Addendum Analysis- Madison On-Street Parking Demand Assessment

City of Madison Parking Utility staff have been tracking on-street meter parking demand on a monthly basis for over 30 years. Staff surveys were conducted once a month on a weekday at the intervals of 8AM, 9AM, 3PM, 4PM and 5PM. They were kind enough to provide us with the years 2009-2013. Over 25,000 lines of data were analysis in Excel. We have utilized data from January, 2009 through June, 2013. We have used data given in raw, space-by space form for some 450+ parking stalls across 57 zones.

Parking utility staff would like to maintain 80-85% occupancy of on-street meters. At this time, demand usage is falling below that figure, and demand for on-street meter parking is moderate. System-wide demand use tends to average roughly between 40% and 60% of available parking, discounting some 10-15% of on-street stalls that are usually unavailable/off-line. That amount of unavailable stalls can spike in late afternoon of summer and fall months up to 20% of all on-street stalls, most probably due to special events like Concerts on the Square and UW-Madison sporting events, among others. Individuals with Dis/Vet tags are able under Wisconsin state law to park for free at the meters and are usually occupying some 5-10% of available parking stalls, at some times and block area as many spots as those actually paying for stalls.

Summer tends to see the highest parking demand of any quarter, which is interesting and a bit counter intuitive to Madison's culture. Bicyclists are in full-use in summer, but car use is showing peak demand (for meter, short-term parking). Observing quarterly demand paid parkers occupy some 15-20% of spaces at 8AM and 9AM, 20-30% of available spaces, at 3PM and 4PM, and jumping to around 40% of available spaces at 5PM, which is noteworthy, as system meters are free to users starting at 6pm. Peak demand is clearly observed in the late afternoon between 4PM and 5PM. Unpaid "freeloaders" are around 10% of available parking spots throughout the day, but begin to spike in the range of 20-30% of available stalls as the 5PM hour ticks closer to 6pm when on-street meters are free of charge.

Policy Recommendations

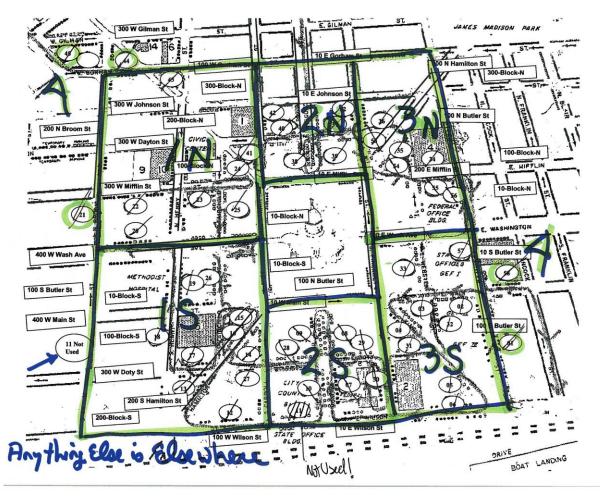
- 1) While the City of Madison's new Pay-by-Space Meter system has the technological capacity to implement demand-based, variable pricing, it does not appear that on-street meter demand is yet consistently seeing demand near the critical 80-85% capacity level that would warrant adjusting pricing with system-wide peak/variable pricing. Since non-metered, 2 hour parking is located within several blocks of many downtown meter locations, increasing prices further on meters risks displacing additional users to either the city's less expensive parking garages that have their own capacity issues, or to downtown residential parking areas that do not contain meters, creating conflict with those users, many of whom possess residential parking permits and have an expectation of parking availability within their zones.
- 2) Demand is clearly rising for on-street parking towards the end of the day. Whether this is because of new users arriving downtown or whether it is a reshuffling of cars from paid to un-paid, on-street meters is unknown. If any system expansion were to occur, it would be

recommended to explore expanding the hours of enforcement of the existing system past 6pm into the evening hours to capture additional revenue and to reflect the shift of use the downtown isthmus has seen in recent years from an office/commercial-heavy area that used to functionally shutter at 5pm. Now Madison has a vibrant downtown district with a thriving retail and nightlife economy that stays open well into the nighttime. Parking ramp demand data shows a surge in activity in the evening time, even when on-street meters are free of charge, indicating paid demand for nighttime parking. Staffing expenses and other cost considerations, especially displacing revenue from the paid parking ramps, should be fully considered before action is taken.

- 3) If any expanded or variable pricing system is considered at this time, it should be for zones and areas that see high demand during special events that draw tens of thousands of people to the downtown, most notably UW-Madison athletic events, the IronMan Wisconsin Triathlon, Taste of Madison, Concerts on the Square, and Art Fair on the Square. Selectively implementing some peak pricing selectively on occasion where the demand warrants is the best option available for the Utility at this time to see additional revenue.
- 4) Enforcement of the parking meters is taken very seriously by the City of Madison, with some half-dozen full-time parking enforcement officers spending their work day on-foot enforcing the downtown core parking meters. They possess handheld computers that alert them to expired meter locations, furthering their efficiency and target methodology. Many citizens report receiving a ticket from the attentive officers. However, any efforts to minimize the 10-15% of available spots that at any given time are parked at without producing revenue should be undertaken.
- 5) Engage in a dialogue with other Wisconsin communities to understand the system implications from unpaid Dis/Vet users on varying municipal and county parking systems. Work to see if a coalition of bipartisan communities and legislators are interested in working on this issue on legislation reform of the law to ensure the system is not abused.

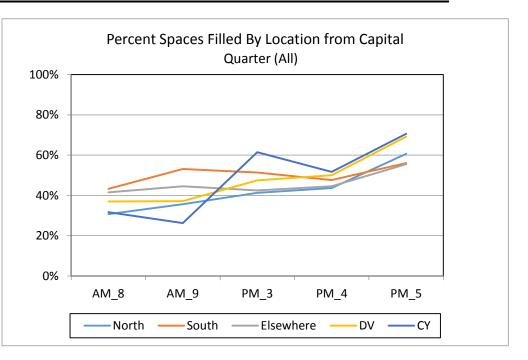
Appendix A- Capitol Zone-Parking Analysis

We have tabulated block samples and have assigned them into 10 quadrants/buckets to break down usage patterns across area and time of day. The south side of the square has more demand in the morning for on-street parking, and the north spikes in the late afternoon.

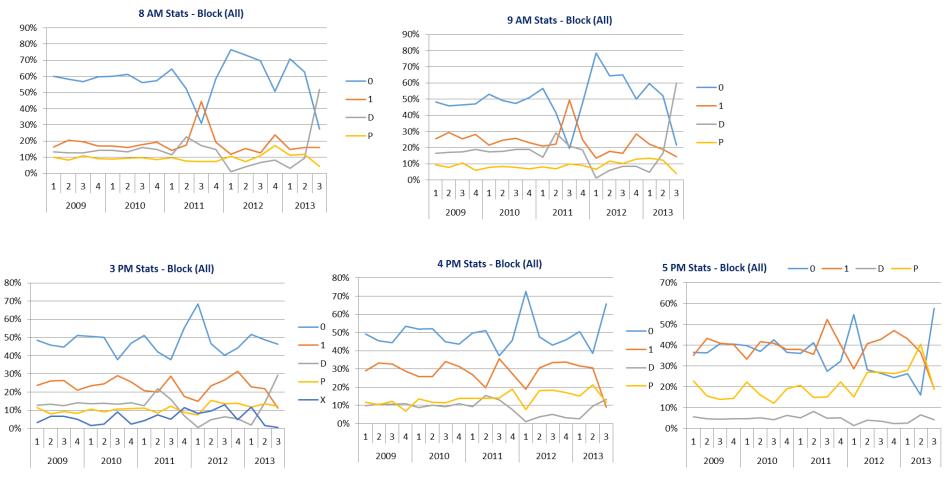


Row Labels	AM_8	AM_9	PM_3	PM_4	PM_5
4	34.7%	39.6%	41.1%	40.7%	48.4%
1N	27.5%	35.9%	43.5%	43.3%	59.0%
1S	41.7%	55.7%	52.2%	43.8%	51.4%
2N	34.2%	35.8%	41.7%	43.8%	61.6%
2S	45.8%	55.4%	54.9%	53.6%	61.6%
3N	30.5%	35.2%	38.7%	43.8%	61.5%
3S	42.4%	48.3%	47.0%	45.4%	55.2%
СҮ	31.7%	26.3%	61.5%	51.7%	70.6%
DV	37.0%	37.1%	47.5%	50.1%	69.2%
E	48.4%	49.6%	43.9%	48.3%	62.5%

	AM_8	AM_9	PM_3	PM_4	PM_5
North	30.7%	35.6%	41.3%	43.7%	60.7%
South	43.3%	53.1%	51.4%	47.6%	56.0%
Elsewhere	41.5%	44.6%	42.5%	44.5%	55.5%
DV	37.0%	37.1%	47.5%	50.1%	69.2%
CY	31.7%	26.3%	61.5%	51.7%	70.6%



Appendix B



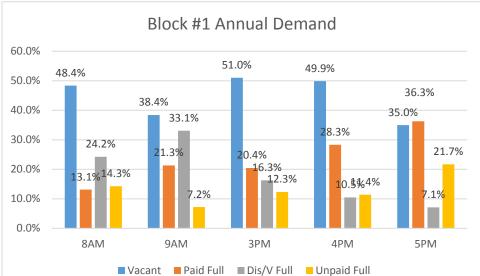
System Wide Annual & Quarterly Usage Demand, by Year

Row: 1=Winter (Dec-Feb), 2=Spring (Mar-May), 3=Summer (June-Aug), 4=Fall (Sept-Nov) Key: 0=Vacant, 1= Paid Full, D=Full Dis/V, P=Unpaid Full, X=Offline/Unavailable

Appendix C

Monthly System-Wide Demand Data, By Hour

	8 AM Stats		9 AM Stats		3 PM Stats		4 PM Stats		5 PM Stats
. (/	All)	Year	(All)	Year (A	All)	Year (A	II)	Year (Al	II)
nt of AM 08 C	olumn Labels	Count of AM 09	Column Labels	Count of PM 03 C	olumn Labels	Count of PM 04 Co	lumn tabals	Count of PM 05 Co	lumn tabak
w Labels	0 1D P X Grand Total	Row Labels	0 1D P X Grand Total	Row Labels	0 1D P X Grand Total	Row Labels	0 1D P X Grand Total	Row Labels	0 1D P X Grand
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	1408 270 194 180 213 2265	-	1179 424 244 193 225 2265	1	1170 429 200 263 203 2265	1	1119 501 133 271 241 2265	-	772 719 89 449 236
	1363 337 211 205 149 2265	2	1150 455 288 213 159 2265	2	1096 517 238 295 119 2265	2	1037 559 174 338 157 2265	2	731 767 123 488 156
	1377 337 190 170 191 2265	4	1144 481 265 173 202 2265	3	1179 489 243 212 142 2265	4	1081 587 179 262 156 2265	4	661 885 121 446 152
	1133 397 377 191 167 2265	-	880 480 527 207 171 2265	4	896 569 446 237 117 2265	-	863 633 274 359 136 2265	-	616 860 121 535 133
	1030 383 409 144 299 2265	-	795 515 482 173 300 2265	- -	912 548 348 269 188 2265	-	924 478 195 226 442 2265	-	839 615 79 292 440
	1020 251 217 153 174 1815	7	865 342 280 152 176 1815		811 411 221 207 165 1815	7	755 470 163 232 195 1815	7	610 637 83 298 187
	642 607 220 194 147 1810	,	578 655 269 159 149 1810	2	668 598 225 207 112 1810	,	609 679 140 253 129 1810	,	435 896 58 295 126
	676 214 194 166 109 1359		580 314 234 120 111 1359	0	581 337 174 183 84 1359		567 379 110 194 109 1359	0	389 514 62 290 104
	743 240 137 138 99 1357	10	667 303 159 126 102 1357	10	648 348 112 145 104 1357	10	468 339 71 162 317 1357	10	319 448 40 235 315
	690 324 145 124 74 1357	11	629 361 184 106 77 1357	10	741 343 107 127 39 1357	11	516 344 74 143 280 1357	11	370 453 46 208 280
	1122 272 163 205 50 1812	12	1047 371 201 141 52 1812	12	975 446 162 192 37 1812	12	893 521 112 207 79 1812	17	570 435 46 208 280 604 665 64 404 75
d Total	12595 3976 2651 2078 1800 23100	Grand Total	10789 5136 3368 1951 1856 23100	Grand Total	10970 5495 2673 2545 1417 23100	Grand Total	10060 6001 1770 2888 2381 23100	Grand Total	7307 8141 968 4342 2342
	B AM Stats 0 1 D P X 61% 15% 9% 9% 6%	Month	9 AM Stats 0 1 D P X 56% 19% 10% 8% 6%	Month	3 PM Stats 0 1 D P X 57% 20% 9% 9% 5%	Month	4 PM Stats 0 1 D P X 54% 23% 5% 11% 5%	Month 1	5 PM Stats 0 1 D P X 42% 30% 4% 18% 6%
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Appendix D Example of Block #1 Annual & Quarterly Usage Demand

Count of AM_08 Column Labels

Row Labels	0	1 D	Р	Grand Total
1	48.36% 13	3.13% 24.24%	5 14.27%	100.00%
1	50.67% 11	1.11% 20.44%	5 17.78%	100.00%
2	57.56% 12	2.61% 16.39%	5 13.45%	100.00%
3	38.73% 13	3.24% 38.73%	9.31%	100.00%
4	42.40% 17	7.60% 22.40%	5 17.60%	100.00%
Grand Total	48.36% 13	3.13% 24.24%	5 14.27%	100.00%

Count of AM_09 Column Labels

Row Labels	0	1 D	Р	Grand Total
1	38.40%	21.29% 33.0	08% 7.22%	100.00%
1	45.78%	20.00% 28.4	44% 5.78%	6 100.00%
2	45.76%	19.07% 27.9	97% 7.20%	100.00%
3	25.49%	21.57% 47.0	06% 5.88%	6 100.00%
4	32.26%	27.42% 28.2	23% 12.10%	6 100.00%
Grand Total	38.40%	21.29% 33.0	08% 7.22%	5 100.00%

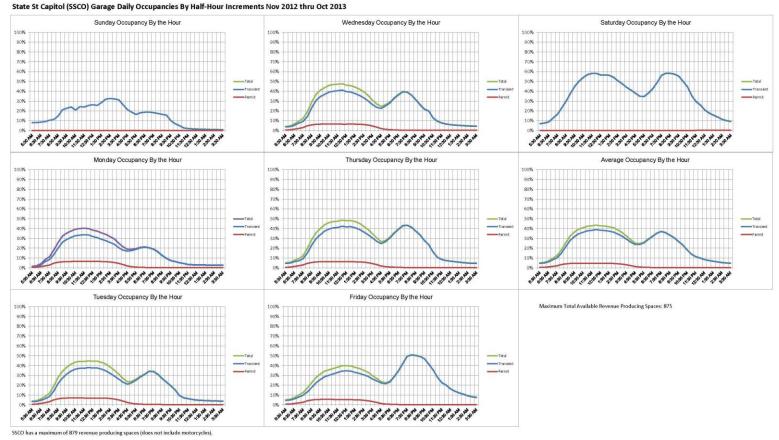
Count of PM_03 Column Labels						
Row Labels	0	1	D	Р	Grand Total	
1	50.99%	20.44%	16.26%	12.31%	100.00%	
1	57.46%	17.91%	13.43%	11.19%	100.00%	
2	60.69%	13.79%	13.79%	11.72%	100.00%	
3	34.48%	25.00%	26.72%	13.79%	100.00%	
4	45.00%	33.33%	8.33%	13.33%	100.00%	
Grand Total	50.99%	20.44%	16.26%	12.31%	100.00%	

Count of PM_04 C	olumn Labels				
Row Labels	0	1	D	Р	Grand Total
1	49.89%	28.29%	10.47%	11.36%	100.00%
1	56.82%	25.00%	11.36%	6.82%	100.00%
2	53.38%	19.59%	9.46%	17.57%	100.00%
3	46.15%	29.91%	13.68%	10.26%	100.00%
4	30.77%	57.69%	3.85%	7.69%	100.00%
Grand Total	49.89%	28.29%	10.47%	11.36%	100.00%

Count of PM_05 Column Labels

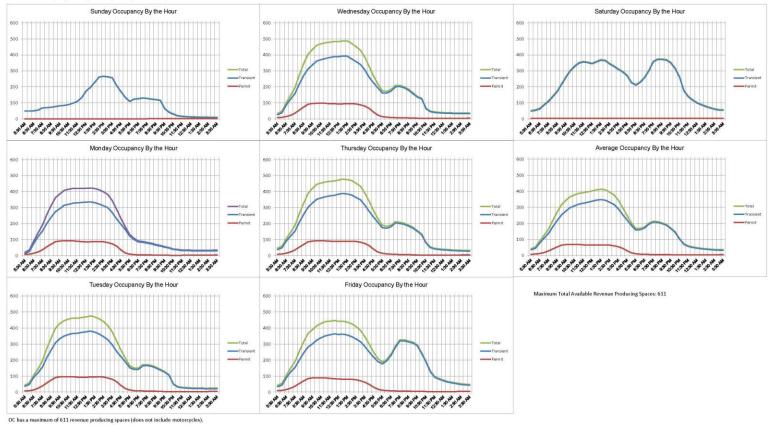
Row Labels	0	1D	Р	Grand Total
1	34.96%	36.28% 7.0	08% 21.68%	100.00%
1	49.24%	26.52% 6.8	82% 17.42%	100.00%
2	36.00%	27.33% 8.6	57% 28.00%	100.00%
3	27.35%	48.72% 6.8	84% 17.09%	100.00%
4	13.21%	58.49% 3.7	77% 24.53%	100.00%
Grand Total	34.96%	36.28% 7.0	08% 21.68%	100.00%

Appendix E- 2013 Parking Ramp Demand (Source: City of Madison Parking Utility)



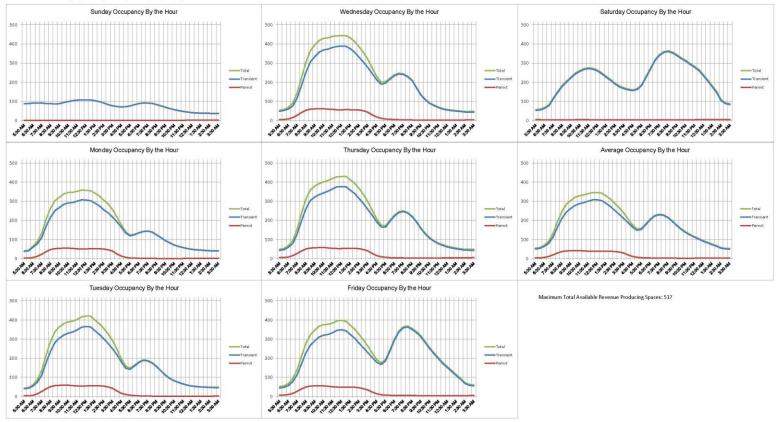
P\Tncommon\PABKING\Um\Garage-SSCO\SSCO Occupancy Data dsSSCOGraphByDavHourPct12/20/20131:58 PM

Overture Ctr (OC) Garage Daily Occupancies By Half-Hour Increments Nov 2012 thru Oct 2013



F\Tncommon\PARKING\Jim\Garage-OC\OC Occupancy Data.xisOCGraphByDayHour12/20/20131xi3 PM

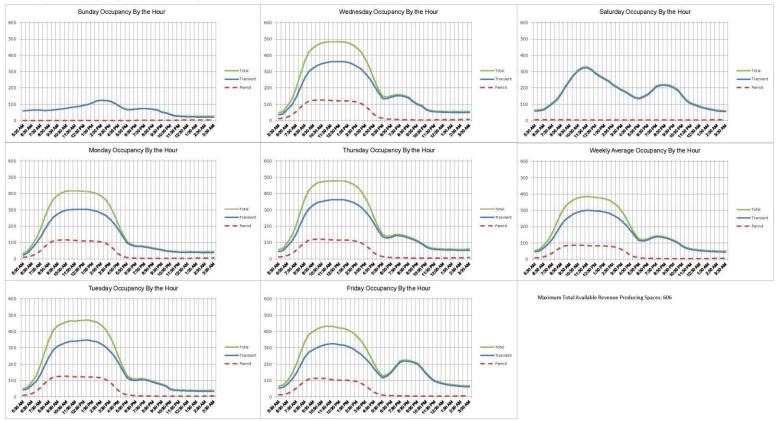
Government East (GE) Garage Daily Occupancies By Half-Hour Increments Nov 2012 thru Oct 2013



GE has a maximum of 517 revenue producing spaces (does not include motorcycles).

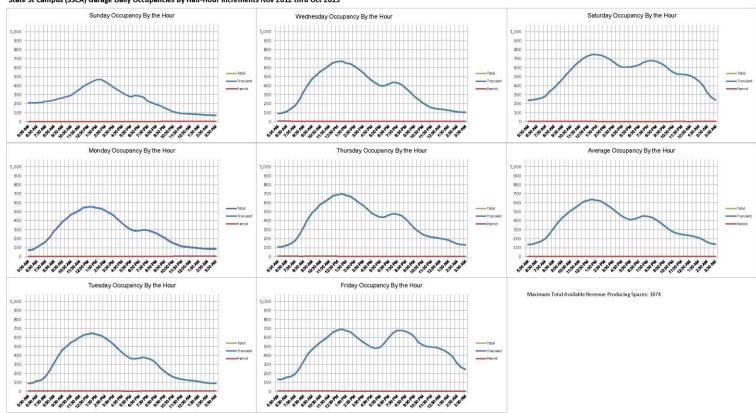
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Capitol Square North (CSN) Garage Daily Occupancies By Half-Hour Increments Nov 2012 to Oct 2013



CSN has a maximum of 606 revenue producing spaces (does not include motorcycles).

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State St Campus (SSCA) Garage Daily Occupancies By Half-Hour Increments Nov 2012 thru Oct 2013

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SSCA has a maximum of 1,074 revenue producing spaces (does not include motorcycles).



