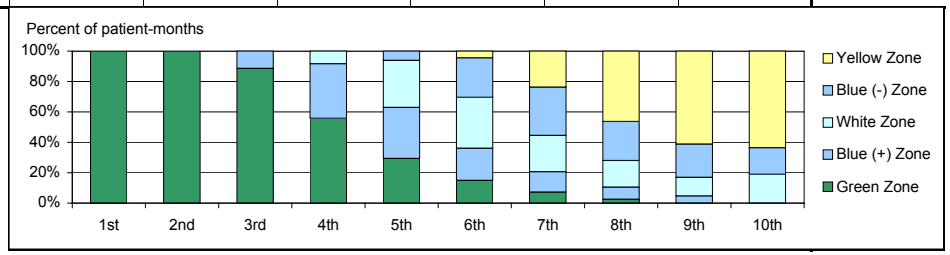
Preliminary Impact Assessment: Bundle 1C / Case Mix Model 9
MMA §623e: ESRD Bundled Payment Demonstration

Correspondence of predicted to actual values (deciles)

		Predicted value (categorized according to actual value deciles)										
Actual	Range	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Total
Patient months												
1st	$0 - 31	0	0	122	42,276	**76,218**	47,538	18,121	6,549	2,536	1,042	194,402
2nd	$31 - 45	0	0	79	30,110	**81,795**	52,161	20,235	6,828	2,330	863	194,401
3rd	$45 - 57	0	0	47	21,969	**77,264**	57,412	24,818	8,909	3,019	963	194,401
4th	$57 - 69	0	0	37	16,116	**69,706**	**62,187**	29,564	11,556	4,005	1,230	194,401
5th	$69 - 82	0	0	14	11,801	**60,224**	**65,274**	35,127	15,132	5,254	1,575	194,401
6th	$82 - 98	0	0	18	8,543	50,631	**65,086**	41,065	19,524	7,340	2,196	194,403
7th	$98 - 117	0	0	10	6,028	39,946	**61,917**	46,387	26,057	10,833	3,222	194,400
8th	$117 - 143	0	0	7	3,980	30,482	55,545	50,055	33,775	15,697	4,860	194,401
9th	$143 - 191	0	0	7	2,393	20,320	44,959	51,113	42,602	23,883	9,126	194,403
10th	>$191	0	0	3	1,324	10,750	29,160	39,581	42,770	34,004	36,807	194,399
Total		0	0	344	144,540	517,336	541,239	356,066	213,702	108,901	61,884	1,944,012
Tolerance:	30%	Percent of row										
1st	$0 - 31	0%	0%	0%	22%	**39%**	24%	9%	3%	1%	1%	10%
2nd	$31 - 45	0%	0%	0%	15%	**42%**	27%	10%	4%	1%	0%	10%
3rd	$45 - 57	0%	0%	0%	11%	**40%**	30%	13%	5%	2%	0%	10%
4th	$57 - 69	0%	0%	0%	8%	**36%**	**32%**	15%	6%	2%	1%	10%
5th	$69 - 82	0%	0%	0%	6%	**31%**	**34%**	18%	8%	3%	1%	10%
6th	$82 - 98	0%	0%	0%	4%	26%	**33%**	21%	10%	4%	1%	10%
7th	$98 - 117	0%	0%	0%	3%	21%	**32%**	24%	13%	6%	2%	10%
8th	$117 - 143	0%	0%	0%	2%	16%	29%	26%	17%	8%	2%	10%
9th	$143 - 191	0%	0%	0%	1%	10%	23%	26%	22%	12%	5%	10%
10th	>$191	0%	0%	0%	1%	6%	15%	20%	22%	17%	19%	10%
Total		0%	0%	0%	7%	27%	28%	18%	11%	6%	3%	100%

Summary	**Months**	**Percent**	
Same decile	282,325	15%	White zone
1 decile higher or lower	500,020	26%	Blue zone
2+ deciles higher	774,714	40%	Green zone
2+ deciles lower	386,953	20%	Yellow zone
Total	1,944,012	100%	



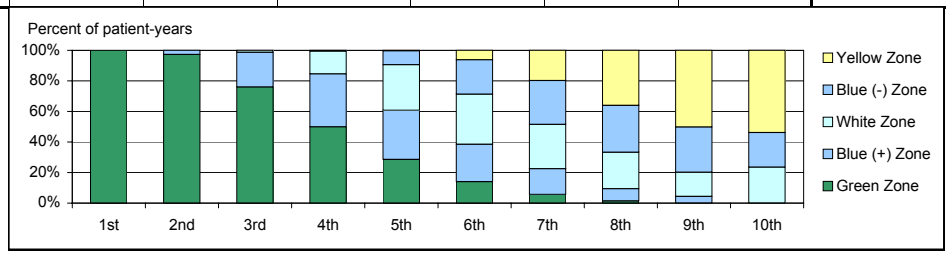
Data Source: URREA/KECC (6/29/05)
Reformatting and additional analysis: CMS/ORDI/MDPG

Preliminary Impact Assessment: Bundle 1C / Case Mix Model 9
MMA §623e: ESRD Bundled Payment Demonstration

Correspondence of predicted to actual values (deciles)

		Predicted value (categorized according to actual value deciles)										
Actual	Range	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Total
Patient years (patients)												
1st	$0 - 43	0	2	1,400	**8,688**	**6,522**	3,050	1,005	365	141	31	21,204
2nd	$43 - 56	0	3	565	**6,882**	**7,873**	3,939	1,315	463	142	21	21,203
3rd	$56 - 67	0	0	264	4,831	**7,906**	5,234	2,107	651	182	29	21,204
4th	$67 - 78	0	0	118	3,138	**7,367**	6,280	3,036	981	241	42	21,203
5th	$78 - 89	0	0	68	1,940	6,313	**6,815**	4,064	1,522	419	62	21,203
6th	$89 - 102	0	0	46	1,261	4,772	**6,954**	5,201	2,233	634	103	21,204
7th	$102 - 119	0	0	33	713	3,450	6,080	6,163	3,564	1,031	169	21,203
8th	$119 - 142	0	0	15	430	2,126	5,074	**6,501**	5,050	1,708	300	21,204
9th	$142 - 183	0	0	13	287	1,236	3,302	5,796	6,274	3,359	936	21,203
10th	>$183	0	0	10	151	787	1,894	3,432	5,128	4,805	4,996	21,203
Total		0	5	2,532	28,321	48,352	48,622	38,620	26,231	12,662	6,689	212,034
Tolerance:	30%	Percent of row										
1st	$0 - 43	0%	0%	7%	**41%**	**31%**	14%	5%	2%	1%	0%	10%
2nd	$43 - 56	0%	0%	3%	**32%**	**37%**	19%	6%	2%	1%	0%	10%
3rd	$56 - 67	0%	0%	1%	23%	**37%**	25%	10%	3%	1%	0%	10%
4th	$67 - 78	0%	0%	1%	15%	**35%**	30%	14%	5%	1%	0%	10%
5th	$78 - 89	0%	0%	0%	9%	30%	**32%**	19%	7%	2%	0%	10%
6th	$89 - 102	0%	0%	0%	6%	23%	**33%**	25%	11%	3%	0%	10%
7th	$102 - 119	0%	0%	0%	3%	16%	29%	29%	17%	5%	1%	10%
8th	$119 - 142	0%	0%	0%	2%	10%	24%	**31%**	24%	8%	1%	10%
9th	$142 - 183	0%	0%	0%	1%	6%	16%	27%	30%	16%	4%	10%
10th	>$183	0%	0%	0%	1%	4%	9%	16%	24%	23%	24%	10%
Total		0%	0%	1%	13%	23%	23%	18%	12%	6%	3%	100%

Summary	**Patients**	**Percent**	
Same decile	36,240	17%	White zone
1 decile higher or lower	61,479	29%	Blue zone
2+ deciles higher	79,063	37%	Green zone
2+ deciles lower	35,252	17%	Yellow zone
Total	212,034	100%	

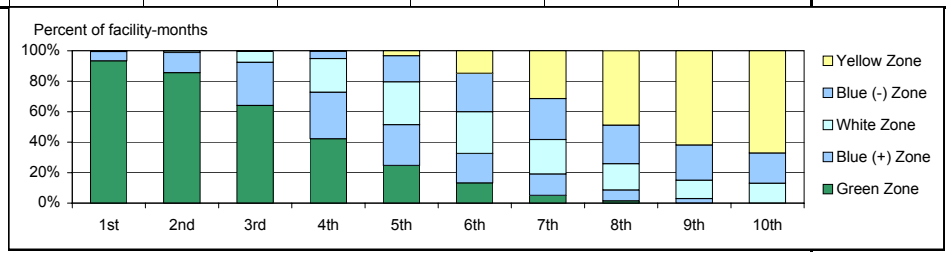


Data Source: URREA/KECC (6/29/05)
Reformatting and additional analysis: CMS/ORDI/MDPG

Correspondence of predicted to actual values (deciles)

		Predicted value (categorized according to actual value deciles)										
Actual	Range	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Total
Facility months												
1st	$0 - 65	25	298	1,158	**1,638**	905	410	218	111	73	48	4,884
2nd	$65 - 75	4	54	646	**1,744**	1,313	710	255	111	35	12	4,884
3rd	$75 - 82	0	23	348	1,383	**1,488**	1,012	435	140	43	11	4,883
4th	$82 - 88	1	8	240	1,081	**1,490**	1,148	619	218	66	13	4,884
5th	$88 - 94	0	9	150	834	1,378	1,306	761	324	101	20	4,883
6th	$94 - 100	1	8	110	602	1,232	1,339	947	462	149	34	4,884
7th	$100 - 107	1	7	89	466	970	1,315	1,103	687	195	51	4,884
8th	$107 - 116	0	7	81	350	730	1,218	1,233	845	346	73	4,883
9th	$116 - 130	1	9	56	249	530	940	1,235	1,128	594	142	4,884
10th	>$130	3	26	80	219	372	596	954	1,027	972	634	4,883
Total		36	449	2,958	8,566	10,408	9,994	7,760	5,053	2,574	1,038	48,836
Tolerance:	30%	Percent of row										
1st	$0 - 65	1%	6%	24%	**34%**	19%	8%	4%	2%	1%	1%	10%
2nd	$65 - 75	0%	1%	13%	**36%**	27%	15%	5%	2%	1%	0%	10%
3rd	$75 - 82	0%	0%	7%	28%	**30%**	21%	9%	3%	1%	0%	10%
4th	$82 - 88	0%	0%	5%	22%	**31%**	24%	13%	4%	1%	0%	10%
5th	$88 - 94	0%	0%	3%	17%	28%	27%	16%	7%	2%	0%	10%
6th	$94 - 100	0%	0%	2%	12%	25%	27%	19%	9%	3%	1%	10%
7th	$100 - 107	0%	0%	2%	10%	20%	27%	23%	14%	4%	1%	10%
8th	$107 - 116	0%	0%	2%	7%	15%	25%	25%	17%	7%	1%	10%
9th	$116 - 130	0%	0%	1%	5%	11%	19%	25%	23%	12%	3%	10%
10th	>$130	0%	1%	2%	4%	8%	12%	20%	21%	20%	13%	10%
Total		0%	1%	6%	18%	21%	20%	16%	10%	5%	2%	100%

Summary	**Months**	**Percent**	
Same decile	7,401	15%	White zone
1 decile higher or lower	14,226	29%	Blue zone
2+ deciles higher	16,104	33%	Green zone
2+ deciles lower	11,105	23%	Yellow zone
Total	48,836	100%	

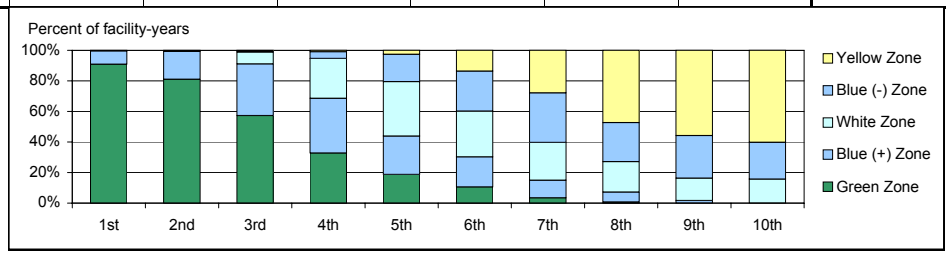


Data Source: URREA/KECC (6/29/05)
Reformatting and additional analysis: CMS/ORDI/MDPG

Correspondence of predicted to actual values (deciles)

		Predicted value (categorized according to actual value deciles)										
Actual	Range	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Total
Facility years (facilities)												
1st	$2 - 69	2	37	**134**	127	67	26	17	6	7	5	428
2nd	$69 - 77	0	3	78	**184**	98	41	13	5	2	3	427
3rd	$77 - 83	2	3	33	**145**	126	87	28	4	0	0	428
4th	$83 - 89	1	3	19	111	**153**	89	36	13	1	1	427
5th	$89 - 94	0	0	11	77	**152**	108	57	13	7	3	428
6th	$94 - 100	1	0	3	54	112	128	84	36	6	3	427
7th	$100 - 106	0	2	4	30	83	**139**	106	49	12	3	428
8th	$107 - 114	0	0	7	25	56	114	109	85	28	3	427
9th	$114 - 127	0	2	7	15	28	70	117	119	63	7	428
10th	>$127	0	2	9	16	19	45	74	92	103	67	427
Total		6	52	305	784	894	847	641	422	229	95	4,275
Tolerance:	30%	Percent of row										
1st	$2 - 69	0%	9%	**31%**	30%	16%	6%	4%	1%	2%	1%	10%
2nd	$69 - 77	0%	1%	18%	**43%**	23%	10%	3%	1%	0%	1%	10%
3rd	$77 - 83	0%	1%	8%	**34%**	29%	20%	7%	1%	0%	0%	10%
4th	$83 - 89	0%	1%	4%	26%	**36%**	21%	8%	3%	0%	0%	10%
5th	$89 - 94	0%	0%	3%	18%	**36%**	25%	13%	3%	2%	1%	10%
6th	$94 - 100	0%	0%	1%	13%	26%	30%	20%	8%	1%	1%	10%
7th	$100 - 106	0%	0%	1%	7%	19%	**32%**	25%	11%	3%	1%	10%
8th	$107 - 114	0%	0%	2%	6%	13%	27%	26%	20%	7%	1%	10%
9th	$114 - 127	0%	0%	2%	4%	7%	16%	27%	28%	15%	2%	10%
10th	>$127	0%	0%	2%	4%	4%	11%	17%	22%	24%	16%	10%
Total		0%	1%	7%	18%	21%	20%	15%	10%	5%	2%	100%

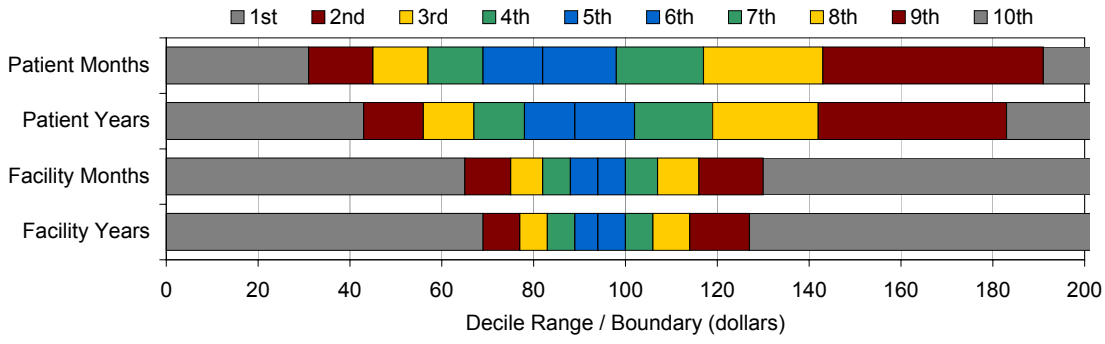
Summary	**Facilities**	**Percent**	
Same decile	750	18%	White zone
1 decile higher or lower	1,370	32%	Blue zone
2+ deciles higher	1,263	30%	Green zone
2+ deciles lower	892	21%	Yellow zone
Total	4,275	100%	



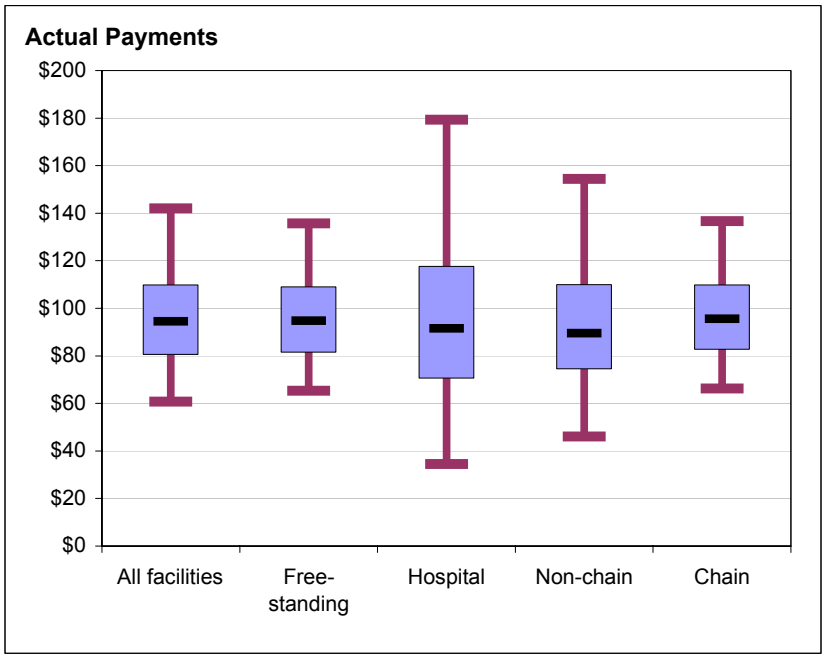
Data Source: URREA/KECC (6/29/05)
Reformatting and additional analysis: CMS/ORDI/MDPG

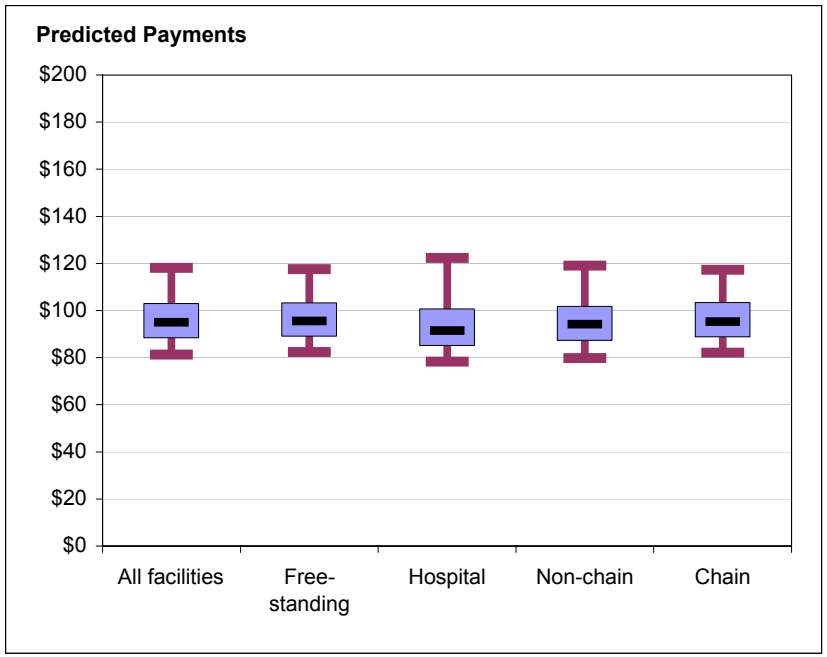
Summary statistics for deciles

Decile (Actual)	Patient Months	Patient Years	Facility Months	Facility Years	Patient Months	Patient Years	Facility Months	Facility Years
	Value of decile upper boundary				**Incremental value**			
1st	31	43	65	69	31	43	65	69
2nd	45	56	75	77	14	13	10	8
3rd	57	67	82	83	12	11	7	6
4th	69	78	88	89	12	11	6	6
5th	82	89	94	94	13	11	6	5
6th	98	102	100	100	16	13	6	6
7th	117	119	107	106	19	17	7	6
8th	143	142	116	114	26	23	9	8
9th	191	183	130	127	48	41	14	13
10th	7007	5478	5478	461	6816	5295	5348	334
	Distribution of predicted observations				**Percent distribution**			
1st	0	0	36	6	0%	0%	0%	0%
2nd	0	5	449	52	0%	0%	1%	1%
3rd	344	2,532	2,958	305	0%	1%	6%	7%
4th	144,540	28,321	8,566	784	7%	13%	18%	18%
5th	517,336	48,352	10,408	894	27%	23%	21%	21%
6th	541,239	48,622	9,994	847	28%	23%	20%	20%
7th	356,066	38,620	7,760	641	18%	18%	16%	15%
8th	213,702	26,231	5,053	422	11%	12%	10%	10%
9th	108,901	12,662	2,574	229	6%	6%	5%	5%
10th	61,884	6,689	1,038	95	3%	3%	2%	2%
	Mean actual payment per session				**Mean predicted payment per session**			
1st	19.91	30.85	52.06	55.97	0.00	0.00	59.65	65.32
2nd	38.05	49.57	70.23	73.25	0.00	55.10	71.75	75.24
3rd	50.68	61.36	78.26	80.45	55.36	64.77	79.17	81.06
4th	62.70	72.22	84.83	86.13	65.75	73.22	85.14	86.31
5th	75.40	83.34	90.88	91.65	75.78	83.58	90.88	91.70
6th	89.73	95.63	96.92	97.28	89.39	95.49	96.80	97.19
7th	106.87	110.32	103.46	103.16	105.98	109.88	103.25	103.10
8th	129.20	129.76	111.23	110.01	128.09	128.72	110.81	109.82
9th	164.32	160.10	122.15	119.56	160.97	156.99	121.30	119.00
10th	276.79	255.36	159.60	151.32	279.70	254.41	145.09	141.56

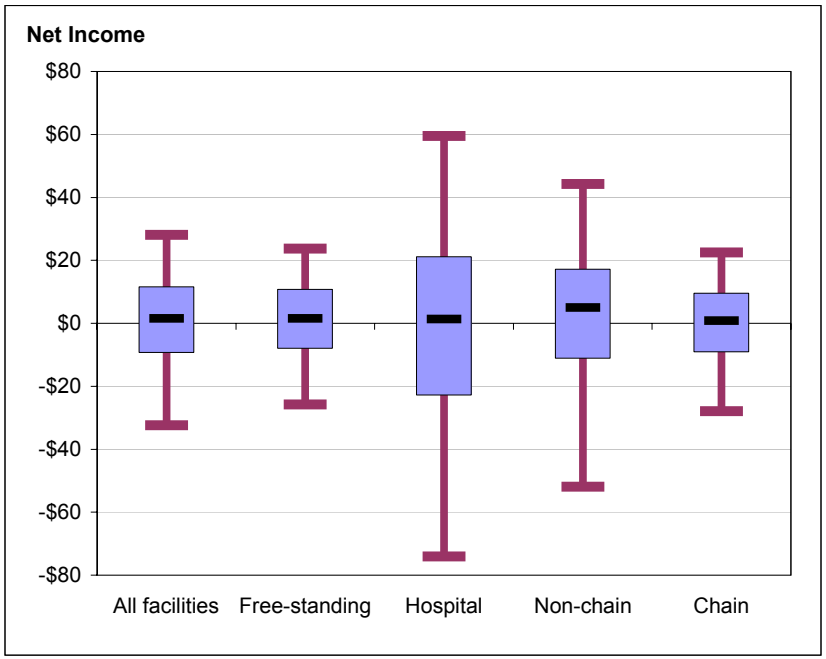


Variable	N	Mean	SD	Minimum	Percentile 5th	25th	50th	75th	95th	Maximum
Actual Payment										
All facilities	4,275	$96.87	$27.88	$2.12	$60.70	$80.51	$94.48	$109.87	$142.01	$460.71
Free-standing	3,642	$96.53	$22.56	$11.04	$65.29	$81.39	$94.72	$109.04	$135.68	$293.29
Hospital	633	$98.81	$48.20	$2.12	$34.40	$70.55	$91.58	$117.60	$179.21	$460.71
Non-chain	1,028	$95.00	$38.43	$2.12	$46.00	$74.47	$89.52	$109.99	$154.40	$460.71
Chain	3,188	$97.67	$23.31	$7.16	$66.27	$82.58	$95.60	$109.89	$136.67	$293.29
Predicted Payment										
All facilities	4,275	$96.87	$12.47	$61.15	$81.22	$88.33	$95.00	$103.03	$118.05	$233.97
Free-standing	3,642	$97.25	$11.91	$62.74	$82.37	$89.05	$95.51	$103.31	$117.57	$233.97
Hospital	633	$94.70	$15.12	$61.15	$78.32	$85.03	$91.48	$100.74	$122.32	$216.58
Non-chain	1,028	$96.23	$14.11	$61.15	$79.73	$87.22	$94.09	$101.80	$119.03	$216.58
Chain	3,188	$97.02	$11.78	$62.74	$82.04	$88.75	$95.30	$103.35	$117.28	$233.97





Variable	N	Mean	SD	Minimum	Percentile 5th	25th	50th	75th	95th	Maximum
Net-income										
All facilities	4,275	$0.00	$23.45	-$375.75	-$32.42	-$9.39	$1.51	$11.55	$28.01	$150.10
Free-standing	3,642	$0.71	$16.27	-$163.38	-$25.77	-$8.05	$1.53	$10.79	$23.66	$120.10
Hospital	633	-$4.11	$46.61	-$375.75	-$74.15	-$22.85	$1.31	$21.17	$59.50	$150.10
Non-chain	1,028	$1.23	$36.05	-$375.75	-$51.94	-$11.23	$5.01	$17.17	$44.17	$150.10
Chain	3,188	-$0.65	$17.25	-$190.09	-$27.91	-$9.10	$0.81	$9.60	$22.49	$96.82



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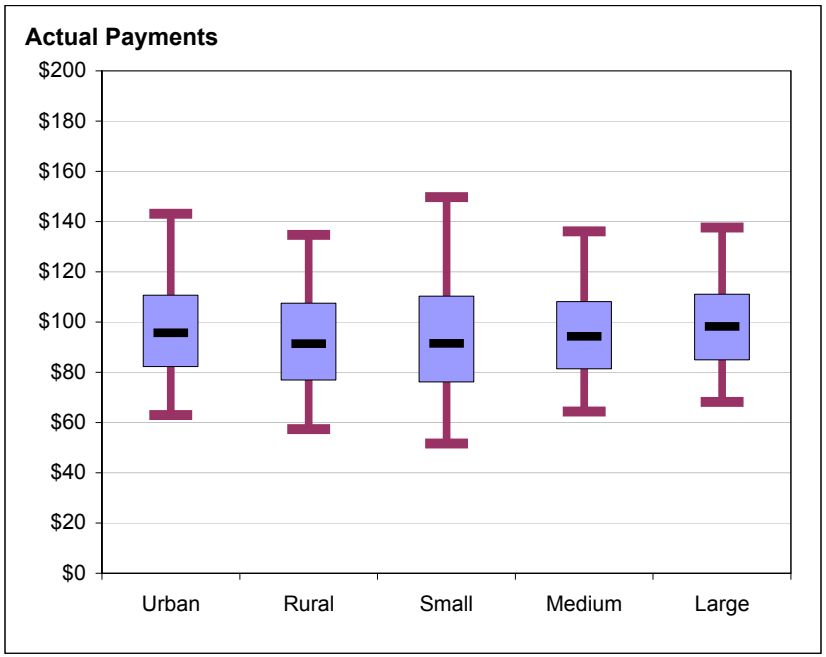
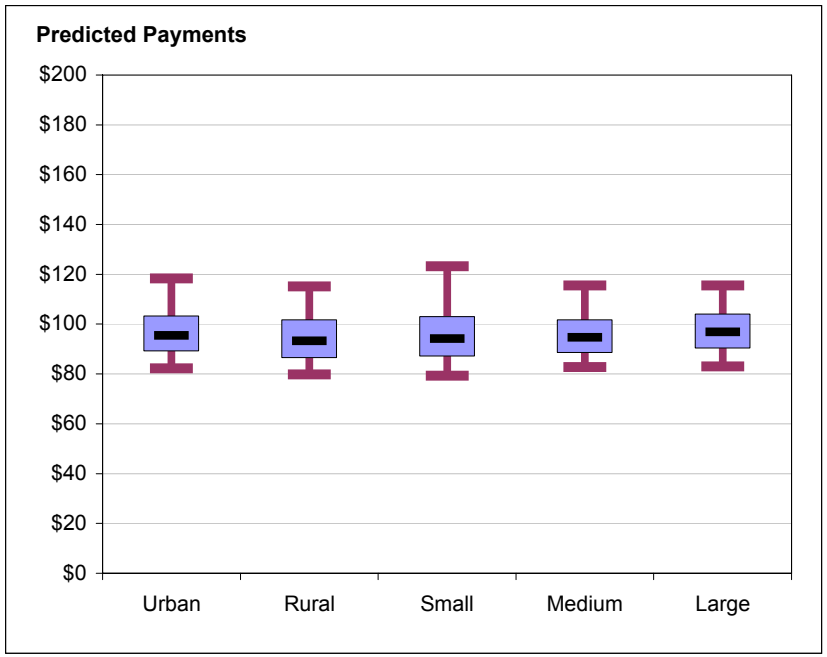
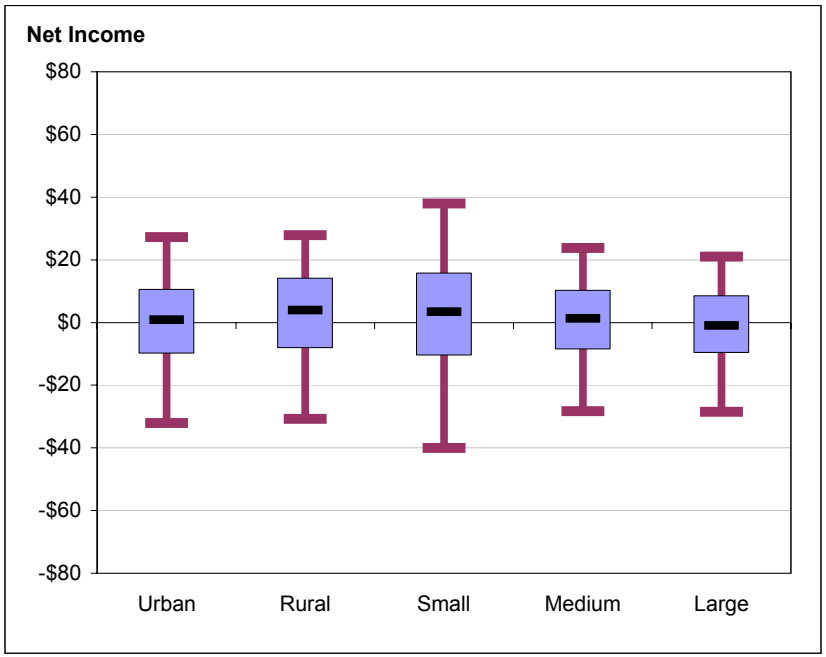
MMA §623e: ESRD Bundled Payment Demonstration

Variable	N	Mean	SD	Minimum	Percentile 5th	25th	50th	75th	95th	Maximum
Actual Payment										
Urban	3,129	$98.21	$28.16	$2.12	$62.88	$82.17	$95.67	$110.70	$143.08	$460.71
Rural	1,035	$93.31	$25.43	$20.06	$57.32	$76.80	$91.30	$107.50	$134.70	$276.10
Small	1,593	$95.16	$33.26	$2.12	$51.55	$76.01	$91.46	$110.36	$149.71	$391.44
Medium	1,632	$96.59	$24.55	$10.49	$64.27	$81.33	$94.29	$108.14	$136.04	$460.71
Large	1,050	$99.90	$23.22	$34.40	$68.14	$84.83	$98.25	$111.04	$137.56	$260.30
Predicted Payment										
Urban	3,129	$97.39	$12.29	$61.15	$82.26	$89.12	$95.48	$103.27	$118.36	$233.97
Rural	1,035	$94.82	$11.34	$66.21	$79.79	$86.47	$93.29	$101.69	$115.04	$160.95
Small	1,593	$96.82	$14.93	$61.15	$79.29	$87.09	$94.17	$103.04	$123.13	$216.58
Medium	1,632	$96.22	$10.91	$75.17	$82.69	$88.49	$94.66	$101.77	$115.45	$233.97
Large	1,050	$97.95	$10.42	$77.30	$82.97	$90.31	$96.86	$104.05	$115.52	$155.27





Data Source: URREA/KECC (6/29/05)
Reformatting and additional analysis: CMS/ORDI/MDPG

Variable	N	Mean	SD	Minimum	Percentile 5th	25th	50th	75th	95th	Maximum
Net-income										
Urban	3,129	-$0.81	$23.56	-$375.75	-$32.08	-$9.89	$0.84	$10.53	$27.25	$112.54
Rural	1,035	$1.51	$20.88	-$190.09	-$30.77	-$8.11	$3.91	$14.19	$27.87	$120.10
Small	1,593	$1.66	$29.08	-$293.06	-$40.07	-$10.51	$3.44	$15.75	$37.95	$150.10
Medium	1,632	-$0.37	$19.94	-$375.75	-$28.35	-$8.56	$1.23	$10.27	$23.72	$89.96
Large	1,050	-$1.95	$18.15	-$152.75	-$28.50	-$9.68	-$0.99	$8.51	$20.95	$108.23