# Annual Update for 2020-2021 ICAP Demand Curves

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### **ICAPWG**

November 5, 2019, 10 Krey Boulevard



# Agenda

- Background
- Process Overview
- Winter-to-Summer Ratio Values
- Gross CONE Composite Escalation Factor Value
- Net Energy and Ancillary Services Revenue Offset Values
- ICAP Reference Point Values



# Background



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# Background

 As part of the 2016 ICAP Demand Curve reset process a new annual update procedure was developed to update the ICAP Demand Curves formulaically for each of the remaining three years of the reset period



# **Process Overview**



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# **Annual Update Process Overview**

- Three components of the ICAP Demand Curve input parameters will be updated
  - Winter-to-summer ratio (WSR)
  - Gross cost of new entry (CONE) for peaking plants using a composite escalation factor
  - Net Energy and Ancillary Services (Net EAS) revenue offset
- For the annual updates regarding the 2018-2019, 2019-2020 and 2020-2021 Capability Years, the reference point for each ICAP Demand Curve is not permitted to increase more than 12% or decrease more than 8% from one year to the next



# **Annual Update Process Overview**

- The 2020-2021 Capability Year (CY) ICAP Demand Curves will use data from September 1, 2016 – August 31, 2019 for updating the WSR and Net EAS revenue offset
  - Year 1: September 1, 2016 August 31, 2017
  - Year 2: September 1, 2017 August 31, 2018
  - Year 3: September 1, 2018 August 31, 2019
  - Rolled Off: September 1, 2015 August 31, 2016



# **Annual Update Process Timeline**

- September Updated WSR values (posted to website)
- November Updated Gross CONE values
- November Updated net EAS revenue offset values
- November ICAP Demand Curve reference point values
  - All annual update information is posted in the "Installed Capacity Market (ICAP)" section of the NYISO public website under "Reference Documents" > "Demand Curve Reset Annual Updates" > "2020"



# Winter-to-Summer Ratio



## 2020-2021 WSR Values

Three-year WSR	2020-2021 CY Update	2019-2020 CY Update
NYCA	1.040	1.039
GHIJ	1.058	1.059
NYC	1.078	1.081
LI	1.076	1.078

One-year WSR	2018- 2019 (Year 3)	2017- 2018 (Year 2)	2016- 2017 (Year 1)	2015- 2016 Rolled Off
NYCA	1.046	1.040	1.034	1.042
GHIJ	1.059	1.059	1.055	1.062
NYC	1.080	1.075	1.079	1.089
LI	1.069	1.074	1.084	1.076



## **Adjustments for Qualifying Generators**

- The annual update process requires adjustments for certain qualifying resource entry and exit circumstances
- Entry adjustments for Year 3 WSR:
  - Gilboa 1
  - Arthur Kill Cogen
- Exit Adjustments for Year 3 WSR:
  - Hudson Ave GT 4



# Gross CONE Composite Escalation Factor



## **Gross CONE Escalation Factor Process**

### Update escalation factor indices in the demand curve model

- Materials, Labor, and Turbine costs
  - Source: Bureau of Labor Statistics
- General/non-EPC cost index
  - Source: Bureau of Economic Analysis
- Use most recently available data published as of October 1<sup>st</sup>
  - Preliminary values and missing data are not used
  - May include revisions by the index publisher to a prior year's data values that are re-used in the current calculation



## **Martial Cost Index**

#### Materials Cost Index

Source:	BLS Producer Price Index - Commodities			
Seasonal:	Not Seasonally Adjusted			
Series Id:	WPUID612			
Group:	(ID6) Intermediate demand by commodity type			
Item:	(12) Materials and components for construction			
Base Date:	198200			
Years:	2005 to 2017			
Access:	http://data.bls.gov/cgi-bin/dsrv?wp			

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2005	173.1	174.7	175.1	175.4	175.0	175.5	175.7	175.4	177.0	179.2	180.8	181.7
2006	184.2	185.0	185.5	186.7	188.2	189.2	190.2	190.7	191.0	190.4	189.6	189.6
2007	190.3	190.6	191.2	192.1	192.8	193.1	193.5	193.5	193.2	193.2	193.2	193.4
2008	194.4	195.7	197.3	200.2	203.3	206.5	209.8	212.9	214.0	212.2	210.2	207.9
2009	207.0	204.8	204.2	203.2	202.8	202.0	201.9	201.5	202.0	201.9	201.7	202.0
2010	202.3	203.5	204.6	206.1	207.4	206.6	206.3	206.2	205.9	205.9	206.3	207.0
2011	208.3	209.5	210.9	212.1	212.8	213.7	214.7	214.6	214.5	214.4	214.2	214.2
2012	215.3	216.9	217.4	218.3	219.1	219.2	218.5	218.7	219.2	219.1	219.5	219.9
2013	221.2	222.2	222.7	223.4	222.9	222.6	222.4	223.0	222.9	222.9	223.0	223.1
2014	224.8	225.8	226.6	226.9	227.4	227.4	227.7	228.2	228.5	228.6	228.5	228.4
2015	229.0	229.1	229.1	229.4	229.1	229.0	228.8	228.0	227.5	227.7	227.6	227.2
2016	227.5	227.5	227.8	228.3	228.7	229.1	229.7	230.3	230	229.7	229.7	230.1
2017	231.5	232.5	233.2	234.4	234.6	234.8	234.7	235.6	236	237	237.5	237.7
2018	239.7	241.2	244.3	245.4	248.1	249	249.4	249.2	249.6	249.6	249.1	249.7
2019	250.7	251.5	251.2	251.9								
2020					•							
2021												



### **Construction Labor Cost Index**

		Year	Annual
		2004	64,405
Construction La	Construction Labor Cost Index		63,754
Source: Series Id: State: Area: Industry: Owner: Size Type Years: Access:	BLS Quarterly Census of Employment and Wages ENU360005052371 New York New York Statewide NAICS 2371 Utility system construction Private All establishment sizes Average Annual Pay 2004 to 2017 http://data.bls.gov/cgi-bin/dsrv?en	2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	68,838 74,672 82,081 80,447 78,635 79,665 87,406 88,850 92,531 97,529 102,788 101,108 105,039
		2021	



### **Turbine Cost Index**

#### Gas and Steam Turbine Index

Source:	BLS Producer Price Index - Commodities			
Seasonal:	Not Seasonally Adjusted			
Group:	(11) Machinery and Equipment			
Item:	(97) Turbines and Turbine Generator Sets			
Series ID:	WPU1197			
Base Date:	198706			
Years:	2005 to 2017			
Access:	http://data.bls.gov/cgi-bin/dsrv?wp			

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2005	170.5	170.8	170.9	171.8	172.0	171.8	163.5	164.9	164.7	165.2	167.2	168.8
2006	172.6	171.0	170.3	171.1	171.6	173.5	174.4	174.9	175.6	176.2	177.5	178.3
2007	179.6	185.2	185.9	187.6	189.3	180.9	181.0	181.0	181.4	181.5	182.8	183.0
2008	183.8	191.1	198.6	198.6	201.9	201.9	215.9	215.9	215.9	216.0	217.3	217.4
2009	222.7	223.7	224.2	221.2	220.9	223.9	225.2	225.5	228.4	223.2	224.0	220.6
2010	222.9	221.2	220.2	220.5	221.6	221.5	221.8	222.1	221.9	223.0	223.0	223.8
2011	225.5	224.9	224.5	225.7	227.7	228.8	225.9	224.2	226.0	223.7	221.7	223.5
2012	218.9	220.0	222.1	222.3	224.3	225.2	225.4	224.4	222.9	225.1	226.2	225.7
2013	225.4	225.4	226.3	226.4	227.2	226.6	228.8	227.8	229.1	229.0	232.0	231.7
2014	230.8	231.2	232.7	232.2	231.7	232.2	231.6	233.6	236.1	237.2	237.5	238.5
2015	229.7	230.9	234.4	230.9	231.7	227.9	233.5	230.0	232.9	232.8	232.4	233.1
2016	231.9	232.2	232.5	231.2	231.4	233.2	233.5	232.7	232.5			
2017		224.3	223.9	223.4	223.5	227.7	225.6	225.8	225.8	224.5	217.5	211.6
2018	210.1	215.1	221.0	221.0	219.4	219.7	219.8	221.4	221.0	224.4	225.9	228.8
2019	229.4	231.0	231.1	231.6								
2020												
2021												



## **General/Non-EPC Cost Index**

#### Non-EPC Cost Index

Source:	Bureau of Economic Analysis: Gross Domestic Product Implic
Seasonal:	Seasonally Adjusted
Timing:	Quarterly
Table:	1.1.9
Table Location:	Line 1
Access:	https://www.bea.gov/iTable/iTable.cfm?reqid=19&step=2#

		Quart	er	
Year	Ι	Π	III	IV
2005	86.391	86.996	87.783	88.489
2006	89.107	89.852	90.481	90.815
2007	91.708	92.301	92.776	93.145
2008	93.489	93.99	94.69	94.986
2009	94.976	94.838	94.938	95.259
2010	95.499	95.943	96.222	96.763
2011	97.283	97.922	98.553	98.703
2012	99.32	99.713	100.225	100.737
2013	101.139	101.431	101.918	102.517
2014	102.937	103.512	103.957	104.123
2015	104.09	104.675	105.048	105.049
2016	104.941	105.657	106.043	106.551
2017	107.058	107.411	107.973	108.713
2018	109.355	110.281	110.767	111.256
2019	111.473	112.188		
2020				
2021				



## **2020-2021 Composite Escalation Factor**

		Construction	Materials	Gas and Steam			
		Labor Cost	Cost	<b>Turbine</b> Cost	GDP Deflator		
Year 1	[A]	101,108	244	219	110.3		
Year 2	[B]	105,039	252	231	112.2		
Growth Rate	[B]/[A]-1	3.89%	3.24%	5.57%	1.73%		
Weights (By Technology)	)	28%	37%	20%	15%		
Escalation Factor:		28%*3.89% + 37%*3.24% + 20%*5.57% + 15%*1.73% =					
				3.67%			

Note: Values in the table for each index are rounded, while the calculation uses unrounded values



### 2020-2021 Gross CONE Values

	2019-2020 Gross CONE (\$/kW-year)	2020-2021 Escalation Factor	2020-2021 Gross CONE (\$/kW-year)
NYCA	\$130.63		\$135.43
G-J	\$180.08	x3.67%	\$186.69
NYC	\$215.44		\$223.35
LI	\$200.86		\$208.24



# Net Energy and Ancillary Services Revenue Offset



## **Net EAS Revenue Offset Update Process**

- Collect data from September 1, 2018 August 31, 2019
  - NYISO DAM and RTM LBMPs
  - NYISO DAM and RTM Time-Weighted Ancillary Services prices
  - NYISO Rate Schedule 1 charges
  - Fuel costs
  - Emissions costs

### Run Net EAS model with new data

- Model runs for three-year historic period (Sep 1, 2016 Aug 31, 2019)
- Detailed results available in the Appendix of this presentation



## 2020–2021 Raw Net EAS Revenue Values

- Decrease in Net EAS revenue in all localities can primarily be attributed to higher gas prices that were not entirely off-set by higher LBMPs
  - Values include \$1.43/kW-year adder for voltage support service

	2020-2021 Raw Net EAS Revenues (\$/kW-year)	2019-2020 Raw Net EAS Revenues (\$/kW-year)
NYCA	\$29.27	\$31.48
G-J	\$28.71	\$31.81
NYC	\$30.39	\$35.31
LI	\$56.23	\$65.20



## **Net EAS Escalation**

- Net EAS revenues are escalated using the unweighted annual change in the general component (GDP Deflator) from the Gross CONE composite escalation factor
  - For the 2020-2021 revenues, the value is 1.73%
  - Applied twice to move from 2018 to 2020

	2020-2021 Raw Net EAS Revenues (\$/kW-year)	2020-2021 GDP Deflator	2020-2021 Escalated Net EAS Revenues (\$/kW-year)	2019-2020 Escalated Net EAS Revenues (\$/kW-year)
NYCA	\$29.27		\$30.29	\$33.07
G-J	\$28.71	1.73%	\$29.71	\$33.42
NYC	\$30.39	(applied twice)	\$31.45	\$37.10
LI	\$56.23		\$58.19	\$68.50



# 2020-2021 ICAP Demand Curve Reference Points



### 2020–2021 ICAP Demand Curve Reference Points

<ul> <li>NYCA increase</li> <li>Lower net EAS revenues due to lower spark spread</li> <li>G-J increase</li> <li>Lower net EAS revenues due to lower spark spread</li> <li>NYC increase</li> </ul>		2020- 2021 Raw ICAP Ref. Point (\$/kW- month)	2020- 2021 Final ICAP Ref. Point (\$/kW- month)	2019- 2020 Final ICAP Ref. Point (\$/kW- month)
spark spread	NYCA	\$10.65	\$10.65	\$9.83
LI increase	G-J	\$17.67	\$17.67	\$16.59
<ul> <li>Lower net EAS revenues due to lower spark spread, collar was binding</li> </ul>	NYC	\$23.31	\$23.31	\$21.95
-	LI	\$21.13	\$17.88	\$15.96

		C	urrent Year (2020-2021)		
			C - Hudson Valley		
	Source	F - Capital	(Dutchess)	J - New York City	K - Long Island
Gross Cost of New Entry (\$/kW-Year)	[1]	\$135.43	\$186.69	\$223.35	\$208.24
Net EAS Revenue (\$/kW-Year)	[2]	\$30.29	\$29.71	\$31.45	\$58.19
Annual ICAP Reference Value (\$/kW-Year)	[3] = [1] - [2]	\$105.14	\$156.98	\$191.90	\$150.05
ICAP DMNC (MW)	[4]	217.0	218.0	217.6	219.1
Total Annual Reference Value	[5] = [3] * [4]	\$22,813,551	\$34,215,662	\$41,751,592	\$32,878,815
Level of Excess (%)	[6]	100.6%	101.5%	102.3%	103.9%
Ratio of Summer to Winter DMNCs	[7]	1.040	1.058	1.078	1.076
Summer DMNC (MW)	[8]	224.6	226.8	226.9	224.9
Winter DMNC (MW)	[9]	230.3	230.3	228.7	230.3
Assumed Capacity Prices at Tariff Prescribed Level of Exces	ss Conditions				
Summer (\$/kW-Month)	[10]	\$10.16	\$15.92	\$20.34	\$16.55
Winter (\$/kW-Month)	[11]	\$6.61	\$9.09	\$10.24	\$7.63
Monthly Revenue (Summer)	[12] = [10]*[8]	\$2,280,738	\$3,610,070	\$4,615,844	\$3,723,122
Monthly Revenue (Winter)	[13] = [11]*[9]	\$1,521,539	\$2,092,536	\$2,342,749	\$1,756,676
Seasonal Revenue (Summer)	[14] = 6 * [12]	\$13,684,427	\$21,660,422	\$27,695,063	\$22,338,729
Seasonal Revenue (Winter)	[15] = 6 * [13]	\$9,129,233	\$12,555,217	\$14,056,494	\$10,540,054
Total Annual Reference Value	[16] = [14]+[15]	\$22,813,660	\$34,215,639	\$41,751,557	\$32,878,784
Raw ICAP Demand Curve Parameters					
ICAP Monthly Reference Point Price (\$/kW-Month)		\$10.65	\$17.67	\$23.31	\$21.13
ICAP Max Clearing Price (\$/kW-Month)		\$16.93	\$23.34	\$27.92	\$26.03
Demand Curve Length		112%	115%	118%	118%
Final ICAP Demand Curve Parameters					
ICAP Monthly Reference Point Price (\$/kW-Month)		\$10.65	\$17.67	\$23.31	\$17.88
ICAP Max Clearing Price (\$/kW-Month)		\$16.93	\$23.34	\$27.92	\$26.03
Demand Curve Length		112%	115%	118%	118%

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# **Next Steps**



## **Next Steps**

- Updated ICAP reference point values become effective for the 2020-2021 Capability Year (beginning May 1, 2020)
- Data and results posted on the NYISO website
  - Available on the Installed Capacity Market (ICAP)" section of the NYISO public website at:
    - <u>https://www.nyiso.com/installed-capacity-market</u>
    - "Reference Documents" > "Demand Curve Reset Annual Updates" > "2020"



# Feedback/Questions?

Email: <u>nwhitney@nyiso.com</u>



# Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system





# AppendixDetailed Net EAS Revenue Results



### **Net EAS Revenue Update Summary**

	Load Zone	Annual Average Net EAS Revenues (\$/kW-year)	Annual Average Run Hours
F	Capital	\$29.27	739
G	Hudson Valley (Dutchess)	\$28.71	805
J	New York City	\$30.39	1,922
K	Long Island	\$56.23	3,324

	1 17	Annual Average Unit	Annual Average Hours
	Load Zone	Starts	perstart
F	Capital	111	6.7
G	Hudson Valley (Dutchess)	116	7.0
J	New York City	164	11.7
K	Long Island	219	15.2



### Fuel Type by Year

	September 2016 - August 2017												
		Ru	n-Time Ho	urs	Net Energy Revenues (\$/kW-year)								
	Load Zone	Gas	Oil	Total	Gas	Oil	Total						
F	Capital	720	0	720	\$14.18	\$0.00	\$14.18						
G	Hudson Valley (Dutchess)	663	0	663	\$11.85	\$0.00	\$11.85						
J	New York City	2,256	0	2,256	\$23.08	\$0.00	\$23.08						
Κ	Long Island	3,362	0	3,362	\$45.05	\$0.00	\$45.05						

	September 2017 - August 2018												
		Rur	n-Time Ho	ours	Net Energy Revenues (\$/kW-year)								
	Load Zone	Gas	Oil	Total	Gas	Oil	Total						
F	Capital	994	0	994	\$25.03	\$0.00	\$25.03						
G	Hudson Valley (Dutchess)	1,130	85	1,215	\$22.26	\$4.28	\$26.55						
J	New York City	1,890	93	1,983	\$29.76	\$4.36	\$34.12						
Κ	Long Island	3,155	97	3,252	\$52.20	\$4.59	\$56.80						

	September 2018 - August 2019												
		Rur	n-Time Ho	ours	Net Energy Revenues (\$/kW-year)								
	Load Zone	Gas	Oil	Total	Gas	Oil	Total						
F	Capital	503	0	503	\$13.00	\$0.00	\$13.00						
G	Hudson Valley (Dutchess)	536	0	536	\$12.77	\$0.00	\$12.77						
J	New York City	1,527	0	1,527	\$17.35	\$0.00	\$17.35						
Κ	Long Island	3,359	0	3,359	\$45.57	\$0.00	\$45.57						



### **Run Hours by Year**

Run Hours September 2016 - August 2017														
Day-	Ahead Commitment		Ene	rgy		Reserve				None				Total
Real	-Time Dispatch	Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	349	30	169	0	274	16	5,721	0	97	0	2,104	0	8,760
G	Hudson Valley (Dutchess)	361	23	151	0	273	5	5,772	0	29	0	2,146	0	8,760
J	NYC	2,020	0	338	0	84	1	1,146	0	152	0	5,019	0	8,760
K	Long Island	3,165	0	554	196	41	1	183	10	156	0	4,430	24	8,760

Run Hours September 2017 - August 2018														
Day-	Ahead Commitment		Ene	rgy		Reserve				None				Total
Real	-Time Dispatch	Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	598	9	237	0	342	6	4,733	0	54	0	2,781	0	8,760
G	Hudson Valley (Dutchess)	829	9	200	0	353	8	4,829	0	33	0	2,499	0	8,760
J	NYC	1,727	0	169	0	35	0	237	0	221	0	6,371	0	8,760
Κ	Long Island	3,049	0	514	0	20	0	98	0	183	1	4,895	0	8,760

Run Hours September 2018 - August 2019														
Day-Ahead Commitment Energy					Reserve				None				Total	
Real	-Time Dispatch	Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	209	0	190	0	258	16	5,660	0	36	0	2,391	0	8,760
G	Hudson Valley (Dutchess)	250	12	157	0	253	10	5,663	0	33	0	2,382	0	8,760
J	NYC	1,356	0	324	0	25	0	346	0	146	1	6,562	0	8,760
K	Long Island	3,180	0	352	170	0	0	1	0	179	0	4,864	14	8,760



### **Updated Net EAS Results by Year**

Net EAS Revenues September 2016 - August 2017														
Day-	Ahead Commitment		Ene	rgy		Reserve				None				Total
Real	-Time Dispatch	Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	\$3.97	\$0.55	\$2.16	\$0.00	\$6.93	\$0.09	\$9.25	\$0.00	\$3.28	\$0.00	\$0.00	\$0.00	\$26.23
G	Hudson Valley (Dutchess)	\$3.95	\$0.26	\$1.72	\$0.00	\$6.94	\$0.02	\$9.33	\$0.00	\$0.95	\$0.00	\$0.00	\$0.00	\$23.18
J	NYC	\$18.54	\$0.00	\$2.85	\$0.00	\$1.12	\$0.00	\$1.87	\$0.00	\$3.41	\$0.00	\$0.00	\$0.00	\$27.80
K	Long Island	\$40.32	\$0.00	\$5.79	\$0.05	\$0.43	\$0.00	\$0.39	\$0.02	\$4.30	\$0.00	\$0.00	\$0.00	\$51.30

Net EAS Revenues September 2017 - August 2018														
Day-	Ahead Commitment	Energy					Rese	erve			Total			
Real-Time Dispatch		Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	\$14.86	\$0.06	\$2.99	\$0.00	\$8.49	\$0.01	\$6.01	\$0.00	\$1.68	\$0.00	\$0.00	\$0.00	\$34.10
G	Hudson Valley (Dutchess)	\$16.31	\$0.16	\$2.85	\$0.00	\$9.38	\$0.02	\$6.90	\$0.00	\$0.86	\$0.00	\$0.00	\$0.00	\$36.48
J	NYC	\$27.02	\$0.00	\$2.20	\$0.00	\$1.20	\$0.00	\$0.76	\$0.00	\$5.90	\$0.00	\$0.00	\$0.00	\$37.07
Κ	Long Island	\$49.70	\$0.00	\$6.49	\$0.00	\$1.14	\$0.00	\$0.67	\$0.00	\$5.95	\$0.01	\$0.00	\$0.00	\$63.96

				Net E	AS Reven	ues Septer	nber 2018	- August	2019					
Day-Ahead Commitment		Energy					Res	erve			Total			
Real-Time Dispatch		Energy	Reserve	Buyout	Limited	Energy	Reserve	Buyout	Limited	Energy	Reserve	None	Limited	
F	Capital	\$4.02	\$0.00	\$3.10	\$0.00	\$8.21	\$0.04	\$7.03	\$0.00	\$0.78	\$0.00	\$0.00	\$0.00	\$23.18
G	Hudson Valley (Dutchess)	\$4.32	\$0.10	\$2.02	\$0.00	\$7.63	\$0.03	\$7.27	\$0.00	\$0.83	\$0.00	\$0.00	\$0.00	\$22.19
J	NYC	\$13.81	\$0.00	\$4.49	\$0.00	\$0.22	\$0.00	\$0.16	\$0.00	\$3.32	\$0.00	\$0.00	\$0.00	\$22.00
Κ	Long Island	\$42.01	\$0.00	\$3.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.57	\$0.00	\$0.00	\$0.00	\$49.13
System										SYSTEM				