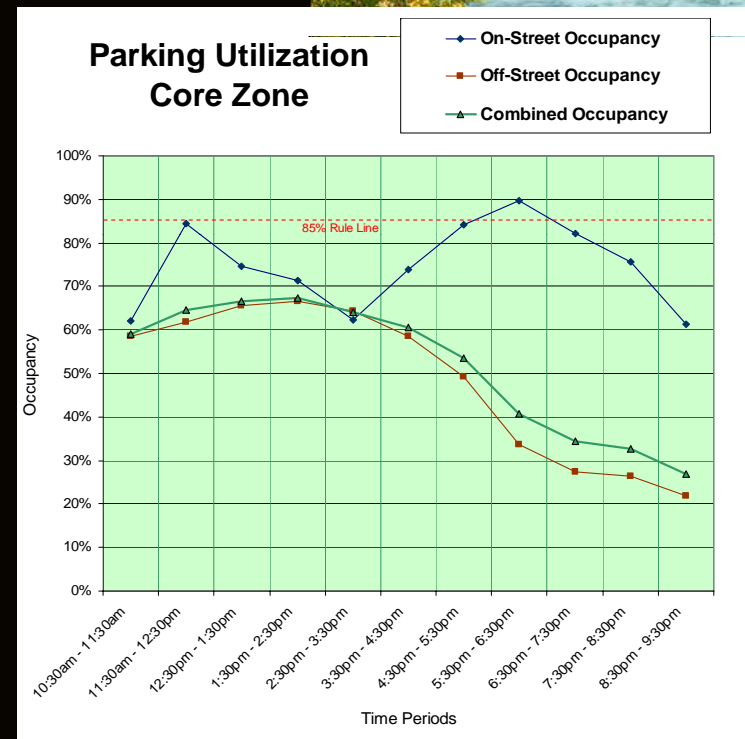
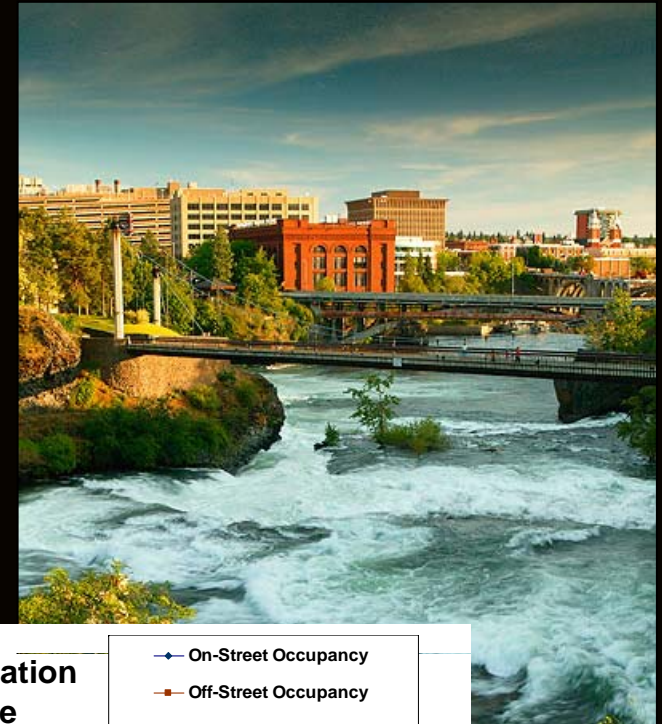


Downtown Spokane Parking Management: Parking Study Update

Rick Williams

Rick Williams Consulting



Parking Study Update

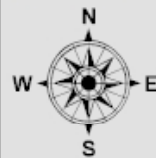
1. 2010 Occupancy/Capacity update of downtown area – on & off-street.
2. Smart Parking Meters - review based on meter revenue generation findings and case study of severe weather cities.
3. Recommendations related to downtown parking strategy.



2010 Study Area and Sub-Zones



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- Freeway
- Major Arterials
- Railroad
- Parking Study Area

Format of the Supply

Downtown Spokane Parking Breakout by Type – <u>Combined Study Area</u>						
	2004		2010			
<i>On-Street Stalls by Type</i>	Number of Stalls	% of Total Stalls	Number of Stalls	% of Total Stalls	Change 2004 vs. 2010	Hourly Parking Rate
10 Minutes	14	<1%	19	1.1%	+5	n/a
15 Minutes	35	2.2%	4	<1%	-31	n/a
30 Minutes	103	6.4%	77	4.7%	-26	\$1.50
1 Hour	349	21.8%	14	<1%	-335	\$1.20
1.5 Hours	23	1.4%	399	24.1%	+376	\$1.20
2 Hours	730	45.7%	701	42.4%	-29	\$0.50 - \$0.75
3 Hours	147	9.2%	163	9.9%	+16	\$0.50
10 Hours	197	12.3%	251	15.2%	+54	\$0.25
No Limit	N/A	N/A	26	1.6%	+26	\$0.25
<i>Sub-Total On-Street Parking Stalls</i>	1,598	100%	1,654	100%	+56	Blended Hourly Parking Rate = \$0.68
<i>Off-Street <u>Structured</u> Parking Stalls</i>	3,506 (6 facilities)	67.2%	5,188 (17 facilities)	57.0%	N/A	
<i>Off-Street <u>Surface</u> Parking Stalls</i>	1,713 (21 facilities)	32.8%	3,916 (87 facilities)	43.0%	N/A	
<i>Sub-Total Off-Street Parking Stalls</i>	5,219	100%	9,104	100%	N/A	
Total Surveyed Supply	6,817		10,758			
Total Stalls in Study Area	N/A		11,348			

104 facilities in 65 City Blocks

General Findings of Parking Update

On-street parking

- ✓ Activity is up in 3 of four parking zones
- ✓ Vehicle hours parked increased 11% (969 additional hours over course of typical day).
- ✓ Marked increase in evening activity.
- ✓ Significant increases in Convention Zone and Periphery.
- ✓ Blended hourly rate \$0.68 per hour (combined area).

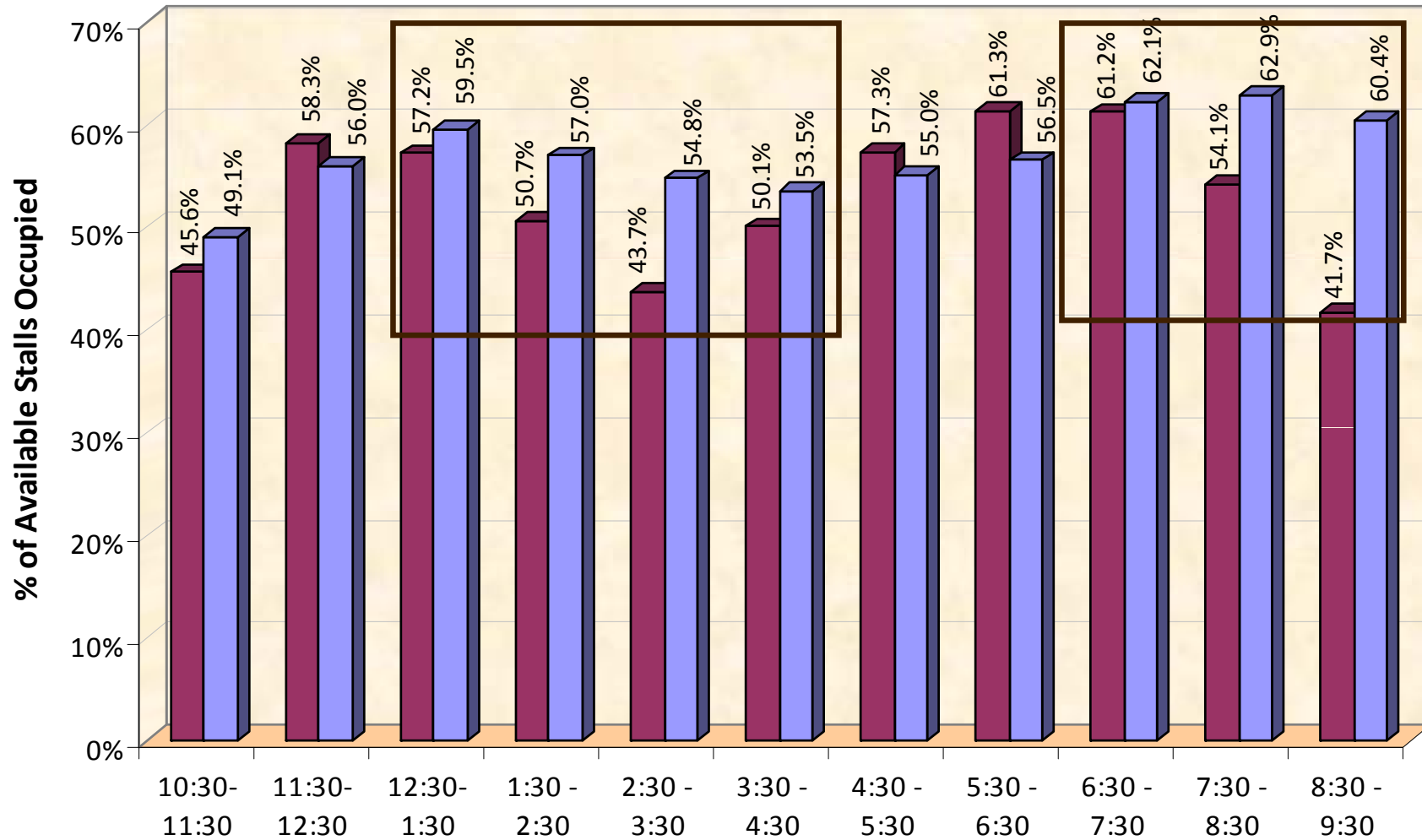
Off-street parking

- ✓ Activity appears to be flat
- ✓ Garage rates have increased
- ✓ Patterns of use are similar between years
- ✓ Abundant space available across operating day

On-Street Utilization – Combined Study Area

**Downtown Spokane Parking Utilization
On-Street Occupancies by Hour**

■ 2004 ■ 2010



On-Street Parking Utilization – Combined Study Area

Comparative On-Street Hourly Parking Occupancies – <u>Combined Study Area</u> 2004 vs. 2010										
10:30 11:30	11:30 12:30	12:30- 1:30	1:30 - 2:30	2:30 - 3:30	3:30 - 4:30	4:30 - 5:30	5:30 - 6:30	6:30 - 7:30	7:30 - 8:30	8:30 - 9:30
2004 Hourly Totals (1,598 Stalls) Total Vehicle Hours Parked = 9,287										
729	931	914	810	699	800	915	979	978	865	667
45.6%	58.3%	57.2%	50.7%	43.7%	50.1%	57.3%	61.3%	61.2%	54.1%	41.7%
2010 Hourly Totals (1,654 Stalls) Total Vehicle Hours Parked = 10,266										
804	917	975	933	897	876	901	926	1,018	1,030	989
49.1%	56.0%	59.5%	57.0%	54.8%	53.5%	55.0%	56.5%	62.1%	62.9%	60.4%

- Parking growth in 8 of 11 hours of the survey day
- Total vehicle hours parked up 11% (9,297 to 10,266 hours)
- Continued growth in evening hours

Off-street Utilization – Combined Study Area

Comparative Off-Street Hourly Parking Occupancies – <u>Combined Study Area</u> 2004 vs. 2010										
10:30 11:30	11:30 2:30	12:30- 1:30	1:30 - 2:30	2:30 - 3:30	3:30 - 4:30	4:30 - 5:30	5:30 - 6:30	6:30 - 7:30	7:30 - 8:30	8:30 - 9:30
2004 Hourly Occupancies (5,219 Total Stalls) 27 FACILITIES - 1,576 STALLS AVAILABLE AT PEAK HOUR Total Vehicle Hours Parked = 28,093										
3210	3293	3427	3457	3333	3053	2559	1722	1529	1353	1157
64.8%	66.4%	69.1%	69.8%	67.3%	61.6%	51.6%	34.7%	30.9%	27.3%	23.3%
2010 Hourly Totals (9,104 Total Stalls) 104 FACILITIES – 3,860 STALLS AVAILABLE AT PEAK HOUR Total Vehicle Hours Parked = 42,937										
4,913	5,106	5,207	5,248	5,035	4,720	4,172	2,749	2,148	1,946	1,693
54.0%	56.1%	57.2%	57.6%	55.3%	51.8%	45.8%	30.2%	23.6%	21.4%	18.6%

- Comparison is not apples-to-apples due to large 2010 sample size
- Pattern of use is consistent, regardless of sample size
- Likely that growth off-street has been flat to marginal (2004 to 2010)
- 3,860 stalls empty and available at peak hour
- Garage rates 2004 (\$40 - \$90) / Garage rates 2010 (\$90 - \$170)

Performance – Convention Center Zone

Downtown Spokane 2010 Parking Study Update Study Area Boundaries - Convention Center Zone



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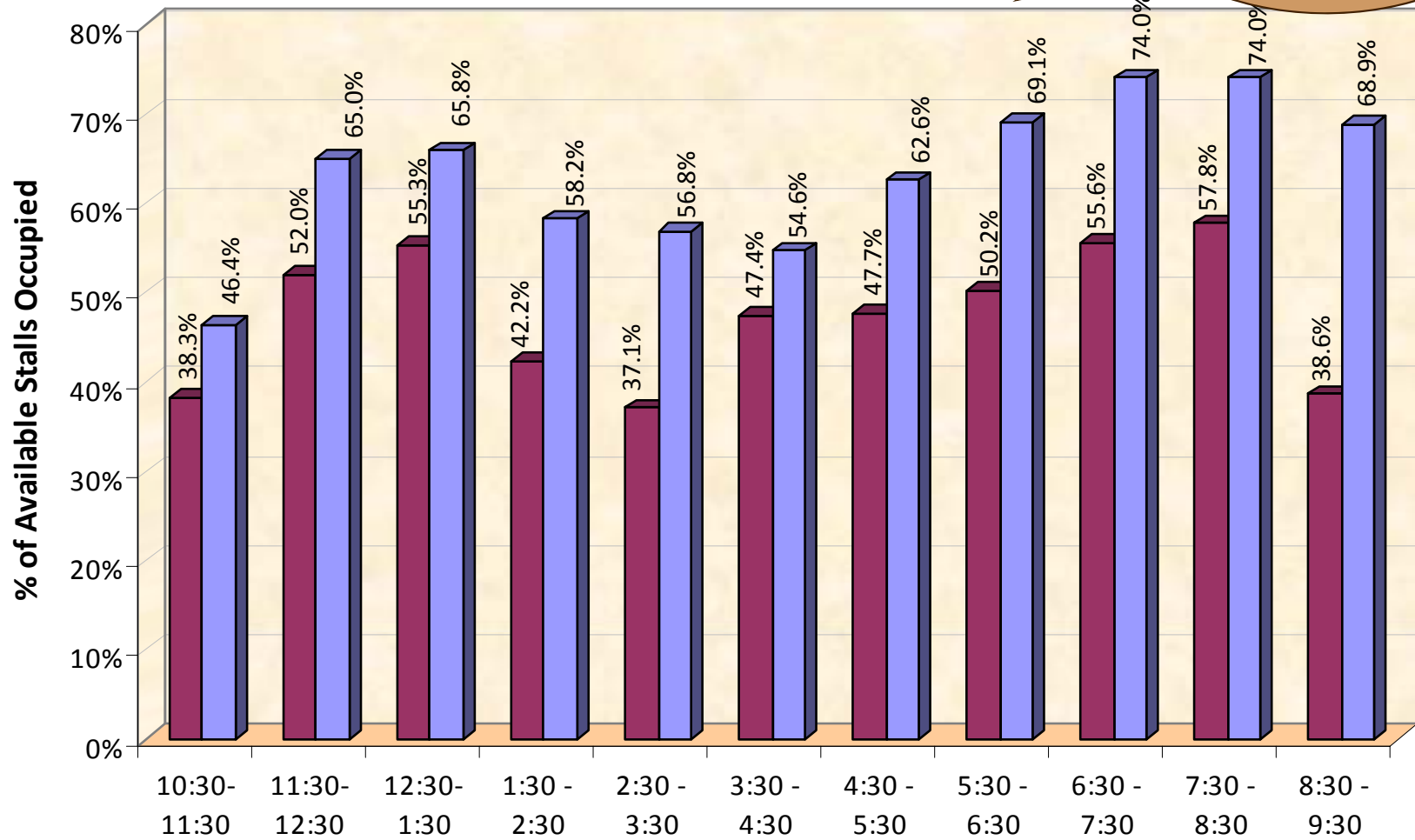


-  Freeway
-  Major Arterials
-  Railroad
-  Convention Center Zone

Convention Center Zone Performance – On-street

Downtown Spokane Parking Utilization
On-Street Occupancies by Hour - Convention Center Zone

■ 2004 ■ 2010



**+48% vehicle
hours parked**

+828 hours


Performance – West End

Downtown Spokane 2010 Parking Study Update Study Area Boundaries - West End Zone



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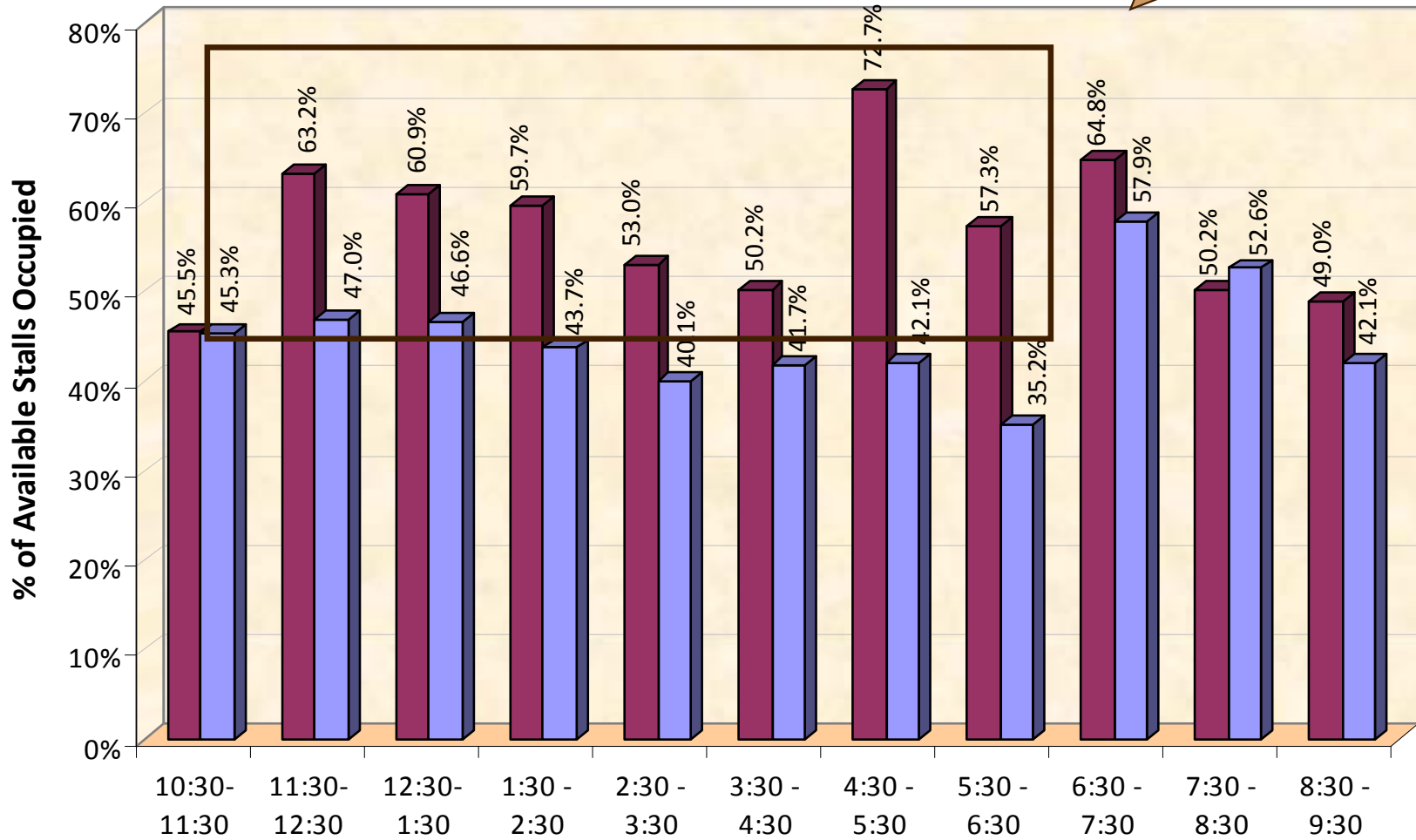
-  Freeway
-  Major Arterials
-  Railroad
-  West End Zone

West End Performance – On-street

23% in vehicle hours parked

Downtown Spokane Parking Utilization On-Street Occupancies by Hour - West End Zone

2004 2010



Pay Stations / Smart Meters

Key Questions



- ✓ Pros and cons of new meters
- ✓ What are “real time” costs associated with operation, maintenance, performance?
- ✓ Reliability, return on investment
- ✓ Evaluate use in cities with “severe” weather and lighting conditions.
- ✓ Review “roll out” examples (informed RFP process with performance test)



Consultant - Parking Strategy Recommendations



- Complete smart meter RFP / Pilots
- Standardize rates at short-term meters (90, 2 & 3HR) (current rate system averages \$0.68 per hour)
- Increase 10 hour rates closer to “market” all day.
- Consider 2004 study recommendation to establish parking enterprise fund for downtown.

Effect of Current Rates – Initial Estimate

Combined Downtown Study Area									
	15 minute	30 Minute	1 Hour	90 Min	2 Hour	2 Hr Spec	3 Hour	10 Hour	
Full use rate		\$ 0.75	\$ 1.20	\$ 1.80	\$ 1.00	\$ 1.50	\$ 1.50	\$ 2.50	
Hourly rate	NA	\$ 1.50	\$ 1.20	\$ 1.20	\$ 0.50	\$ 0.75	\$ 0.50	\$ 0.25	TOTAL
# stalls	4	77	14	399	701		163	277	1635
Revenue generated for 1 hour	0	\$115.50	\$16.80	\$478.80	\$350.50		\$81.50	\$69.25	\$1,112.35
							BLENDED HOURLY RATE		\$0.68

	15 minute	30 Minute	1 Hour	90 Min	2 Hour	2 Hr Spec	3 Hour	10 Hour	
Full use rate		\$ 0.75	\$ 1.20	\$ 1.80	\$ 1.00	\$ 1.50	\$ 1.50	\$ 2.50	
Hourly rate	NA	\$ 1.50	\$ 1.20	\$ 1.20	\$ 0.50	\$ 0.75	\$ 0.50	\$ 0.25	TOTAL
# stalls	0	57	0	333	78		0	0	468
Revenue generated for 1 hour	0	\$85.50	\$0.00	\$399.60	\$39.00		\$0.00	\$0.00	\$524.10
						BLENDED HOURLY RATE		\$1.12	

Questions?

