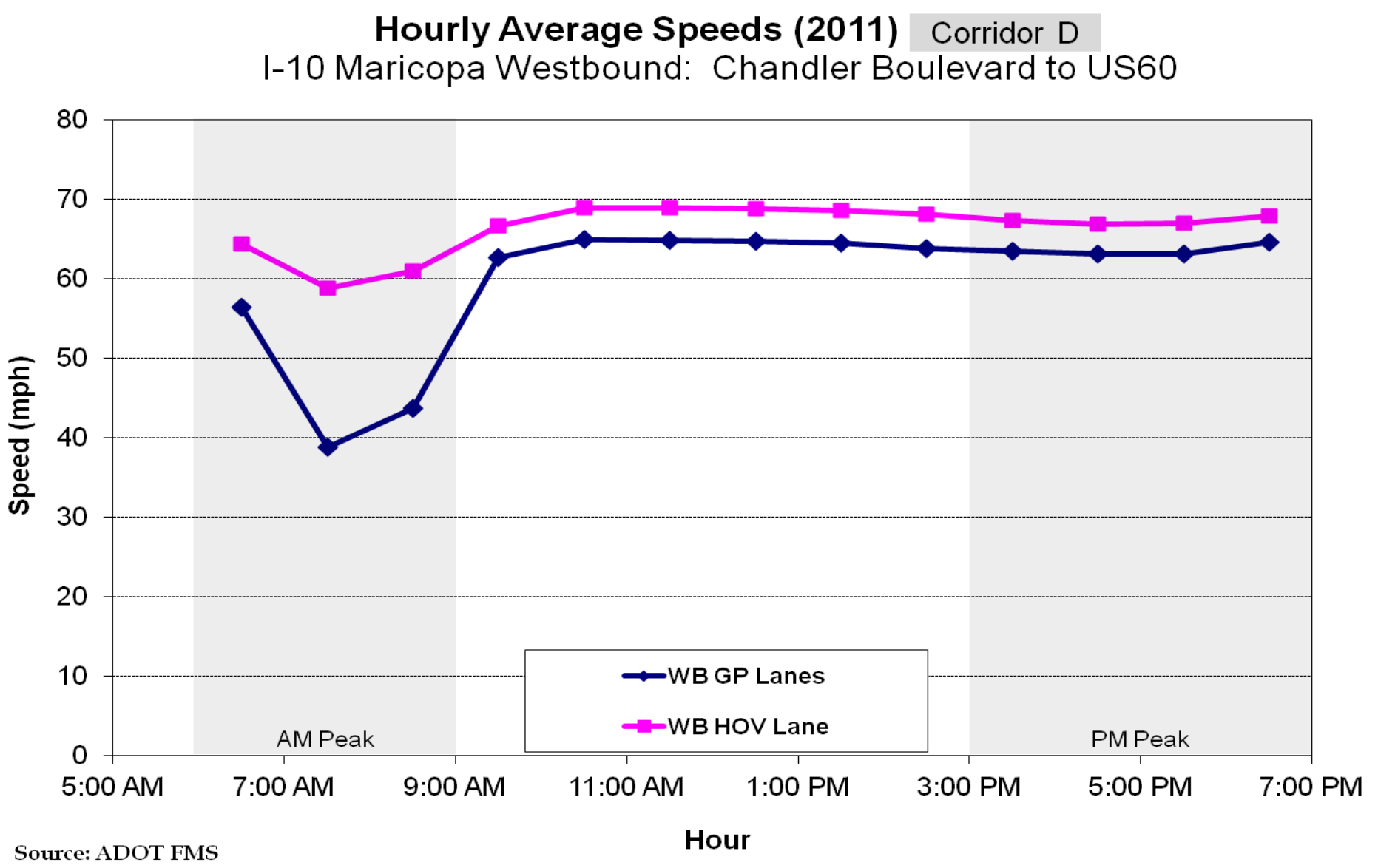

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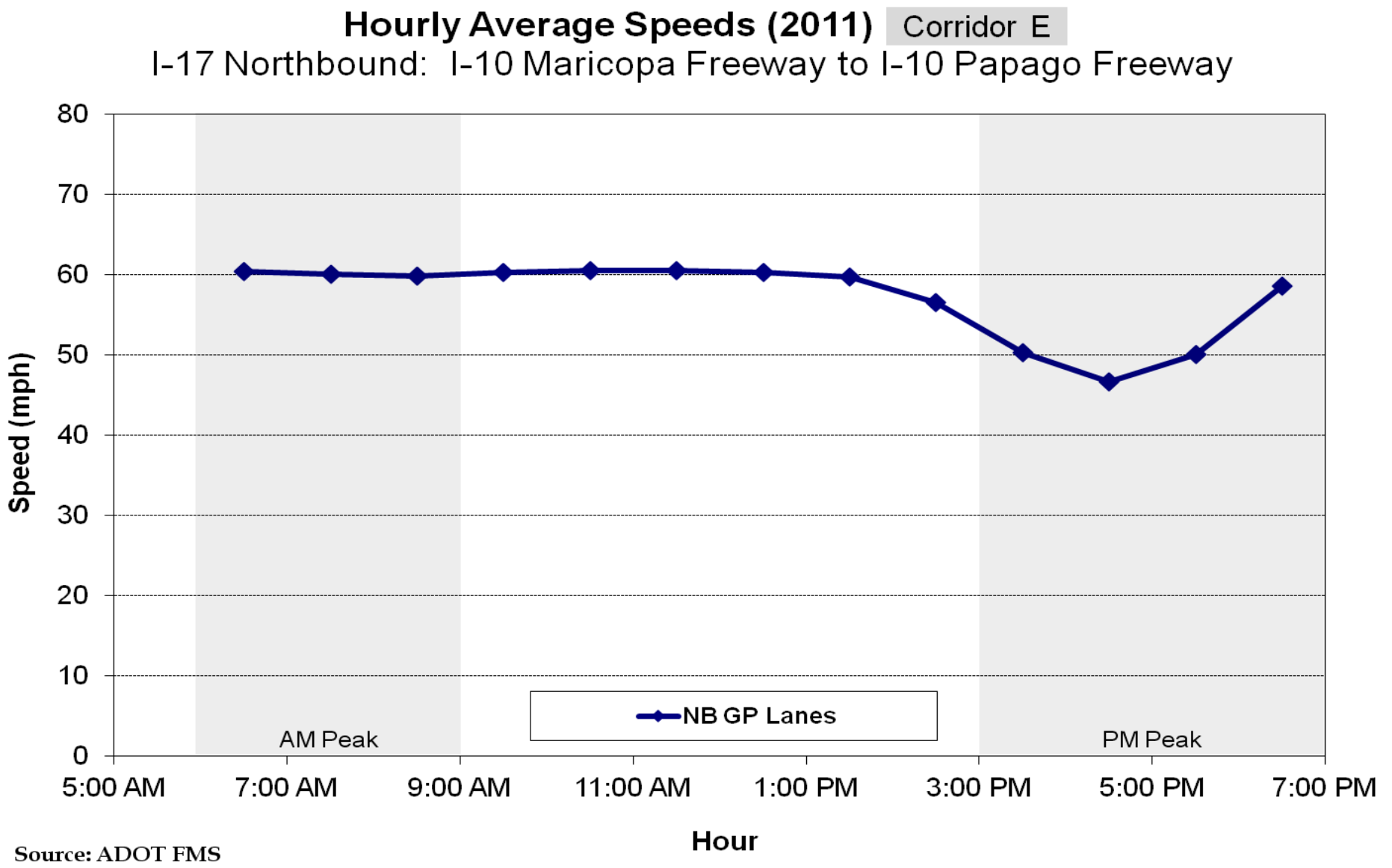
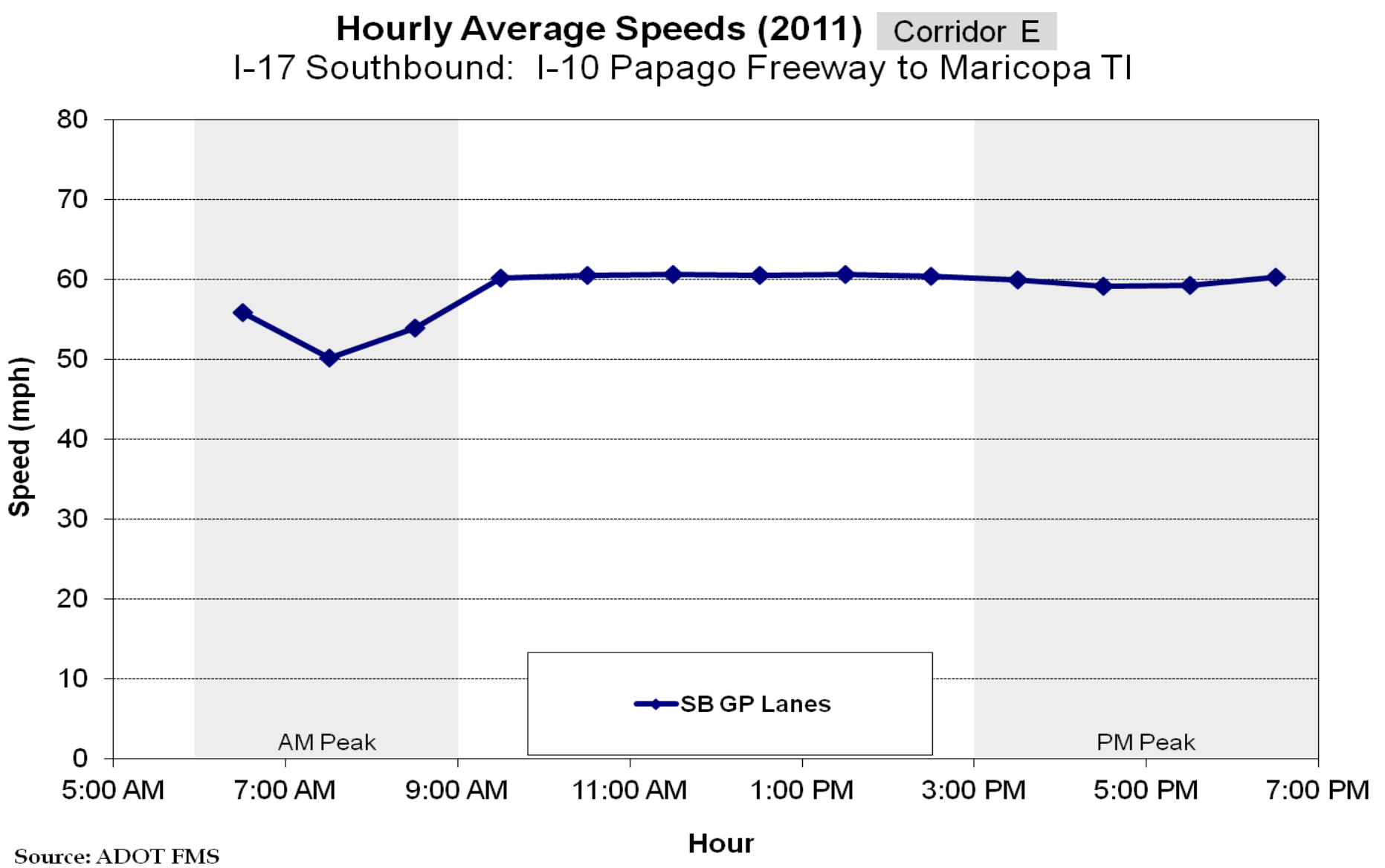
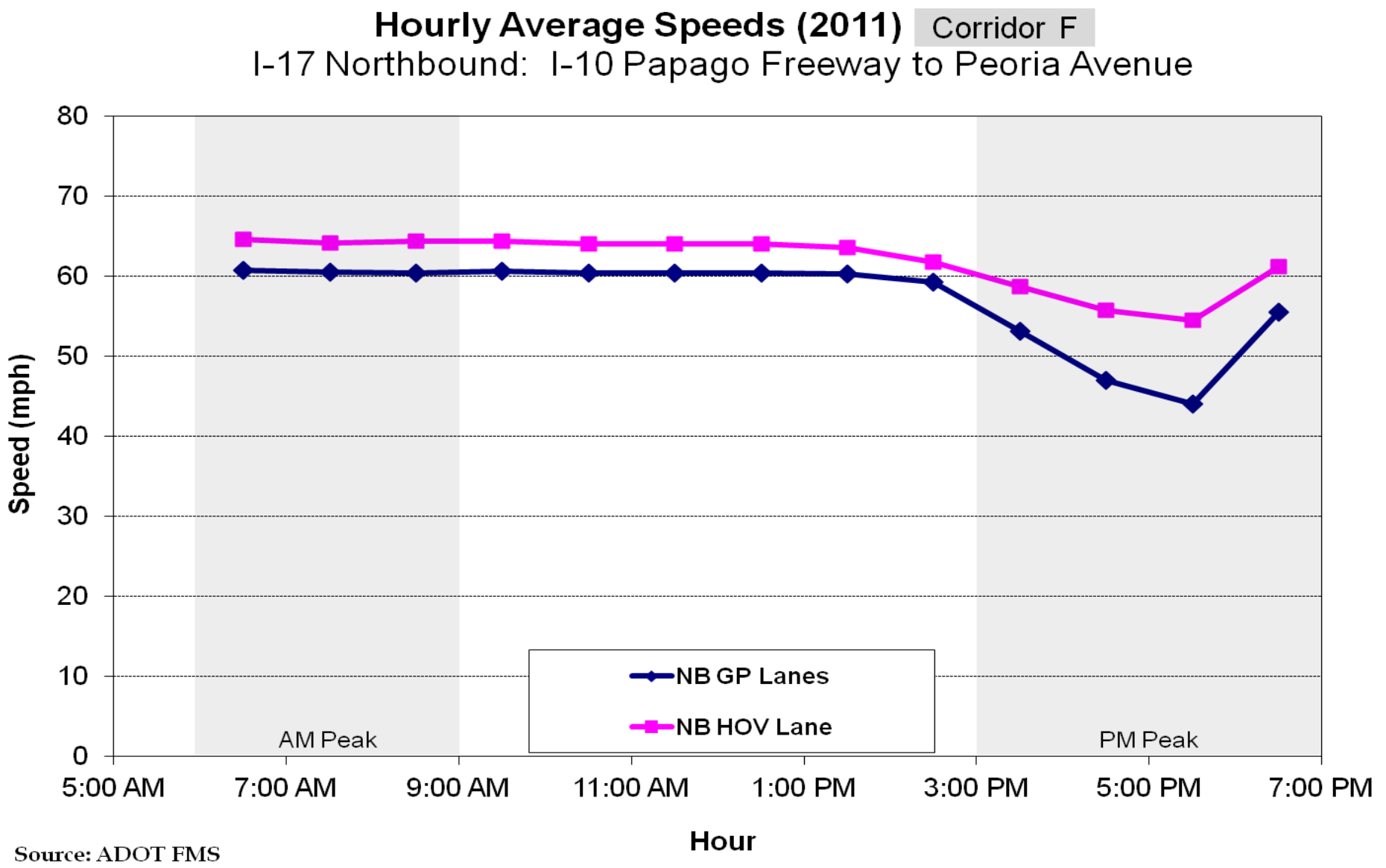
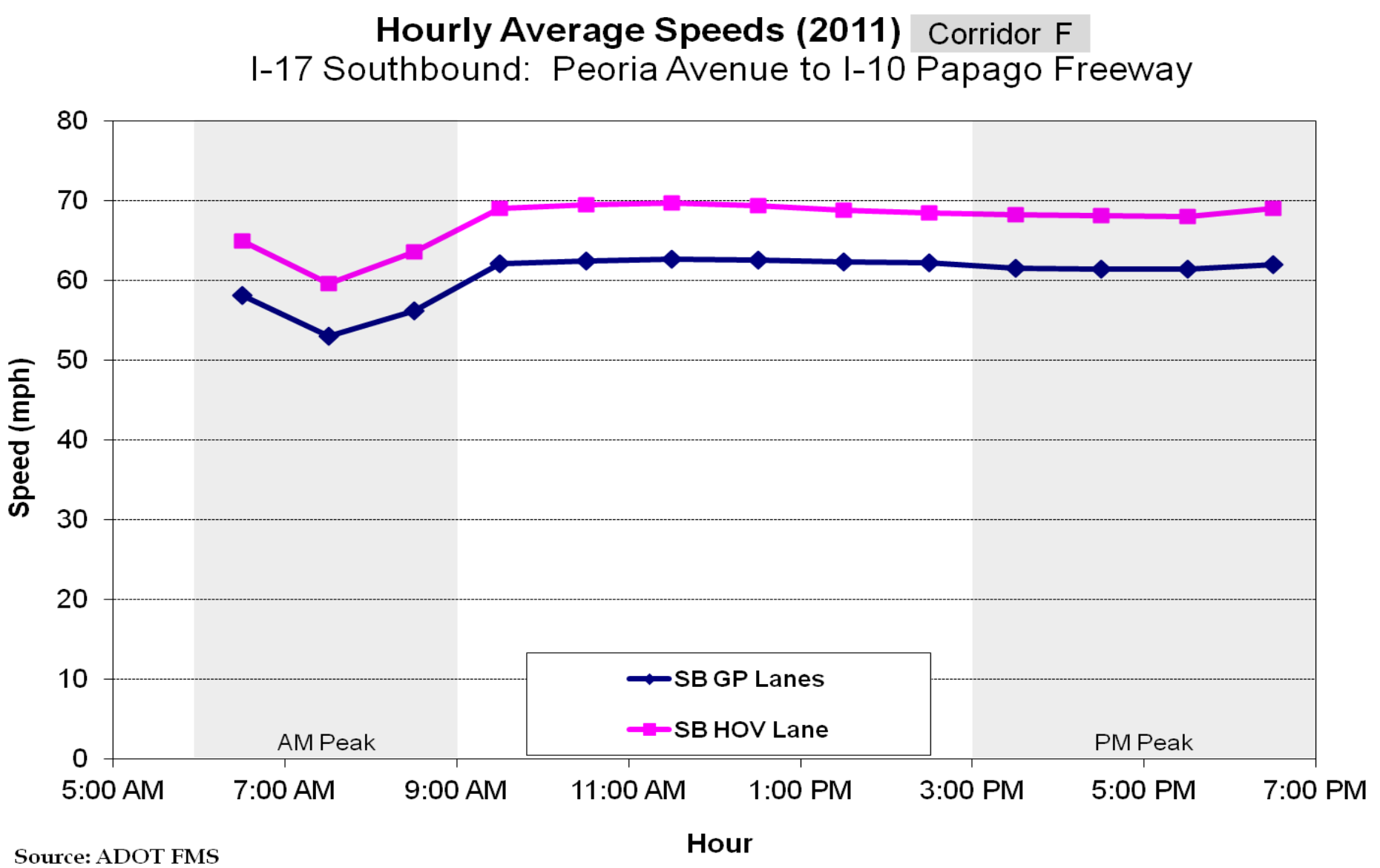


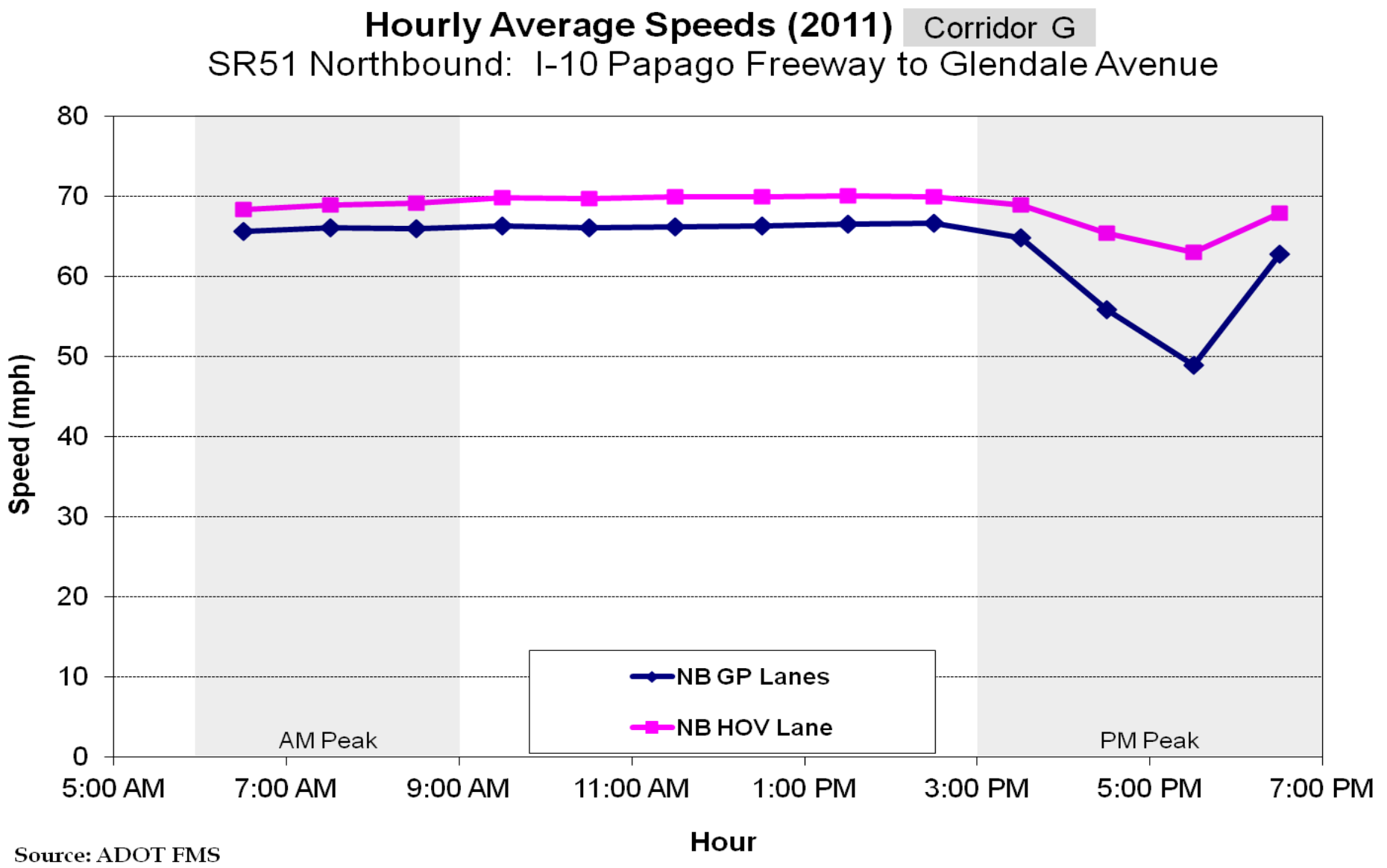
Source: ADOT FMS

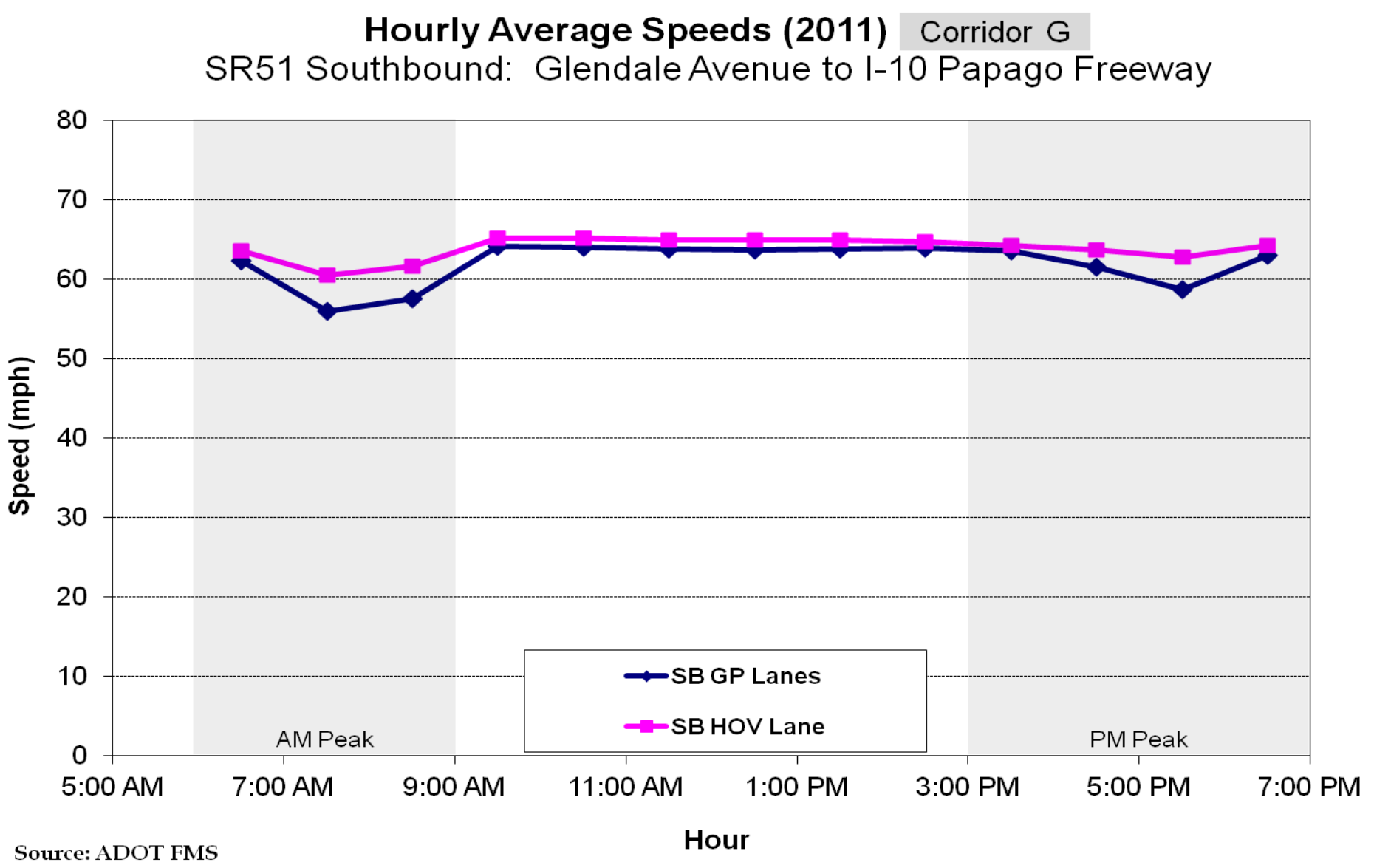


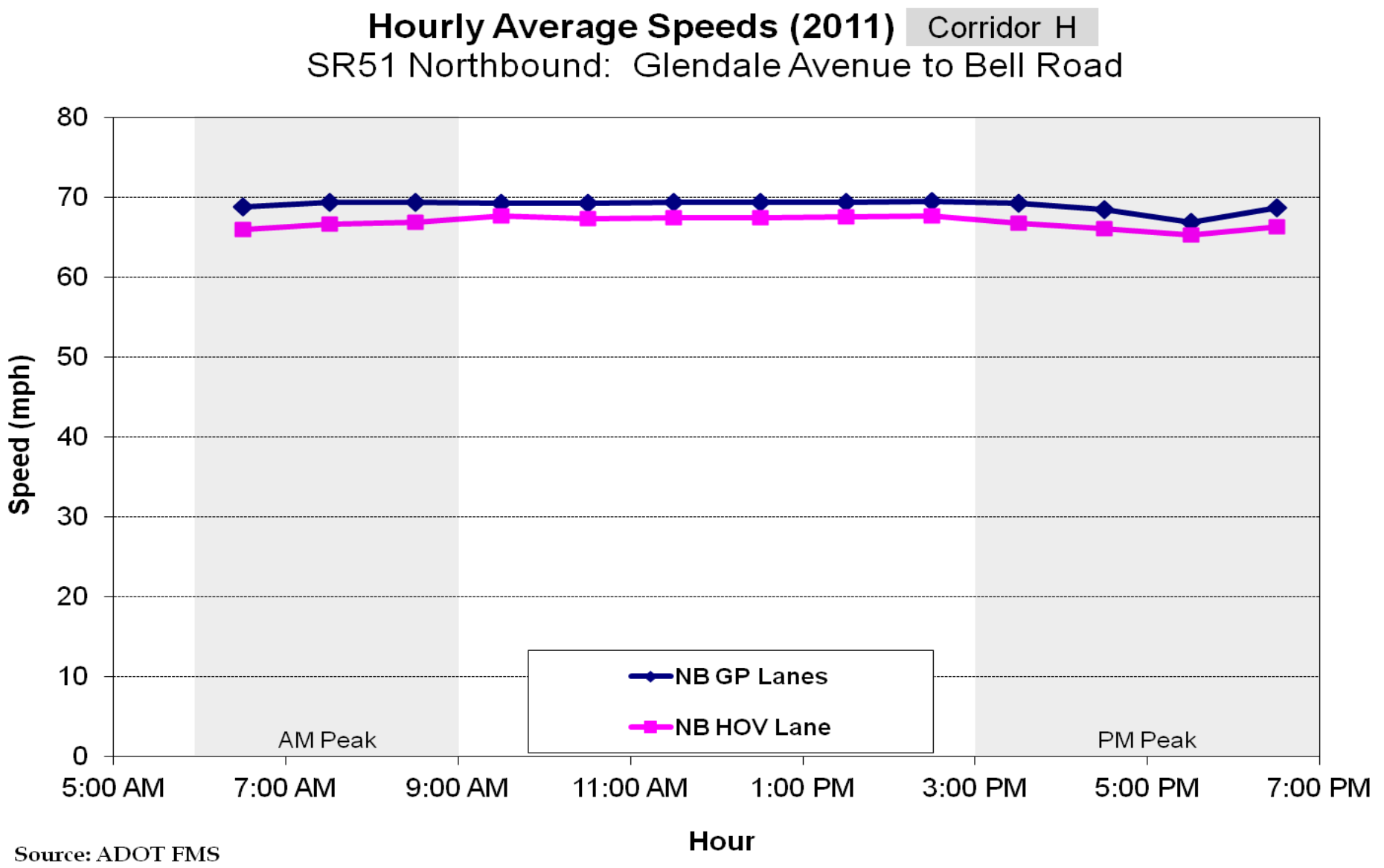
Source: ADOT FMS


Hourly Average Speeds (2011)
Corridor F
I-17 Northbound: I-10 Papago Freeway to Peoria Avenue
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
NB GP Lanes
NB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS

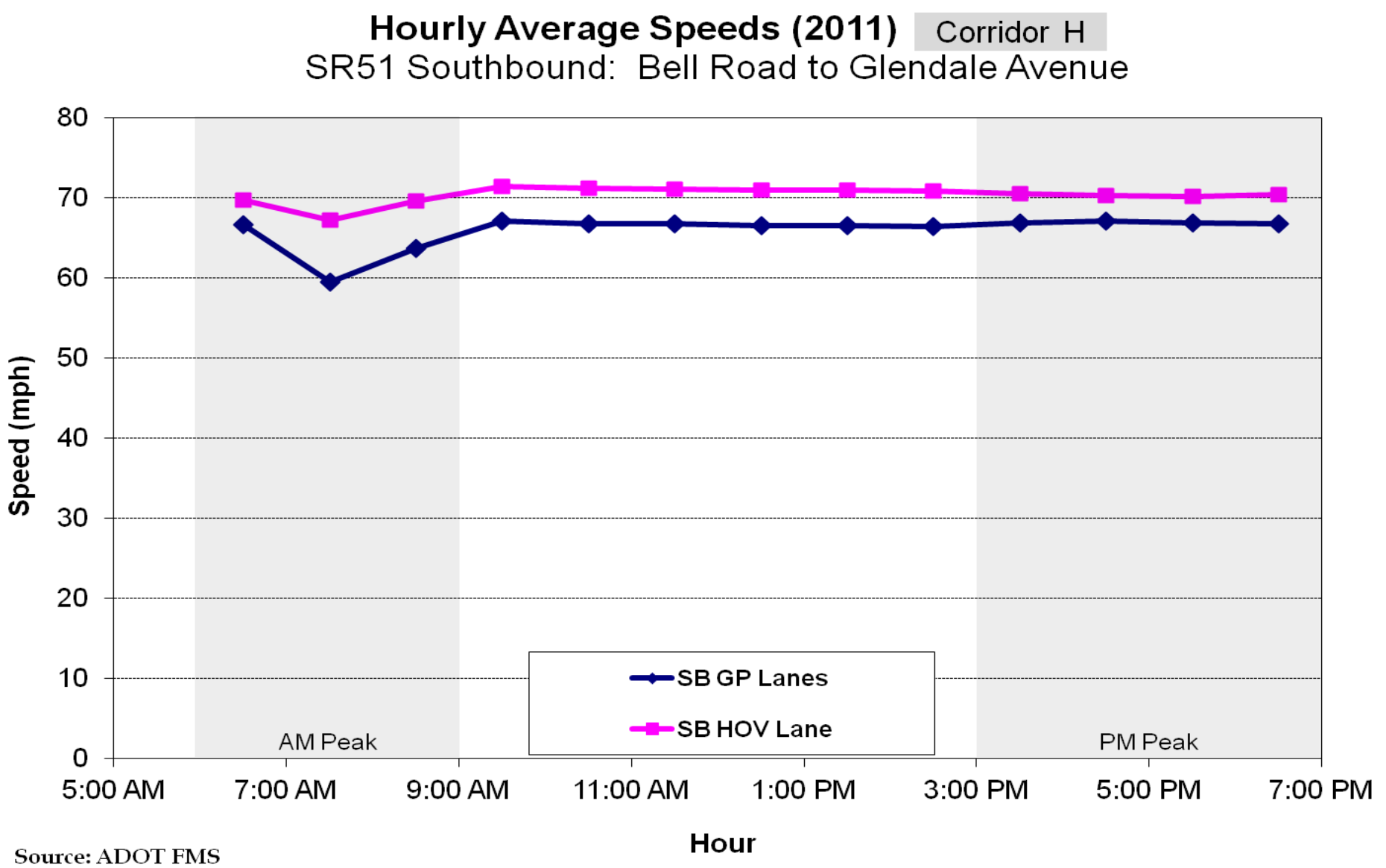

Hourly Average Speeds (2011)
Corridor F
I-17 Southbound: Peoria Avenue to I-10 Papago Freeway
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
SB GP Lanes
SB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS


Hourly Average Speeds (2011)
Corridor G
SR51 Northbound: I-10 Papago Freeway to Glendale Avenue
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
NB GP Lanes
NB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS

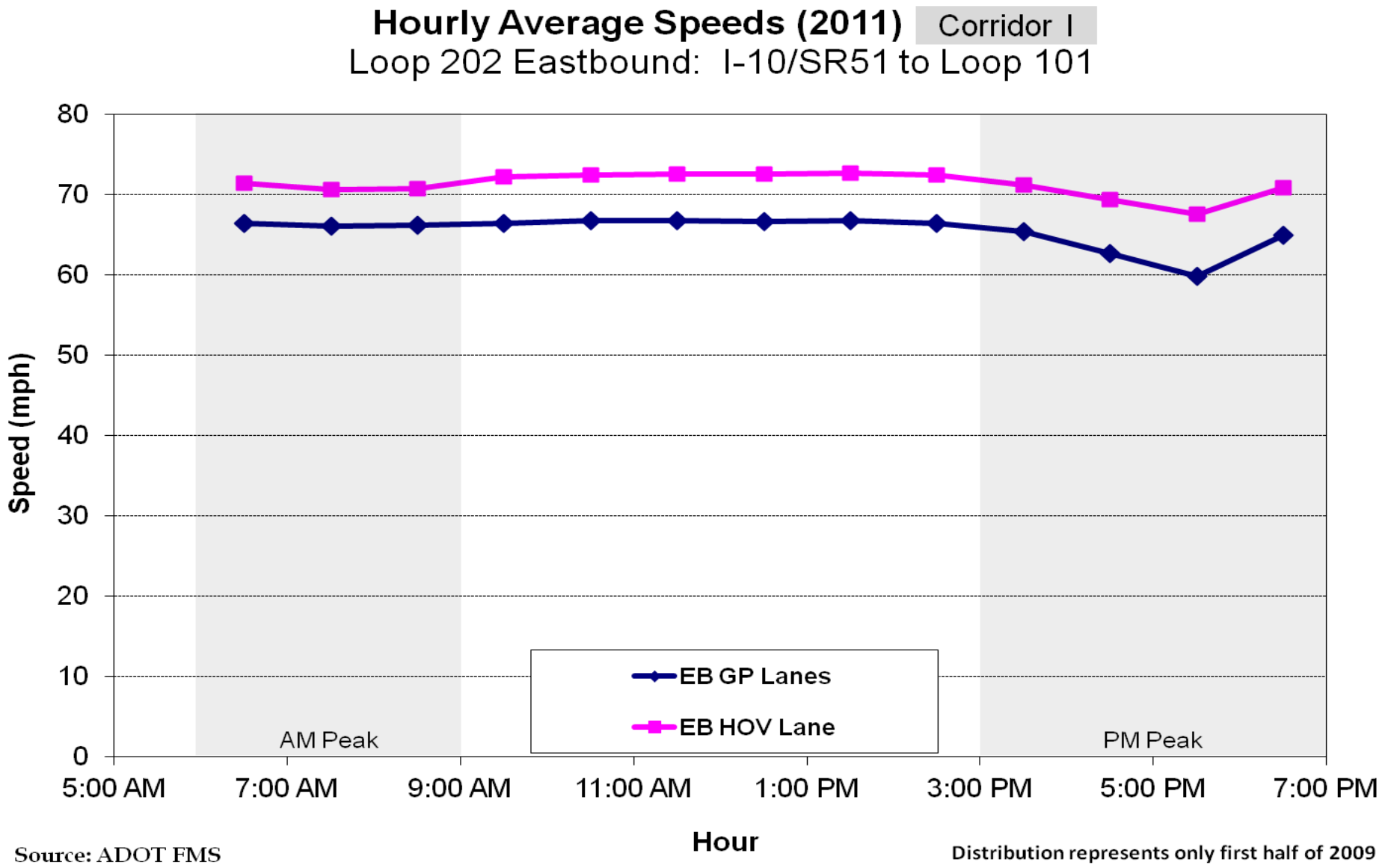

Hourly Average Speeds (2011)
Corridor G
SR51 Southbound: Glendale Avenue to I-10 Papago Freeway
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
SB GP Lanes
SB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS

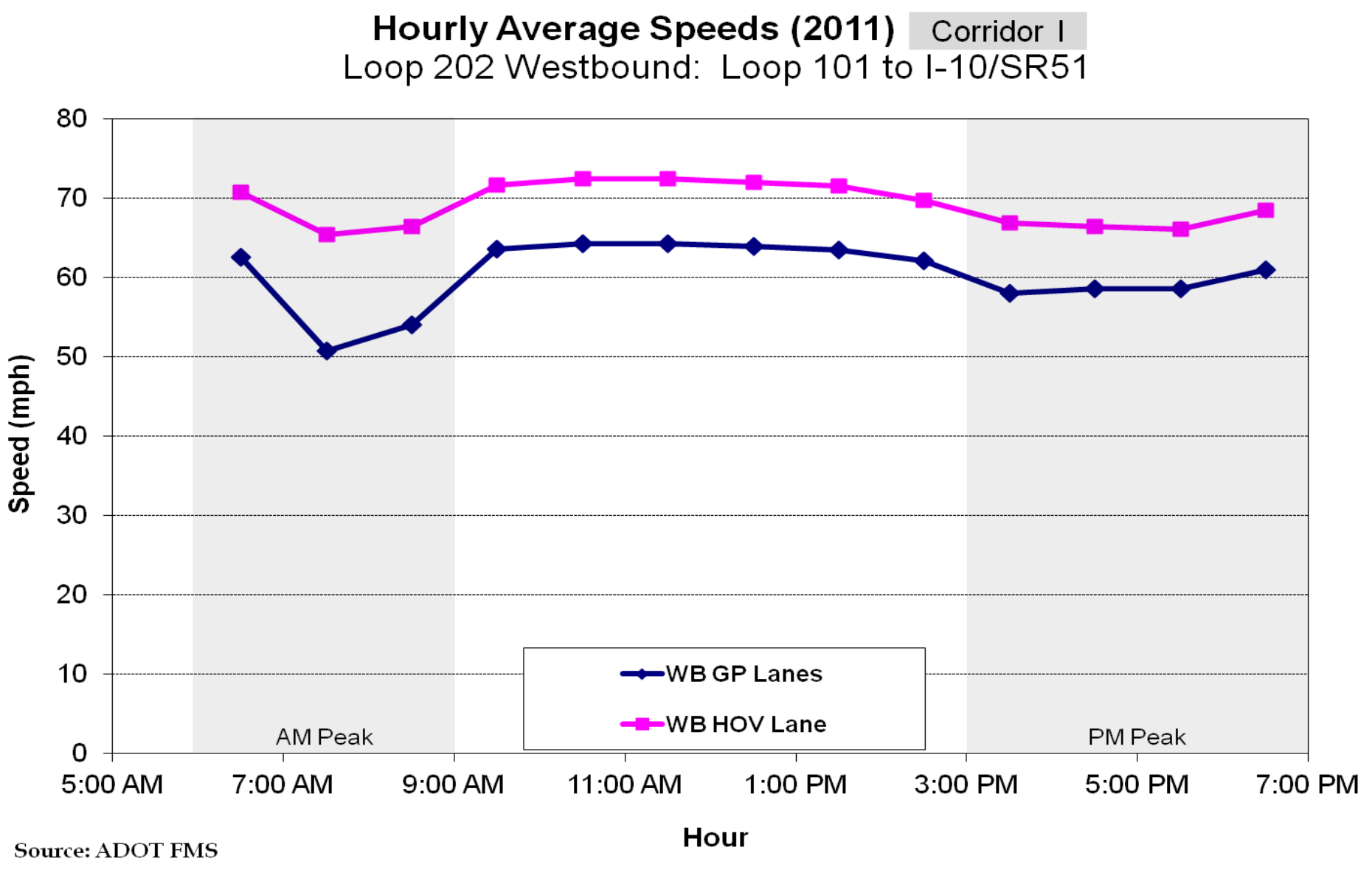


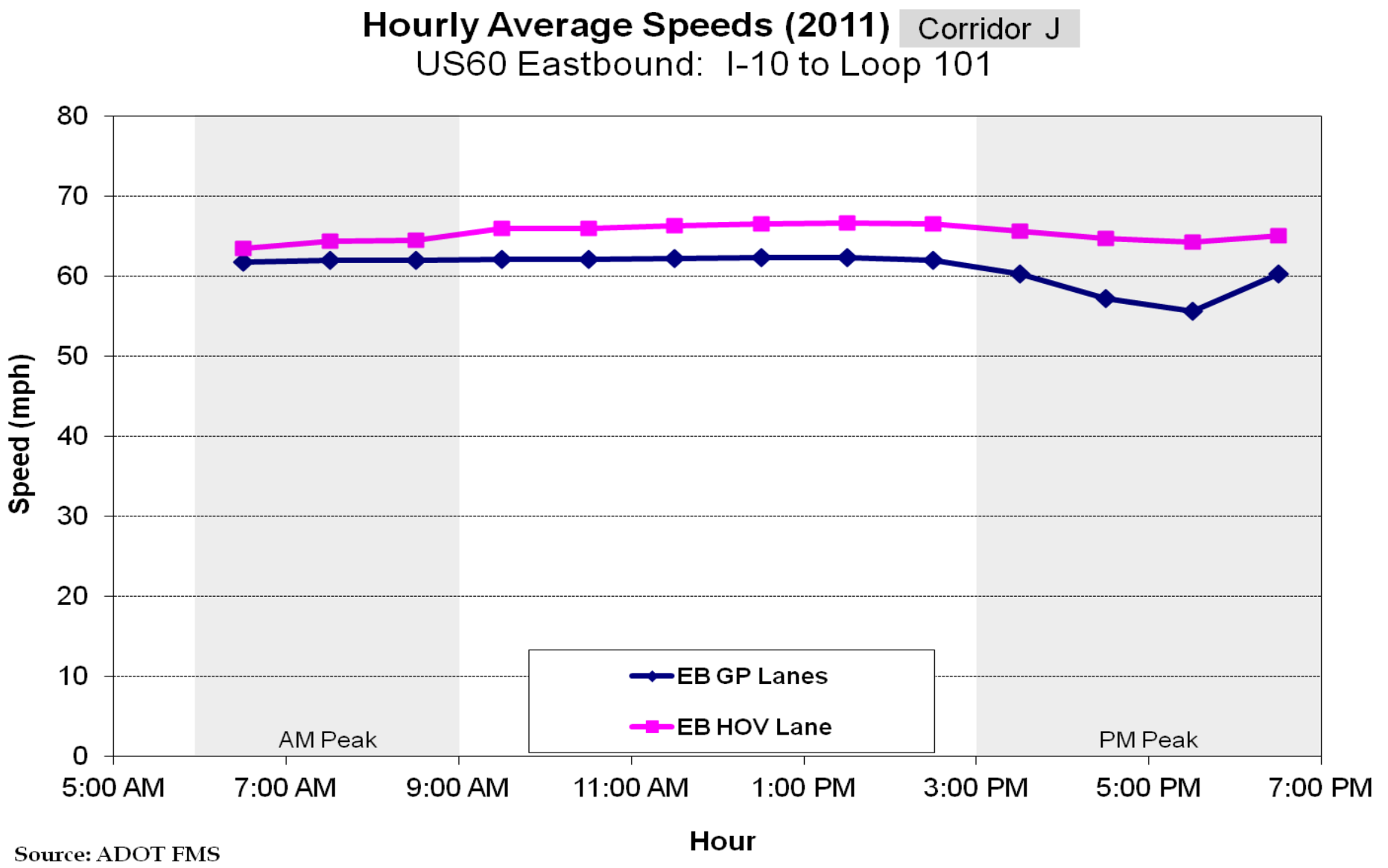
Source: ADOT FMS



Source: ADOT FMS


Hourly Average Speeds (2011)
Corridor I
Loop 202 Eastbound: I-10/SR51 to Loop 101
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
EB GP Lanes
EB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS
Distribution represents only first half of 2009


Hourly Average Speeds (2011)
Corridor I
Loop 202 Westbound: Loop 101 to I-10/SR51
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
WB GP Lanes
WB HOV Lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS



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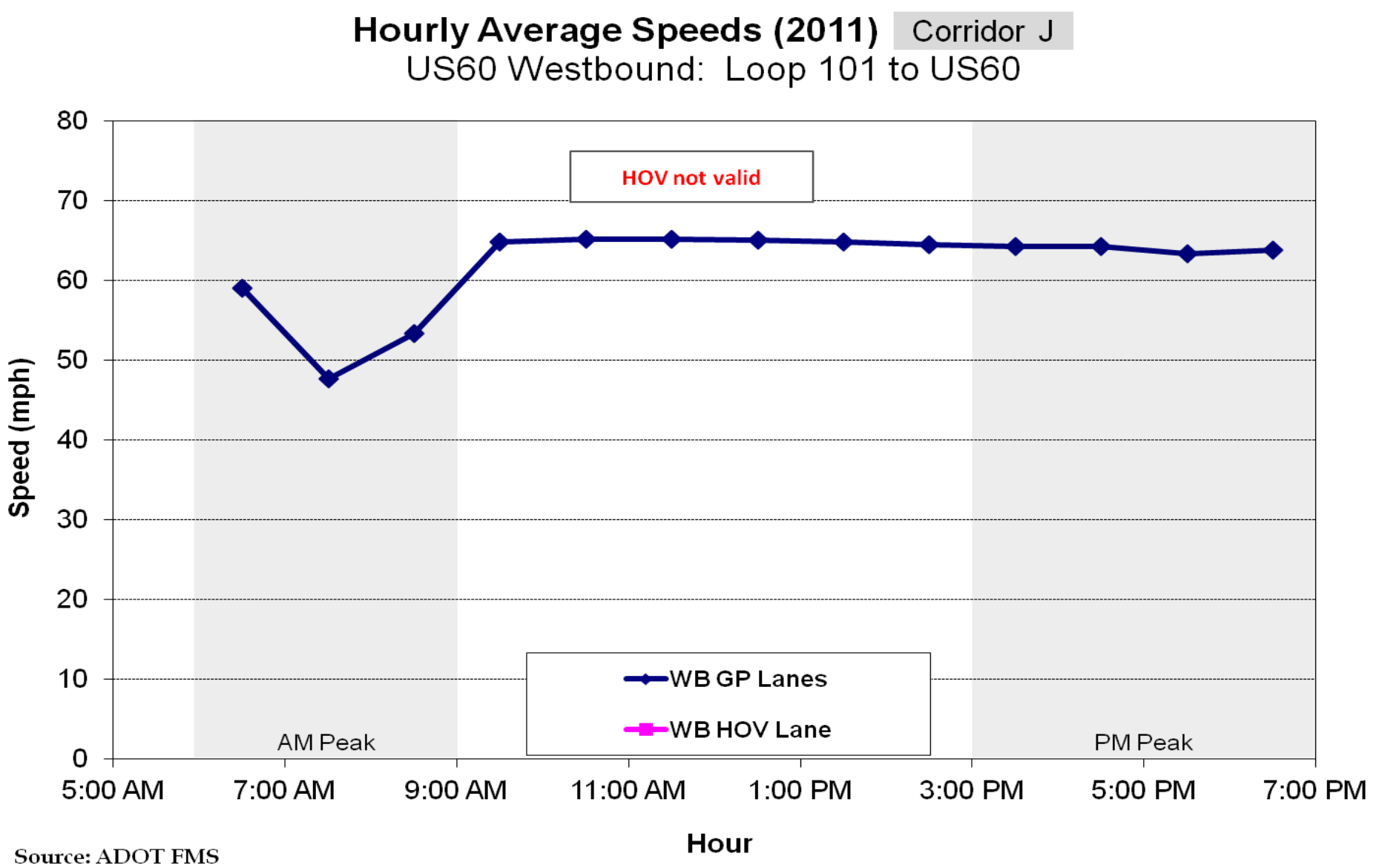

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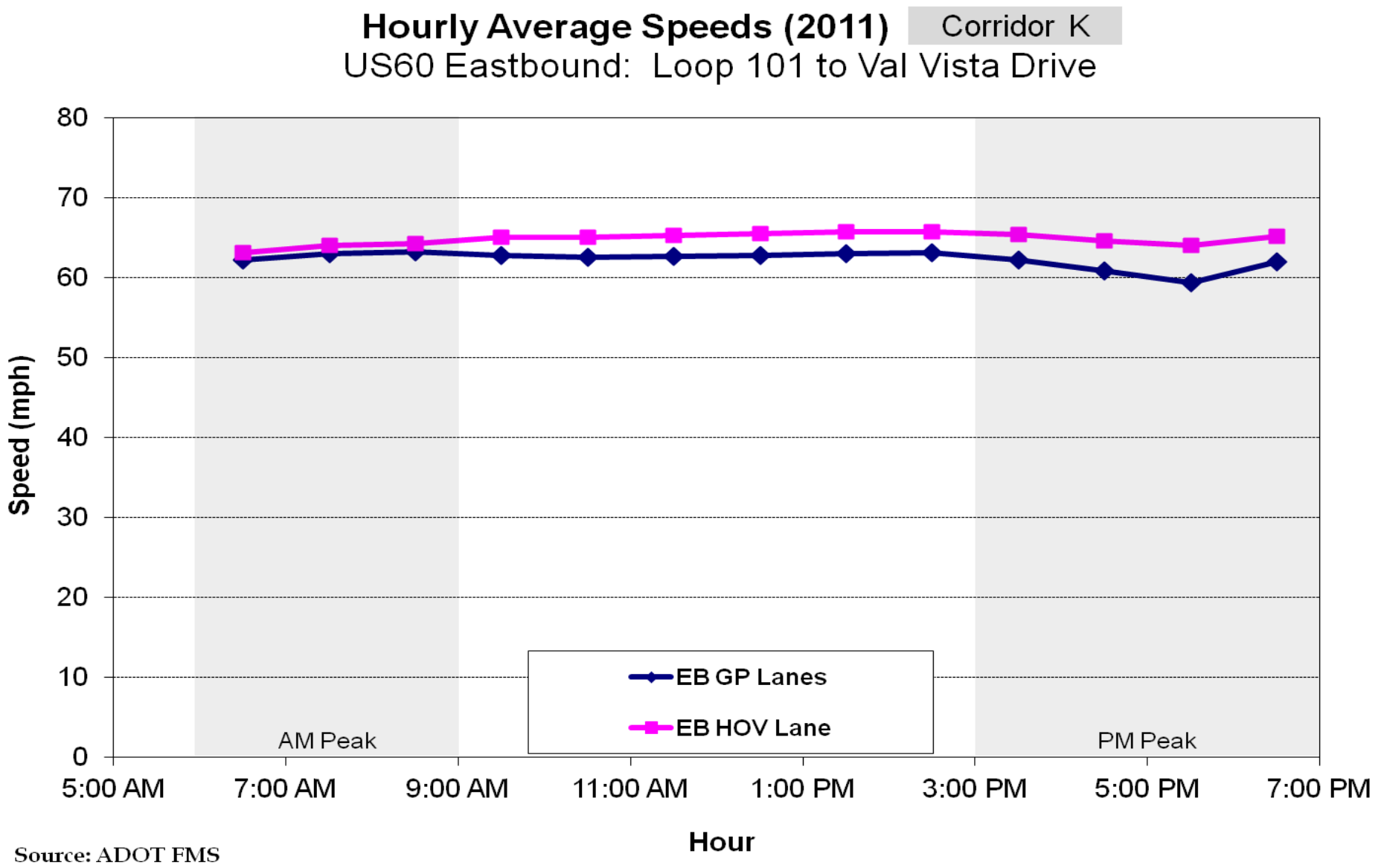
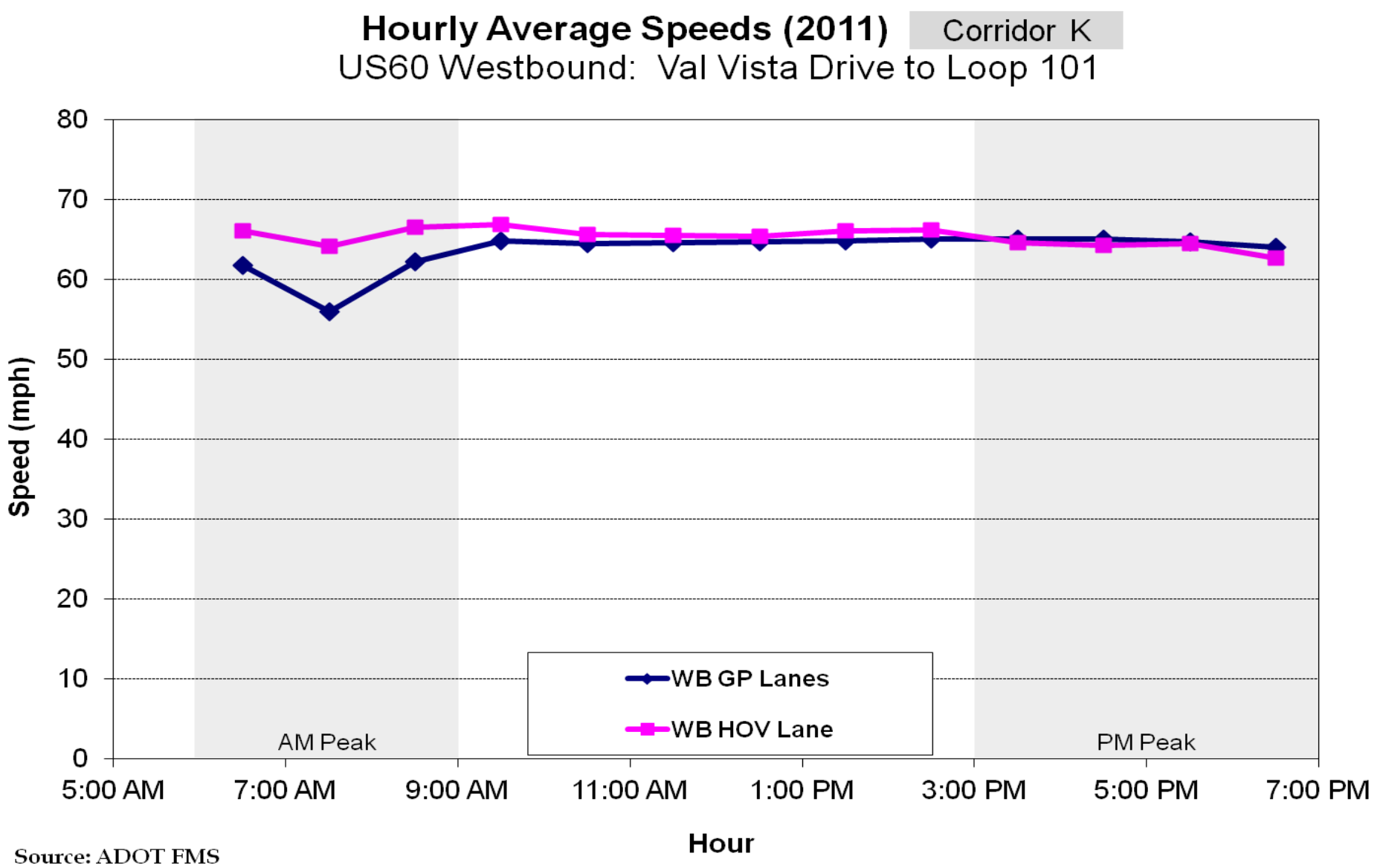


Source: ADOT FMS



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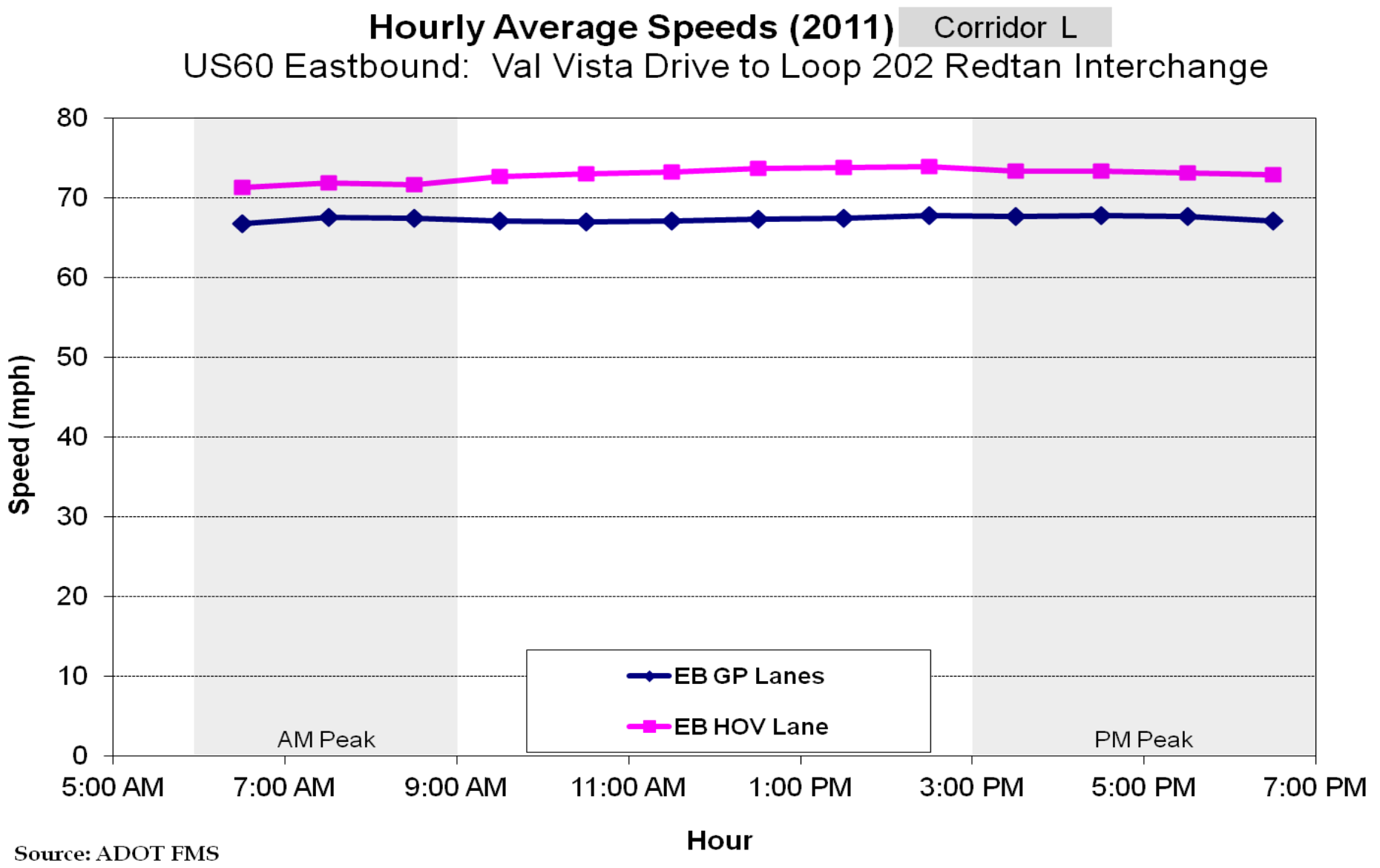
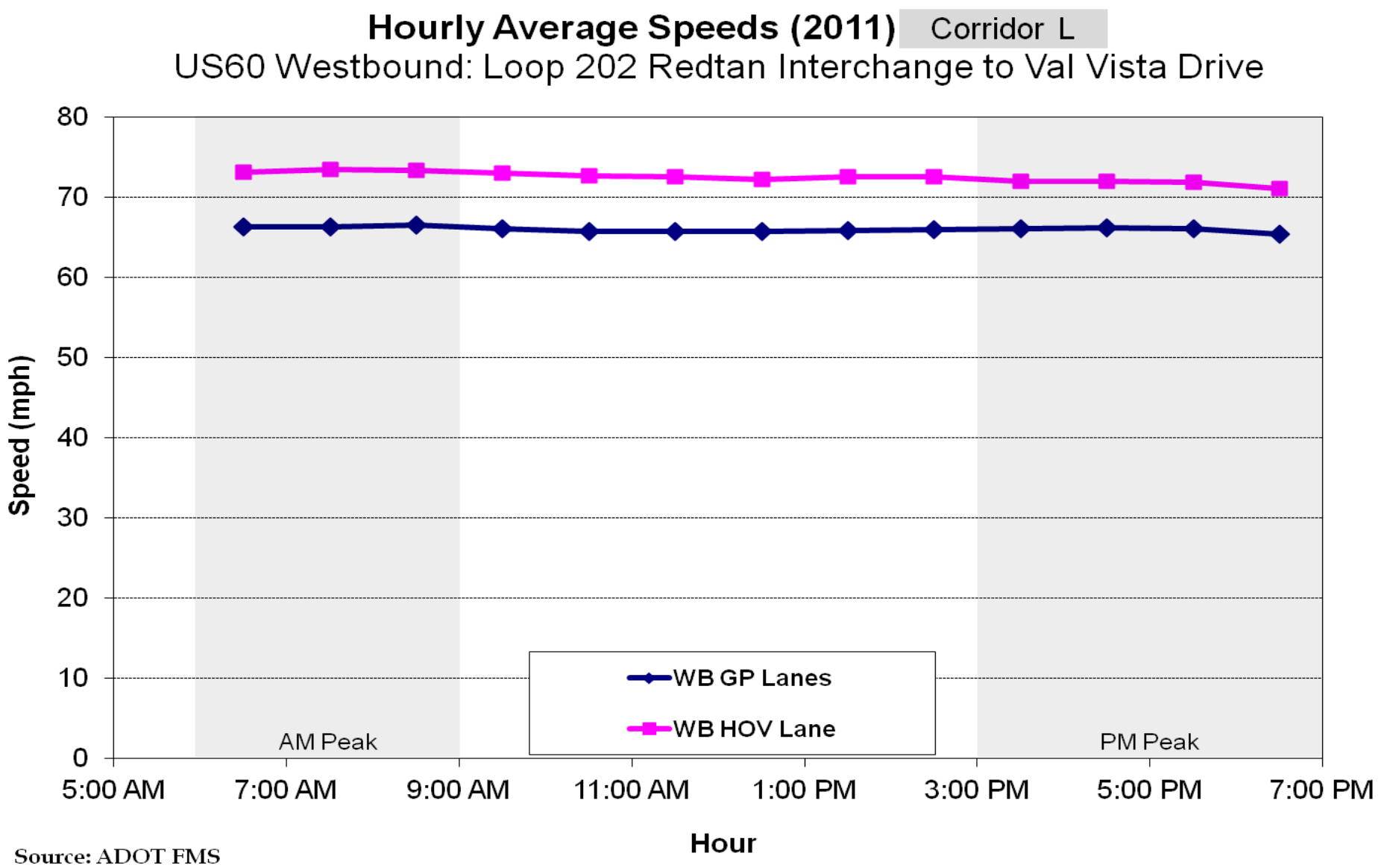
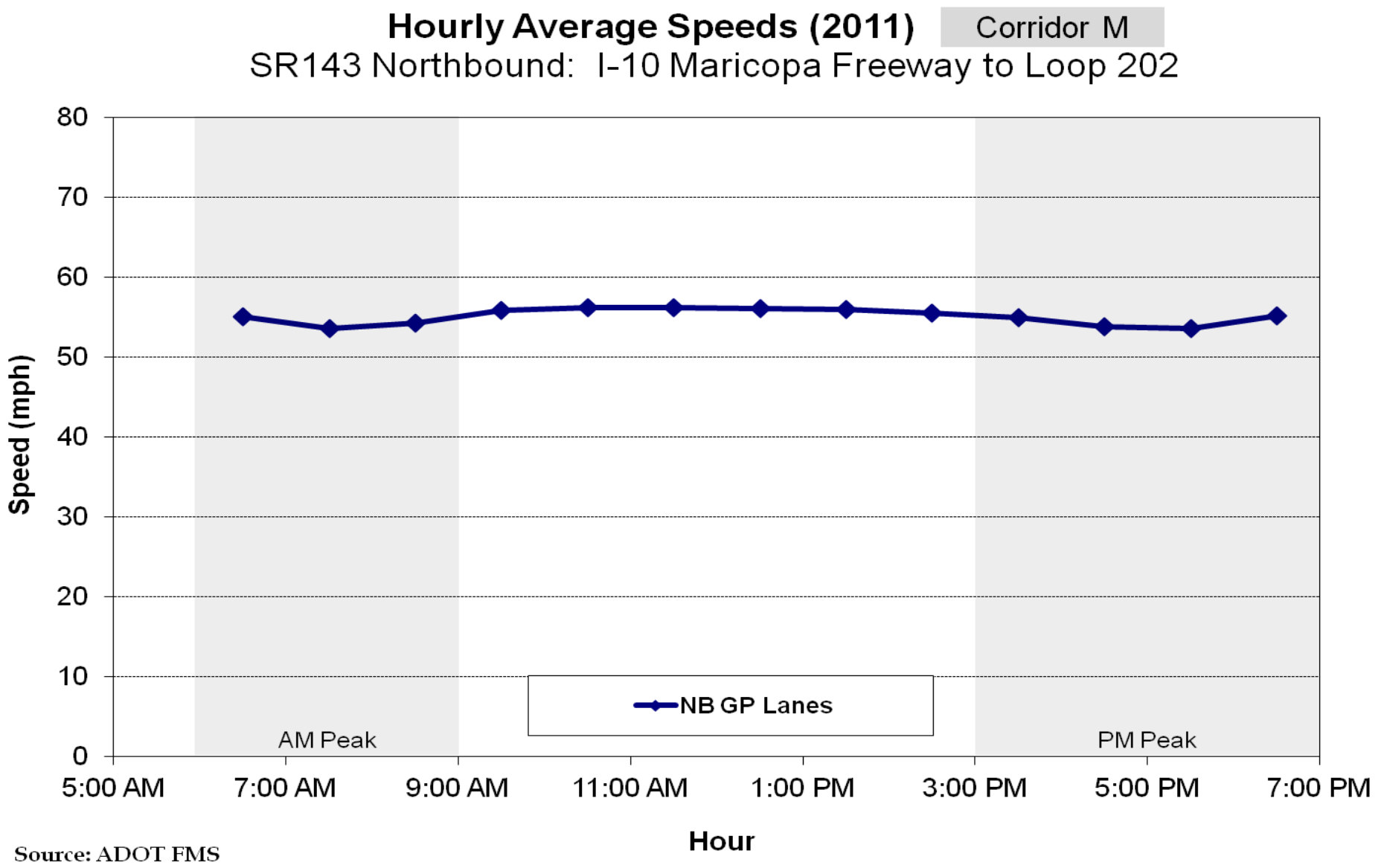


Source: ADOT FMS



Source: ADOT FMS



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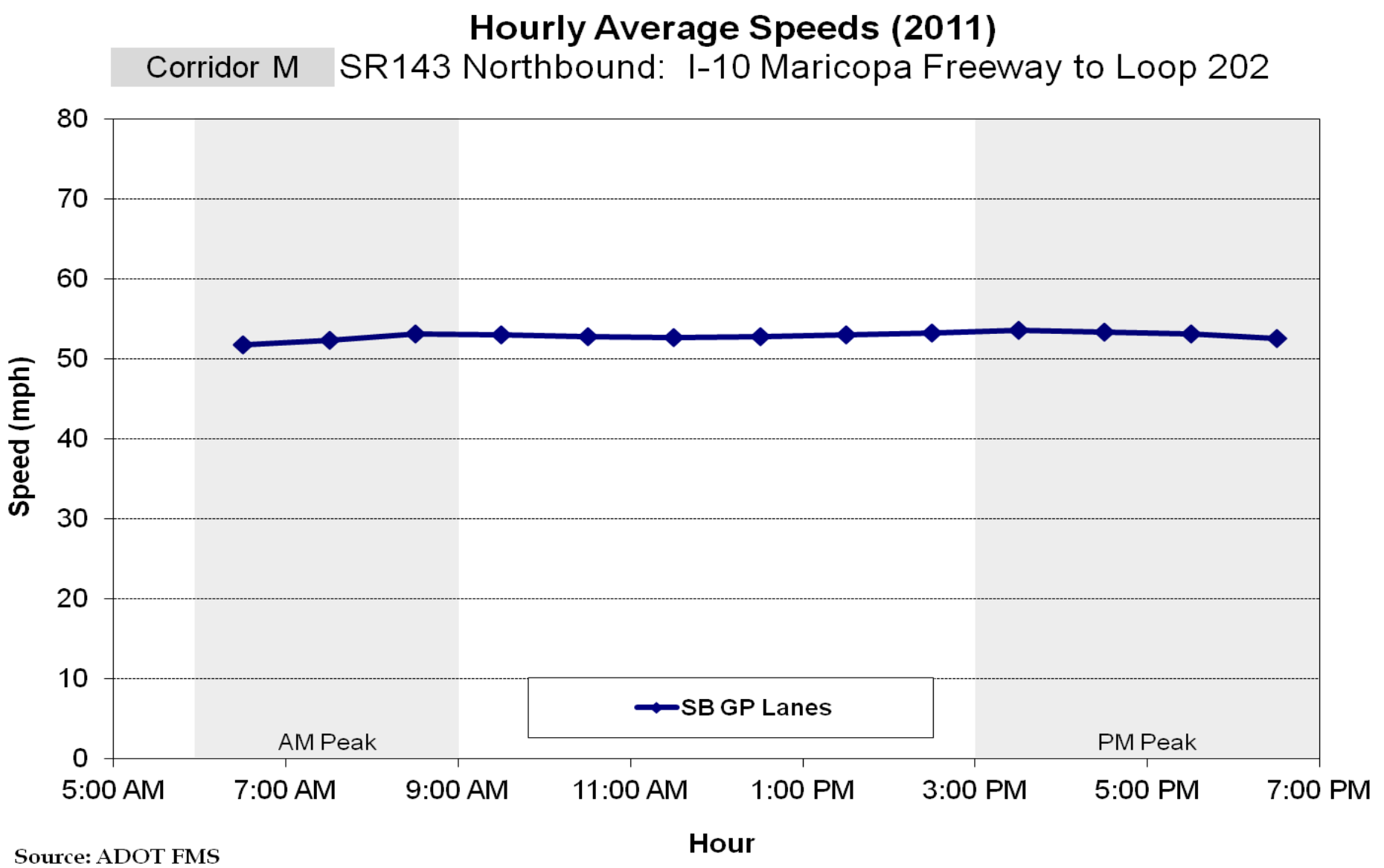
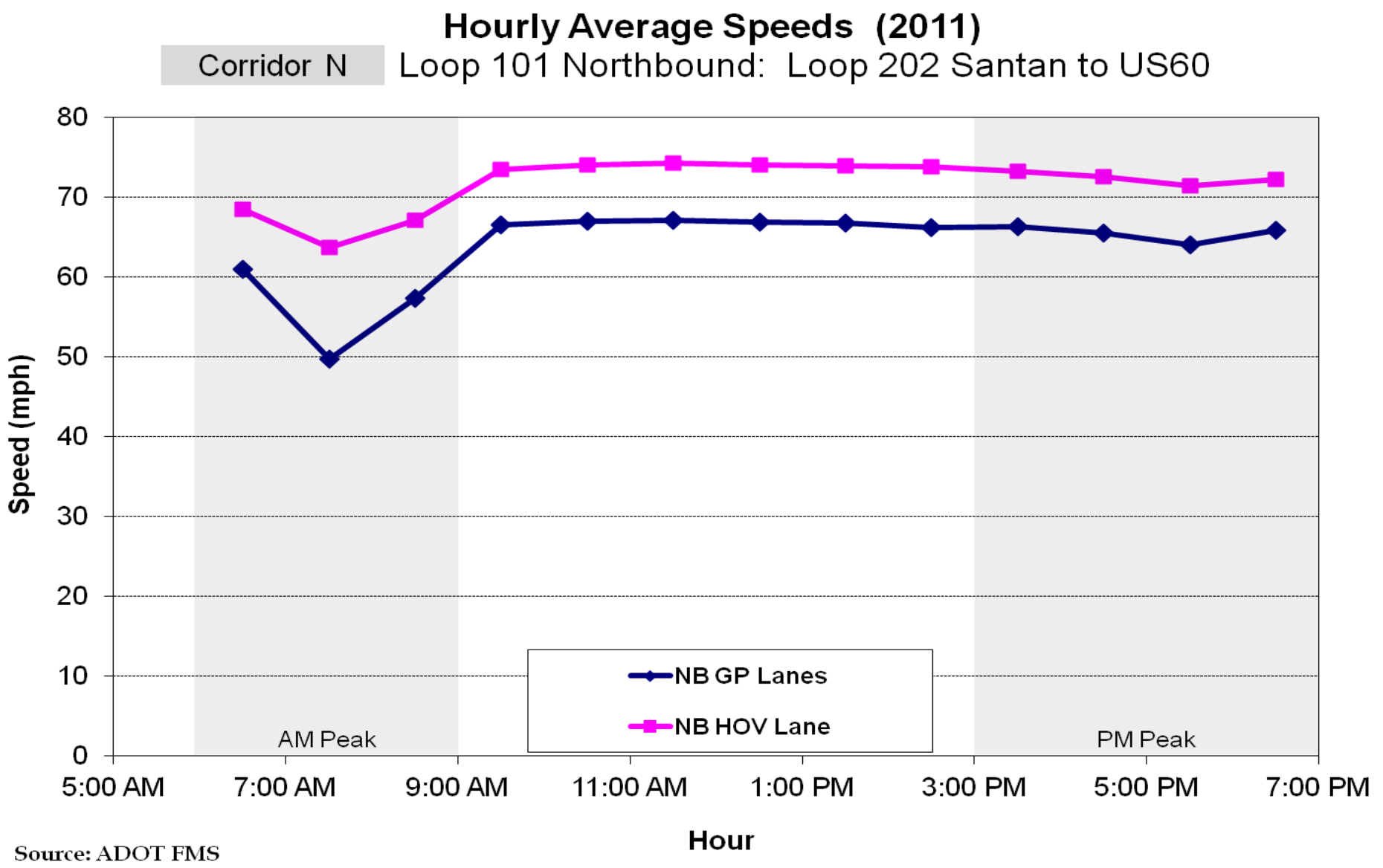


Source: ADOT FMS



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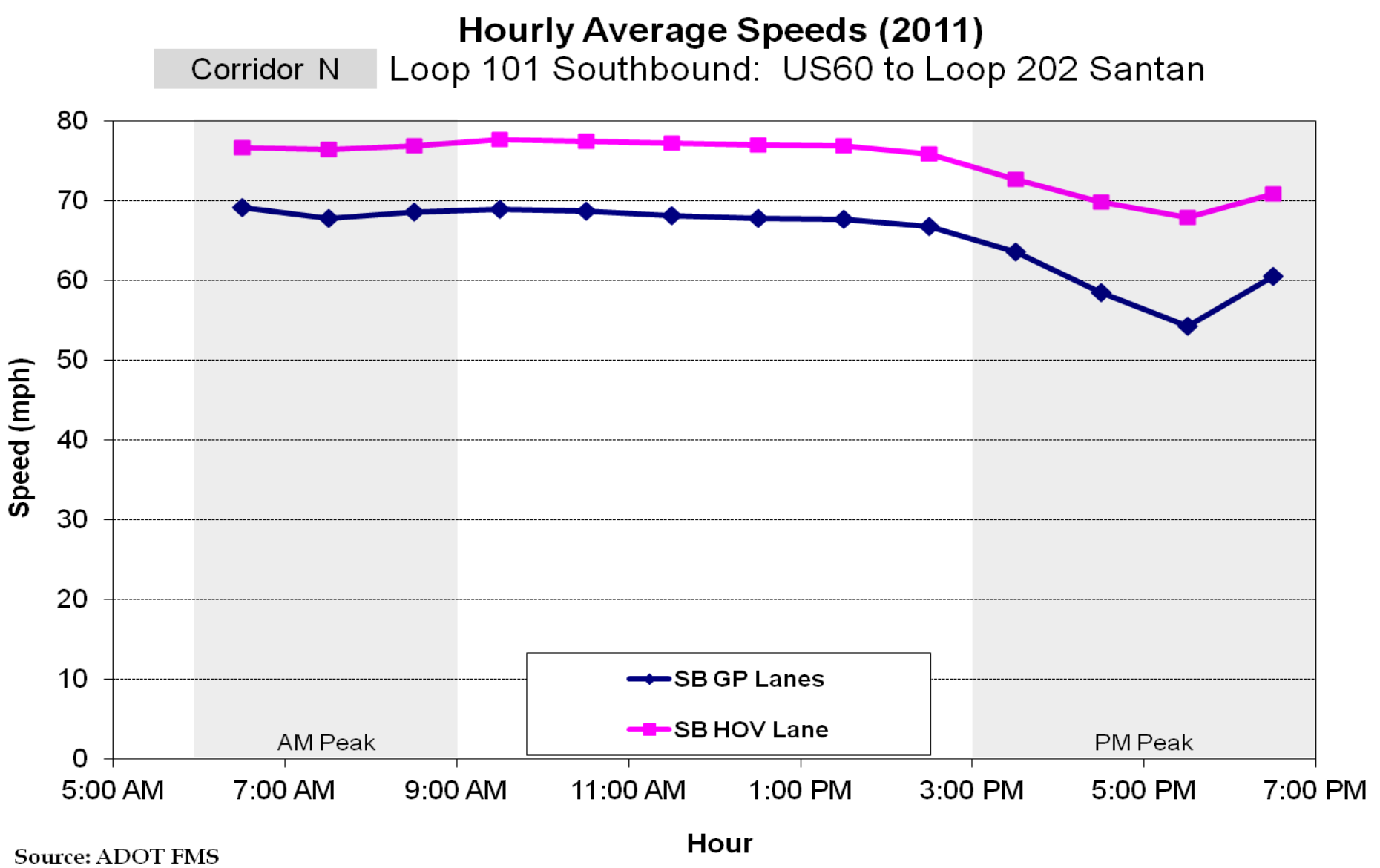

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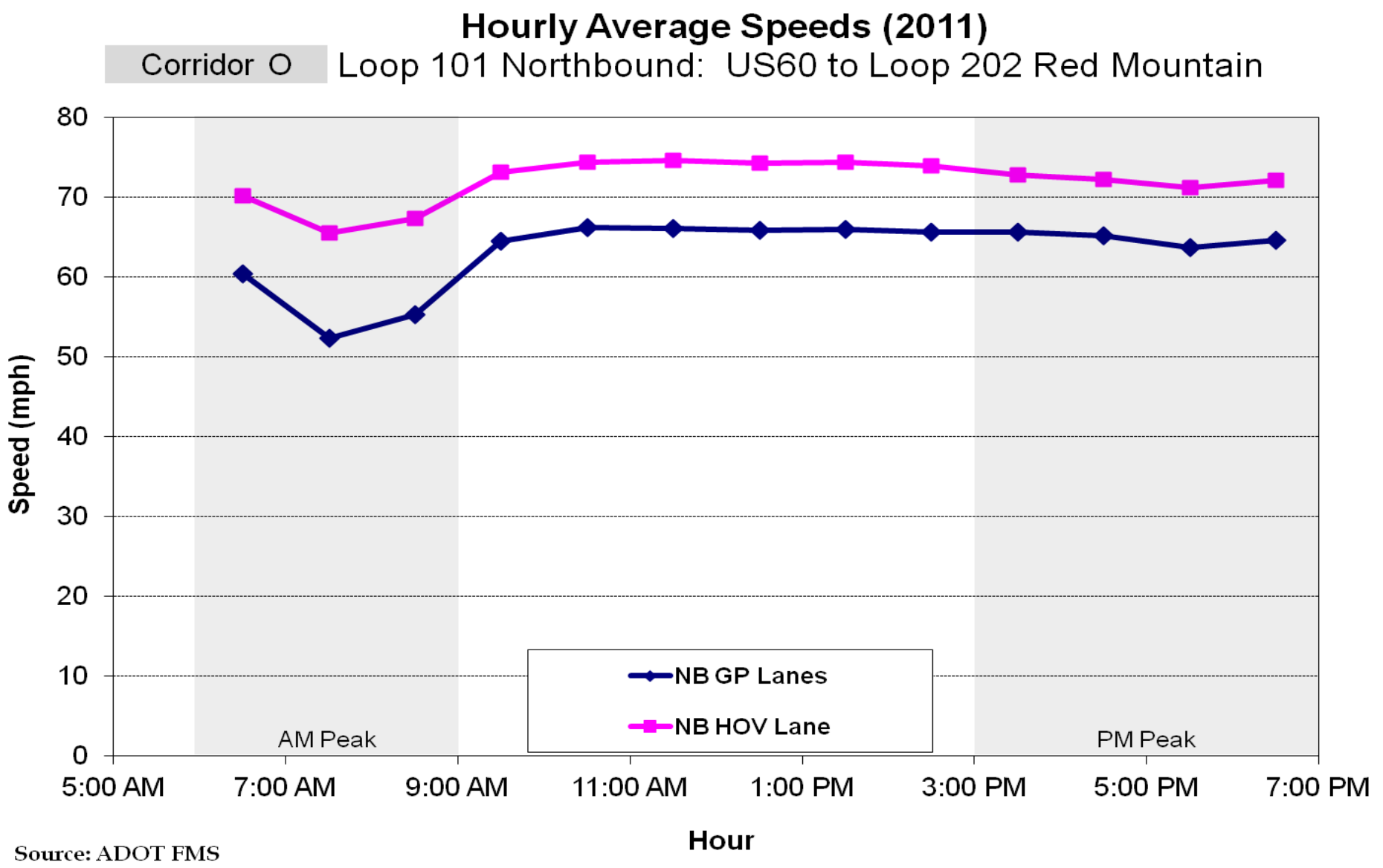

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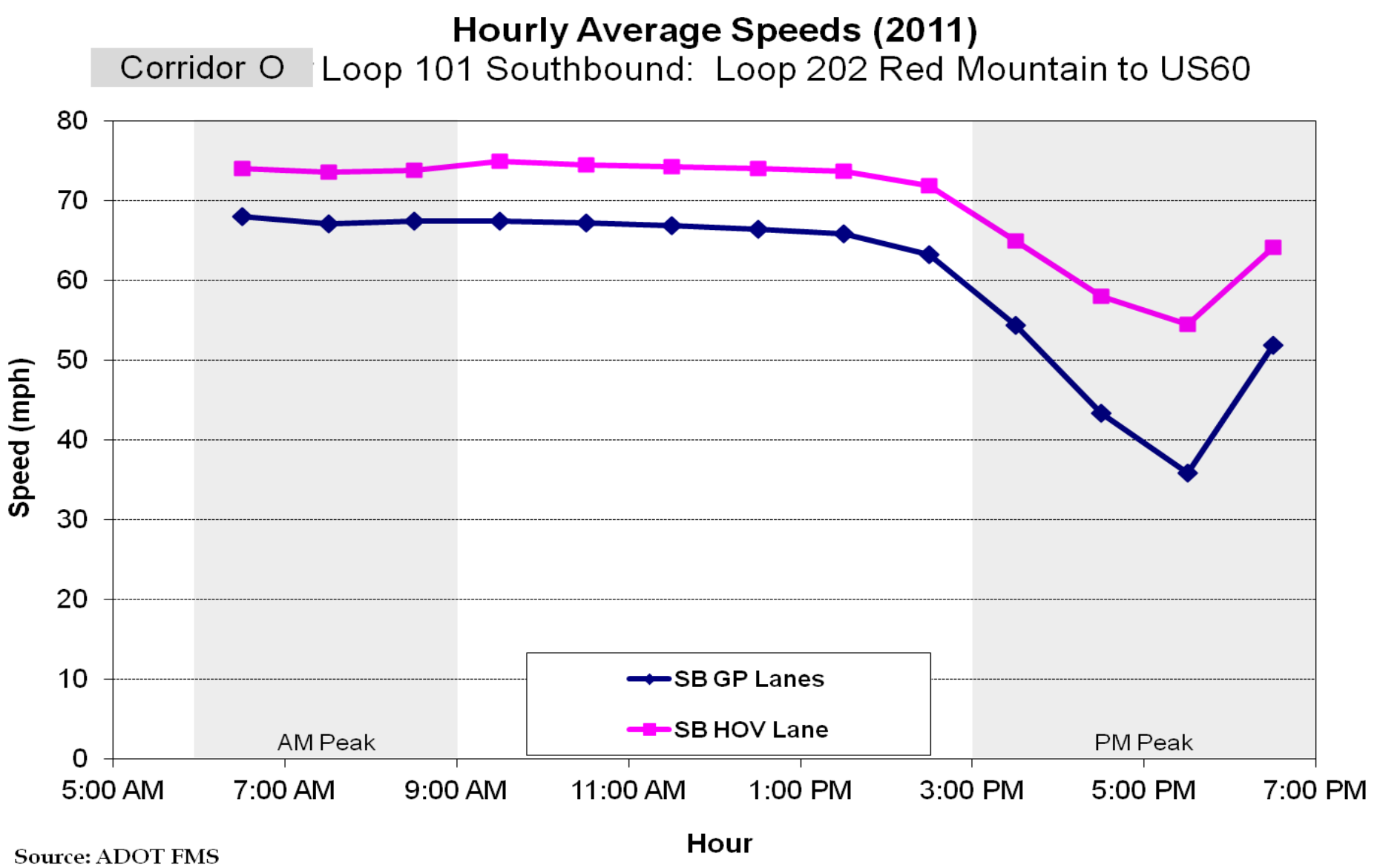
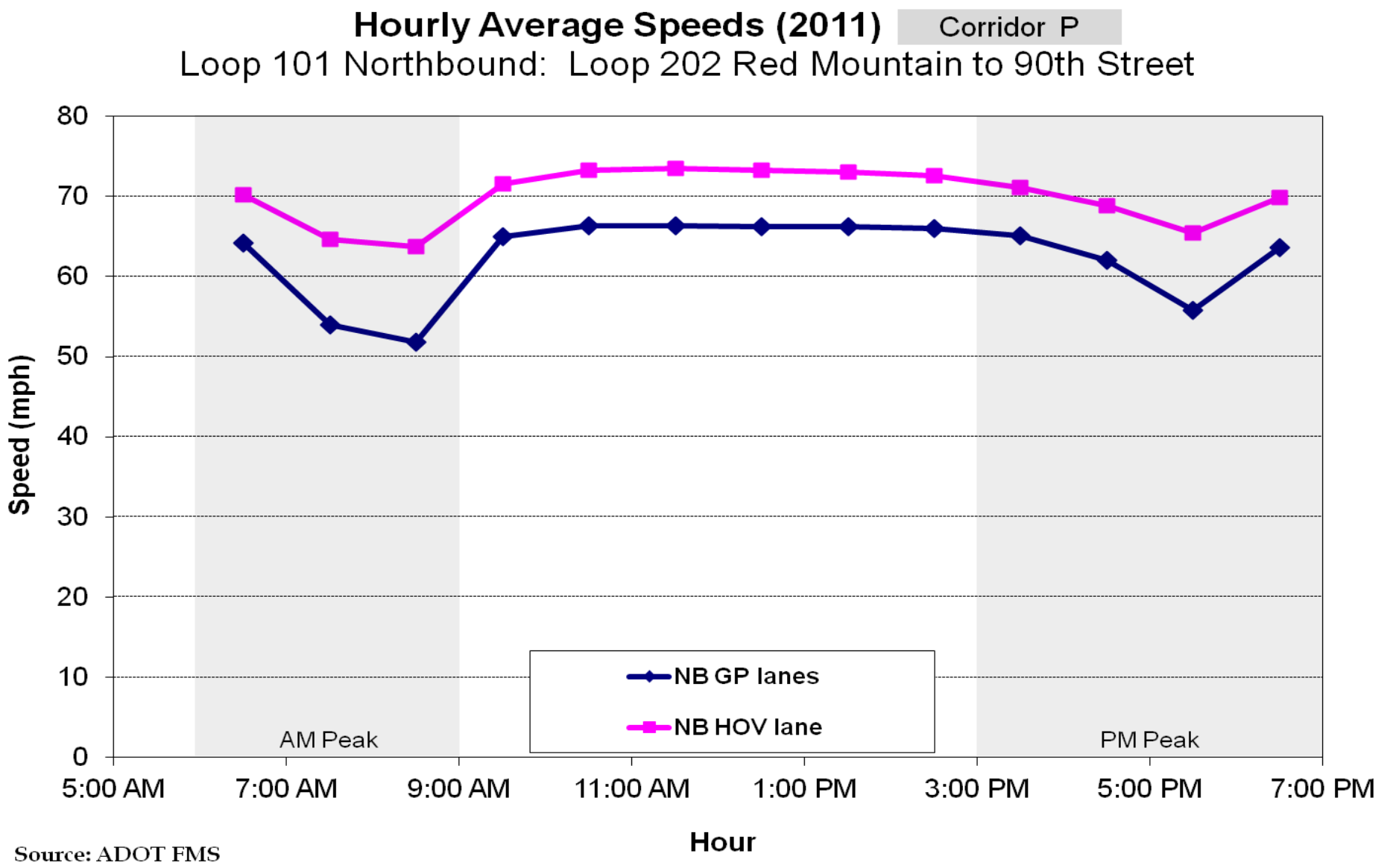
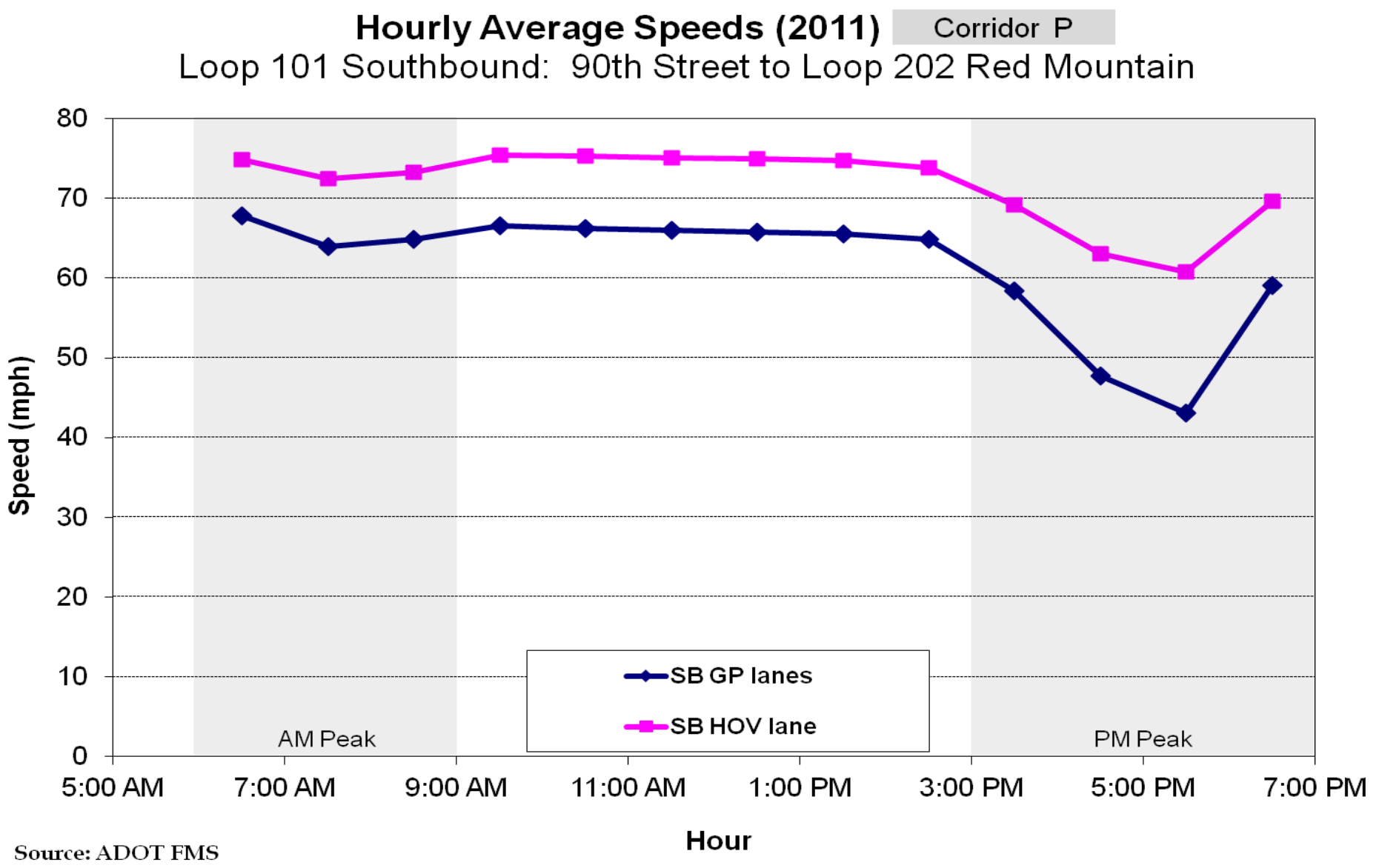
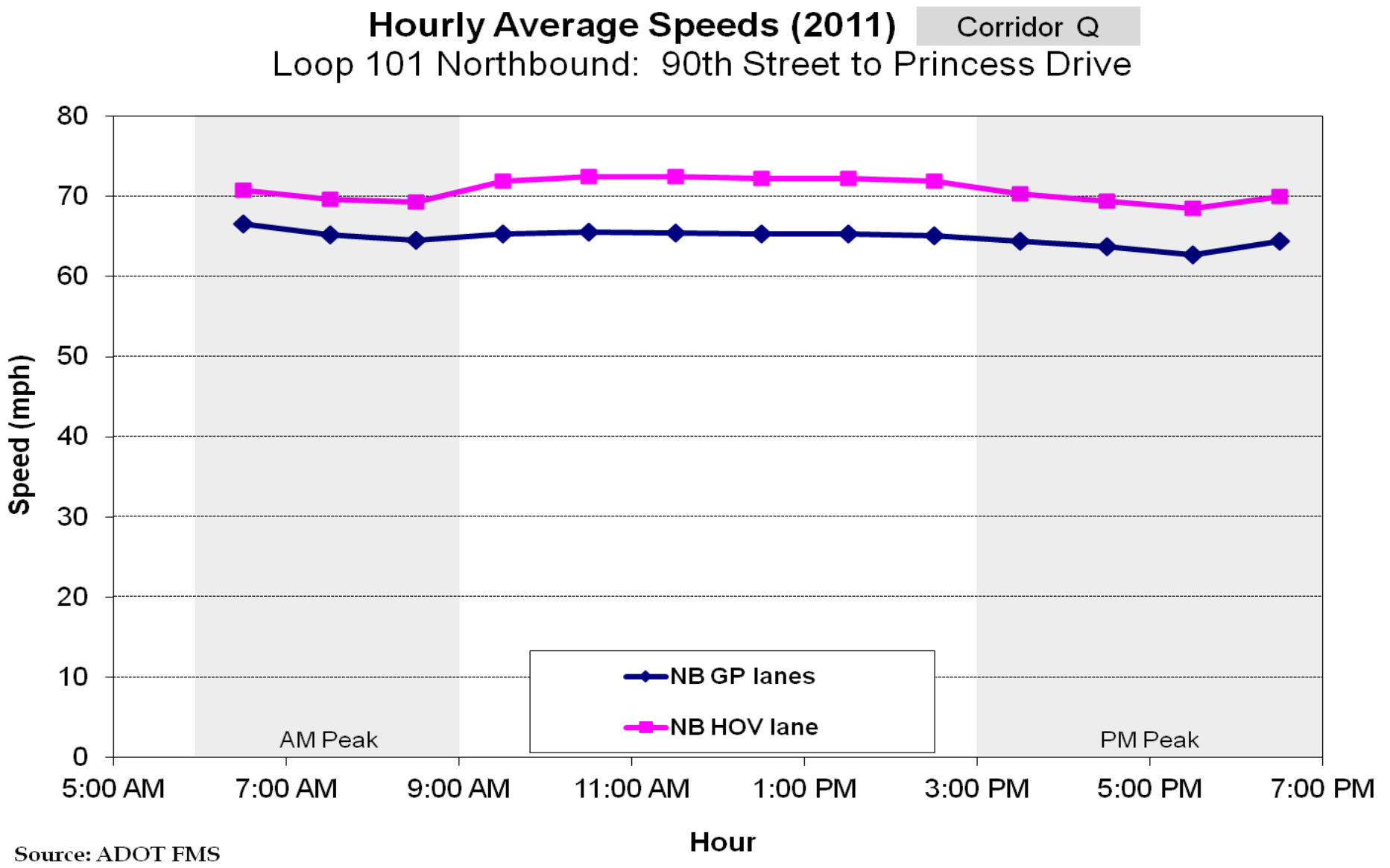


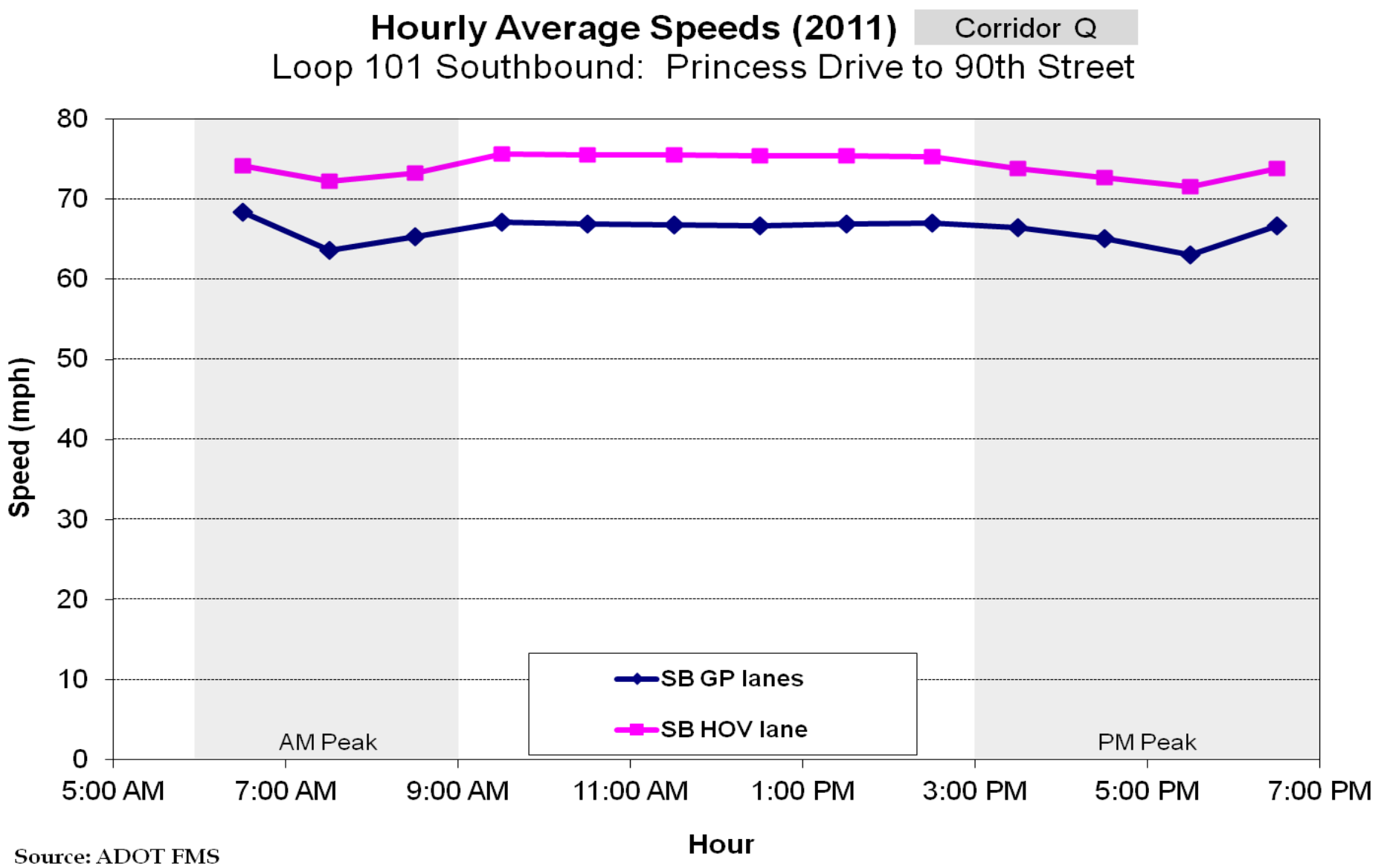
Source: ADOT FMS


Hourly Average Speeds (2011)
Corridor P
Loop 101 Northbound: Loop 202 Red Mountain to 90th Street
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
NB GP lanes
NB HOV lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS

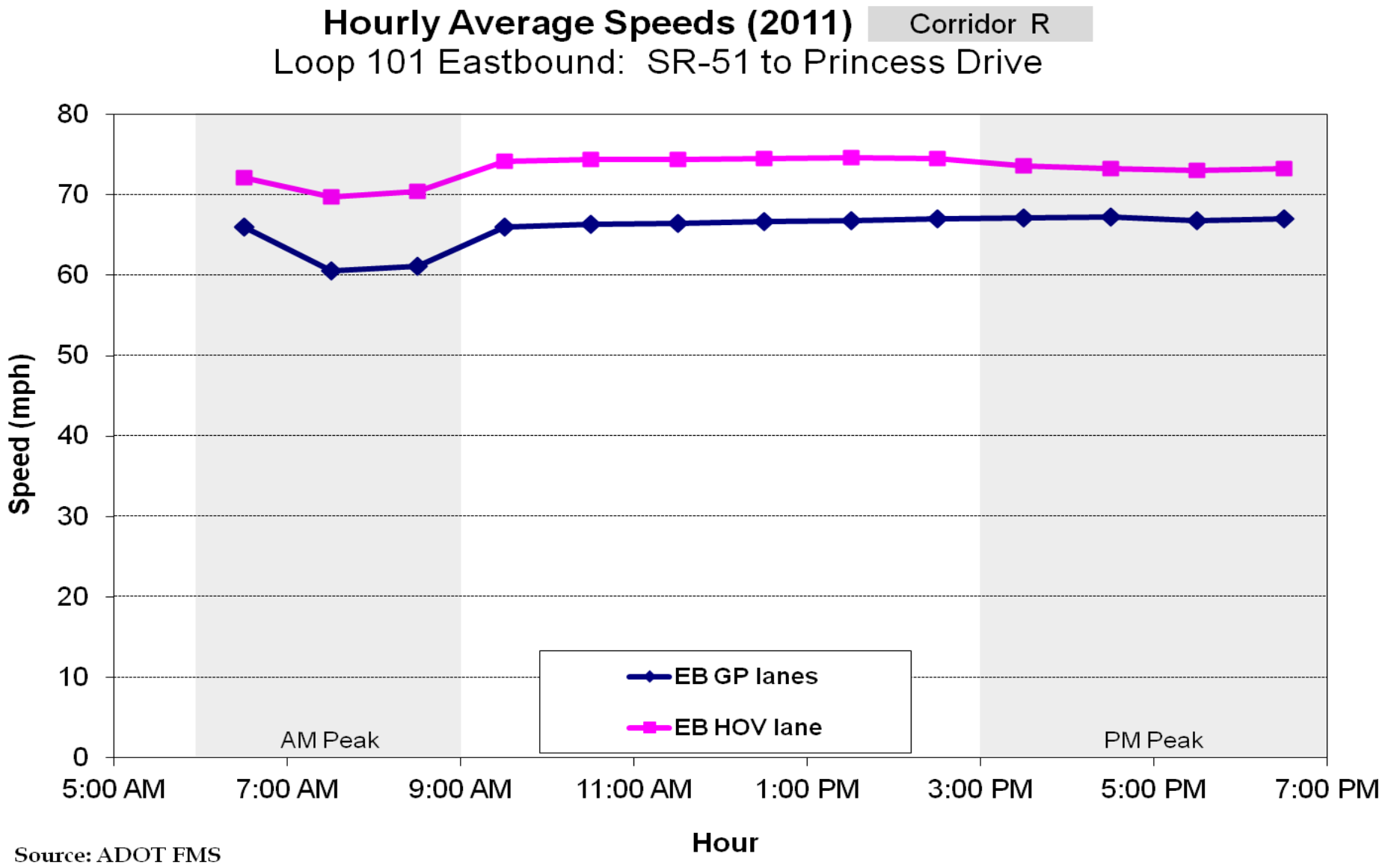

Hourly Average Speeds (2011)
Corridor P
Loop 101 Southbound: 90th Street to Loop 202 Red Mountain
Speed (mph)
80
70
60
50
40
30
20
10
0
AM Peak
PM Peak
SB GP lanes
SB HOV lane
5:00 AM
7:00 AM
9:00 AM
11:00 AM
1:00 PM
3:00 PM
5:00 PM
7:00 PM
Hour
Source: ADOT FMS



Source: ADOT FMS



Source: ADOT FMS



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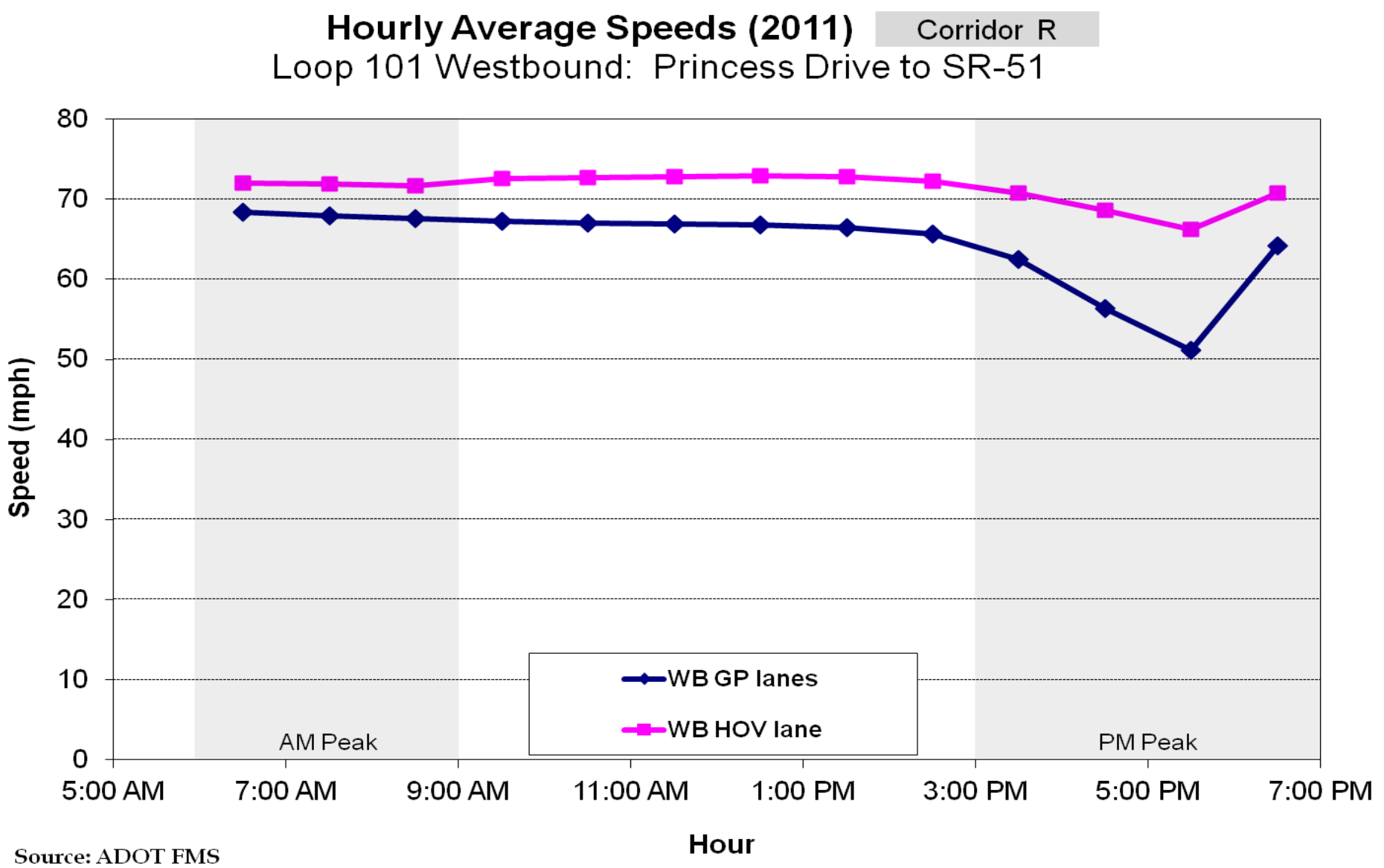

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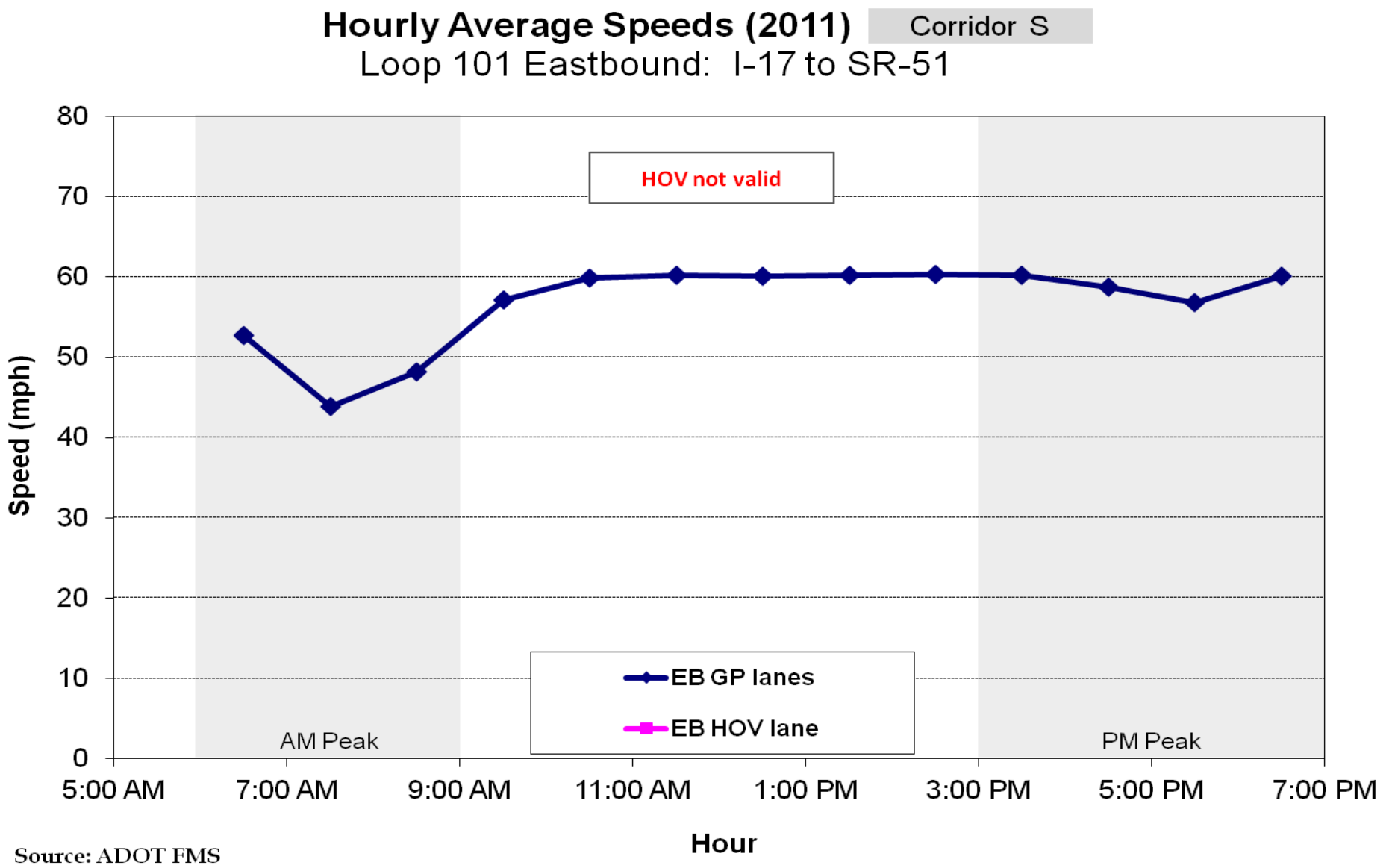

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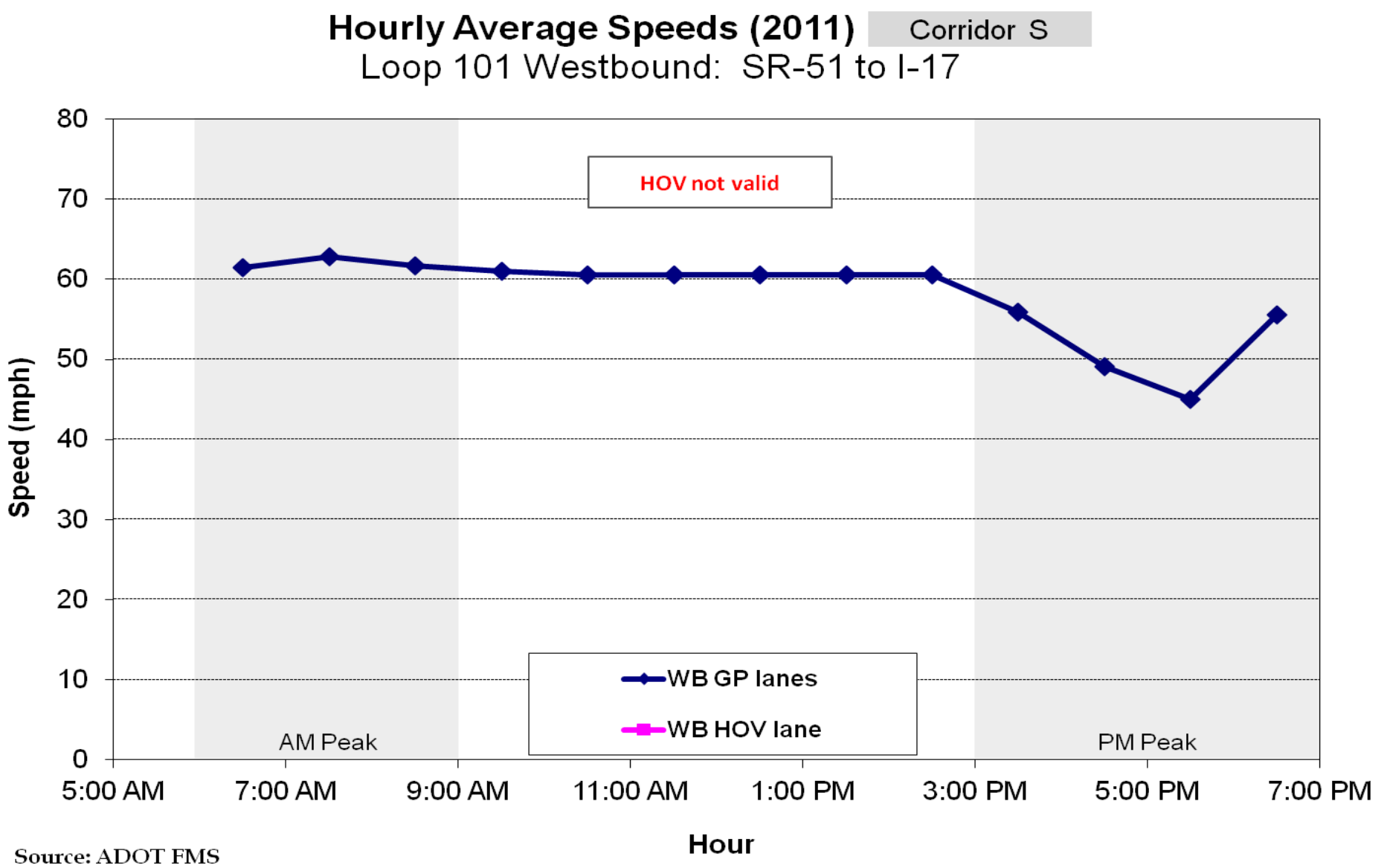

Source: ADOT FMS