

# Day Ahead Market Generator LBMP

Generator Data		--- Marginal Cost of Losses															--- Marginal Cost of Congestion										11/24/2023		
Name	PTID	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
59TH STREET_GT_1	24138	30.50	28.96	27.82	27.00	27.00	26.99	31.23	35.18	35.64	31.36	30.02	30.05	30.02	30.80	32.80	37.68	43.77	53.06	48.83	45.22	42.00	39.09	37.22	35.67				
		0.30	0.39	0.36	0.32	0.36	0.68	0.82	0.59	0.78	0.90	1.26	1.12	0.82	0.92	0.61	1.16	1.47	1.91	2.07	1.77	1.50	1.40	1.44	1.19				
		-22.77	-18.30	-16.68	-16.33	-15.12	-8.75	-10.90	-21.53	-18.90	-12.83	-3.11	-6.48	-13.43	-12.19	-21.04	-16.55	-16.88	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37				
74TH STREET_GT_1	24260	30.52	28.98	27.85	27.02	27.02	27.00	31.25	35.18	35.64	31.36	30.02	30.05	30.02	30.80	32.80	37.68	43.77	53.03	48.83	45.22	42.01	39.12	37.22	35.73				
		0.31	0.41	0.38	0.34	0.38	0.70	0.84	0.59	0.78	0.90	1.26	1.12	0.82	0.92	0.61	1.16	1.47	1.88	2.07	1.77	1.50	1.43	1.44	1.25				
		-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37				
74TH STREET_GT_2	24261	30.52	28.98	27.85	27.02	27.02	27.00	31.25	35.18	35.64	31.36	30.02	30.05	30.02	30.80	32.80	37.68	43.77	53.03	48.83	45.22	42.01	39.12	37.22	35.73				
		0.31	0.41	0.38	0.34	0.38	0.70	0.84	0.59	0.78	0.90	1.26	1.12	0.82	0.92	0.61	1.16	1.47	1.88	2.07	1.77	1.50	1.43	1.44	1.25				
		-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37				
ADK HUDSON__FALLS	24011	36.15	33.61	32.12	31.21	30.93	29.41	34.15	40.54	40.45	34.57	30.93	31.67	33.24	33.74	37.84	41.61	47.82	57.26	51.25	48.24	45.15	42.02	39.72	37.99				
		0.45	0.63	0.63	0.60	0.65	1.00	1.11	0.76	1.04	1.02	1.41	1.19	0.80	0.92	0.58	1.10	1.45	2.02	2.15	1.68	1.70	1.38	1.42	1.74				
		-28.26	-22.71	-20.71	-20.27	-18.76	-10.86	-13.53	-26.73	-23.46	-15.93	-3.86	-8.04	-16.67	-15.13	-26.11	-20.54	-20.95	-21.08	-12.07	-16.03	-15.19	-15.17	-13.01	-9.14				
ADK RESOURCE__RCVRY	23798	36.21	33.68	32.18	31.29	31.00	29.52	34.28	40.63	40.57	34.70	31.06	31.79	33.31	33.83	37.92	41.72	47.98	57.51	51.48	48.40	45.36	42.18	39.86	38.16				
		0.50	0.69	0.68	0.66	0.70	1.11	1.23	0.84	1.15	1.14	1.54	1.30	0.87	1.01	0.65	1.20	1.60	2.25	2.37	1.83	1.89	1.53	1.54	1.90				
		-28.27	-22.72	-20.72	-20.28	-18.77	-10.87	-13.53	-26.74	-23.47	-15.93	-3.86	-8.04	-16.68	-15.14	-26.13	-20.55	-20.97	-21.09	-12.08	-16.03	-15.20	-15.18	-13.02	-9.15				
ADK S GLENS__FALLS	24028	36.15	33.61	32.12	31.21	30.93	29.41	34.15	40.54	40.45	34.57	30.93	31.67	33.24	33.74	37.84	41.61	47.82	57.26	51.25	48.24	45.15	42.02	39.72	37.99				
		0.45	0.63	0.63	0.60	0.65	1.00	1.11	0.76	1.04	1.02	1.41	1.19	0.80	0.92	0.58	1.10	1.45	2.02	2.15	1.68	1.70	1.38	1.42	1.74				
		-28.26	-22.71	-20.71	-20.27	-18.76	-10.86	-13.53	-26.73	-23.46	-15.93	-3.86	-8.04	-16.67	-15.13	-26.11	-20.54	-20.95	-21.08	-12.07	-16.03	-15.19	-15.17	-13.01	-9.14				
ADK_NYS__DAM	23527	35.12	32.73	31.31	30.45	30.22	28.94	33.57	39.57	39.46	33.90	30.67	31.37	32.70	33.23	36.98	40.92	47.08	56.44	50.78	47.65	44.52	41.52	39.22	37.28				
		0.34	0.48	0.50	0.50	0.54	0.88	0.98	0.65	0.81	0.86	1.28	1.14	0.80	0.90	0.57	1.08	1.40	1.88	2.07	1.62	1.55	1.37	1.34	1.33				
		-27.34	-21.97	-20.03	-19.61	-18.15	-10.51	-13.09	-25.86	-22.69	-15.41	-3.73	-7.78	-16.13	-14.64	-25.26	-19.87	-20.27	-20.40	-11.68	-15.50	-14.70	-14.68	-12.58	-8.84				
AIR_PRODUCTS__DRP	24190	35.02	32.54	31.14	30.28	30.02	28.47	33.03	39.22	39.02	33.45	29.87	30.64	32.21	32.67	36.65	40.18	46.10	55.09	49.24	46.47	43.39	40.52	38.24	36.21				
		0.13	0.21	0.24	0.24	0.26	0.37	0.37	0.20	0.27	0.35	0.46	0.38	0.25	0.28	0.13	0.26	0.33	0.44	0.48	0.37	0.37	0.31	0.30	0.22				
		-27.46	-22.07	-20.12	-19.69	-18.23	-10.56	-13.14	-25.97	-22.79	-15.47	-3.75	-7.81	-16.20	-14.70	-25.37	-19.95	-20.36	-20.48	-11.73	-15.57	-14.76	-14.74	-12.64	-8.88				
AKWESSNE_115KV_BK	355683	7.81	10.18	10.68	10.23	11.34	16.29	18.46	13.24	16.05	17.32	24.81	21.61	15.38	17.04	11.08	19.07	24.40	32.74	35.47	29.05	27.39	24.57	24.69	26.52				
		-0.57	-0.84	-0.79	-0.79	-0.81	-1.61	-1.50	-0.71	-0.69	-0.83	-0.98	-1.10	-0.93	-1.15	-0.92	-1.58	-1.70	-2.12	-1.96	-2.02	-1.39	-1.40	-1.04	-0.89				
		-0.93	-0.75	-0.68	-0.67	-0.62	-0.36	-0.45	-0.88	-0.78	-0.53	-0.13	-0.27	-0.55	-0.50	-0.86	-0.68	-0.69	-0.70	-0.40	-0.53	-0.50	-0.50	-0.43	-0.30				
ALBANY__1	23571	35.02	32.54	31.14	30.28	30.02	28.47	33.03	39.22	39.02	33.45	29.87	30.64	32.21	32.67	36.65	40.18	46.10	55.09	49.24	46.47	43.39	40.52	38.24	36.21				
		0.13	0.21	0.24	0.24	0.26	0.37	0.37	0.20	0.27	0.35	0.46	0.38	0.25	0.28	0.13	0.26	0.33	0.44	0.48	0.37	0.37	0.31	0.30	0.22				
		-27.46	-22.07	-20.12	-19.69	-18.23	-10.56	-13.14	-25.97	-22.79	-15.47	-3.75	-7.81	-16.20	-14.70	-25.37	-19.95	-20.36	-20.48	-11.73	-15.57	-14.76	-14.74	-12.64	-8.88				
ALBANY__2	23572	35.02	32.54	31.14	30.28	30.02	28.47	33.03	39.22	39.02	33.45	29.87	30.64	32.21	32.67	36.65	40.18	46.10	55.09	49.24	46.47	43.39	40.52	38.24	36.21				
		0.13	0.21	0.24	0.24	0.26	0.37	0.37	0.20	0.27	0.35	0.46	0.38	0.25	0.28	0.13	0.26	0.33	0.44	0.48	0.37	0.37	0.31	0.30	0.22				
		-27.46	-22.07	-20.12	-19.69	-18.23	-10.56	-13.14	-25.97	-22.79	-15.47	-3.75	-7.81	-16.20	-14.70	-25.37	-19.95	-20.36	-20.48	-11.73	-15.57	-14.76	-14.74	-12.64	-8.88				
ALBANY__3	23573	35.02	32.54	31.14	30.28	30.02	28.47	33.03	39.22	39.02	33.45	29.87	30.64	32.21	32.67	36.65	40.18	46.10	55.09	49.24	46.47	43.39	40.52	38.24	36.21				
		0.13	0.21	0.24	0.24	0.26	0.37	0.37	0.20	0.27	0.35	0.46	0.38	0.25	0.28	0.13	0.26	0.33	0.44	0.48	0.37	0.37	0.31	0.30	0.22				
		-27.46	-22.07	-20.12	-19.69	-18.23	-10.56	-13.14	-25.97	-22.79	-15.47	-3.75	-7.81	-16.20	-14.70	-25.37	-19.95	-20.36	-20.48	-11.73	-15.57	-14.76	-14.74	-12.64	-8.88				



ALBANY___4 23574	35.02 0.13 -27.46	32.54 0.21 -22.07	31.14 0.24 -20.12	30.28 0.24 -19.69	30.02 0.26 -18.23	28.47 0.37 -10.56	33.03 0.37 -13.14	39.22 0.20 -25.97	39.02 0.27 -22.79	33.45 0.35 -15.47	29.87 0.46 -3.75	30.64 0.38 -7.81	32.21 0.25 -16.20	32.67 0.28 -14.70	36.65 0.13 -25.37	40.18 0.26 -19.95	46.10 0.33 -20.36	55.09 0.44 -20.48	49.24 0.48 -11.73	46.47 0.37 -15.57	43.39 0.37 -14.76	40.52 0.31 -14.74	38.24 0.30 -12.64	36.21 0.22 -8.88
ALBANY___LFGE 323615	35.30 0.19 -27.68	32.81 0.29 -22.25	31.38 0.31 -20.29	30.50 0.30 -19.86	30.24 0.33 -18.38	28.68 0.49 -10.64	33.27 0.51 -13.25	39.54 0.30 -26.18	39.35 0.41 -22.98	33.72 0.49 -15.60	30.13 0.69 -3.78	30.90 0.58 -7.87	32.47 0.38 -16.33	32.95 0.44 -14.82	36.97 0.24 -25.58	40.55 0.46 -20.12	46.55 0.61 -20.53	55.63 0.82 -20.65	49.71 0.85 -11.83	46.90 0.67 -15.70	43.83 0.68 -14.88	40.89 0.56 -14.87	38.57 0.53 -12.74	36.56 0.49 -8.96
ALCOA_PA_115KV_PL-6C 55860	7.95 -0.48 -0.99	10.34 -0.72 -0.79	10.84 -0.67 -0.72	10.38 -0.67 -0.71	11.50 -0.68 -0.66	16.51 -1.42 -0.38	18.70 -1.29 -0.47	13.43 -0.56 -0.93	16.26 -0.51 -0.82	17.55 -0.63 -0.56	25.10 -0.69 -0.13	21.85 -0.88 -0.28	15.57 -0.77 -0.58	17.26 -0.96 -0.53	11.24 -0.81 -0.91	19.33 -1.36 -0.72	24.70 -1.45 -0.73	32.98 -1.91 -0.74	35.75 -1.70 -0.42	29.29 -1.80 -0.56	27.73 -1.07 -0.53	24.85 -1.15 -0.53	24.97 -0.78 -0.45	26.83 -0.60 -0.32
ALCOA_RYNLDS___DRP 24188	7.95 -0.48 -0.99	10.34 -0.72 -0.79	10.84 -0.67 -0.72	10.38 -0.67 -0.71	11.50 -0.68 -0.66	16.51 -1.42 -0.38	18.70 -1.29 -0.47	13.43 -0.56 -0.93	16.26 -0.51 -0.82	17.55 -0.63 -0.56	25.10 -0.69 -0.13	21.85 -0.88 -0.28	15.57 -0.77 -0.58	17.26 -0.96 -0.53	11.24 -0.81 -0.91	19.33 -1.36 -0.72	24.70 -1.45 -0.73	32.98 -1.91 -0.74	35.75 -1.70 -0.42	29.29 -1.80 -0.56	27.73 -1.07 -0.53	24.85 -1.15 -0.53	24.97 -0.78 -0.45	26.83 -0.60 -0.32
ALCOA___DSASP 323711	7.95 -0.48 -0.99	10.34 -0.72 -0.79	10.85 -0.66 -0.72	10.38 -0.67 -0.71	11.59 -0.59 -0.66	16.51 -1.42 -0.38	18.70 -1.29 -0.47	13.43 -0.56 -0.93	16.26 -0.51 -0.82	17.55 -0.63 -0.56	25.10 -0.69 -0.13	21.85 -0.88 -0.28	15.57 -0.77 -0.58	17.26 -0.96 -0.53	11.24 -0.81 -0.91	19.33 -1.36 -0.72	24.64 -1.50 -0.73	32.99 -1.91 -0.74	35.75 -1.70 -0.42	29.29 -1.80 -0.56	27.73 -1.07 -0.53	24.83 -1.17 -0.53	25.00 -0.76 -0.45	26.86 -0.57 -0.32
ALLEGHENY___COGEN 23514	14.19 0.34 -6.41	15.91 0.48 -5.16	15.99 0.51 -4.70	15.41 0.47 -4.60	16.26 0.48 -4.26	20.82 0.81 -2.47	23.34 0.76 -3.07	19.55 0.43 -6.07	21.58 0.30 -5.33	21.42 0.18 -3.62	26.59 0.05 -0.88	24.29 0.02 -1.82	19.63 0.08 -3.78	21.26 0.14 -3.43	17.19 0.12 -5.93	24.85 0.22 -4.66	30.60 0.43 -4.76	39.73 0.79 -4.79	40.81 1.04 -2.74	35.12 0.95 -3.64	32.51 0.79 -3.45	29.55 0.64 -3.44	28.78 0.53 -2.95	29.95 0.76 -2.08
ALTAMONT_115KV_TB 2 55880	35.08 0.18 -27.46	32.60 0.26 -22.07	31.18 0.27 -20.13	30.31 0.27 -19.70	30.04 0.29 -18.24	28.55 0.44 -10.56	33.13 0.47 -13.15	39.33 0.30 -25.98	39.14 0.38 -22.80	33.54 0.44 -15.48	30.02 0.62 -3.75	30.80 0.54 -7.81	32.35 0.38 -16.20	32.82 0.42 -14.71	36.79 0.27 -25.38	40.45 0.52 -19.96	46.44 0.66 -20.37	55.54 0.89 -20.49	49.73 0.96 -11.73	46.90 0.79 -15.58	43.77 0.73 -14.76	40.88 0.66 -14.75	38.57 0.63 -12.64	36.59 0.60 -8.88
ALTONA_WT_PWR 323606	7.76 -0.60 -0.93	10.08 -0.93 -0.75	10.59 -0.87 -0.68	10.10 -0.91 -0.67	11.34 -0.79 -0.62	16.19 -1.72 -0.36	18.38 -1.58 -0.45	13.23 -0.71 -0.88	16.07 -0.65 -0.77	17.39 -0.76 -0.52	24.94 -0.85 -0.13	21.63 -1.08 -0.26	15.33 -0.98 -0.55	16.96 -1.22 -0.50	11.01 -0.99 -0.86	18.99 -1.66 -0.68	24.37 -1.73 -0.69	33.04 -1.81 -0.69	35.91 -1.52 -0.40	29.38 -1.68 -0.53	27.61 -1.16 -0.50	24.67 -1.30 -0.50	24.82 -0.91 -0.43	26.71 -0.71 -0.30
AMERICAN_REF_FUEL 24010	13.29 -0.09 -5.94	14.93 -0.11 -4.78	15.01 -0.13 -4.36	14.49 -0.12 -4.26	15.25 -0.22 -3.95	19.59 -0.25 -2.29	21.79 -0.57 -2.85	18.04 -0.64 -5.62	19.92 -0.97 -4.93	19.90 -1.08 -3.35	24.86 -1.62 -0.81	22.79 -1.35 -1.69	18.40 -0.87 -3.51	19.90 -0.97 -3.18	16.06 -0.58 -5.49	23.05 -1.24 -4.32	28.22 -1.60 -4.41	36.10 -2.49 -4.43	36.83 -2.74 -2.54	31.83 -2.08 -3.37	29.57 -1.89 -3.19	26.95 -1.71 -3.19	26.36 -1.67 -2.74	27.71 -1.33 -1.92
ARKWRIGHT___SUMMIT_WT_PWR 323751	13.92 0.13 -6.35	15.56 0.19 -5.11	15.62 0.18 -4.66	15.10 0.20 -4.56	15.90 0.16 -4.22	20.32 0.33 -2.44	22.79 0.23 -3.04	19.03 -0.04 -6.01	20.97 -0.26 -5.27	20.87 -0.34 -3.58	25.91 -0.62 -0.87	23.74 -0.52 -1.81	19.23 -0.28 -3.75	20.75 -0.34 -3.40	16.84 -0.18 -5.87	24.11 -0.48 -4.62	29.62 -0.51 -4.71	38.01 -0.89 -4.74	38.75 -1.00 -2.71	33.40 -0.73 -3.60	31.01 -0.68 -3.42	28.27 -0.61 -3.41	27.64 -0.58 -2.93	28.87 -0.30 -2.06
ARTHUR_KILL_GT_1 23520	30.62 0.41 -22.77	29.12 0.54 -18.30	27.95 0.49 -16.69	27.12 0.44 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.33 0.92 -10.90	35.21 0.61 -21.54	35.62 0.77 -18.90	31.36 0.90 -12.83	30.02 1.26 -3.11	30.05 1.12 -6.48	30.03 0.83 -13.44	30.83 0.95 -12.19	32.82 0.63 -21.04	37.74 1.22 -16.55	43.87 1.58 -16.89	53.24 2.08 -16.99	49.10 2.33 -9.73	45.46 2.01 -12.91	42.12 1.61 -12.24	39.30 1.61 -12.23	37.53 1.74 -10.48	36.05 1.57 -7.37
ARTHUR_KILL_2 23512	30.59 0.39 -22.77	29.09 0.52 -18.30	27.93 0.46 -16.69	27.09 0.41 -16.33	27.11 0.47 -15.12	27.11 0.81 -8.76	31.29 0.88 -10.90	35.17 0.57 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.97 1.21 -3.11	30.00 1.08 -6.48	29.99 0.79 -13.44	30.78 0.90 -12.19	32.79 0.60 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.98 2.22 -9.73	45.34 1.89 -12.91	42.06 1.55 -12.24	39.22 1.53 -12.23	37.45 1.67 -10.48	35.97 1.49 -7.37
ARTHUR_KILL_3 23513	30.42 0.22 -22.77	28.86 0.29 -18.30	27.72 0.25 -16.69	26.88 0.21 -16.33	26.88 0.24 -15.12	26.79 0.49 -8.75	31.02 0.61 -10.90	35.05 0.46 -21.54	35.46 0.61 -18.90	31.16 0.71 -12.83	29.74 0.97 -3.11	29.80 0.87 -6.48	29.84 0.65 -13.43	30.60 0.73 -12.19	32.67 0.49 -21.04	37.46 0.94 -16.55	43.49 1.19 -16.88	52.62 1.47 -16.99	48.39 1.63 -9.73	44.88 1.44 -12.91	41.72 1.21 -12.24	38.84 1.15 -12.23	37.00 1.21 -10.48	35.43 0.95 -7.37
ARTHUR_KILL_COGEN 323718	30.62 0.41 -22.77	29.12 0.54 -18.30	27.95 0.49 -16.69	27.12 0.44 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.33 0.92 -10.90	35.21 0.61 -21.54	35.62 0.77 -18.90	31.36 0.90 -12.83	30.02 1.26 -3.11	30.05 1.12 -6.48	30.03 0.83 -13.44	30.83 0.95 -12.19	32.82 0.63 -21.04	37.74 1.22 -16.55	43.87 1.58 -16.89	53.24 2.08 -16.99	49.10 2.33 -9.73	45.46 2.01 -12.91	42.12 1.61 -12.24	39.30 1.61 -12.23	37.53 1.74 -10.48	36.05 1.57 -7.37
ASHOKAN____ 23654	32.86 0.32 -25.11	30.89 0.44 -20.18	29.61 0.43 -18.40	28.77 0.41 -18.01	28.66 0.47 -16.67	27.83 0.63 -9.65	32.14 0.61 -12.02	37.12 0.31 -23.75	37.20 0.40 -20.84	32.16 0.39 -14.15	29.55 0.46 -3.43	29.99 0.40 -7.14	30.80 0.22 -14.81	31.43 0.30 -13.44	34.55 0.20 -23.20	38.78 0.56 -18.25	45.02 0.99 -18.62	54.36 1.47 -18.73	49.24 1.48 -10.72	45.96 1.19 -14.24	42.95 1.19 -13.50	39.99 1.04 -13.48	37.84 0.99 -11.56	36.16 0.92 -8.12



ASTORIA_EAST_ENERGY_CC1 323581	30.46 0.25 -22.77	28.96 0.39 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.90 0.60 -8.76	30.97 0.57 -10.89	34.96 0.38 -21.53	35.39 0.54 -18.89	31.10 0.65 -12.83	29.68 0.92 -3.10	29.75 0.83 -6.47	29.80 0.61 -13.43	30.56 0.69 -12.18	32.65 0.47 -21.04	37.42 0.90 -16.55	43.38 1.09 -16.88	52.54 1.40 -16.98	48.27 1.52 -9.72	44.78 1.34 -12.91	41.58 1.07 -12.23	38.76 1.07 -12.22	37.02 1.24 -10.48	35.47 1.00 -7.36
ASTORIA_EAST_ENERGY_CC2 323582	30.46 0.25 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.90 0.60 -8.76	30.97 0.57 -10.89	34.96 0.38 -21.53	35.39 0.54 -18.89	31.10 0.65 -12.83	29.68 0.92 -3.10	29.75 0.83 -6.47	29.80 0.61 -13.43	30.56 0.69 -12.18	32.65 0.47 -21.04	37.42 0.90 -16.55	43.38 1.09 -16.88	52.54 1.40 -16.98	48.27 1.52 -9.72	44.78 1.34 -12.91	41.58 1.07 -12.23	38.76 1.07 -12.22	37.02 1.24 -10.48	35.47 1.00 -7.36
ASTORIA_GT2_1 24094	30.47 0.26 -22.77	28.96 0.39 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT2_2 24095	30.47 0.26 -22.77	28.96 0.39 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT2_3 24096	30.47 0.26 -22.77	28.96 0.39 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT2_4 24097	30.47 0.26 -22.77	28.96 0.39 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT3_1 24098	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT3_2 24099	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT3_3 24100	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT3_4 24101	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT4_1 24102	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT4_2 24103	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT4_3 24104	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT4_4 24105	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.00 0.59 -10.90	34.97 0.38 -21.54	35.42 0.56 -18.90	31.13 0.67 -12.83	29.72 0.95 -3.11	29.75 0.83 -6.48	29.83 0.63 -13.44	30.59 0.71 -12.19	32.63 0.45 -21.04	37.40 0.88 -16.55	43.42 1.12 -16.89	52.59 1.43 -16.99	48.35 1.59 -9.73	44.82 1.37 -12.91	41.58 1.07 -12.24	38.81 1.12 -12.23	37.02 1.24 -10.48	35.51 1.03 -7.37
ASTORIA_GT_1 23523	30.47 0.27 -22.77	28.97 0.40 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.93 0.63 -8.76	31.01 0.61 -10.89	34.99 0.41 -21.53	35.42 0.57 -18.89	31.14 0.69 -12.83	29.73 0.97 -3.10	29.79 0.87 -6.47	29.84 0.65 -13.43	30.60 0.73 -12.18	32.67 0.49 -21.04	37.46 0.94 -16.55	43.43 1.14 -16.88	52.61 1.47 -16.98	48.38 1.63 -9.72	44.84 1.41 -12.91	41.63 1.13 -12.23	38.81 1.12 -12.22	37.07 1.29 -10.48	35.53 1.06 -7.36



ASTORIA_GT_10 24110	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.84 1.33 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ASTORIA_GT_11 24225	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.84 1.33 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ASTORIA_GT_12 24226	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.84 1.33 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ASTORIA_GT_13 24227	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.84 1.33 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ASTORIA_GT_5 24106	30.47 0.27 -22.77	28.97 0.40 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.93 0.63 -8.76	31.01 0.61 -10.89	34.99 0.41 -21.53	35.42 0.57 -18.89	31.14 0.69 -12.83	29.73 0.97 -3.10	29.79 0.87 -6.47	29.84 0.65 -13.43	30.60 0.73 -12.18	32.67 0.49 -21.04	37.46 0.94 -16.55	43.43 1.14 -16.88	52.61 1.47 -16.98	48.38 1.63 -9.72	44.84 1.41 -12.91	41.63 1.13 -12.23	38.81 1.12 -12.22	37.07 1.29 -10.48	35.53 1.06 -7.36
ASTORIA_GT_7 24107	30.47 0.27 -22.77	28.97 0.40 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.93 0.63 -8.76	31.01 0.61 -10.89	34.99 0.41 -21.53	35.42 0.57 -18.89	31.14 0.69 -12.83	29.73 0.97 -3.10	29.79 0.87 -6.47	29.84 0.65 -13.43	30.60 0.73 -12.18	32.67 0.49 -21.04	37.46 0.94 -16.55	43.43 1.14 -16.88	52.61 1.47 -16.98	48.38 1.63 -9.72	44.84 1.41 -12.91	41.63 1.13 -12.23	38.81 1.12 -12.22	37.07 1.29 -10.48	35.53 1.06 -7.36
ASTORIA_GT_8 24108	30.48 0.28 -22.77	28.97 0.40 -18.30	27.81 0.35 -16.69	26.97 0.29 -16.33	26.99 0.35 -15.12	26.93 0.63 -8.76	31.02 0.60 -10.90	35.00 0.40 -21.54	35.43 0.57 -18.90	31.15 0.69 -12.83	29.74 0.98 -3.11	29.80 0.88 -6.48	29.86 0.66 -13.44	30.62 0.74 -12.19	32.65 0.47 -21.04	37.42 0.90 -16.55	43.47 1.17 -16.89	52.62 1.47 -16.99	48.43 1.67 -9.73	44.88 1.44 -12.91	41.64 1.13 -12.24	38.87 1.17 -12.23	37.05 1.26 -10.48	35.56 1.08 -7.37
ASTORIA___2 24149	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	30.99 0.58 -10.89	34.96 0.38 -21.53	35.41 0.56 -18.89	31.12 0.67 -12.83	29.68 0.92 -3.10	29.75 0.83 -6.47	29.82 0.63 -13.43	30.58 0.71 -12.18	32.65 0.47 -21.04	37.44 0.92 -16.55	43.38 1.09 -16.88	52.54 1.40 -16.98	48.31 1.56 -9.72	44.78 1.34 -12.91	41.58 1.07 -12.23	38.78 1.09 -12.22	37.02 1.24 -10.48	35.47 1.00 -7.36
ASTORIA___3 23516	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.89 1.13 -3.11	29.96 1.03 -6.48	29.94 0.74 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.65 1.89 -9.73	45.09 1.65 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
ASTORIA___4 23517	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.84 1.33 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ASTORIA___5 23518	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.89 1.13 -3.11	29.96 1.03 -6.48	29.94 0.74 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.65 1.89 -9.73	45.09 1.65 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
AST_ENERGY_2_CC3 323677	30.46 0.25 -22.77	28.91 0.34 -18.30	27.76 0.29 -16.69	26.94 0.26 -16.33	26.94 0.30 -15.12	26.86 0.56 -8.75	31.09 0.68 -10.90	35.09 0.50 -21.54	35.51 0.65 -18.90	31.21 0.76 -12.83	29.82 1.05 -3.11	29.87 0.94 -6.48	29.89 0.69 -13.43	30.66 0.78 -12.19	32.71 0.52 -21.04	37.52 1.00 -16.55	43.54 1.24 -16.88	52.76 1.61 -16.99	48.50 1.74 -9.73	44.97 1.53 -12.91	41.78 1.27 -12.24	38.92 1.22 -12.23	37.07 1.29 -10.48	35.51 1.03 -7.37
AST_ENERGY_2_CC4 323678	30.46 0.25 -22.77	28.91 0.34 -18.30	27.76 0.29 -16.69	26.94 0.26 -16.33	26.94 0.30 -15.12	26.86 0.56 -8.75	31.09 0.68 -10.90	35.09 0.50 -21.54	35.51 0.65 -18.90	31.21 0.76 -12.83	29.82 1.05 -3.11	29.87 0.94 -6.48	29.89 0.69 -13.43	30.66 0.78 -12.19	32.71 0.52 -21.04	37.52 1.00 -16.55	43.54 1.24 -16.88	52.76 1.61 -16.99	48.50 1.74 -9.73	44.97 1.53 -12.91	41.78 1.27 -12.24	38.92 1.22 -12.23	37.07 1.29 -10.48	35.51 1.03 -7.37
ATHENS_STG_1 23668	32.77 0.19 -25.15	30.73 0.25 -20.21	29.47 0.26 -18.43	28.63 0.25 -18.04	28.50 0.28 -16.70	27.64 0.42 -9.67	32.02 0.47 -12.04	37.16 0.31 -23.79	37.23 0.40 -20.88	32.26 0.46 -14.17	29.76 0.67 -3.43	30.18 0.58 -7.15	31.03 0.43 -14.84	31.63 0.48 -13.47	34.70 0.31 -23.24	38.85 0.60 -18.28	44.80 0.74 -18.65	53.92 0.99 -18.77	48.85 1.07 -10.74	45.71 0.92 -14.26	42.61 0.82 -13.52	39.71 0.74 -13.51	37.64 0.76 -11.58	35.90 0.65 -8.14
ATHENS_STG_2 23670	32.77 0.19 -25.15	30.73 0.25 -20.21	29.47 0.26 -18.43	28.63 0.25 -18.04	28.50 0.28 -16.70	27.64 0.42 -9.67	32.02 0.47 -12.04	37.16 0.31 -23.79	37.23 0.40 -20.88	32.26 0.46 -14.17	29.76 0.67 -3.43	30.18 0.58 -7.15	31.03 0.43 -14.84	31.63 0.48 -13.47	34.70 0.31 -23.24	38.85 0.60 -18.28	44.80 0.74 -18.65	53.92 0.99 -18.77	48.85 1.07 -10.74	45.71 0.92 -14.26	42.61 0.82 -13.52	39.71 0.74 -13.51	37.64 0.76 -11.58	35.90 0.65 -8.14



ATHENS_STG_3 23677	32.77 0.19 -25.15	30.73 0.25 -20.21	29.47 0.26 -18.43	28.63 0.25 -18.04	28.50 0.28 -16.70	27.64 0.42 -9.67	32.02 0.47 -12.04	37.16 0.31 -23.79	37.23 0.40 -20.88	32.26 0.46 -14.17	29.76 0.67 -3.43	30.18 0.58 -7.15	31.03 0.43 -14.84	31.63 0.48 -13.47	34.70 0.31 -23.24	38.85 0.60 -18.28	44.80 0.74 -18.65	53.92 0.99 -18.77	48.85 1.07 -10.74	45.71 0.92 -14.26	42.61 0.82 -13.52	39.71 0.74 -13.51	37.64 0.76 -11.58	35.90 0.65 -8.14
AUBURN____LFGE 323710	12.77 0.07 -5.27	14.61 0.10 -4.23	14.74 0.10 -3.86	14.22 0.09 -3.78	15.11 0.09 -3.50	19.75 0.18 -2.03	22.23 0.20 -2.52	18.16 0.12 -4.98	20.43 0.10 -4.37	20.72 0.12 -2.97	26.56 0.18 -0.72	24.12 0.18 -1.50	19.01 0.14 -3.11	20.70 0.19 -2.82	16.15 0.13 -4.87	24.02 0.22 -3.83	29.57 0.25 -3.91	38.47 0.38 -3.93	39.65 0.37 -2.25	33.83 0.31 -2.99	31.36 0.25 -2.83	28.50 0.20 -2.83	27.85 0.13 -2.43	29.03 0.22 -1.70
BABYLON_RES_REC 323704	30.76 0.55 -22.77	29.26 0.69 -18.30	28.06 0.59 -16.69	27.22 0.54 -16.33	27.32 0.68 -15.12	27.46 1.16 -8.76	31.76 1.35 -10.90	35.46 0.86 -21.54	36.15 1.29 -18.90	31.92 1.46 -12.84	30.80 2.03 -3.12	30.82 1.89 -6.49	30.51 1.29 -13.45	31.41 1.52 -12.20	36.01 0.96 -23.91	40.12 1.78 -18.37	52.87 2.34 -25.12	68.43 3.11 -31.16	65.89 3.37 -25.49	63.19 2.84 -29.81	51.21 2.49 -20.45	51.96 2.27 -24.23	39.55 2.38 -11.87	36.66 2.17 -7.38
BABYLON__69_KV_BK2 356345	30.86 0.65 -22.77	29.41 0.83 -18.30	28.20 0.73 -16.69	27.35 0.67 -16.33	27.48 0.84 -15.12	27.69 1.39 -8.76	32.01 1.60 -10.90	35.63 1.03 -21.54	36.36 1.50 -18.90	32.17 1.71 -12.84	31.13 2.36 -3.11	31.04 2.11 -6.48	30.70 1.48 -13.45	31.58 1.70 -12.19	36.12 1.07 -23.91	40.32 1.98 -18.37	53.20 2.67 -25.12	68.91 3.59 -31.16	66.37 3.85 -25.49	63.55 3.21 -29.81	51.58 2.86 -20.45	52.32 2.62 -24.23	39.83 2.66 -11.87	37.14 2.66 -7.37
BALL_HILL_WT_PWR 323825	13.78 0.06 -6.28	15.41 0.09 -5.05	15.47 0.09 -4.61	14.94 0.08 -4.51	15.72 0.02 -4.17	20.09 0.12 -2.42	22.48 -0.04 -3.01	18.77 -0.23 -5.94	20.68 -0.49 -5.22	20.60 -0.56 -3.54	25.57 -0.95 -0.86	23.49 -0.74 -1.79	19.03 -0.44 -3.71	20.56 -0.50 -3.36	16.68 -0.27 -5.81	23.86 -0.68 -4.57	29.23 -0.84 -4.66	37.52 -1.33 -4.69	38.24 -1.48 -2.68	33.00 -1.10 -3.56	30.66 -0.99 -3.38	27.93 -0.92 -3.37	27.28 -0.91 -2.89	28.49 -0.65 -2.03
BARON_WINDS____WT_PWR 323822	15.02 0.04 -7.54	16.41 0.08 -6.06	16.39 0.08 -5.53	15.84 0.08 -5.41	16.58 0.05 -5.01	20.59 0.14 -2.90	23.18 0.06 -3.61	20.10 -0.09 -7.13	21.96 -0.26 -6.26	21.56 -0.32 -4.25	26.12 -0.56 -1.03	24.14 -0.45 -2.15	19.95 -0.27 -4.45	21.42 -0.30 -4.04	17.97 -0.15 -6.97	25.09 -0.36 -5.48	30.57 -0.43 -5.59	39.14 -0.65 -5.63	39.55 -0.70 -3.22	34.29 -0.52 -4.28	31.84 -0.48 -4.05	29.06 -0.46 -4.05	28.27 -0.51 -3.47	29.25 -0.30 -2.44
BARRETT_IC_1 23704	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_10 23701	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_11 23702	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_12 23703	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_2 23705	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_3 23706	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_4 23707	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_5 23708	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_6 23709	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38



BARRETT_IC_7 23710	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.41 1.64 -3.11	30.38 1.46 -6.48	30.24 1.02 -13.45	31.07 1.19 -12.19	35.78 0.74 -23.91	39.70 1.36 -18.37	52.19 1.65 -25.12	67.47 2.15 -31.16	64.85 2.33 -25.49	62.33 1.98 -29.81	50.47 1.75 -20.45	51.35 1.66 -24.23	38.99 1.82 -11.87	36.27 1.79 -7.37
BARRETT_IC_8 23711	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT_IC_9 23700	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT___1 23545	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BARRETT___2 23546	30.65 0.44 -22.77	29.12 0.54 -18.30	27.94 0.46 -16.69	27.10 0.41 -16.33	27.17 0.53 -15.12	27.22 0.91 -8.76	31.49 1.07 -10.90	35.29 0.69 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.42 1.64 -3.12	30.50 1.57 -6.49	30.27 1.06 -13.45	31.15 1.26 -12.20	35.83 0.78 -23.91	39.80 1.46 -18.37	52.29 1.75 -25.12	67.61 2.29 -31.16	65.04 2.52 -25.49	62.48 2.14 -29.81	50.56 1.84 -20.45	51.43 1.73 -24.23	39.09 1.92 -11.87	36.25 1.76 -7.38
BATAVIA___115KV_TB1 55881	13.30 0.16 -5.70	15.09 0.24 -4.58	15.20 0.24 -4.18	14.65 0.22 -4.09	15.53 0.22 -3.79	20.07 0.33 -2.19	22.38 0.14 -2.73	18.36 -0.09 -5.39	20.42 -0.27 -4.73	20.52 -0.32 -3.21	25.98 -0.46 -0.78	23.71 -0.36 -1.62	18.95 -0.17 -3.36	20.56 -0.18 -3.05	16.32 -0.09 -5.27	23.82 -0.30 -4.14	29.21 -0.43 -4.23	37.70 -0.72 -4.25	38.65 -0.81 -2.44	33.22 -0.55 -3.23	30.77 -0.57 -3.06	27.97 -0.56 -3.06	27.39 -0.53 -2.62	28.66 -0.30 -1.84
BAYONEEC___CTG1 323682	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG10 323750	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG2 323683	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG3 323684	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG4 323685	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG5 323686	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG6 323687	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG7 323688	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BAYONEEC___CTG8 323689	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37



BAYONEEC___CTG9 323749	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.95 0.27 -16.33	26.94 0.30 -15.12	26.88 0.58 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.53 0.67 -18.90	31.23 0.77 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.54 1.78 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BEACON___LESR 323632	35.09 0.23 -27.43	32.65 0.34 -22.04	31.25 0.37 -20.10	30.38 0.36 -19.67	30.12 0.39 -18.21	28.69 0.60 -10.55	33.28 0.64 -13.13	39.39 0.39 -25.94	39.25 0.53 -22.77	33.68 0.60 -15.46	30.25 0.85 -3.74	30.95 0.70 -7.80	32.40 0.46 -16.18	32.90 0.53 -14.69	36.80 0.31 -25.35	40.50 0.60 -19.93	46.56 0.81 -20.34	55.75 1.13 -20.46	49.93 1.18 -11.72	47.04 0.95 -15.55	43.94 0.93 -14.74	40.98 0.79 -14.73	38.66 0.73 -12.63	36.69 0.70 -8.87
BEAVER RIVER___HYD 24048	9.35 -0.19 -2.10	11.69 -0.27 -1.69	12.08 -0.25 -1.54	11.60 -0.26 -1.51	12.69 -0.23 -1.40	17.88 -0.47 -0.81	20.13 -0.39 -1.01	14.92 -0.13 -1.99	17.54 -0.16 -1.75	18.56 -0.25 -1.19	25.64 -0.31 -0.29	22.66 -0.38 -0.60	16.64 -0.36 -1.24	18.41 -0.41 -1.13	12.76 -0.32 -1.94	20.98 -0.52 -1.53	26.46 -0.51 -1.56	35.36 -0.38 -1.57	37.68 -0.26 -0.90	31.42 -0.31 -1.19	29.26 -0.14 -1.13	26.34 -0.25 -1.13	26.02 -0.25 -0.97	27.63 -0.16 -0.68
BEEBEE_GT_13 23619	12.81 0.10 -5.27	14.66 0.15 -4.24	14.80 0.15 -3.87	14.25 0.12 -3.78	15.16 0.14 -3.50	19.79 0.21 -2.03	22.12 0.08 -2.52	17.98 -0.07 -4.99	20.16 -0.18 -4.38	20.42 -0.18 -2.97	26.12 -0.26 -0.72	23.77 -0.18 -1.50	18.81 -0.06 -3.11	20.46 -0.05 -2.82	15.99 -0.02 -4.87	23.66 -0.14 -3.83	29.09 -0.23 -3.91	37.69 -0.41 -3.94	38.77 -0.52 -2.25	33.16 -0.37 -2.99	30.74 -0.37 -2.84	27.94 -0.36 -2.83	27.37 -0.35 -2.43	28.60 -0.22 -1.71
BENSHRST_27_KV_BENSHRST_1 355998	30.59 0.38 -22.77	29.08 0.51 -18.30	27.92 0.45 -16.69	27.08 0.40 -16.33	27.10 0.46 -15.12	27.11 0.81 -8.76	31.31 0.90 -10.90	35.21 0.61 -21.54	35.66 0.80 -18.90	31.39 0.93 -12.83	30.10 1.33 -3.11	30.11 1.19 -6.48	30.08 0.88 -13.44	30.87 0.99 -12.19	32.83 0.65 -21.04	37.78 1.26 -16.55	43.92 1.63 -16.89	53.27 2.12 -16.99	49.13 2.37 -9.73	45.46 2.02 -12.91	42.15 1.64 -12.24	39.30 1.60 -12.23	37.48 1.70 -10.48	36.00 1.52 -7.37
BETHLEHEM___GRP 23843	35.02 0.13 -27.46	32.54 0.21 -22.07	31.14 0.24 -20.12	30.28 0.24 -19.69	30.02 0.26 -18.23	28.47 0.37 -10.56	33.03 0.37 -13.14	39.22 0.20 -25.97	39.02 0.27 -22.79	33.45 0.35 -15.47	29.87 0.46 -3.75	30.64 0.38 -7.81	32.21 0.25 -16.20	32.67 0.28 -14.70	36.65 0.13 -25.37	40.18 0.26 -19.95	46.10 0.33 -20.36	55.09 0.44 -20.48	49.24 0.48 -11.73	46.47 0.37 -15.57	43.39 0.37 -14.76	40.52 0.31 -14.74	38.24 0.30 -12.64	36.21 0.22 -8.88
BETHLEHEM___GS1 323560	35.02 0.13 -27.46	32.54 0.21 -22.07	31.14 0.24 -20.12	30.28 0.24 -19.69	30.02 0.27 -18.23	28.47 0.37 -10.56	33.03 0.37 -13.14	39.22 0.20 -25.97	39.02 0.27 -22.79	33.45 0.35 -15.47	29.87 0.46 -3.75	30.64 0.38 -7.81	32.21 0.25 -16.20	32.67 0.28 -14.70	36.65 0.13 -25.37	40.18 0.26 -19.95	46.10 0.33 -20.36	55.09 0.44 -20.48	49.24 0.48 -11.73	46.47 0.37 -15.57	43.39 0.37 -14.76	40.52 0.31 -14.74	38.22 0.28 -12.64	36.21 0.22 -8.88
BETHLEHEM___GS2 323561	35.02 0.13 -27.46	32.54 0.21 -22.07	31.14 0.24 -20.12	30.28 0.24 -19.69	30.02 0.27 -18.23	28.47 0.37 -10.56	33.03 0.37 -13.14	39.22 0.20 -25.97	39.02 0.27 -22.79	33.45 0.35 -15.47	29.87 0.46 -3.75	30.64 0.38 -7.81	32.21 0.25 -16.20	32.67 0.28 -14.70	36.65 0.13 -25.37	40.18 0.26 -19.95	46.10 0.33 -20.36	55.09 0.44 -20.48	49.24 0.48 -11.73	46.47 0.37 -15.57	43.39 0.37 -14.76	40.52 0.31 -14.74	38.22 0.28 -12.64	36.21 0.22 -8.88
BETHLEHEM___GS3 323562	35.02 0.13 -27.46	32.54 0.21 -22.07	31.14 0.24 -20.12	30.28 0.24 -19.69	30.02 0.27 -18.23	28.47 0.37 -10.56	33.03 0.37 -13.14	39.22 0.20 -25.97	39.02 0.27 -22.79	33.45 0.35 -15.47	29.87 0.46 -3.75	30.64 0.38 -7.81	32.21 0.25 -16.20	32.67 0.28 -14.70	36.65 0.13 -25.37	40.18 0.26 -19.95	46.10 0.33 -20.36	55.09 0.44 -20.48	49.24 0.48 -11.73	46.47 0.37 -15.57	43.39 0.37 -14.76	40.52 0.31 -14.74	38.22 0.28 -12.64	36.21 0.22 -8.88
BETHLEHEM___STEEL 23779	13.66 0.04 -6.18	15.31 0.07 -4.96	15.36 0.05 -4.53	14.84 0.06 -4.43	15.63 0.01 -4.10	19.99 0.07 -2.37	22.35 -0.12 -2.96	18.60 -0.30 -5.84	20.52 -0.56 -5.13	20.47 -0.63 -3.48	25.48 -1.03 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.46 -0.53 -3.31	16.56 -0.29 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.34 -1.43 -4.61	38.08 -1.59 -2.64	32.85 -1.19 -3.50	30.49 -1.10 -3.32	27.76 -1.02 -3.32	27.18 -0.96 -2.84	28.35 -0.76 -2.00
BETHLHEM_115KV_TB1 79974	35.02 0.14 -27.44	32.54 0.22 -22.06	31.14 0.25 -20.11	30.27 0.24 -19.68	30.01 0.26 -18.22	28.48 0.39 -10.55	33.04 0.39 -13.14	39.23 0.22 -25.95	39.02 0.29 -22.78	33.46 0.37 -15.47	29.89 0.49 -3.74	30.68 0.43 -7.81	32.24 0.28 -16.19	32.70 0.32 -14.69	36.67 0.17 -25.36	40.21 0.30 -19.94	46.17 0.41 -20.35	55.18 0.55 -20.47	49.31 0.56 -11.72	46.55 0.46 -15.56	43.47 0.45 -14.75	40.58 0.38 -14.74	38.31 0.38 -12.63	36.29 0.30 -8.88
BETHPAGE_CC_5 323564	30.72 0.51 -22.77	29.22 0.65 -18.30	28.02 0.55 -16.69	27.19 0.51 -16.33	27.28 0.63 -15.12	27.37 1.07 -8.76	31.66 1.25 -10.90	35.41 0.81 -21.54	36.07 1.21 -18.90	31.84 1.38 -12.84	30.70 1.93 -3.12	30.73 1.80 -6.49	30.45 1.23 -13.45	31.34 1.45 -12.20	35.94 0.89 -23.91	39.98 1.64 -18.37	52.62 2.08 -25.12	68.09 2.77 -31.16	65.52 3.00 -25.49	62.88 2.53 -29.81	50.93 2.21 -20.45	51.71 2.01 -24.23	39.35 2.18 -11.87	36.47 1.98 -7.38
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	13.68 0.03 -6.21	15.32 0.05 -4.99	15.37 0.03 -4.55	14.84 0.04 -4.46	15.64 -0.01 -4.13	19.99 0.05 -2.39	22.35 -0.14 -2.97	18.62 -0.31 -5.88	20.56 -0.65 -5.16	20.47 -0.65 -3.50	25.48 -1.03 -0.85	23.38 -0.83 -1.77	18.94 -0.49 -3.67	20.47 -0.55 -3.33	16.58 -0.30 -5.74	23.75 -0.74 -4.52	29.08 -0.94 -4.61	37.36 -1.43 -4.64	38.10 -1.59 -2.65	32.87 -1.19 -3.52	30.51 -1.10 -3.34	27.76 -1.04 -3.34	27.17 -0.99 -2.86	28.34 -0.79 -2.01
BINGHAMTON___COGEN 23790	17.33 0.07 -9.82	18.27 0.10 -7.90	18.09 0.11 -7.20	17.50 0.10 -7.05	18.14 0.09 -6.52	21.50 0.18 -3.78	24.39 0.18 -4.70	22.41 0.07 -9.29	24.13 0.02 -8.15	23.18 0.02 -5.54	26.97 -0.03 -1.34	25.26 0.02 -2.79	21.59 0.03 -5.80	23.00 0.05 -5.26	20.28 0.06 -9.08	27.17 0.06 -7.14	32.77 0.08 -7.28	41.59 0.10 -7.33	41.34 0.11 -4.20	36.23 0.12 -5.57	33.63 0.08 -5.28	30.82 0.08 -5.28	29.85 0.03 -4.52	30.37 0.08 -3.18
BIXINCNT_115KV_LOAD 355685	13.76 -0.06 -6.38	15.36 -0.04 -5.13	15.44 -0.02 -4.68	14.90 -0.02 -4.58	15.71 -0.05 -4.24	20.00 0.00 -2.45	22.43 -0.14 -3.06	18.83 -0.26 -6.04	20.71 -0.54 -5.30	20.53 -0.69 -3.60	25.43 -1.10 -0.87	23.30 -0.97 -1.82	18.88 -0.65 -3.77	20.40 -0.71 -3.42	16.66 -0.38 -5.90	23.77 -0.84 -4.64	29.18 -0.97 -4.73	37.59 -1.33 -4.76	38.35 -1.41 -2.73	33.05 -1.10 -3.62	30.60 -1.10 -3.43	27.80 -1.10 -3.43	27.17 -1.06 -2.94	28.25 -0.92 -2.06



BLACK RIVER___HYD 24047	10.10 -0.11 -2.77	12.34 -0.15 -2.23	12.67 -0.14 -2.03	12.19 -0.14 -1.99	13.22 -0.14 -1.84	18.37 -0.25 -1.07	20.66 -0.18 -1.33	15.65 -0.03 -2.62	18.19 -0.06 -2.30	19.05 -0.14 -1.56	25.83 -0.21 -0.38	22.99 -0.25 -0.79	17.13 -0.27 -1.64	18.91 -0.26 -1.48	13.49 -0.21 -2.56	21.67 -0.32 -2.02	27.21 -0.25 -2.06	36.30 0.07 -2.07	38.44 0.22 -1.18	32.23 0.12 -1.57	29.96 0.20 -1.49	26.98 0.03 -1.49	26.50 -0.08 -1.28	28.04 0.03 -0.90
BLACKRVR_115KV_TB2 79977	10.10 -0.11 -2.77	12.34 -0.15 -2.23	12.67 -0.14 -2.03	12.19 -0.14 -1.99	13.21 -0.15 -1.84	18.37 -0.25 -1.07	20.66 -0.18 -1.33	15.65 -0.03 -2.62	18.19 -0.06 -2.30	19.05 -0.14 -1.56	25.83 -0.21 -0.38	22.99 -0.25 -0.79	17.13 -0.27 -1.64	18.91 -0.27 -1.48	13.49 -0.21 -2.56	21.69 -0.30 -2.02	27.21 -0.25 -2.06	36.26 0.03 -2.07	38.44 0.22 -1.18	32.23 0.12 -1.57	29.96 0.20 -1.49	26.98 0.03 -1.49	26.50 -0.08 -1.28	28.01 0.00 -0.90
BLISS_WT_PWR 323608	13.74 -0.08 -6.38	15.34 -0.06 -5.13	15.43 -0.03 -4.68	14.89 -0.03 -4.58	15.69 -0.07 -4.24	19.98 -0.02 -2.45	22.41 -0.16 -3.06	18.83 -0.26 -6.04	20.71 -0.54 -5.30	20.52 -0.71 -3.60	25.38 -1.15 -0.87	23.25 -1.01 -1.82	18.85 -0.68 -3.77	20.36 -0.74 -3.42	16.63 -0.41 -5.90	23.75 -0.86 -4.64	29.18 -0.97 -4.73	37.52 -1.40 -4.76	38.32 -1.44 -2.73	33.02 -1.13 -3.62	30.57 -1.13 -3.43	27.77 -1.12 -3.43	27.10 -1.14 -2.94	28.20 -0.97 -2.06
BLUESTONE___WT_PWR 323821	18.07 0.42 -10.22	19.07 0.59 -8.21	18.88 0.61 -7.49	18.26 0.59 -7.33	18.95 0.64 -6.78	22.51 1.04 -3.93	25.59 1.19 -4.89	23.53 0.81 -9.66	25.35 0.91 -8.48	24.35 0.97 -5.76	28.41 1.36 -1.39	26.56 1.21 -2.91	22.58 0.79 -6.03	24.09 0.94 -5.47	21.21 0.62 -9.44	28.57 1.18 -7.43	34.59 1.60 -7.58	44.21 2.43 -7.62	43.99 2.59 -4.36	38.50 2.17 -5.79	35.68 1.92 -5.49	32.63 1.68 -5.49	31.50 1.49 -4.70	32.10 1.68 -3.31
BLUE_CIRC_CHEM_DRP 24182	34.96 0.17 -27.35	32.50 0.25 -21.99	31.10 0.27 -20.05	30.23 0.26 -19.62	29.97 0.29 -18.16	28.49 0.42 -10.52	33.06 0.45 -13.10	39.20 0.27 -25.87	39.01 0.35 -22.71	33.46 0.42 -15.42	29.98 0.59 -3.73	30.74 0.52 -7.78	32.27 0.36 -16.14	32.74 0.41 -14.65	36.67 0.25 -25.28	40.31 0.46 -19.88	46.28 0.58 -20.29	55.36 0.79 -20.41	49.57 0.85 -11.69	46.75 0.70 -15.51	43.62 0.65 -14.70	40.74 0.59 -14.69	38.47 0.58 -12.59	36.48 0.52 -8.85
BOC_GAS_DRP 24189	34.96 0.16 -27.36	32.49 0.23 -21.99	31.08 0.25 -20.05	30.21 0.24 -19.63	29.95 0.26 -18.17	28.45 0.39 -10.52	33.02 0.41 -13.10	39.19 0.25 -25.88	39.00 0.34 -22.71	33.43 0.39 -15.42	29.93 0.54 -3.73	30.70 0.47 -7.78	32.24 0.33 -16.14	32.71 0.37 -14.65	36.65 0.22 -25.29	40.30 0.44 -19.89	46.26 0.56 -20.29	55.29 0.72 -20.42	49.50 0.78 -11.69	46.72 0.67 -15.52	43.60 0.62 -14.71	40.72 0.56 -14.69	38.45 0.56 -12.60	36.45 0.49 -8.85
BOONVILLE_115KV_TB1 79983	9.22 0.05 -1.73	11.73 0.07 -1.39	12.15 0.10 -1.27	11.67 0.08 -1.24	12.78 0.10 -1.15	18.35 0.14 -0.67	20.58 0.23 -0.83	14.92 0.22 -1.64	17.65 0.26 -1.44	18.85 0.25 -0.98	26.26 0.36 -0.24	23.23 0.29 -0.49	16.93 0.14 -1.02	18.79 0.18 -0.93	12.82 0.08 -1.60	21.41 0.18 -1.26	27.03 0.33 -1.28	36.10 0.65 -1.29	38.51 0.74 -0.74	32.10 0.58 -0.98	29.77 0.57 -0.93	26.83 0.43 -0.93	26.48 0.38 -0.80	28.13 0.46 -0.56
BORALEX_4TH_BRANCH 23824	35.12 0.34 -27.34	32.73 0.48 -21.97	31.31 0.50 -20.03	30.45 0.50 -19.61	30.22 0.54 -18.15	28.94 0.88 -10.51	33.58 0.98 -13.09	39.57 0.65 -25.86	39.46 0.81 -22.69	33.90 0.86 -15.41	30.67 1.28 -3.73	31.37 1.14 -7.78	32.70 0.80 -16.13	33.23 0.90 -14.64	36.98 0.57 -25.26	40.94 1.10 -19.87	47.11 1.42 -20.27	56.47 1.91 -20.40	50.79 2.07 -11.68	47.69 1.65 -15.50	44.52 1.55 -14.70	41.52 1.38 -14.68	39.23 1.34 -12.58	37.26 1.30 -8.84
BOWLINE___1 23526	29.84 0.24 -22.16	28.40 0.32 -17.81	27.31 0.29 -16.24	26.50 0.26 -15.89	26.53 0.30 -14.71	26.59 0.53 -8.52	30.75 0.62 -10.61	34.45 0.43 -20.96	34.91 0.56 -18.40	30.77 0.65 -12.49	29.58 0.90 -3.02	29.56 0.81 -6.30	29.44 0.60 -13.08	30.22 0.67 -11.87	32.08 0.46 -20.48	36.93 0.86 -16.11	42.96 1.12 -16.43	52.16 1.47 -16.53	48.09 1.59 -9.47	44.44 1.34 -12.57	41.34 1.16 -11.91	38.46 1.09 -11.90	36.61 1.11 -10.20	35.17 0.89 -7.17
BOWLINE___2 23595	29.84 0.24 -22.16	28.40 0.32 -17.81	27.31 0.29 -16.24	26.50 0.26 -15.90	26.54 0.30 -14.72	26.59 0.53 -8.52	30.75 0.62 -10.61	34.45 0.43 -20.96	34.91 0.56 -18.40	30.77 0.65 -12.49	29.58 0.90 -3.02	29.56 0.81 -6.30	29.45 0.61 -13.08	30.23 0.67 -11.87	32.08 0.46 -20.48	36.94 0.86 -16.11	42.96 1.12 -16.43	52.17 1.47 -16.54	48.09 1.59 -9.47	44.44 1.34 -12.57	41.34 1.16 -11.91	38.46 1.09 -11.90	36.61 1.11 -10.20	35.18 0.89 -7.17
BRADY___115KV_TB2 356060	8.10 -0.42 -1.08	10.50 -0.64 -0.87	11.00 -0.57 -0.79	10.54 -0.58 -0.77	11.65 -0.59 -0.72	16.70 -1.26 -0.42	18.92 -1.11 -0.52	13.65 -0.43 -1.02	16.49 -0.37 -0.90	17.74 -0.49 -0.61	25.29 -0.51 -0.15	22.06 -0.70 -0.31	15.75 -0.65 -0.64	17.43 -0.83 -0.58	11.41 -0.74 -1.00	19.54 -1.22 -0.78	24.94 -1.27 -0.80	33.40 -1.57 -0.81	36.16 -1.33 -0.46	29.65 -1.50 -0.61	28.09 -0.76 -0.58	25.15 -0.89 -0.58	25.27 -0.53 -0.50	27.14 -0.33 -0.35
BRANSCOMB___SOLAR 323811	35.90 0.36 -28.10	33.36 0.50 -22.59	31.88 0.51 -20.59	31.00 0.50 -20.16	30.71 0.53 -18.66	29.18 0.82 -10.80	33.88 0.92 -13.45	40.24 0.60 -26.58	40.08 0.80 -23.33	34.27 0.81 -15.84	30.65 1.16 -3.83	31.43 0.99 -7.99	33.01 0.66 -16.58	33.51 0.78 -15.05	37.60 0.49 -25.97	41.35 0.96 -20.42	47.52 1.27 -20.84	56.87 1.74 -20.97	50.89 1.85 -12.00	47.94 1.47 -15.94	44.84 1.47 -15.11	41.78 1.22 -15.09	39.45 1.21 -12.94	37.56 1.36 -9.09
BRENTWOD_69_KV_W. BRTWOOD 56703	30.86 0.65 -22.77	29.40 0.82 -18.30	28.19 0.72 -16.69	27.35 0.67 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	32.00 1.58 -10.90	35.62 1.02 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.08 2.31 -3.11	30.99 2.07 -6.48	30.67 1.45 -13.45	31.54 1.66 -12.19	36.09 1.04 -23.91	40.28 1.94 -18.37	53.13 2.59 -25.12	68.81 3.48 -31.16	66.26 3.74 -25.49	63.46 3.11 -29.81	51.49 2.77 -20.45	52.24 2.55 -24.23	39.75 2.58 -11.87	37.08 2.60 -7.37
BRISTLHL_115KV_TB1 79998	11.44 -0.07 -4.08	13.46 -0.09 -3.28	13.67 -0.11 -2.99	13.18 -0.09 -2.93	14.11 -0.13 -2.71	18.94 -0.18 -1.57	21.25 -0.21 -1.95	16.76 -0.16 -3.86	19.12 -0.22 -3.39	19.70 -0.23 -2.30	25.88 -0.33 -0.56	23.34 -0.27 -1.16	17.98 -0.19 -2.41	19.70 -0.18 -2.19	14.82 -0.10 -3.77	22.72 -0.22 -2.97	28.14 -0.30 -3.03	36.76 -0.44 -3.05	38.30 -0.48 -1.74	32.45 -0.40 -2.32	30.10 -0.37 -2.19	27.30 -0.36 -2.19	26.77 -0.40 -1.88	28.11 -0.33 -1.32
BROOKHAVEN___DRP 24191	30.85 0.64 -22.77	29.39 0.81 -18.30	28.17 0.70 -16.69	27.33 0.65 -16.33	27.46 0.82 -15.12	27.66 1.35 -8.76	31.98 1.56 -10.90	35.58 0.98 -21.54	36.31 1.45 -18.90	32.12 1.66 -12.84	31.08 2.31 -3.11	31.01 2.09 -6.48	30.68 1.47 -13.45	31.54 1.66 -12.19	36.11 1.06 -23.91	40.32 1.98 -18.37	53.20 2.67 -25.12	68.91 3.59 -31.16	66.37 3.85 -25.49	63.55 3.21 -29.81	51.58 2.86 -20.45	52.34 2.65 -24.23	39.83 2.66 -11.87	37.11 2.63 -7.37



BROOKLYN_NAVY_YARD 23515	30.46 0.25 -22.77	28.90 0.33 -18.30	27.76 0.29 -16.69	26.93 0.25 -16.33	26.93 0.29 -15.12	26.86 0.56 -8.75	31.11 0.70 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.84 1.08 -3.11	29.89 0.96 -6.48	29.91 0.71 -13.43	30.68 0.80 -12.19	32.72 0.53 -21.04	37.54 1.02 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.81 1.30 -12.24	38.92 1.22 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
BROOKLYN__ARMY_DRP 323595	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
BROOKVLE_69_KV_TB1 55790	30.65 0.44 -22.77	29.13 0.55 -18.30	27.96 0.49 -16.69	27.13 0.44 -16.33	27.18 0.54 -15.12	27.23 0.93 -8.76	31.49 1.07 -10.90	35.32 0.72 -21.54	35.90 1.04 -18.90	31.66 1.20 -12.84	30.46 1.69 -3.11	30.43 1.50 -6.48	30.29 1.07 -13.45	31.10 1.22 -12.19	35.82 0.77 -23.91	39.78 1.44 -18.37	52.34 1.80 -25.12	67.68 2.36 -31.16	65.08 2.56 -25.49	62.52 2.17 -29.81	50.64 1.92 -20.45	51.48 1.78 -24.23	39.02 1.85 -11.87	36.24 1.76 -7.37
BROOME_2_LFGE 323671	17.33 0.07 -9.82	18.27 0.10 -7.90	18.09 0.11 -7.20	17.50 0.10 -7.05	18.14 0.09 -6.52	21.50 0.18 -3.78	24.39 0.18 -4.70	22.41 0.07 -9.29	24.13 0.02 -8.15	23.18 0.02 -5.54	26.97 -0.03 -1.34	25.26 0.02 -2.79	21.59 0.03 -5.80	23.00 0.05 -5.26	20.28 0.06 -9.08	27.17 0.06 -7.14	32.77 0.08 -7.28	41.59 0.10 -7.33	41.30 0.07 -4.20	36.23 0.12 -5.57	33.63 0.09 -5.28	30.82 0.08 -5.28	29.85 0.03 -4.52	30.37 0.08 -3.18
BROOME__LFGE 323600	17.33 0.07 -9.82	18.27 0.10 -7.90	18.09 0.11 -7.20	17.50 0.10 -7.05	18.14 0.09 -6.52	21.50 0.18 -3.78	24.39 0.18 -4.70	22.41 0.07 -9.29	24.13 0.02 -8.15	23.18 0.02 -5.54	26.97 -0.03 -1.34	25.26 0.02 -2.79	21.59 0.03 -5.80	23.00 0.05 -5.26	20.28 0.06 -9.08	27.17 0.06 -7.14	32.77 0.08 -7.28	41.59 0.10 -7.33	41.30 0.07 -4.20	36.23 0.12 -5.57	33.63 0.09 -5.28	30.82 0.08 -5.28	29.85 0.03 -4.52	30.37 0.08 -3.18
BROWNFLS_115KV_TB_3_5 80003	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.49 -1.24	11.08 -0.49 -1.22	12.13 -0.52 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.17 -1.04 -1.23	25.53 -1.14 -1.26	34.10 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.73 -0.91	25.56 -0.81 -0.91	25.45 -0.63 -0.78	27.15 -0.52 -0.55
BROWNSV1_27_KV_LOAD 356125	30.52 0.31 -22.77	28.98 0.41 -18.30	27.85 0.38 -16.69	27.01 0.33 -16.33	27.02 0.38 -15.12	27.00 0.70 -8.75	31.25 0.84 -10.90	35.19 0.60 -21.54	35.65 0.80 -18.90	31.37 0.92 -12.83	30.05 1.28 -3.11	30.07 1.14 -6.48	30.03 0.84 -13.43	30.82 0.94 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.88	53.06 1.91 -16.99	48.87 2.11 -9.73	45.28 1.83 -12.91	42.03 1.53 -12.24	39.14 1.45 -12.23	37.27 1.49 -10.48	35.75 1.27 -7.37
BURROWS__LYONSDAL 23803	9.25 0.01 -1.81	11.72 0.00 -1.45	12.13 0.02 -1.32	11.65 0.01 -1.29	12.75 0.03 -1.20	18.26 0.02 -0.69	20.47 0.10 -0.86	14.91 0.14 -1.71	17.63 0.18 -1.50	18.78 0.14 -1.02	26.14 0.23 -0.25	23.12 0.16 -0.51	16.86 0.03 -1.07	18.71 0.05 -0.97	12.81 0.00 -1.67	21.32 0.04 -1.31	26.93 0.18 -1.34	35.95 0.44 -1.35	38.36 0.56 -0.77	31.95 0.40 -1.02	29.66 0.42 -0.97	26.74 0.31 -0.97	26.38 0.25 -0.83	28.02 0.33 -0.58
CAITHNESS_CC_1 323624	30.83 0.62 -22.77	29.35 0.78 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.43 0.78 -15.12	27.62 1.32 -8.76	31.92 1.50 -10.90	35.54 0.94 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.03 2.26 -3.12	31.07 2.13 -6.49	30.68 1.47 -13.45	31.59 1.70 -12.20	36.13 1.08 -23.91	40.36 2.02 -18.37	53.20 2.67 -25.12	68.91 3.59 -31.16	66.41 3.89 -25.49	63.58 3.23 -29.81	51.55 2.83 -20.45	52.32 2.62 -24.23	39.88 2.71 -11.87	36.95 2.47 -7.38
CALPINE BETH_PAGE_GT4 24209	30.71 0.50 -22.77	29.20 0.63 -18.30	28.01 0.54 -16.69	27.18 0.50 -16.33	27.27 0.62 -15.12	27.36 1.05 -8.76	31.64 1.23 -10.90	35.39 0.80 -21.54	36.04 1.18 -18.90	31.82 1.36 -12.84	30.64 1.87 -3.11	30.59 1.66 -6.48	30.38 1.17 -13.45	31.23 1.34 -12.19	35.86 0.81 -23.91	39.82 1.48 -18.37	52.37 1.83 -25.12	67.71 2.39 -31.16	65.15 2.63 -25.49	62.55 2.20 -29.81	50.67 1.95 -20.45	51.50 1.81 -24.23	39.12 1.95 -11.87	36.38 1.90 -7.37
CALPINE_BETH_PAGE_GT_4 323586	30.71 0.50 -22.77	29.20 0.63 -18.30	28.01 0.54 -16.69	27.18 0.50 -16.33	27.26 0.62 -15.12	27.36 1.05 -8.76	31.64 1.23 -10.90	35.39 0.80 -21.54	36.04 1.18 -18.90	31.82 1.36 -12.84	30.65 1.87 -3.12	30.71 1.77 -6.49	30.43 1.21 -13.45	31.30 1.42 -12.20	35.91 0.86 -23.91	39.92 1.58 -18.37	52.49 1.96 -25.12	67.88 2.56 -31.16	65.30 2.78 -25.49	62.70 2.35 -29.81	50.76 2.04 -20.45	51.58 1.88 -24.23	39.25 2.07 -11.87	36.36 1.87 -7.38
CALPINE_BP_GT1 23823	30.71 0.50 -22.77	29.20 0.63 -18.30	28.01 0.54 -16.69	27.18 0.50 -16.33	27.26 0.62 -15.12	27.36 1.05 -8.76	31.64 1.23 -10.90	35.39 0.80 -21.54	36.04 1.18 -18.90	31.82 1.36 -12.84	30.65 1.87 -3.12	30.71 1.77 -6.49	30.43 1.21 -13.45	31.30 1.42 -12.20	35.91 0.86 -23.91	39.92 1.58 -18.37	52.49 1.96 -25.12	67.88 2.56 -31.16	65.30 2.78 -25.49	62.70 2.35 -29.81	50.76 2.04 -20.45	51.58 1.88 -24.23	39.25 2.07 -11.87	36.36 1.87 -7.38
CALSPAN__DRP 24200	13.66 0.04 -6.18	15.31 0.07 -4.96	15.36 0.05 -4.53	14.84 0.06 -4.43	15.63 0.01 -4.10	19.99 0.07 -2.37	22.35 -0.12 -2.96	18.60 -0.30 -5.84	20.52 -0.56 -5.13	20.47 -0.63 -3.48	25.48 -1.03 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.46 -0.53 -3.31	16.56 -0.29 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.34 -1.43 -4.61	38.08 -1.59 -2.64	32.85 -1.19 -3.50	30.49 -1.10 -3.32	27.76 -1.02 -3.32	27.18 -0.96 -2.84	28.35 -0.76 -2.00
CALVERTON__SOLAR 323806	30.88 0.67 -22.77	29.42 0.84 -18.30	28.21 0.73 -16.69	27.36 0.68 -16.33	27.50 0.85 -15.12	27.72 1.42 -8.76	32.03 1.62 -10.90	35.62 1.02 -21.54	36.38 1.52 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.79 1.58 -13.45	31.71 1.82 -12.20	36.22 1.17 -23.91	40.52 2.18 -18.37	53.43 2.90 -25.12	69.25 3.93 -31.16	66.74 4.22 -25.49	63.86 3.51 -29.81	51.80 3.08 -20.45	52.55 2.85 -24.23	40.10 2.93 -11.87	37.17 2.68 -7.38
CANDIGU_WT_PWR 323617	15.02 0.04 -7.54	16.41 0.08 -6.06	16.39 0.08 -5.53	15.84 0.08 -5.41	16.58 0.05 -5.01	20.59 0.14 -2.90	23.18 0.06 -3.61	20.10 -0.09 -7.13	21.96 -0.26 -6.26	21.56 -0.32 -4.25	26.12 -0.56 -1.03	24.14 -0.45 -2.15	19.95 -0.27 -4.45	21.42 -0.30 -4.04	17.97 -0.15 -6.97	25.09 -0.36 -5.48	30.57 -0.43 -5.59	39.14 -0.65 -5.63	39.55 -0.70 -3.22	34.29 -0.52 -4.28	31.84 -0.48 -4.05	29.06 -0.46 -4.05	28.27 -0.51 -3.47	29.25 -0.30 -2.44



CARR STREET_E_SYR 24060	11.82 -0.01 -4.40	13.78 -0.02 -3.54	13.97 -0.03 -3.22	13.48 -0.02 -3.15	14.40 -0.05 -2.92	19.20 -0.04 -1.69	21.56 -0.06 -2.11	17.17 -0.05 -4.16	19.50 -0.11 -3.65	20.00 -0.11 -2.48	26.11 -0.15 -0.60	23.59 -0.11 -1.25	18.30 -0.06 -2.60	20.01 -0.04 -2.36	15.19 -0.02 -4.06	23.11 -0.06 -3.20	28.55 -0.13 -3.26	37.24 -0.20 -3.28	38.66 -0.26 -1.88	32.85 -0.18 -2.49	30.44 -0.20 -2.36	27.65 -0.18 -2.36	27.10 -0.23 -2.02	28.37 -0.16 -1.42
CARTHAGE___PAPER 23857	9.78 -0.17 -2.51	12.04 -0.25 -2.02	12.39 -0.24 -1.84	11.91 -0.24 -1.80	12.97 -0.22 -1.67	18.09 -0.42 -0.97	20.38 -0.33 -1.20	15.34 -0.09 -2.38	17.91 -0.13 -2.09	18.83 -0.21 -1.42	25.70 -0.31 -0.34	22.78 -0.38 -0.72	16.90 -0.35 -1.48	18.64 -0.39 -1.35	13.17 -0.30 -2.32	21.32 -0.48 -1.83	26.82 -0.46 -1.86	35.80 -0.24 -1.88	38.03 -0.07 -1.07	31.81 -0.15 -1.43	29.62 0.00 -1.35	26.66 -0.15 -1.35	26.25 -0.20 -1.16	27.79 -0.13 -0.81
CASSADAGA_WT_PWR 323784	13.93 0.13 -6.37	15.56 0.17 -5.12	15.63 0.18 -4.67	15.11 0.20 -4.57	15.92 0.17 -4.23	20.35 0.35 -2.45	22.83 0.27 -3.05	19.09 0.01 -6.02	21.05 -0.19 -5.29	20.93 -0.28 -3.59	25.96 -0.56 -0.87	23.76 -0.49 -1.81	19.22 -0.30 -3.76	20.76 -0.34 -3.41	16.86 -0.17 -5.89	24.12 -0.48 -4.63	29.65 -0.48 -4.72	38.09 -0.82 -4.75	38.83 -0.92 -2.72	33.44 -0.70 -3.61	31.07 -0.62 -3.42	28.33 -0.56 -3.42	27.70 -0.53 -2.93	28.93 -0.24 -2.06
CE_DUNWOOD___DRP 24194	30.44 0.28 -22.73	28.90 0.36 -18.27	27.77 0.33 -16.66	26.95 0.30 -16.30	26.96 0.35 -15.09	26.90 0.61 -8.74	31.12 0.72 -10.88	35.07 0.51 -21.50	35.49 0.67 -18.87	31.19 0.76 -12.81	29.84 1.08 -3.10	29.88 0.97 -6.47	29.88 0.71 -13.41	30.65 0.80 -12.17	32.67 0.52 -21.01	37.49 1.00 -16.52	43.56 1.30 -16.86	52.79 1.67 -16.96	48.56 1.81 -9.71	44.98 1.56 -12.89	41.82 1.33 -12.22	38.92 1.25 -12.21	37.03 1.26 -10.46	35.55 1.08 -7.35
CE_MILLWOOD___DRP 24193	30.36 0.27 -22.66	28.83 0.35 -18.21	27.71 0.32 -16.60	26.90 0.30 -16.25	26.90 0.33 -15.04	26.84 0.58 -8.71	31.04 0.68 -10.85	34.97 0.48 -21.43	35.40 0.64 -18.81	31.12 0.72 -12.77	29.78 1.03 -3.09	29.81 0.92 -6.44	29.81 0.68 -13.37	30.56 0.74 -12.13	32.58 0.50 -20.94	37.39 0.96 -16.46	43.43 1.22 -16.80	52.67 1.61 -16.90	48.45 1.74 -9.68	44.85 1.47 -12.85	41.72 1.27 -12.18	38.83 1.20 -12.17	36.94 1.21 -10.43	35.47 1.03 -7.33
CE_NYC2_DRP 24202	30.51 0.30 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.17 0.76 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.29 0.83 -12.83	29.92 1.15 -3.11	29.96 1.03 -6.48	29.97 0.77 -13.44	30.73 0.85 -12.19	32.75 0.57 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.72 1.96 -9.73	45.13 1.68 -12.91	41.87 1.36 -12.24	39.04 1.35 -12.23	37.20 1.42 -10.48	35.70 1.22 -7.37
CE_NYC_DRP 24195	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.95 0.31 -15.12	26.90 0.60 -8.75	31.13 0.72 -10.90	35.11 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.91 0.99 -6.48	29.94 0.74 -13.43	30.69 0.81 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.88	52.82 1.67 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
CHAFFEE___LFGE 323603	13.75 0.04 -6.28	15.38 0.06 -5.05	15.43 0.04 -4.60	14.89 0.04 -4.50	15.67 -0.02 -4.17	20.01 0.05 -2.41	22.40 -0.12 -3.01	18.70 -0.30 -5.94	20.63 -0.54 -5.21	20.55 -0.62 -3.54	25.52 -1.00 -0.86	23.45 -0.79 -1.79	19.00 -0.47 -3.70	20.54 -0.51 -3.36	16.66 -0.29 -5.80	23.83 -0.70 -4.56	29.20 -0.86 -4.66	37.48 -1.37 -4.68	38.20 -1.52 -2.68	32.96 -1.13 -3.56	30.60 -1.05 -3.38	27.84 -0.99 -3.37	27.20 -0.99 -2.89	28.38 -0.76 -2.03
CHATEAUG_35_KV_LOAD 355732	7.76 -0.64 -0.96	10.07 -0.98 -0.77	10.57 -0.92 -0.70	10.09 -0.94 -0.69	11.24 -0.92 -0.64	16.14 -1.77 -0.37	18.33 -1.64 -0.46	13.22 -0.74 -0.91	16.03 -0.72 -0.80	17.34 -0.83 -0.54	24.82 -0.98 -0.13	21.53 -1.19 -0.27	15.29 -1.04 -0.57	16.93 -1.27 -0.51	11.01 -1.03 -0.89	18.95 -1.72 -0.70	24.37 -1.75 -0.71	32.90 -1.98 -0.72	35.78 -1.67 -0.41	29.25 -1.83 -0.54	27.51 -1.27 -0.52	24.61 -1.38 -0.52	24.73 -1.01 -0.44	26.61 -0.81 -0.31
CHATEAUG_WT_PWR 323614	7.73 -0.64 -0.93	10.02 -1.00 -0.75	10.54 -0.93 -0.68	10.05 -0.96 -0.67	11.31 -0.83 -0.62	16.11 -1.79 -0.36	18.30 -1.66 -0.44	13.16 -0.77 -0.88	15.98 -0.75 -0.77	17.30 -0.85 -0.52	24.81 -0.98 -0.13	21.50 -1.21 -0.26	15.25 -1.06 -0.55	16.88 -1.31 -0.50	10.95 -1.05 -0.86	18.91 -1.74 -0.67	24.25 -1.85 -0.69	32.84 -2.02 -0.69	35.73 -1.70 -0.40	29.20 -1.86 -0.53	27.44 -1.33 -0.50	24.54 -1.43 -0.50	24.69 -1.04 -0.43	26.57 -0.84 -0.30
CHAT_HIGH_FALL_HYD 323578	7.76 -0.64 -0.96	10.07 -0.98 -0.77	10.57 -0.92 -0.70	10.09 -0.94 -0.69	11.33 -0.83 -0.64	16.15 -1.77 -0.37	18.33 -1.64 -0.46	13.22 -0.74 -0.91	16.04 -0.72 -0.80	17.34 -0.83 -0.54	24.84 -0.95 -0.13	21.53 -1.19 -0.27	15.29 -1.04 -0.57	16.93 -1.27 -0.51	11.01 -1.02 -0.89	18.95 -1.72 -0.70	24.29 -1.83 -0.71	32.90 -1.98 -0.72	35.78 -1.67 -0.41	29.25 -1.83 -0.54	27.51 -1.27 -0.52	24.61 -1.38 -0.52	24.73 -1.01 -0.44	26.61 -0.81 -0.31
CHAUTAUQUA___LFGE 323629	13.88 0.13 -6.32	15.53 0.19 -5.08	15.60 0.18 -4.63	15.07 0.19 -4.53	15.86 0.14 -4.20	20.28 0.30 -2.43	22.71 0.18 -3.03	18.94 -0.09 -5.98	20.90 -0.30 -5.25	20.82 -0.37 -3.56	25.86 -0.67 -0.86	23.71 -0.54 -1.80	19.21 -0.28 -3.73	20.75 -0.32 -3.38	16.82 -0.17 -5.84	24.08 -0.48 -4.59	29.54 -0.56 -4.69	37.92 -0.96 -4.72	38.66 -1.08 -2.70	33.35 -0.76 -3.58	30.96 -0.71 -3.40	28.20 -0.66 -3.39	27.55 -0.66 -2.91	28.78 -0.38 -2.04
CHERRYST_13_KV_LD 356241	30.49 0.28 -22.77	28.95 0.38 -18.30	27.80 0.33 -16.69	26.98 0.30 -16.33	26.97 0.33 -15.12	26.93 0.63 -8.75	31.17 0.76 -10.90	35.15 0.56 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.95 1.18 -3.11	29.98 1.05 -6.48	29.99 0.79 -13.43	30.74 0.87 -12.19	32.76 0.58 -21.04	37.62 1.10 -16.55	43.69 1.40 -16.88	52.93 1.78 -16.99	48.69 1.93 -9.73	45.13 1.68 -12.91	41.89 1.39 -12.24	39.02 1.32 -12.23	37.15 1.37 -10.48	35.64 1.17 -7.37
CHESTROR_138KV_BK263 355645	29.00 0.22 -21.35	27.72 0.29 -17.16	26.69 0.26 -15.65	25.90 0.24 -15.31	25.97 0.28 -14.18	26.21 0.46 -8.21	30.28 0.55 -10.22	33.61 0.37 -20.19	34.16 0.48 -17.72	30.20 0.55 -12.03	29.32 0.74 -2.91	29.19 0.67 -6.07	28.86 0.50 -12.60	29.68 0.57 -11.43	31.25 0.38 -19.73	36.21 0.72 -15.52	42.18 0.94 -15.83	51.35 1.26 -15.93	47.52 1.37 -9.12	43.80 1.16 -12.11	40.73 0.99 -11.48	37.87 0.94 -11.46	36.06 0.94 -9.83	34.80 0.79 -6.91
CH_MIDHUDSON___DRP 24192	31.03 0.28 -23.31	29.39 0.38 -18.74	28.22 0.36 -17.08	27.41 0.34 -16.72	27.38 0.38 -15.48	27.11 0.60 -8.96	31.34 0.66 -11.16	35.56 0.46 -22.05	35.90 0.59 -19.35	31.43 0.67 -13.14	29.79 0.95 -3.18	29.95 0.88 -6.63	30.15 0.63 -13.75	30.88 0.71 -12.48	33.15 0.47 -21.54	37.81 0.90 -16.94	43.89 1.19 -17.29	53.13 1.57 -17.39	48.66 1.67 -9.96	45.16 1.40 -13.22	42.04 1.24 -12.53	39.16 1.17 -12.52	37.22 1.19 -10.73	35.68 1.03 -7.54



CH_MISC_IPPS 23765	30.65 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.97 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.69 1.30 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.94 1.36 -12.31	39.04 1.27 -12.30	37.13 1.29 -10.54	35.63 1.11 -7.41
CH_RES_BVR_FALLS 23983	7.69 -0.37 -0.63	10.24 -0.53 -0.51	10.75 -0.50 -0.46	10.31 -0.49 -0.45	11.50 -0.44 -0.42	16.90 -0.89 -0.24	18.98 -0.84 -0.30	13.25 -0.40 -0.59	16.06 -0.41 -0.52	17.49 -0.49 -0.35	25.11 -0.64 -0.09	21.91 -0.72 -0.18	15.52 -0.62 -0.37	17.26 -0.76 -0.34	11.16 -0.57 -0.58	19.45 -0.98 -0.46	24.81 -1.07 -0.47	33.33 -1.30 -0.47	36.08 -1.22 -0.27	29.64 -1.25 -0.36	27.68 -0.93 -0.34	24.89 -0.92 -0.34	24.88 -0.71 -0.29	26.72 -0.60 -0.20
CH_RES_NIAGARA 23895	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91
CH_RES_SYRACUSE 23985	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.78 0.00 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
CLINTON_WT_PWR 323605	7.73 -0.64 -0.93	10.02 -1.00 -0.75	10.54 -0.93 -0.68	10.05 -0.96 -0.67	11.31 -0.83 -0.62	16.11 -1.79 -0.36	18.30 -1.66 -0.44	13.16 -0.77 -0.88	15.98 -0.75 -0.77	17.30 -0.85 -0.52	24.81 -0.98 -0.13	21.50 -1.21 -0.26	15.25 -1.06 -0.55	16.88 -1.31 -0.50	10.95 -1.05 -0.86	18.91 -1.74 -0.67	24.25 -1.85 -0.69	32.84 -2.02 -0.69	35.73 -1.70 -0.40	29.20 -1.86 -0.53	27.44 -1.33 -0.50	24.54 -1.43 -0.50	24.69 -1.04 -0.43	26.57 -0.84 -0.30
CLINTON__LFGE 323618	7.82 -0.55 -0.94	10.15 -0.87 -0.75	10.67 -0.80 -0.69	10.18 -0.84 -0.67	11.44 -0.70 -0.62	16.31 -1.60 -0.36	18.54 -1.42 -0.45	13.36 -0.59 -0.89	16.22 -0.51 -0.78	17.55 -0.60 -0.53	25.17 -0.62 -0.13	21.81 -0.90 -0.27	15.48 -0.84 -0.55	17.14 -1.04 -0.50	11.12 -0.89 -0.87	19.19 -1.46 -0.68	24.63 -1.47 -0.69	33.43 -1.43 -0.70	36.36 -1.08 -0.40	29.72 -1.34 -0.53	27.90 -0.88 -0.50	24.90 -1.07 -0.50	25.02 -0.71 -0.43	26.93 -0.49 -0.30
COBBLENY_34_KV_TB1 80064	13.75 0.04 -6.28	15.38 0.06 -5.05	15.43 0.04 -4.60	14.89 0.04 -4.50	15.69 0.00 -4.17	20.01 0.05 -2.41	22.40 -0.12 -3.01	18.70 -0.30 -5.94	20.63 -0.54 -5.21	20.55 -0.62 -3.54	25.54 -0.98 -0.86	23.45 -0.79 -1.79	19.01 -0.46 -3.70	20.54 -0.51 -3.36	16.67 -0.28 -5.80	23.84 -0.70 -4.56	29.20 -0.86 -4.66	37.51 -1.33 -4.68	38.23 -1.48 -2.68	32.96 -1.13 -3.56	30.63 -1.02 -3.38	27.87 -0.97 -3.37	27.25 -0.94 -2.89	28.38 -0.76 -2.03
COFFEEN__115KV_TB3 355620	10.20 -0.06 -2.82	12.44 -0.09 -2.27	12.77 -0.08 -2.07	12.29 -0.08 -2.02	13.31 -0.08 -1.87	18.49 -0.14 -1.08	20.82 -0.04 -1.35	15.79 0.07 -2.67	18.33 0.03 -2.34	19.18 -0.04 -1.59	25.97 -0.08 -0.38	23.11 -0.13 -0.80	17.24 -0.19 -1.66	19.02 -0.18 -1.51	13.60 -0.14 -2.60	21.82 -0.20 -2.05	27.43 -0.08 -2.09	36.57 0.31 -2.10	38.76 0.52 -1.20	32.53 0.40 -1.60	30.21 0.42 -1.52	27.21 0.23 -1.51	26.70 0.10 -1.30	28.19 0.16 -0.91
COLDSPRG_115KV_BK1 355956	14.03 0.14 -6.45	15.66 0.21 -5.18	15.71 0.20 -4.73	15.18 0.21 -4.63	15.99 0.18 -4.28	20.40 0.37 -2.48	22.91 0.31 -3.09	19.21 0.05 -6.10	21.18 -0.13 -5.35	21.05 -0.21 -3.63	26.10 -0.44 -0.88	23.94 -0.34 -1.83	19.39 -0.17 -3.81	20.95 -0.19 -3.45	17.03 -0.08 -5.96	24.32 -0.34 -4.69	29.86 -0.33 -4.78	38.46 -0.51 -4.81	39.20 -0.59 -2.76	33.73 -0.46 -3.66	31.31 -0.42 -3.47	28.50 -0.43 -3.46	27.86 -0.40 -2.97	28.98 -0.22 -2.09
COLONIE_LFGE__ 323577	35.46 0.26 -27.77	32.96 0.37 -22.32	31.52 0.39 -20.35	30.63 0.37 -19.92	30.37 0.41 -18.44	28.87 0.65 -10.68	33.51 0.70 -13.29	39.78 0.46 -26.26	39.60 0.59 -23.05	33.91 0.63 -15.65	30.37 0.92 -3.79	31.15 0.81 -7.90	32.71 0.57 -16.38	33.19 0.64 -14.87	37.20 0.40 -25.66	40.93 0.78 -20.18	47.02 1.02 -20.59	56.25 1.37 -20.72	50.38 1.48 -11.86	47.44 1.16 -15.75	44.33 1.13 -14.93	41.37 0.99 -14.91	39.04 0.96 -12.78	37.07 0.97 -8.98
COOPERNY_115KV_TB1 80082	25.56 0.16 -17.96	24.92 0.22 -14.44	24.15 0.20 -13.16	23.42 0.19 -12.88	23.66 0.21 -11.93	24.81 0.35 -6.91	28.52 0.41 -8.60	30.33 0.29 -16.99	31.23 0.37 -14.91	28.15 0.41 -10.12	28.68 0.56 -2.45	28.07 0.52 -5.11	26.74 0.38 -10.60	27.73 0.42 -9.62	28.03 0.29 -16.60	33.56 0.54 -13.05	39.42 0.69 -13.32	48.49 0.92 -13.40	45.71 1.00 -7.67	41.61 0.89 -10.19	38.66 0.73 -9.66	35.83 0.71 -9.65	34.28 0.71 -8.27	33.52 0.60 -5.81
COPENHAGEN_WT_PWR 323753	10.23 -0.10 -2.90	12.45 -0.15 -2.33	12.77 -0.14 -2.13	12.28 -0.14 -2.08	13.31 -0.14 -1.93	18.42 -0.25 -1.11	20.71 -0.20 -1.39	15.76 -0.04 -2.74	18.28 -0.08 -2.41	19.10 -0.16 -1.63	25.82 -0.23 -0.40	23.00 -0.27 -0.82	17.21 -0.27 -1.71	18.97 -0.26 -1.55	13.62 -0.20 -2.68	21.78 -0.30 -2.11	27.28 -0.28 -2.15	36.33 0.00 -2.16	38.38 0.11 -1.24	32.24 0.06 -1.64	29.97 0.14 -1.56	27.00 -0.03 -1.56	26.53 -0.10 -1.33	28.02 -0.03 -0.94
CORNELL____ 23752	15.04 0.18 -7.43	16.50 0.26 -5.97	16.48 0.26 -5.44	15.93 0.26 -5.33	16.72 0.26 -4.93	20.84 0.44 -2.86	23.56 0.49 -3.56	20.41 0.33 -7.03	22.44 0.32 -6.17	22.15 0.33 -4.19	27.14 0.46 -1.01	24.96 0.40 -2.11	20.43 0.28 -4.38	22.04 0.37 -3.98	18.26 0.26 -6.87	25.85 0.48 -5.40	31.53 0.61 -5.51	40.59 0.89 -5.54	41.21 1.00 -3.17	35.57 0.82 -4.21	33.00 0.73 -3.99	30.07 0.61 -3.99	29.23 0.51 -3.42	30.14 0.62 -2.40
CORONAAV_69_KV_TB1 355595	30.67 0.46 -22.77	29.16 0.59 -18.30	27.97 0.50 -16.69	27.14 0.46 -16.33	27.21 0.56 -15.12	27.27 0.97 -8.76	31.55 1.13 -10.90	35.34 0.74 -21.54	35.95 1.08 -18.90	31.71 1.25 -12.84	30.51 1.74 -3.11	30.47 1.55 -6.48	30.30 1.09 -13.45	31.14 1.26 -12.19	35.83 0.78 -23.91	39.80 1.46 -18.37	52.42 1.88 -25.12	67.78 2.46 -31.16	65.19 2.67 -25.49	62.61 2.26 -29.81	50.70 1.98 -20.45	51.55 1.86 -24.23	39.09 1.92 -11.87	36.35 1.87 -7.37
CORTLAND_115KV_TB3 80093	13.93 0.11 -6.38	15.56 0.16 -5.13	15.62 0.16 -4.68	15.09 0.17 -4.58	15.92 0.16 -4.24	20.28 0.28 -2.45	22.88 0.31 -3.05	19.29 0.20 -6.03	21.43 0.18 -5.30	21.41 0.19 -3.60	26.79 0.26 -0.87	24.51 0.25 -1.81	19.70 0.17 -3.76	21.33 0.23 -3.42	17.20 0.16 -5.90	24.89 0.28 -4.64	30.50 0.36 -4.73	39.43 0.51 -4.76	40.31 0.56 -2.73	34.61 0.46 -3.62	32.09 0.40 -3.43	29.22 0.33 -3.43	28.49 0.25 -2.94	29.53 0.35 -2.06



COXSACKIE___GT 23611	34.07 0.54 -26.10	32.01 0.76 -20.98	30.67 0.77 -19.13	29.81 0.75 -18.72	29.69 0.84 -17.33	28.78 1.19 -10.04	33.24 1.23 -12.49	38.45 0.70 -24.69	38.50 0.88 -21.67	33.23 0.90 -14.71	30.35 1.13 -3.56	30.84 0.96 -7.42	31.75 0.58 -15.40	32.39 0.73 -13.98	35.71 0.45 -24.12	39.98 1.04 -18.97	46.42 1.65 -19.35	56.06 2.43 -19.47	50.70 2.52 -11.15	47.32 1.98 -14.80	44.31 2.01 -14.03	41.19 1.71 -14.02	38.88 1.57 -12.01	37.18 1.63 -8.44
CPV_VALLEY___CC1 323721	27.72 0.17 -20.11	26.66 0.23 -16.17	25.72 0.19 -14.74	24.95 0.18 -14.43	25.08 0.21 -13.35	25.63 0.35 -7.73	29.57 0.43 -9.63	32.38 0.30 -19.02	33.03 0.38 -16.70	29.40 0.44 -11.34	29.02 0.61 -2.74	28.73 0.56 -5.72	28.04 0.41 -11.87	28.92 0.46 -10.77	30.05 0.32 -18.59	35.19 0.60 -14.62	41.09 0.76 -14.91	50.19 1.02 -15.01	46.74 1.11 -8.59	42.89 0.95 -11.41	39.87 0.79 -10.81	37.03 0.76 -10.80	35.32 0.76 -9.26	34.21 0.60 -6.51
CPV_VALLEY___CC2 323722	27.72 0.17 -20.11	26.66 0.23 -16.17	25.72 0.19 -14.74	24.95 0.18 -14.43	25.08 0.21 -13.35	25.63 0.35 -7.73	29.57 0.43 -9.63	32.38 0.30 -19.02	33.03 0.38 -16.70	29.40 0.44 -11.34	29.02 0.61 -2.74	28.73 0.56 -5.72	28.04 0.41 -11.87	28.92 0.46 -10.77	30.05 0.32 -18.59	35.19 0.60 -14.62	41.09 0.76 -14.91	50.19 1.02 -15.01	46.74 1.11 -8.59	42.89 0.95 -11.41	39.87 0.79 -10.81	37.03 0.76 -10.80	35.32 0.76 -9.26	34.21 0.60 -6.51
CRESCENT___HYD 24018	35.46 0.26 -27.77	32.96 0.37 -22.32	31.52 0.39 -20.35	30.63 0.37 -19.92	30.37 0.41 -18.44	28.87 0.65 -10.68	33.51 0.70 -13.29	39.78 0.46 -26.26	39.60 0.59 -23.05	33.91 0.63 -15.65	30.37 0.92 -3.79	31.15 0.81 -7.90	32.71 0.57 -16.38	33.19 0.64 -14.87	37.20 0.40 -25.66	40.93 0.78 -20.18	47.02 1.02 -20.59	56.25 1.37 -20.72	50.38 1.48 -11.86	47.44 1.16 -15.75	44.33 1.13 -14.93	41.37 0.99 -14.91	39.04 0.96 -12.78	37.07 0.97 -8.98
CRICKET___VALLEY_CC1 323756	31.57 0.26 -23.87	29.82 0.36 -19.19	28.62 0.34 -17.50	27.80 0.33 -17.12	27.74 0.37 -15.85	27.29 0.56 -9.18	31.53 0.58 -11.43	36.05 0.42 -22.58	36.30 0.53 -19.82	31.68 0.60 -13.45	29.84 0.92 -3.26	30.07 0.83 -6.79	30.46 0.61 -14.09	31.14 0.67 -12.78	33.64 0.43 -22.06	38.16 0.84 -17.35	44.13 1.02 -17.70	53.30 1.33 -17.81	48.72 1.48 -10.20	45.30 1.22 -13.54	42.18 1.07 -12.83	39.31 1.02 -12.82	37.38 1.09 -10.99	35.76 0.92 -7.72
CRICKET___VALLEY_CC2 323757	31.57 0.26 -23.87	29.82 0.36 -19.19	28.62 0.34 -17.50	27.80 0.33 -17.12	27.74 0.37 -15.85	27.29 0.56 -9.18	31.53 0.58 -11.43	36.05 0.42 -22.58	36.30 0.53 -19.82	31.68 0.60 -13.45	29.84 0.92 -3.26	30.07 0.83 -6.79	30.46 0.61 -14.09	31.14 0.67 -12.78	33.64 0.43 -22.06	38.16 0.84 -17.35	44.13 1.02 -17.70	53.30 1.33 -17.81	48.72 1.48 -10.20	45.30 1.22 -13.54	42.18 1.07 -12.83	39.31 1.02 -12.82	37.38 1.09 -10.99	35.76 0.92 -7.72
CRICKET___VALLEY_CC3 323758	31.57 0.26 -23.87	29.82 0.36 -19.19	28.62 0.34 -17.50	27.80 0.33 -17.12	27.74 0.37 -15.85	27.29 0.56 -9.18	31.53 0.58 -11.43	36.05 0.42 -22.58	36.30 0.53 -19.82	31.68 0.60 -13.45	29.84 0.92 -3.26	30.07 0.83 -6.79	30.46 0.61 -14.09	31.14 0.67 -12.78	33.64 0.43 -22.06	38.16 0.84 -17.35	44.13 1.02 -17.70	53.30 1.33 -17.81	48.72 1.48 -10.20	45.30 1.22 -13.54	42.18 1.07 -12.83	39.31 1.02 -12.82	37.38 1.09 -10.99	35.76 0.92 -7.72
CRUCIBLE_METL_DRP 24180	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
DAHOWA___HYDRO 323763	35.99 0.39 -28.16	33.45 0.54 -22.63	31.97 0.55 -20.64	31.07 0.53 -20.20	30.80 0.58 -18.70	29.25 0.88 -10.83	33.97 0.98 -13.48	40.34 0.65 -26.64	40.21 0.88 -23.38	34.38 0.88 -15.87	30.73 1.23 -3.84	31.49 1.03 -8.01	33.09 0.71 -16.62	33.58 0.81 -15.08	37.69 0.52 -26.02	41.43 1.00 -20.47	47.62 1.32 -20.88	57.02 1.84 -21.01	51.03 1.96 -12.03	48.06 1.56 -15.97	44.96 1.55 -15.14	41.86 1.27 -15.12	39.55 1.29 -12.96	37.69 1.46 -9.11
DANC___LFGE 323619	10.68 -0.10 -3.35	12.81 -0.14 -2.69	13.09 -0.14 -2.45	12.60 -0.14 -2.40	13.59 -0.15 -2.22	18.61 -0.23 -1.29	20.88 -0.23 -1.60	16.12 -0.10 -3.16	18.57 -0.16 -2.78	19.30 -0.21 -1.89	25.81 -0.31 -0.46	23.11 -0.29 -0.95	17.48 -0.25 -1.97	19.21 -0.26 -1.79	14.06 -0.18 -3.09	22.10 -0.30 -2.43	27.56 -0.33 -2.48	36.42 -0.24 -2.50	38.28 -0.18 -1.43	32.28 -0.15 -1.90	29.98 -0.08 -1.80	27.09 -0.18 -1.80	26.59 -0.25 -1.54	28.01 -0.19 -1.08
DANSKAMMER___1 23586	30.65 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.97 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.69 1.30 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.94 1.36 -12.31	39.04 1.27 -12.30	37.13 1.29 -10.54	35.63 1.11 -7.41
DANSKAMMER___2 23589	30.65 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.97 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.69 1.30 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.94 1.36 -12.31	39.04 1.27 -12.30	37.13 1.29 -10.54	35.63 1.11 -7.41
DANSKAMMER___3 23590	30.65 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.97 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.69 1.30 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.94 1.36 -12.31	39.04 1.27 -12.30	37.13 1.29 -10.54	35.63 1.11 -7.41
DANSKAMMER___4 23591	30.65 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.97 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.69 1.30 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.94 1.36 -12.31	39.04 1.27 -12.30	37.13 1.29 -10.54	35.63 1.11 -7.41
DANSKAMMER___DIESEL 23592	30.66 0.31 -22.91	29.09 0.41 -18.41	27.96 0.39 -16.79	27.14 0.36 -16.43	27.13 0.40 -15.21	27.00 0.65 -8.81	31.20 0.72 -10.97	35.21 0.48 -21.67	35.59 0.62 -19.01	31.22 0.69 -12.91	29.76 0.98 -3.13	29.86 0.90 -6.52	29.92 0.65 -13.52	30.68 0.73 -12.27	32.80 0.49 -21.17	37.58 0.96 -16.65	43.67 1.27 -16.99	52.96 1.71 -17.09	48.63 1.81 -9.79	45.05 1.53 -12.99	41.91 1.33 -12.31	39.04 1.27 -12.30	37.11 1.26 -10.54	35.63 1.11 -7.41



DARBY___SOLAR 323810	35.91 0.37 -28.10	33.37 0.51 -22.59	31.90 0.52 -20.60	31.00 0.50 -20.16	30.72 0.54 -18.66	29.20 0.84 -10.81	33.90 0.94 -13.45	40.25 0.61 -26.58	40.11 0.83 -23.33	34.31 0.85 -15.84	30.68 1.18 -3.83	31.45 1.01 -7.99	33.04 0.69 -16.58	33.53 0.80 -15.05	37.62 0.50 -25.97	41.35 0.96 -20.42	47.52 1.27 -20.84	56.87 1.74 -20.97	50.89 1.85 -12.01	47.94 1.47 -15.94	44.85 1.47 -15.11	41.78 1.22 -15.09	39.48 1.24 -12.94	37.59 1.38 -9.09
DASHVILLE___HYD 23610	31.37 0.21 -23.73	29.59 0.26 -19.07	28.41 0.24 -17.39	27.58 0.22 -17.02	27.52 0.24 -15.75	27.06 0.39 -9.12	31.28 0.41 -11.36	35.77 0.27 -22.44	36.02 0.37 -19.69	31.38 0.39 -13.37	29.46 0.56 -3.24	29.73 0.54 -6.75	30.16 0.39 -14.00	30.83 0.44 -12.70	33.38 0.31 -21.92	37.83 0.62 -17.24	43.84 0.84 -17.59	52.96 1.09 -17.70	48.35 1.19 -10.14	45.00 1.01 -13.46	41.90 0.88 -12.75	39.10 0.89 -12.74	37.11 0.89 -10.92	35.52 0.73 -7.68
DEERFIELD_69_KV_DEERFIELD LD 355887	31.01 0.80 -22.77	29.60 1.03 -18.30	28.39 0.92 -16.69	27.54 0.86 -16.33	27.70 1.06 -15.12	28.02 1.72 -8.76	32.37 1.95 -10.90	35.84 1.24 -21.54	36.66 1.80 -18.90	32.50 2.04 -12.84	31.64 2.87 -3.11	31.55 2.63 -6.48	31.06 1.84 -13.45	31.97 2.09 -12.19	36.39 1.34 -23.91	40.82 2.48 -18.37	53.92 3.38 -25.12	69.93 4.61 -31.16	67.45 4.93 -25.49	64.44 4.09 -29.81	52.34 3.62 -20.45	53.06 3.36 -24.23	40.49 3.31 -11.87	37.79 3.31 -7.37
DELAWARE___LFGE 323621	19.54 0.21 -11.90	20.11 0.28 -9.56	19.80 0.30 -8.72	19.16 0.28 -8.53	19.73 0.31 -7.90	22.60 0.47 -4.57	25.75 0.55 -5.70	24.68 0.37 -11.25	26.28 0.45 -9.88	24.81 0.48 -6.71	27.98 0.69 -1.62	26.46 0.63 -3.38	23.21 0.43 -7.02	24.55 0.50 -6.37	22.47 0.33 -11.00	29.24 0.62 -8.65	35.02 0.79 -8.82	44.17 1.13 -8.88	43.34 1.22 -5.08	38.32 1.04 -6.75	35.57 0.90 -6.40	32.67 0.81 -6.39	31.54 0.76 -5.48	31.72 0.76 -3.85
DERFIELD_115KV_TB7 355931	8.14 -0.02 -0.72	10.82 -0.03 -0.58	11.29 -0.02 -0.53	10.84 -0.02 -0.52	11.99 -0.01 -0.48	17.79 -0.04 -0.28	19.84 -0.02 -0.35	13.74 0.00 -0.68	16.57 0.02 -0.60	18.05 0.02 -0.41	25.78 0.03 -0.10	22.65 0.00 -0.21	16.17 -0.02 -0.43	18.04 -0.04 -0.39	11.78 -0.03 -0.67	20.46 -0.04 -0.53	25.92 -0.03 -0.54	34.70 0.00 -0.54	37.34 0.00 -0.31	30.91 -0.03 -0.41	28.66 0.00 -0.39	25.85 0.00 -0.39	25.66 0.03 -0.33	27.37 0.03 -0.23
DOGLEVILLE___HYD 23807	8.30 0.14 -0.72	11.04 0.19 -0.58	11.53 0.22 -0.53	11.07 0.21 -0.52	12.27 0.27 -0.48	18.23 0.40 -0.28	20.35 0.49 -0.35	14.09 0.35 -0.68	16.97 0.41 -0.60	18.44 0.41 -0.41	26.35 0.59 -0.10	23.12 0.47 -0.21	16.49 0.30 -0.43	18.39 0.32 -0.39	11.99 0.18 -0.67	20.84 0.34 -0.53	26.46 0.51 -0.54	35.49 0.79 -0.54	38.23 0.89 -0.31	31.67 0.73 -0.41	29.33 0.68 -0.39	26.52 0.66 -0.39	26.29 0.66 -0.33	28.10 0.76 -0.23
DUNKIRK___115KV_TB_200 55889	13.87 0.12 -6.31	15.52 0.17 -5.08	15.58 0.17 -4.63	15.04 0.17 -4.53	15.85 0.14 -4.19	20.26 0.28 -2.43	22.67 0.14 -3.02	18.91 -0.12 -5.97	20.86 -0.34 -5.24	20.78 -0.41 -3.56	25.83 -0.69 -0.86	23.68 -0.56 -1.80	19.19 -0.30 -3.73	20.73 -0.34 -3.38	16.81 -0.17 -5.84	24.06 -0.50 -4.59	29.49 -0.61 -4.68	37.92 -0.96 -4.71	38.66 -1.07 -2.70	33.32 -0.79 -3.58	30.93 -0.73 -3.39	28.17 -0.69 -3.39	27.57 -0.63 -2.91	28.75 -0.41 -2.04
DUNKIRK___1 23563	13.87 0.12 -6.31	15.52 0.17 -5.08	15.58 0.17 -4.63	15.04 0.17 -4.53	15.85 0.14 -4.19	20.26 0.28 -2.43	22.67 0.14 -3.02	18.91 -0.12 -5.97	20.86 -0.34 -5.24	20.78 -0.41 -3.56	25.83 -0.69 -0.86	23.68 -0.56 -1.80	19.19 -0.30 -3.73	20.73 -0.34 -3.38	16.81 -0.17 -5.84	24.06 -0.50 -4.59	29.49 -0.61 -4.68	37.92 -0.96 -4.71	38.66 -1.07 -2.70	33.32 -0.79 -3.58	30.93 -0.73 -3.39	28.17 -0.69 -3.39	27.57 -0.63 -2.91	28.75 -0.41 -2.04
DUNKIRK___2 23564	13.87 0.12 -6.31	15.52 0.17 -5.08	15.58 0.17 -4.63	15.04 0.17 -4.53	15.85 0.14 -4.19	20.26 0.28 -2.43	22.67 0.14 -3.02	18.91 -0.12 -5.97	20.86 -0.34 -5.24	20.78 -0.41 -3.56	25.83 -0.69 -0.86	23.68 -0.56 -1.80	19.19 -0.30 -3.73	20.73 -0.34 -3.38	16.81 -0.17 -5.84	24.06 -0.50 -4.59	29.49 -0.61 -4.68	37.92 -0.96 -4.71	38.66 -1.07 -2.70	33.32 -0.79 -3.58	30.93 -0.73 -3.39	28.17 -0.69 -3.39	27.57 -0.63 -2.91	28.75 -0.41 -2.04
DUNKIRK___3 23565	13.84 0.07 -6.33	15.47 0.11 -5.09	15.52 0.10 -4.64	14.99 0.10 -4.54	15.79 0.07 -4.20	20.14 0.16 -2.43	22.56 0.02 -3.03	18.85 -0.20 -5.98	20.76 -0.45 -5.25	20.68 -0.51 -3.57	25.65 -0.87 -0.86	23.55 -0.70 -1.80	19.10 -0.39 -3.73	20.61 -0.46 -3.39	16.76 -0.23 -5.85	23.93 -0.64 -4.60	29.32 -0.79 -4.69	37.69 -1.20 -4.72	38.40 -1.33 -2.70	33.14 -0.98 -3.59	30.77 -0.90 -3.40	28.02 -0.84 -3.40	27.43 -0.78 -2.91	28.56 -0.60 -2.05
DUNKIRK___4 23566	13.77 0.09 -6.24	15.42 0.13 -5.02	15.49 0.13 -4.58	14.95 0.12 -4.48	15.76 0.09 -4.15	20.14 0.19 -2.40	22.54 0.04 -2.99	18.78 -0.18 -5.90	20.72 -0.41 -5.18	20.65 -0.49 -3.52	25.69 -0.82 -0.85	23.57 -0.65 -1.78	19.07 -0.38 -3.68	20.60 -0.42 -3.34	16.69 -0.22 -5.77	23.91 -0.60 -4.54	29.30 -0.74 -4.63	37.69 -1.13 -4.66	38.44 -1.26 -2.67	33.13 -0.95 -3.54	30.75 -0.88 -3.36	28.00 -0.81 -3.35	27.41 -0.76 -2.87	28.59 -0.54 -2.02
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	30.49 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.99 0.31 -16.33	26.99 0.35 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.64 1.35 -16.89	52.86 1.71 -16.99	48.65 1.89 -9.73	45.06 1.62 -12.91	41.89 1.39 -12.24	38.99 1.30 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	29.97 0.25 -22.28	28.51 0.33 -17.91	27.41 0.30 -16.33	26.61 0.28 -15.98	26.64 0.32 -14.80	26.64 0.53 -8.57	30.79 0.60 -10.67	34.54 0.40 -21.08	34.98 0.53 -18.50	30.78 0.60 -12.56	29.52 0.82 -3.04	29.55 0.76 -6.34	29.46 0.55 -13.15	30.24 0.62 -11.93	32.15 0.41 -20.59	36.97 0.80 -16.20	43.01 1.07 -16.53	52.19 1.40 -16.63	48.07 1.52 -9.52	44.45 1.28 -12.64	41.35 1.10 -11.98	38.50 1.07 -11.97	36.62 1.06 -10.26	35.24 0.92 -7.21
E179THST_138_KV_TB4_REV_LBMP_J 345001	30.51 0.30 -22.77	28.99 0.42 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.10 0.68 -10.90	35.05 0.46 -21.54	35.48 0.62 -18.90	31.18 0.72 -12.83	29.79 1.03 -3.11	29.84 0.92 -6.48	29.89 0.69 -13.44	30.64 0.76 -12.19	32.69 0.50 -21.04	37.50 0.98 -16.55	43.54 1.25 -16.89	52.76 1.61 -16.99	48.58 1.81 -9.73	45.00 1.56 -12.91	41.72 1.22 -12.24	38.94 1.25 -12.23	37.15 1.37 -10.48	35.67 1.19 -7.37
E179THST_13_KV_LOAD 356214	30.53 0.33 -22.77	29.03 0.46 -18.30	27.87 0.40 -16.69	27.03 0.35 -16.33	27.04 0.40 -15.12	27.02 0.72 -8.76	31.17 0.76 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.72 1.96 -9.73	45.16 1.71 -12.91	41.87 1.36 -12.24	39.07 1.38 -12.23	37.25 1.47 -10.48	35.78 1.30 -7.37



EAST HAMPTON___GT 23717	31.09 0.88 -22.77	29.70 1.13 -18.30	28.50 1.02 -16.69	27.63 0.95 -16.33	27.82 1.18 -15.12	28.20 1.90 -8.76	32.56 2.15 -10.90	35.97 1.37 -21.54	36.84 1.98 -18.90	32.72 2.26 -12.84	31.96 3.18 -3.12	31.92 2.99 -6.49	31.30 2.08 -13.45	32.26 2.37 -12.20	36.60 1.55 -23.91	41.18 2.83 -18.37	54.37 3.84 -25.12	70.58 5.26 -31.16	68.15 5.63 -25.49	65.05 4.70 -29.81	52.85 4.13 -20.45	53.46 3.77 -24.23	40.96 3.79 -11.87	38.07 3.58 -7.38
EAST RIVER___6 23660	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.92 0.28 -15.12	26.86 0.56 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.87 1.10 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.81 1.30 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
EAST RIVER___7 23524	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.92 0.28 -15.12	26.86 0.56 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.87 1.10 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.81 1.30 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	30.44 0.28 -22.73	28.90 0.36 -18.27	27.77 0.33 -16.66	26.95 0.30 -16.30	26.96 0.35 -15.09	26.90 0.61 -8.74	31.12 0.72 -10.88	35.07 0.51 -21.50	35.49 0.67 -18.87	31.19 0.76 -12.81	29.84 1.08 -3.10	29.88 0.97 -6.47	29.88 0.71 -13.41	30.65 0.80 -12.17	32.67 0.52 -21.01	37.49 1.00 -16.52	43.56 1.30 -16.86	52.79 1.67 -16.96	48.56 1.81 -9.71	44.98 1.56 -12.89	41.82 1.33 -12.22	38.92 1.25 -12.21	37.03 1.26 -10.46	35.55 1.08 -7.35
EAST_HAMPTON___DIESEL 23722	31.09 0.88 -22.77	29.70 1.13 -18.30	28.50 1.02 -16.69	27.64 0.96 -16.33	27.82 1.18 -15.12	28.20 1.90 -8.76	32.56 2.15 -10.90	35.97 1.37 -21.54	36.84 1.98 -18.90	32.72 2.26 -12.84	31.98 3.21 -3.12	31.94 3.01 -6.49	31.30 2.08 -13.45	32.26 2.37 -12.20	36.60 1.55 -23.91	41.18 2.83 -18.37	54.37 3.84 -25.12	70.58 5.26 -31.16	68.19 5.67 -25.49	65.05 4.70 -29.81	52.85 4.13 -20.45	53.49 3.80 -24.23	40.99 3.82 -11.87	38.07 3.58 -7.38
EAST_PULASKI___ESR 323781	11.12 -0.08 -3.76	13.18 -0.11 -3.02	13.42 -0.12 -2.76	12.93 -0.11 -2.70	13.89 -0.13 -2.50	18.82 -0.18 -1.45	21.10 -0.21 -1.80	16.48 -0.13 -3.56	18.89 -0.19 -3.12	19.53 -0.21 -2.12	25.87 -0.31 -0.51	23.25 -0.27 -1.07	17.78 -0.20 -2.22	19.49 -0.21 -2.01	14.49 -0.13 -3.48	22.46 -0.24 -2.73	27.87 -0.33 -2.79	36.63 -0.34 -2.81	38.31 -0.33 -1.61	32.39 -0.27 -2.13	30.06 -0.23 -2.02	27.23 -0.25 -2.02	26.70 -0.33 -1.73	28.06 -0.27 -1.22
EAST_RIVER___1 323558	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.95 0.31 -15.12	26.90 0.60 -8.75	31.13 0.72 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.89 1.13 -3.11	29.91 0.99 -6.48	29.94 0.74 -13.43	30.69 0.81 -12.19	32.73 0.55 -21.04	37.58 1.06 -16.55	43.62 1.32 -16.88	52.82 1.67 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.31 -10.48	35.56 1.09 -7.37
EAST_RIVER___2 323559	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.92 0.28 -15.12	26.86 0.56 -8.75	31.11 0.70 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.87 1.10 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.81 1.30 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.53 1.06 -7.37
EAST___DELAWARE_HYD 23607	28.51 0.08 -20.99	27.23 0.09 -16.87	26.21 0.04 -15.38	25.43 0.03 -15.06	25.50 0.05 -13.94	25.71 0.09 -8.07	29.68 0.12 -10.05	32.99 0.08 -19.85	33.49 0.11 -17.42	29.56 0.11 -11.83	28.65 0.13 -2.86	28.58 0.16 -5.97	28.26 0.11 -12.38	29.07 0.14 -11.24	30.68 0.13 -19.40	35.01 -0.22 -15.25	40.80 -0.18 -15.57	49.62 -0.20 -15.66	45.74 -0.26 -8.97	42.29 -0.15 -11.90	39.30 -0.25 -11.28	37.30 0.56 -11.27	35.52 0.56 -9.66	34.20 0.30 -6.79
EIGHT_POINT___WT_PWR 323820	14.74 0.12 -7.19	16.24 0.19 -5.78	16.24 0.19 -5.27	15.72 0.22 -5.16	16.47 0.17 -4.77	20.66 0.35 -2.76	23.25 0.29 -3.44	19.93 0.08 -6.80	21.83 -0.10 -5.97	21.53 -0.14 -4.05	26.31 -0.33 -0.98	24.22 -0.27 -2.04	19.86 -0.14 -4.24	21.41 -0.12 -3.85	17.74 -0.04 -6.64	25.03 -0.16 -5.22	30.57 -0.18 -5.33	39.25 -0.27 -5.36	39.81 -0.30 -3.07	34.43 -0.18 -4.08	31.96 -0.17 -3.86	29.15 -0.18 -3.86	28.36 -0.25 -3.31	29.46 0.03 -2.33
ELBRIDGE_115KV_TB2 80188	12.25 -0.01 -4.82	14.14 0.00 -3.87	14.30 -0.01 -3.53	13.80 0.00 -3.45	14.71 -0.01 -3.20	19.40 0.00 -1.85	21.80 -0.02 -2.31	17.57 -0.04 -4.56	19.87 -0.08 -4.00	20.25 -0.09 -2.71	26.19 -0.13 -0.66	23.73 -0.09 -1.37	18.56 -0.05 -2.84	20.25 -0.02 -2.58	15.59 0.00 -4.45	23.43 -0.04 -3.50	28.91 -0.08 -3.57	37.62 -0.14 -3.59	38.94 -0.15 -2.06	33.14 -0.12 -2.73	30.72 -0.14 -2.59	27.93 -0.13 -2.59	27.34 -0.18 -2.22	28.56 -0.11 -1.56
ELEC_TRO_TEK 24086	30.63 0.42 -22.77	29.11 0.53 -18.30	27.92 0.45 -16.69	27.08 0.40 -16.33	27.15 0.51 -15.12	27.18 0.88 -8.76	31.45 1.03 -10.90	35.28 0.68 -21.54	35.88 1.02 -18.90	31.62 1.16 -12.84	30.38 1.62 -3.11	30.36 1.44 -6.48	30.22 1.01 -13.45	31.03 1.15 -12.19	35.77 0.72 -23.91	39.68 1.34 -18.37	52.26 1.73 -25.12	67.58 2.25 -31.16	64.96 2.44 -25.49	62.42 2.08 -29.81	50.53 1.81 -20.45	51.40 1.71 -24.23	38.92 1.75 -11.87	36.19 1.71 -7.37
ELLENBURG_WT_PWR 323604	7.73 -0.64 -0.93	10.02 -1.00 -0.75	10.54 -0.93 -0.68	10.05 -0.96 -0.67	11.31 -0.83 -0.62	16.11 -1.79 -0.36	18.30 -1.66 -0.44	13.16 -0.77 -0.88	15.98 -0.75 -0.77	17.30 -0.85 -0.52	24.81 -0.98 -0.13	21.50 -1.21 -0.26	15.25 -1.06 -0.55	16.88 -1.31 -0.50	10.95 -1.05 -0.86	18.91 -1.74 -0.67	24.25 -1.85 -0.69	32.84 -2.02 -0.69	35.73 -1.70 -0.40	29.20 -1.86 -0.53	27.44 -1.33 -0.50	24.54 -1.43 -0.50	24.69 -1.04 -0.43	26.57 -0.84 -0.30
ELM_ST_23_KV_LD_REV_LBMP_A 345012	13.58 0.03 -6.11	15.23 0.05 -4.91	15.30 0.04 -4.48	14.77 0.04 -4.38	15.57 -0.01 -4.06	19.95 0.05 -2.35	22.26 -0.18 -2.92	18.48 -0.35 -5.78	20.41 -0.62 -5.07	20.36 -0.71 -3.44	25.39 -1.10 -0.83	23.31 -0.88 -1.74	18.83 -0.54 -3.61	20.37 -0.58 -3.27	16.47 -0.32 -5.65	23.61 -0.80 -4.44	28.93 -1.02 -4.53	37.11 -1.61 -4.56	37.87 -1.78 -2.61	32.65 -1.34 -3.47	30.34 -1.22 -3.28	27.63 -1.12 -3.28	27.05 -1.06 -2.81	28.25 -0.84 -1.98
EMPIRE_CC_1 323656	34.14 0.16 -26.54	31.86 0.26 -21.33	30.50 0.27 -19.45	29.65 0.27 -19.04	29.44 0.30 -17.62	28.21 0.46 -10.20	32.71 0.49 -12.71	38.42 0.26 -25.10	38.32 0.34 -22.03	32.95 0.37 -14.96	29.87 0.59 -3.62	30.51 0.52 -7.55	31.79 0.36 -15.66	32.30 0.41 -14.21	35.91 0.24 -24.53	39.76 0.50 -19.29	45.73 0.64 -19.68	54.82 0.85 -19.80	49.30 0.93 -11.34	46.32 0.73 -15.05	43.24 0.71 -14.27	40.36 0.64 -14.25	38.12 0.61 -12.22	36.32 0.62 -8.59



EMPIRE_CC_2 323658	34.14 0.16 -26.54	31.86 0.26 -21.33	30.50 0.27 -19.45	29.65 0.27 -19.04	29.44 0.30 -17.62	28.21 0.46 -10.20	32.71 0.49 -12.71	38.42 0.26 -25.10	38.32 0.34 -22.03	32.95 0.37 -14.96	29.87 0.59 -3.62	30.51 0.52 -7.55	31.79 0.36 -15.66	32.30 0.41 -14.21	35.91 0.24 -24.53	39.76 0.50 -19.29	45.73 0.64 -19.68	54.82 0.85 -19.80	49.30 0.93 -11.34	46.32 0.73 -15.05	43.24 0.71 -14.27	40.36 0.64 -14.25	38.12 0.61 -12.22	36.32 0.62 -8.59
ENORWICH_115KV_TB1 80156	17.30 0.51 -9.35	18.50 0.71 -7.52	18.39 0.75 -6.85	17.77 0.71 -6.71	18.53 0.79 -6.21	22.42 1.28 -3.60	25.47 1.48 -4.48	22.93 1.03 -8.85	24.84 1.12 -7.76	24.06 1.16 -5.27	28.55 1.62 -1.28	26.52 1.41 -2.66	22.18 0.90 -5.52	23.77 1.08 -5.01	20.51 0.72 -8.64	28.17 1.40 -6.80	34.30 1.96 -6.94	44.18 3.04 -6.98	44.36 3.33 -4.00	38.62 2.78 -5.30	35.76 2.46 -5.03	32.60 2.11 -5.02	31.53 1.92 -4.31	32.28 2.14 -3.03
ERIE_ST__34_KV_TB1-2 80199	13.62 -0.03 -6.21	15.22 -0.04 -4.99	15.28 -0.05 -4.55	14.75 -0.05 -4.46	15.54 -0.10 -4.12	19.85 -0.09 -2.39	22.21 -0.27 -2.97	18.54 -0.39 -5.88	20.46 -0.65 -5.16	20.37 -0.76 -3.50	25.33 -1.18 -0.85	23.27 -0.94 -1.77	18.85 -0.58 -3.67	20.36 -0.65 -3.33	16.53 -0.36 -5.74	23.63 -0.86 -4.51	28.95 -1.07 -4.61	37.23 -1.57 -4.63	37.95 -1.74 -2.65	32.71 -1.34 -3.52	30.36 -1.24 -3.34	27.63 -1.17 -3.34	27.02 -1.14 -2.86	28.15 -0.98 -2.01
ERIE_WT_PWR 323693	13.67 0.05 -6.18	15.32 0.08 -4.96	15.37 0.07 -4.53	14.84 0.06 -4.43	15.62 0.00 -4.10	20.01 0.09 -2.37	22.37 -0.10 -2.96	18.61 -0.29 -5.84	20.54 -0.54 -5.13	20.49 -0.62 -3.48	25.50 -1.00 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.48 -0.51 -3.31	16.55 -0.30 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.30 -1.47 -4.61	38.08 -1.59 -2.64	32.84 -1.19 -3.50	30.51 -1.07 -3.32	27.76 -1.02 -3.32	27.16 -0.99 -2.84	28.38 -0.73 -2.00
ESPRGFLD_115KV_TB1 80157	6.84 0.25 0.85	9.92 0.34 0.69	10.50 0.35 0.63	10.07 0.33 0.61	11.32 0.37 0.57	17.82 0.60 0.33	19.83 0.72 0.41	12.76 0.51 0.81	15.89 0.64 0.71	17.80 0.65 0.48	26.47 0.92 0.12	22.99 0.79 0.24	15.73 0.47 0.50	17.80 0.57 0.46	10.77 0.41 0.79	20.15 0.80 0.62	25.87 1.09 0.63	35.20 1.67 0.64	38.45 1.78 0.36	31.51 1.47 0.48	29.17 1.36 0.46	26.21 1.20 0.46	25.97 1.06 0.39	27.89 1.06 0.28
ETNA_115_KV_TB1_REV_LBMP_C 345029	15.03 0.17 -7.42	16.48 0.25 -5.96	16.46 0.24 -5.44	15.91 0.24 -5.32	16.69 0.24 -4.93	20.82 0.42 -2.85	23.53 0.47 -3.55	20.37 0.30 -7.02	22.40 0.29 -6.16	22.11 0.30 -4.18	27.08 0.41 -1.01	24.94 0.38 -2.11	20.41 0.27 -4.38	21.99 0.34 -3.97	18.23 0.23 -6.86	25.80 0.44 -5.39	31.50 0.58 -5.50	40.52 0.82 -5.53	41.13 0.93 -3.17	35.50 0.76 -4.21	32.93 0.68 -3.99	30.01 0.56 -3.98	29.19 0.48 -3.41	30.11 0.60 -2.40
ETNA_____115KV_TB2 80207	15.03 0.17 -7.42	16.48 0.25 -5.96	16.46 0.24 -5.44	15.91 0.24 -5.32	16.69 0.24 -4.93	20.82 0.42 -2.85	23.53 0.47 -3.55	20.37 0.30 -7.02	22.40 0.29 -6.16	22.11 0.30 -4.18	27.08 0.41 -1.01	24.94 0.38 -2.11	20.41 0.27 -4.38	21.99 0.34 -3.97	18.23 0.23 -6.86	25.80 0.44 -5.39	31.50 0.58 -5.50	40.52 0.82 -5.53	41.13 0.93 -3.17	35.50 0.76 -4.21	32.93 0.68 -3.99	30.01 0.56 -3.98	29.19 0.48 -3.41	30.11 0.60 -2.40
EUCLID__115KV_TB2 356179	11.70 -0.05 -4.32	13.68 -0.06 -3.47	13.87 -0.08 -3.16	13.38 -0.06 -3.10	14.30 -0.09 -2.87	19.09 -0.12 -1.66	21.42 -0.16 -2.07	17.02 -0.12 -4.08	19.37 -0.18 -3.59	19.87 -0.19 -2.43	25.97 -0.28 -0.59	23.45 -0.22 -1.23	18.17 -0.14 -2.55	19.86 -0.14 -2.31	15.06 -0.08 -3.99	22.93 -0.18 -3.14	28.36 -0.25 -3.20	37.01 -0.38 -3.22	38.43 -0.44 -1.84	32.65 -0.34 -2.45	30.25 -0.34 -2.32	27.48 -0.31 -2.32	26.96 -0.33 -1.99	28.24 -0.27 -1.40
E_CANADA_CAP_HY 24051	42.49 0.27 -34.78	38.59 0.36 -27.96	36.63 0.36 -25.49	35.64 0.34 -24.95	35.00 0.38 -23.10	31.54 0.61 -13.37	36.91 0.74 -16.65	46.49 0.54 -32.90	45.53 0.70 -28.87	37.92 0.69 -19.60	31.36 0.95 -4.75	33.11 0.76 -9.90	36.70 0.41 -20.52	36.81 0.49 -18.63	43.67 0.38 -32.15	46.03 0.78 -25.28	52.32 1.12 -25.79	61.86 1.74 -25.95	53.74 1.85 -14.86	51.73 1.47 -19.73	48.38 1.41 -18.70	45.42 1.27 -18.68	42.45 1.14 -16.01	39.50 1.14 -11.25
E_CANADA_MHWK_HY 24050	8.30 0.14 -0.72	11.04 0.19 -0.58	11.53 0.22 -0.53	11.07 0.21 -0.52	12.27 0.27 -0.48	18.23 0.40 -0.28	20.35 0.49 -0.35	14.09 0.35 -0.68	16.97 0.41 -0.60	18.44 0.41 -0.41	26.35 0.59 -0.10	23.12 0.47 -0.21	16.49 0.30 -0.43	18.39 0.32 -0.39	11.99 0.18 -0.67	20.84 0.34 -0.53	26.46 0.51 -0.54	35.49 0.79 -0.54	38.23 0.89 -0.31	31.67 0.73 -0.41	29.33 0.68 -0.39	26.52 0.66 -0.39	26.29 0.66 -0.33	28.10 0.76 -0.23
E_FISHKILL__LBMP 23776	30.84 0.25 -23.15	29.22 0.34 -18.61	28.07 0.32 -16.97	27.25 0.30 -16.61	27.23 0.33 -15.37	27.01 0.56 -8.90	31.24 0.64 -11.08	35.40 0.44 -21.90	35.76 0.59 -19.22	31.34 0.67 -13.05	29.77 0.95 -3.16	29.89 0.85 -6.59	30.05 0.63 -13.66	30.79 0.71 -12.40	32.99 0.46 -21.39	37.67 0.88 -16.83	43.70 1.12 -17.17	52.90 1.47 -17.27	48.52 1.59 -9.89	45.01 1.34 -13.13	41.87 1.16 -12.44	38.99 1.10 -12.43	37.07 1.11 -10.66	35.58 0.98 -7.49
FALCON__SEABRD_CC1 323796	7.82 -0.55 -0.93	10.16 -0.86 -0.75	10.67 -0.80 -0.68	10.19 -0.83 -0.67	11.44 -0.70 -0.62	16.33 -1.58 -0.36	18.54 -1.42 -0.45	13.34 -0.60 -0.88	16.20 -0.53 -0.77	17.53 -0.62 -0.53	25.15 -0.64 -0.13	21.81 -0.90 -0.27	15.46 -0.85 -0.55	17.13 -1.06 -0.50	11.10 -0.90 -0.86	19.17 -1.48 -0.68	24.60 -1.50 -0.69	33.36 -1.50 -0.70	36.25 -1.19 -0.40	29.63 -1.43 -0.53	27.84 -0.93 -0.50	24.87 -1.09 -0.50	24.99 -0.73 -0.43	26.90 -0.52 -0.30
FALCON__SEABRD_CC2 323797	7.82 -0.55 -0.93	10.16 -0.86 -0.75	10.67 -0.80 -0.68	10.19 -0.83 -0.67	11.44 -0.70 -0.62	16.33 -1.58 -0.36	18.54 -1.42 -0.45	13.34 -0.60 -0.88	16.20 -0.53 -0.77	17.53 -0.62 -0.53	25.15 -0.64 -0.13	21.81 -0.90 -0.27	15.46 -0.85 -0.55	17.13 -1.06 -0.50	11.10 -0.90 -0.86	19.17 -1.48 -0.68	24.60 -1.50 -0.69	33.36 -1.50 -0.70	36.25 -1.19 -0.40	29.63 -1.43 -0.53	27.84 -0.93 -0.50	24.87 -1.09 -0.50	24.99 -0.73 -0.43	26.90 -0.52 -0.30
FAR ROCKAWAY__4 23548	30.73 0.52 -22.77	29.23 0.66 -18.30	28.04 0.57 -16.69	27.20 0.52 -16.33	27.29 0.65 -15.12	27.39 1.09 -8.76	31.68 1.27 -10.90	35.42 0.82 -21.54	36.07 1.21 -18.90	31.85 1.39 -12.84	30.72 1.95 -3.11	30.65 1.73 -6.48	30.44 1.23 -13.45	31.28 1.40 -12.19	35.93 0.88 -23.91	39.98 1.64 -18.37	52.64 2.11 -25.12	68.12 2.80 -31.16	65.56 3.04 -25.49	62.91 2.56 -29.81	50.98 2.26 -20.45	51.78 2.09 -24.23	39.32 2.15 -11.87	36.59 2.11 -7.37
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37



FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	30.47 0.27 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.90 0.60 -8.75	31.13 0.72 -10.90	35.11 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.88	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
FARRAGUT___LBMP 323566	30.47 0.27 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.95 0.31 -15.12	26.90 0.60 -8.75	31.13 0.72 -10.90	35.11 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.87 1.10 -3.11	29.91 0.99 -6.48	29.92 0.73 -13.43	30.69 0.81 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
FENNER___WINDPWR 24204	12.15 0.13 -4.58	14.15 0.19 -3.68	14.34 0.20 -3.36	13.83 0.20 -3.29	14.78 0.22 -3.04	19.66 0.35 -1.76	22.12 0.41 -2.19	17.68 0.29 -4.33	20.08 0.32 -3.80	20.54 0.33 -2.58	26.77 0.49 -0.63	24.18 0.43 -1.30	18.75 0.28 -2.70	20.48 0.34 -2.45	15.59 0.21 -4.24	23.68 0.38 -3.33	29.32 0.51 -3.40	38.37 0.79 -3.42	39.84 0.85 -1.96	33.80 0.67 -2.60	31.35 0.62 -2.46	28.44 0.51 -2.46	27.84 0.43 -2.11	29.14 0.54 -1.48
FIBERTEK___ENERGY 23856	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
FITZPATRICK____ 23598	10.69 -0.16 -3.41	12.81 -0.21 -2.74	13.06 -0.23 -2.50	12.58 -0.22 -2.45	13.54 -0.25 -2.27	18.49 -0.37 -1.31	20.72 -0.43 -1.63	15.99 -0.30 -3.23	18.39 -0.40 -2.83	19.13 -0.42 -1.92	25.51 -0.62 -0.47	22.88 -0.54 -0.97	17.42 -0.36 -2.01	19.13 -0.39 -1.83	14.05 -0.25 -3.16	21.97 -0.48 -2.48	27.31 -0.63 -2.53	35.82 -0.89 -2.55	37.53 -0.96 -1.46	31.68 -0.79 -1.94	29.37 -0.74 -1.84	26.64 -0.66 -1.83	26.19 -0.68 -1.57	27.57 -0.65 -1.10
FLOWRFLD_69_KV_BK1 356044	30.82 0.61 -22.77	29.34 0.77 -18.30	28.13 0.66 -16.69	27.29 0.61 -16.33	27.41 0.77 -15.12	27.59 1.28 -8.76	31.90 1.48 -10.90	35.55 0.95 -21.54	36.28 1.42 -18.90	32.06 1.60 -12.84	31.00 2.23 -3.11	30.92 2.00 -6.48	30.62 1.40 -13.45	31.49 1.61 -12.19	36.06 1.01 -23.91	40.24 1.90 -18.37	53.13 2.59 -25.12	68.74 3.42 -31.16	66.22 3.70 -25.49	63.46 3.11 -29.81	51.46 2.74 -20.45	52.22 2.52 -24.23	39.70 2.53 -11.87	37.00 2.52 -7.37
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	30.72 0.33 -22.96	29.16 0.43 -18.45	28.01 0.40 -16.83	27.19 0.37 -16.47	27.18 0.41 -15.25	27.04 0.67 -8.83	31.25 0.74 -10.99	35.27 0.50 -21.72	35.67 0.65 -19.06	31.29 0.72 -12.94	29.79 1.00 -3.13	29.90 0.92 -6.53	29.97 0.66 -13.55	30.74 0.76 -12.29	32.86 0.50 -21.22	37.66 1.00 -16.69	43.76 1.32 -17.03	53.03 1.74 -17.13	48.73 1.89 -9.81	45.14 1.59 -13.02	42.00 1.39 -12.34	39.12 1.32 -12.33	37.18 1.32 -10.57	35.71 1.17 -7.43
FORT ORANGE____ 23900	34.93 0.21 -27.29	32.52 0.32 -21.93	31.12 0.34 -20.00	30.25 0.33 -19.57	30.01 0.37 -18.12	28.56 0.53 -10.49	33.14 0.57 -13.06	39.19 0.33 -25.81	39.02 0.41 -22.65	33.50 0.49 -15.38	30.05 0.67 -3.72	30.77 0.56 -7.76	32.23 0.36 -16.10	32.72 0.42 -14.61	36.59 0.23 -25.22	40.26 0.46 -19.83	46.28 0.64 -20.23	55.41 0.89 -20.36	49.65 0.96 -11.66	46.77 0.76 -15.47	43.70 0.76 -14.67	40.76 0.64 -14.65	38.47 0.61 -12.56	36.51 0.57 -8.83
FORT_DRUM_COGEN 23780	10.05 -0.11 -2.72	12.29 -0.16 -2.19	12.63 -0.15 -2.00	12.15 -0.16 -1.95	13.17 -0.16 -1.81	18.33 -0.26 -1.05	20.62 -0.20 -1.30	15.61 -0.03 -2.58	18.15 -0.06 -2.26	19.02 -0.14 -1.54	25.80 -0.23 -0.37	22.95 -0.27 -0.77	17.10 -0.27 -1.61	18.86 -0.28 -1.46	13.44 -0.22 -2.52	21.63 -0.32 -1.98	27.18 -0.25 -2.02	36.19 0.00 -2.03	38.38 0.19 -1.16	32.17 0.09 -1.55	29.90 0.17 -1.46	26.93 0.00 -1.46	26.48 -0.08 -1.25	27.97 -0.03 -0.88
FOX_HILLS___ESR 323835	30.59 0.38 -22.77	29.07 0.50 -18.30	27.92 0.45 -16.69	27.08 0.40 -16.33	27.10 0.46 -15.12	27.09 0.79 -8.76	31.27 0.86 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.34 0.88 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.82 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.70 1.18 -16.55	43.82 1.52 -16.89	53.17 2.02 -16.99	49.02 2.26 -9.73	45.37 1.92 -12.91	42.06 1.55 -12.24	39.22 1.53 -12.23	37.43 1.64 -10.48	35.94 1.46 -7.37
FPL_FAR_ROCK_GT1 24212	30.73 0.52 -22.77	29.23 0.66 -18.30	28.04 0.57 -16.69	27.20 0.52 -16.33	27.29 0.64 -15.12	27.39 1.09 -8.76	31.68 1.27 -10.90	35.42 0.82 -21.54	36.07 1.21 -18.90	31.85 1.39 -12.84	30.72 1.95 -3.12	30.77 1.84 -6.49	30.48 1.26 -13.45	31.38 1.49 -12.20	35.97 0.92 -23.91	40.06 1.72 -18.37	52.75 2.21 -25.12	68.22 2.90 -31.16	65.71 3.19 -25.49	63.04 2.69 -29.81	51.04 2.32 -20.45	51.86 2.16 -24.23	39.42 2.25 -11.87	36.60 2.12 -7.38
FPL_FAR_ROCK_GT2 23815	30.73 0.52 -22.77	29.23 0.66 -18.30	28.04 0.57 -16.69	27.20 0.52 -16.33	27.29 0.64 -15.12	27.39 1.09 -8.76	31.68 1.27 -10.90	35.42 0.82 -21.54	36.07 1.21 -18.90	31.85 1.39 -12.84	30.72 1.95 -3.12	30.77 1.84 -6.49	30.48 1.26 -13.45	31.38 1.49 -12.20	35.97 0.92 -23.91	40.06 1.72 -18.37	52.75 2.21 -25.12	68.22 2.90 -31.16	65.71 3.19 -25.49	63.04 2.69 -29.81	51.04 2.32 -20.45	51.86 2.16 -24.23	39.42 2.25 -11.87	36.60 2.12 -7.38
FRANKLIN_FALL_HYD 24054	7.92 -0.55 -1.04	10.26 -0.84 -0.83	10.75 -0.79 -0.76	10.28 -0.81 -0.74	11.41 -0.79 -0.69	16.37 -1.58 -0.40	18.60 -1.40 -0.50	13.45 -0.59 -0.98	16.31 -0.51 -0.86	17.59 -0.62 -0.58	25.16 -0.64 -0.14	21.87 -0.88 -0.29	15.57 -0.80 -0.61	17.22 -1.03 -0.56	11.22 -0.88 -0.96	19.27 -1.46 -0.75	24.71 -1.47 -0.77	33.30 -1.64 -0.77	36.14 -1.33 -0.44	29.56 -1.56 -0.59	27.84 -0.99 -0.56	24.93 -1.10 -0.56	25.02 -0.76 -0.48	26.88 -0.57 -0.34
FREEPORT_EQUS_GT1 23764	30.70 0.49 -22.77	29.19 0.62 -18.30	28.00 0.53 -16.69	27.17 0.49 -16.33	27.25 0.61 -15.12	27.34 1.04 -8.76	31.61 1.19 -10.90	35.38 0.78 -21.54	36.02 1.16 -18.90	31.78 1.32 -12.84	30.62 1.85 -3.12	30.66 1.73 -6.49	30.40 1.18 -13.45	31.29 1.40 -12.20	35.92 0.87 -23.91	39.96 1.62 -18.37	52.62 2.08 -25.12	68.05 2.73 -31.16	65.52 3.00 -25.49	62.85 2.50 -29.81	50.90 2.18 -20.45	51.71 2.01 -24.23	39.32 2.15 -11.87	36.44 1.95 -7.38



FREEPORT___CT2 23818	30.70 0.49 -22.77	29.19 0.62 -18.30	28.00 0.53 -16.69	27.17 0.49 -16.33	27.25 0.61 -15.12	27.34 1.04 -8.76	31.61 1.19 -10.90	35.38 0.78 -21.54	36.02 1.16 -18.90	31.78 1.32 -12.84	30.62 1.85 -3.12	30.66 1.73 -6.49	30.40 1.18 -13.45	31.29 1.40 -12.20	35.92 0.87 -23.91	39.96 1.62 -18.37	52.62 2.08 -25.12	68.05 2.73 -31.16	65.52 3.00 -25.49	62.85 2.50 -29.81	50.90 2.18 -20.45	51.71 2.01 -24.23	39.32 2.15 -11.87	36.44 1.95 -7.38
FRESHKLS_33_KV_LOAD 356253	30.62 0.41 -22.77	29.12 0.54 -18.30	27.95 0.49 -16.69	27.12 0.44 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.33 0.92 -10.90	35.21 0.61 -21.54	35.62 0.77 -18.90	31.36 0.90 -12.83	30.02 1.26 -3.11	30.05 1.12 -6.48	30.03 0.84 -13.44	30.83 0.96 -12.19	32.81 0.62 -21.04	37.74 1.22 -16.55	43.87 1.58 -16.89	53.23 2.08 -16.99	49.09 2.33 -9.73	45.46 2.02 -12.91	42.12 1.61 -12.24	39.30 1.60 -12.23	37.50 1.72 -10.48	36.05 1.57 -7.37
FULTON COGEN____ 23766	11.44 -0.07 -4.08	13.46 -0.09 -3.28	13.67 -0.11 -2.99	13.18 -0.09 -2.93	14.11 -0.13 -2.71	18.94 -0.18 -1.57	21.25 -0.21 -1.95	16.76 -0.16 -3.86	19.12 -0.22 -3.39	19.70 -0.23 -2.30	25.88 -0.33 -0.56	23.34 -0.27 -1.16	17.98 -0.19 -2.41	19.70 -0.18 -2.19	14.82 -0.10 -3.77	22.72 -0.22 -2.97	28.14 -0.30 -3.03	36.76 -0.44 -3.05	38.30 -0.48 -1.74	32.45 -0.40 -2.32	30.10 -0.37 -2.19	27.30 -0.36 -2.19	26.77 -0.40 -1.88	28.11 -0.33 -1.32
FULTON___LFGE 323630	40.71 0.48 -32.79	37.28 0.66 -26.36	35.45 0.64 -24.03	34.48 0.61 -23.52	33.97 0.68 -21.77	31.24 1.09 -12.61	36.48 1.27 -15.70	44.97 0.90 -31.02	44.47 1.29 -27.22	37.46 1.36 -18.48	32.03 1.90 -4.47	33.28 1.50 -9.33	36.06 0.95 -19.35	36.38 1.13 -17.56	42.27 0.82 -30.30	45.48 1.68 -23.83	51.99 2.26 -24.32	61.81 3.18 -24.47	54.34 3.29 -14.01	51.70 2.57 -18.60	48.47 2.57 -17.63	45.19 2.11 -17.61	42.34 1.95 -15.10	39.67 1.95 -10.61
G.F.CEMENT___DRP 24184	36.15 0.45 -28.26	33.61 0.63 -22.71	32.12 0.63 -20.71	31.21 0.60 -20.27	30.93 0.65 -18.76	29.41 1.00 -10.86	34.15 1.11 -13.53	40.54 0.76 -26.73	40.45 1.04 -23.46	34.57 1.02 -15.93	30.93 1.41 -3.86	31.67 1.19 -8.04	33.24 0.80 -16.67	33.74 0.92 -15.13	37.84 0.58 -26.11	41.61 1.10 -20.54	47.82 1.45 -20.95	57.26 2.02 -21.08	51.25 2.15 -12.07	48.24 1.68 -16.03	45.15 1.70 -15.19	42.02 1.38 -15.17	39.72 1.42 -13.01	37.99 1.74 -9.14
GARDENVILLE___LBMP 24039	13.64 0.03 -6.18	15.29 0.05 -4.97	15.35 0.04 -4.53	14.82 0.04 -4.43	15.61 -0.01 -4.10	19.98 0.05 -2.38	22.31 -0.16 -2.96	18.57 -0.33 -5.84	20.49 -0.59 -5.13	20.44 -0.67 -3.48	25.43 -1.08 -0.84	23.33 -0.88 -1.76	18.89 -0.52 -3.65	20.41 -0.58 -3.31	16.53 -0.32 -5.71	23.68 -0.78 -4.49	29.00 -0.99 -4.58	37.23 -1.54 -4.61	37.97 -1.70 -2.64	32.75 -1.28 -3.50	30.43 -1.16 -3.32	27.69 -1.10 -3.32	27.13 -1.01 -2.84	28.30 -0.81 -2.00
GARDNVLA_35_KV_LD 355827	13.67 0.06 -6.18	15.33 0.09 -4.96	15.38 0.08 -4.53	14.85 0.07 -4.43	15.66 0.03 -4.10	20.03 0.11 -2.37	22.39 -0.08 -2.96	18.62 -0.27 -5.84	20.56 -0.53 -5.13	20.51 -0.60 -3.48	25.55 -0.95 -0.84	23.44 -0.76 -1.76	18.97 -0.44 -3.64	20.50 -0.50 -3.31	16.58 -0.27 -5.71	23.78 -0.68 -4.49	29.13 -0.86 -4.58	37.40 -1.37 -4.61	38.15 -1.52 -2.64	32.91 -1.13 -3.50	30.57 -1.02 -3.32	27.82 -0.97 -3.32	27.23 -0.91 -2.84	28.41 -0.70 -2.00
GELCKHM___115KV_LOAD 80723	11.88 -0.02 -4.46	13.83 -0.03 -3.59	14.01 -0.04 -3.27	13.52 -0.03 -3.20	14.44 -0.05 -2.96	19.21 -0.05 -1.72	21.57 -0.08 -2.14	17.21 -0.07 -4.22	19.53 -0.13 -3.70	20.02 -0.12 -2.52	26.09 -0.18 -0.61	23.58 -0.13 -1.27	18.32 -0.08 -2.63	20.01 -0.07 -2.39	15.23 -0.03 -4.12	23.13 -0.08 -3.24	28.57 -0.15 -3.31	37.25 -0.24 -3.33	38.68 -0.26 -1.91	32.85 -0.21 -2.53	30.47 -0.20 -2.40	27.66 -0.20 -2.40	27.13 -0.23 -2.05	28.39 -0.16 -1.44
GENERAL___MILLS 23808	13.66 0.04 -6.18	15.31 0.07 -4.96	15.36 0.05 -4.53	14.84 0.06 -4.43	15.63 0.01 -4.10	19.99 0.07 -2.37	22.35 -0.12 -2.96	18.60 -0.30 -5.84	20.52 -0.56 -5.13	20.47 -0.63 -3.48	25.48 -1.03 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.46 -0.53 -3.31	16.56 -0.29 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.34 -1.43 -4.61	38.08 -1.59 -2.64	32.85 -1.19 -3.50	30.49 -1.10 -3.32	27.76 -1.02 -3.32	27.18 -0.96 -2.84	28.35 -0.76 -2.00
GE_PLASTICS___DRP 24183	34.94 0.17 -27.33	32.48 0.25 -21.97	31.08 0.27 -20.03	30.22 0.27 -19.60	29.96 0.29 -18.15	28.48 0.42 -10.51	33.05 0.45 -13.08	39.18 0.27 -25.85	39.00 0.35 -22.69	33.44 0.41 -15.40	29.95 0.56 -3.73	30.72 0.49 -7.78	32.24 0.35 -16.13	32.71 0.39 -14.64	36.63 0.22 -25.26	40.27 0.44 -19.86	46.24 0.56 -20.27	55.31 0.75 -20.39	49.52 0.81 -11.68	46.71 0.67 -15.50	43.58 0.62 -14.69	40.70 0.56 -14.68	38.44 0.56 -12.58	36.44 0.49 -8.84
GILBOA___1 23756	30.35 0.16 -22.75	28.78 0.23 -18.29	27.72 0.26 -16.68	26.92 0.25 -16.32	26.91 0.28 -15.11	26.67 0.37 -8.75	30.82 0.41 -10.89	34.84 0.26 -21.52	35.18 0.34 -18.89	30.84 0.39 -12.82	29.30 0.54 -3.10	29.41 0.49 -6.47	29.54 0.35 -13.43	30.26 0.39 -12.18	32.43 0.26 -21.03	37.01 0.50 -16.54	42.87 0.58 -16.87	51.89 0.75 -16.98	47.57 0.81 -9.72	44.20 0.76 -12.90	41.18 0.68 -12.23	38.30 0.61 -12.22	36.38 0.61 -10.47	35.02 0.54 -7.36
GILBOA___2 23757	30.35 0.16 -22.75	28.78 0.23 -18.29	27.72 0.26 -16.68	26.92 0.25 -16.32	26.91 0.28 -15.11	26.67 0.37 -8.75	30.82 0.41 -10.89	34.84 0.26 -21.52	35.18 0.34 -18.89	30.84 0.39 -12.82	29.30 0.54 -3.10	29.41 0.49 -6.47	29.54 0.35 -13.43	30.26 0.39 -12.18	32.43 0.26 -21.03	37.01 0.50 -16.54	42.87 0.58 -16.87	51.89 0.75 -16.98	47.57 0.81 -9.72	44.20 0.76 -12.90	41.18 0.68 -12.23	38.30 0.61 -12.22	36.38 0.61 -10.47	35.02 0.54 -7.36
GILBOA___3 23758	30.35 0.16 -22.75	28.78 0.23 -18.29	27.72 0.26 -16.68	26.92 0.25 -16.32	26.91 0.28 -15.11	26.67 0.37 -8.75	30.82 0.41 -10.89	34.84 0.26 -21.52	35.18 0.34 -18.89	30.84 0.39 -12.82	29.30 0.54 -3.10	29.41 0.49 -6.47	29.54 0.35 -13.43	30.26 0.39 -12.18	32.43 0.26 -21.03	37.01 0.50 -16.54	42.87 0.58 -16.87	51.89 0.75 -16.98	47.57 0.81 -9.72	44.20 0.76 -12.90	41.18 0.68 -12.23	38.30 0.61 -12.22	36.38 0.61 -10.47	35.02 0.54 -7.36
GILBOA___4 23759	30.35 0.16 -22.75	28.78 0.23 -18.29	27.72 0.26 -16.68	26.92 0.25 -16.32	26.91 0.28 -15.11	26.67 0.37 -8.75	30.82 0.41 -10.89	34.84 0.26 -21.52	35.18 0.34 -18.89	30.84 0.39 -12.82	29.30 0.54 -3.10	29.41 0.49 -6.47	29.54 0.35 -13.43	30.26 0.39 -12.18	32.43 0.26 -21.03	37.01 0.50 -16.54	42.87 0.58 -16.87	51.89 0.75 -16.98	47.57 0.81 -9.72	44.20 0.76 -12.90	41.18 0.68 -12.23	38.30 0.61 -12.22	36.38 0.61 -10.47	35.02 0.54 -7.36
GILBOA____ 23599	30.35 0.16 -22.75	28.78 0.23 -18.29	27.72 0.26 -16.68	26.92 0.25 -16.32	26.91 0.28 -15.11	26.67 0.37 -8.75	30.81 0.41 -10.89	34.84 0.26 -21.52	35.18 0.34 -18.89	30.84 0.39 -12.82	29.30 0.54 -3.10	29.41 0.49 -6.47	29.54 0.35 -13.43	30.26 0.39 -12.18	32.43 0.26 -21.03	36.99 0.48 -16.54	42.87 0.58 -16.87	51.89 0.75 -16.98	47.57 0.81 -9.72	44.20 0.76 -12.90	41.18 0.68 -12.23	38.30 0.61 -12.22	36.38 0.61 -10.47	35.02 0.54 -7.36



GINNA____ 23603	12.35 -0.27 -5.18	14.07 -0.37 -4.17	14.18 -0.40 -3.80	13.66 -0.40 -3.72	14.50 -0.46 -3.44	18.86 -0.68 -1.99	21.10 -0.90 -2.48	17.31 -0.65 -4.90	19.40 -0.86 -4.30	19.61 -0.93 -2.92	25.03 -1.34 -0.71	22.78 -1.14 -1.47	18.07 -0.76 -3.06	19.63 -0.83 -2.78	15.42 -0.51 -4.79	22.76 -0.98 -3.77	27.96 -1.30 -3.84	36.22 -1.81 -3.87	37.21 -2.04 -2.21	31.82 -1.65 -2.94	29.47 -1.58 -2.79	26.77 -1.48 -2.78	26.19 -1.49 -2.39	27.35 -1.44 -1.68
GLEN PARK____ 23778	10.16 -0.08 -2.81	12.40 -0.12 -2.26	12.73 -0.11 -2.06	12.25 -0.11 -2.01	13.29 -0.09 -1.86	18.43 -0.19 -1.08	20.76 -0.10 -1.34	15.74 0.03 -2.65	18.27 -0.02 -2.33	19.12 -0.09 -1.58	25.92 -0.13 -0.38	23.04 -0.20 -0.80	17.20 -0.22 -1.66	18.96 -0.23 -1.50	13.56 -0.18 -2.59	21.77 -0.24 -2.04	27.34 -0.15 -2.08	36.46 0.21 -2.09	38.64 0.41 -1.20	32.40 0.27 -1.59	30.12 0.34 -1.51	27.10 0.13 -1.51	26.62 0.03 -1.29	28.13 0.11 -0.91
GLENDALE_27_KV_LOAD 356172	30.53 0.33 -22.77	29.01 0.44 -18.30	27.87 0.40 -16.69	27.03 0.35 -16.33	27.04 0.40 -15.12	27.04 0.74 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.62 0.77 -18.90	31.36 0.90 -12.83	30.02 1.26 -3.11	30.05 1.12 -6.48	30.03 0.84 -13.44	30.82 0.94 -12.19	32.80 0.61 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.10 1.95 -16.99	48.91 2.15 -9.73	45.28 1.83 -12.91	42.01 1.50 -12.24	39.15 1.45 -12.23	37.30 1.52 -10.48	35.81 1.33 -7.37
GLENWOOD_IC_1_G5 23712	30.60 0.39 -22.77	29.09 0.51 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.41 1.00 -10.90	35.26 0.67 -21.54	35.82 0.96 -18.90	31.55 1.09 -12.84	30.33 1.57 -3.11	30.32 1.39 -6.48	30.21 0.99 -13.45	31.01 1.13 -12.19	35.76 0.71 -23.91	39.68 1.34 -18.37	52.19 1.65 -25.12	67.44 2.12 -31.16	64.85 2.33 -25.49	62.30 1.95 -29.81	50.45 1.72 -20.45	51.30 1.60 -24.23	38.87 1.70 -11.87	36.08 1.60 -7.37
GLENWOOD_IC_2_G1 23688	30.56 0.35 -22.77	29.03 0.45 -18.30	27.87 0.40 -16.69	27.04 0.36 -16.33	27.08 0.44 -15.12	27.06 0.75 -8.76	31.31 0.90 -10.90	35.20 0.60 -21.54	35.71 0.85 -18.90	31.43 0.97 -12.84	30.16 1.38 -3.12	30.21 1.28 -6.49	30.11 0.90 -13.45	30.91 1.03 -12.20	35.72 0.67 -23.91	39.60 1.26 -18.37	52.11 1.58 -25.12	67.40 2.08 -31.16	64.78 2.26 -25.49	62.27 1.92 -29.81	50.39 1.67 -20.45	51.25 1.55 -24.23	38.77 1.59 -11.87	35.87 1.38 -7.38
GLENWOOD_IC_3_G1 23689	30.56 0.35 -22.77	29.03 0.45 -18.30	27.87 0.40 -16.69	27.04 0.36 -16.33	27.08 0.44 -15.12	27.06 0.75 -8.76	31.31 0.90 -10.90	35.20 0.60 -21.54	35.71 0.85 -18.90	31.43 0.97 -12.84	30.16 1.38 -3.12	30.21 1.28 -6.49	30.11 0.90 -13.45	30.91 1.03 -12.20	35.72 0.67 -23.91	39.60 1.26 -18.37	52.11 1.58 -25.12	67.40 2.08 -31.16	64.78 2.26 -25.49	62.27 1.92 -29.81	50.39 1.67 -20.45	51.25 1.55 -24.23	38.77 1.59 -11.87	35.87 1.38 -7.38
GLENWOOD____4 23550	30.60 0.39 -22.77	29.09 0.51 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.41 1.00 -10.90	35.26 0.67 -21.54	35.82 0.96 -18.90	31.55 1.09 -12.84	30.33 1.57 -3.11	30.32 1.39 -6.48	30.21 0.99 -13.45	31.01 1.13 -12.19	35.76 0.71 -23.91	39.68 1.34 -18.37	52.21 1.68 -25.12	67.51 2.19 -31.16	64.89 2.37 -25.49	62.36 2.02 -29.81	50.47 1.75 -20.45	51.32 1.63 -24.23	38.87 1.70 -11.87	36.08 1.60 -7.37
GLENWOOD____5 23614	30.60 0.39 -22.77	29.09 0.51 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.41 1.00 -10.90	35.26 0.67 -21.54	35.82 0.96 -18.90	31.55 1.09 -12.84	30.33 1.57 -3.11	30.32 1.39 -6.48	30.21 0.99 -13.45	31.01 1.13 -12.19	35.76 0.71 -23.91	39.68 1.34 -18.37	52.21 1.68 -25.12	67.51 2.19 -31.16	64.89 2.37 -25.49	62.36 2.02 -29.81	50.47 1.75 -20.45	51.32 1.63 -24.23	38.87 1.70 -11.87	36.08 1.60 -7.37
GLOBAL GREEN_PORT_GT1 23814	31.07 0.86 -22.77	29.68 1.11 -18.30	28.47 1.00 -16.69	27.61 0.93 -16.33	27.80 1.15 -15.12	28.16 1.86 -8.76	32.52 2.11 -10.90	35.94 1.35 -21.54	36.81 1.95 -18.90	32.68 2.22 -12.84	31.93 3.16 -3.12	31.87 2.94 -6.49	31.26 2.05 -13.45	32.22 2.33 -12.20	36.58 1.53 -23.91	41.14 2.80 -18.37	54.32 3.79 -25.12	70.51 5.19 -31.16	68.07 5.55 -25.49	64.99 4.64 -29.81	52.79 4.07 -20.45	53.41 3.72 -24.23	40.91 3.74 -11.87	38.01 3.52 -7.38
GLOBE____DSASP 323697	13.27 -0.07 -5.91	14.93 -0.09 -4.75	15.00 -0.12 -4.33	14.50 -0.08 -4.24	15.26 -0.18 -3.93	19.59 -0.23 -2.27	21.72 -0.62 -2.83	17.92 -0.73 -5.59	19.79 -1.07 -4.91	19.76 -1.20 -3.33	24.70 -1.77 -0.81	22.65 -1.48 -1.68	18.29 -0.96 -3.49	19.77 -1.08 -3.17	15.97 -0.64 -5.46	22.91 -1.36 -4.30	28.02 -1.78 -4.38	35.87 -2.70 -4.41	36.67 -2.89 -2.53	31.60 -2.29 -3.35	29.38 -2.06 -3.18	26.76 -1.88 -3.17	26.30 -1.72 -2.72	27.53 -1.49 -1.91
GOETHSLN____LBMP 323567	30.42 0.22 -22.77	28.86 0.29 -18.30	27.72 0.25 -16.69	26.88 0.21 -16.33	26.88 0.24 -15.12	26.79 0.49 -8.75	31.02 0.60 -10.90	35.04 0.44 -21.54	35.46 0.61 -18.90	31.16 0.70 -12.83	29.74 0.98 -3.11	29.80 0.88 -6.48	29.84 0.65 -13.43	30.60 0.73 -12.19	32.66 0.48 -21.04	37.46 0.94 -16.55	43.49 1.19 -16.88	52.58 1.43 -16.99	48.35 1.59 -9.73	44.85 1.40 -12.91	41.70 1.19 -12.24	38.81 1.12 -12.23	36.97 1.19 -10.48	35.45 0.98 -7.37
GOLAH____69_KV_TB 1_2 80279	12.89 0.14 -5.31	14.74 0.21 -4.27	14.88 0.20 -3.89	14.33 0.18 -3.81	15.23 0.18 -3.53	19.87 0.28 -2.04	22.17 0.12 -2.54	18.02 -0.07 -5.02	20.17 -0.19 -4.41	20.41 -0.21 -2.99	26.05 -0.33 -0.72	23.73 -0.22 -1.51	18.79 -0.11 -3.13	20.41 -0.12 -2.84	16.00 -0.06 -4.91	23.55 -0.28 -3.86	28.95 -0.41 -3.94	37.48 -0.65 -3.96	38.56 -0.74 -2.27	33.09 -0.46 -3.01	30.64 -0.48 -2.86	27.89 -0.43 -2.85	27.34 -0.40 -2.45	28.64 -0.19 -1.72
GOODYEAR_LAKE_HYD 323669	15.89 0.25 -8.20	17.20 0.34 -6.59	17.15 0.36 -6.01	16.56 0.33 -5.88	17.34 0.37 -5.45	21.28 0.58 -3.15	24.12 0.68 -3.93	21.28 0.47 -7.76	23.34 0.57 -6.81	22.86 0.62 -4.62	27.68 0.90 -1.12	25.57 0.79 -2.33	21.12 0.52 -4.84	22.68 0.60 -4.39	19.14 0.41 -7.58	26.71 0.78 -5.96	32.51 1.02 -6.08	41.78 1.50 -6.12	42.13 1.59 -3.50	36.53 1.34 -4.65	33.87 1.19 -4.41	30.94 1.07 -4.40	30.04 0.96 -3.78	30.74 0.98 -2.65
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	17.29 0.08 -9.78	18.24 0.11 -7.86	18.06 0.12 -7.16	17.47 0.11 -7.01	18.12 0.10 -6.49	21.50 0.19 -3.76	24.39 0.20 -4.68	22.38 0.08 -9.25	24.09 0.02 -8.11	23.15 0.02 -5.51	26.97 -0.03 -1.33	25.23 0.00 -2.78	21.56 0.03 -5.77	22.97 0.05 -5.23	20.23 0.06 -9.03	27.12 0.04 -7.10	32.74 0.08 -7.25	41.52 0.07 -7.29	41.28 0.07 -4.18	36.20 0.12 -5.54	33.61 0.08 -5.25	30.79 0.08 -5.25	29.82 0.03 -4.50	30.38 0.11 -3.16
GOUDEY____7 23579	17.30 0.09 -9.78	18.25 0.12 -7.86	18.06 0.12 -7.16	17.48 0.12 -7.01	18.13 0.12 -6.49	21.52 0.21 -3.76	24.39 0.20 -4.68	22.39 0.09 -9.25	24.10 0.03 -8.11	23.17 0.04 -5.51	26.99 0.00 -1.33	25.25 0.02 -2.78	21.58 0.05 -5.77	22.99 0.07 -5.23	20.24 0.07 -9.03	27.16 0.08 -7.10	32.76 0.10 -7.25	41.59 0.14 -7.29	41.32 0.11 -4.18	36.23 0.15 -5.54	33.64 0.11 -5.25	30.82 0.10 -5.25	29.85 0.05 -4.50	30.41 0.14 -3.16



GOUDEY___8	17.29	18.24	18.06	17.47	18.12	21.50	24.39	22.38	24.09	23.15	26.97	25.23	21.56	22.97	20.23	27.12	32.74	41.52	41.28	36.20	33.61	30.79	29.82	30.38
23580	0.08	0.11	0.12	0.11	0.10	0.19	0.20	0.08	0.02	0.02	-0.03	0.00	0.03	0.05	0.06	0.04	0.08	0.07	0.07	0.12	0.08	0.08	0.03	0.11
	-9.78	-7.86	-7.16	-7.01	-6.49	-3.76	-4.68	-9.25	-8.11	-5.51	-1.33	-2.78	-5.77	-5.23	-9.03	-7.10	-7.25	-7.29	-4.18	-5.54	-5.25	-5.25	-4.50	-3.16
GOWANUS_GT1_1	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24077	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_2	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24078	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_3	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24079	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_4	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24080	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_5	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24084	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_6	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24111	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_7	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24112	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT1_8	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
24113	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_1	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24114	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_2	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24115	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_3	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24116	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_4	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24117	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_5	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24118	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37
GOWANUS_GT2_6	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.00	30.80	32.80	37.70	43.80	53.13	48.95	45.34	42.03	39.17	37.38	35.86
24119	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.80	0.92	0.61	1.18	1.50	1.98	2.18	1.89	1.53	1.48	1.59	1.38
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37



GOWANUS_GT2_7 24120	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT2_8 24121	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_1 24122	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_2 24123	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_3 24124	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_4 24125	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_5 24126	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_6 24127	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_7 24128	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT3_8 24129	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
GOWANUS_GT4_1 24130	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_2 24131	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_3 24132	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_4 24133	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_5 24134	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37



GOWANUS_GT4_6 24135	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_7 24136	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GOWANUS_GT4_8 24137	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GREENBSH_115KV_TB3 55895	35.02 0.16 -27.43	32.56 0.25 -22.04	31.15 0.27 -20.10	30.29 0.27 -19.67	30.03 0.30 -18.21	28.51 0.42 -10.55	33.09 0.45 -13.13	39.25 0.25 -25.94	39.06 0.34 -22.77	33.49 0.41 -15.46	29.94 0.54 -3.74	30.72 0.47 -7.80	32.26 0.32 -16.18	32.73 0.35 -14.69	36.68 0.19 -25.35	40.26 0.36 -19.93	46.21 0.46 -20.34	55.27 0.65 -20.46	49.42 0.67 -11.72	46.61 0.52 -15.55	43.55 0.54 -14.74	40.65 0.46 -14.73	38.35 0.43 -12.63	36.36 0.38 -8.87
GREENDGE_115KV_TB5 80291	14.40 0.14 -6.82	15.96 0.21 -5.48	15.98 0.20 -5.00	15.46 0.22 -4.89	16.26 0.21 -4.53	20.54 0.37 -2.62	23.15 0.37 -3.26	19.72 0.21 -6.45	21.74 0.13 -5.66	21.57 0.11 -3.84	26.72 0.13 -0.93	24.50 0.11 -1.94	19.91 0.13 -4.02	21.52 0.18 -3.65	17.58 0.13 -6.30	25.15 0.22 -4.96	30.72 0.25 -5.06	39.63 0.38 -5.09	40.35 0.41 -2.91	34.77 0.37 -3.87	32.22 0.28 -3.67	29.31 0.18 -3.66	28.54 0.10 -3.14	29.59 0.27 -2.21
GREENIDGE___3 23582	14.40 0.14 -6.82	15.96 0.21 -5.48	15.98 0.20 -5.00	15.46 0.22 -4.89	16.26 0.21 -4.53	20.54 0.37 -2.62	23.15 0.37 -3.26	19.72 0.21 -6.45	21.74 0.13 -5.66	21.57 0.11 -3.84	26.72 0.13 -0.93	24.50 0.11 -1.94	19.91 0.13 -4.02	21.52 0.18 -3.65	17.58 0.13 -6.30	25.15 0.22 -4.96	30.72 0.25 -5.06	39.63 0.38 -5.09	40.35 0.41 -2.91	34.77 0.37 -3.87	32.22 0.28 -3.67	29.31 0.18 -3.66	28.54 0.10 -3.14	29.59 0.27 -2.21
GREENIDGE___4 23583	14.40 0.14 -6.82	15.96 0.21 -5.48	15.98 0.20 -5.00	15.46 0.22 -4.89	16.25 0.20 -4.53	20.54 0.37 -2.62	23.15 0.37 -3.26	19.72 0.21 -6.45	21.74 0.13 -5.66	21.58 0.11 -3.84	26.69 0.10 -0.93	24.50 0.11 -1.94	19.91 0.13 -4.02	21.52 0.18 -3.65	17.58 0.13 -6.30	25.13 0.20 -4.96	30.75 0.28 -5.06	39.59 0.34 -5.09	40.36 0.41 -2.91	34.74 0.34 -3.87	32.22 0.28 -3.67	29.31 0.18 -3.66	28.52 0.08 -3.14	29.59 0.27 -2.21
GREENLWN_69_KV_BK 3 55738	30.63 0.42 -22.77	29.10 0.52 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.14 0.50 -15.12	27.18 0.88 -8.76	31.43 1.01 -10.90	35.26 0.67 -21.54	35.90 1.04 -18.90	31.64 1.18 -12.84	30.38 1.62 -3.11	30.38 1.46 -6.48	30.24 1.02 -13.45	31.05 1.17 -12.19	35.77 0.72 -23.91	39.72 1.38 -18.37	52.37 1.83 -25.12	67.54 2.22 -31.16	65.04 2.52 -25.49	62.55 2.20 -29.81	50.64 1.92 -20.45	51.48 1.78 -24.23	38.99 1.82 -11.87	36.24 1.76 -7.37
GREENWD_138_KV_38B11_REV_LBMP_J 345004	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.02 0.82 -13.44	30.80 0.92 -12.19	32.79 0.60 -21.04	37.68 1.16 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.04 1.53 -12.24	39.20 1.50 -12.23	37.38 1.59 -10.48	35.89 1.41 -7.37
GRISSOM___SOLAR 323813	40.71 0.48 -32.79	37.28 0.66 -26.36	35.45 0.64 -24.03	34.48 0.61 -23.52	33.97 0.68 -21.77	31.24 1.09 -12.61	36.48 1.27 -15.70	44.97 0.90 -31.02	44.47 1.29 -27.22	37.46 1.36 -18.48	32.03 1.90 -4.47	33.28 1.50 -9.33	36.06 0.95 -19.35	36.38 1.13 -17.56	42.27 0.82 -30.30	45.48 1.68 -23.83	51.99 2.26 -24.32	61.81 3.18 -24.47	54.34 3.29 -14.01	51.70 2.57 -18.60	48.47 2.57 -17.63	45.19 2.11 -17.61	42.34 1.95 -15.10	39.67 1.95 -10.61
GROVEVILLE___HYD 323602	30.72 0.33 -22.96	29.16 0.43 -18.45	28.01 0.40 -16.83	27.19 0.37 -16.47	27.18 0.41 -15.25	27.04 0.67 -8.83	31.25 0.74 -10.99	35.27 0.50 -21.72	35.67 0.65 -19.06	31.29 0.72 -12.94	29.79 1.00 -3.13	29.90 0.92 -6.53	29.97 0.66 -13.55	30.74 0.76 -12.29	32.86 0.50 -21.22	37.66 1.00 -16.69	43.76 1.32 -17.03	53.03 1.74 -17.13	48.73 1.89 -9.81	45.14 1.59 -13.02	42.00 1.39 -12.34	39.12 1.32 -12.33	37.18 1.32 -10.57	35.71 1.17 -7.43
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
HAMLTNNY_34_KV_TB 80303	12.31 0.04 -4.83	14.21 0.06 -3.88	14.38 0.05 -3.54	13.87 0.06 -3.47	14.78 0.05 -3.21	19.51 0.11 -1.86	21.90 0.08 -2.31	17.67 0.04 -4.57	19.97 0.00 -4.01	20.37 0.02 -2.72	26.35 0.03 -0.66	23.87 0.04 -1.37	18.66 0.05 -2.85	20.36 0.09 -2.59	15.68 0.07 -4.47	23.58 0.10 -3.51	29.07 0.08 -3.58	37.87 0.10 -3.61	39.17 0.07 -2.06	33.33 0.06 -2.74	30.92 0.06 -2.60	28.09 0.03 -2.59	27.50 -0.03 -2.22	28.73 0.05 -1.56
HAMPSHIRE___PAPER_HYD 323593	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.48 -1.24	11.08 -0.49 -1.22	12.19 -0.46 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.16 -1.04 -1.23	25.50 -1.17 -1.26	34.09 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.74 -0.91	25.56 -0.82 -0.91	25.45 -0.63 -0.78	27.17 -0.49 -0.55
HARDSCRABBLE_WT_PWR 323673	8.25 0.09 -0.72	10.97 0.12 -0.58	11.45 0.14 -0.53	11.01 0.14 -0.52	12.19 0.18 -0.48	18.12 0.30 -0.28	20.23 0.37 -0.35	14.01 0.27 -0.68	16.89 0.34 -0.60	18.35 0.32 -0.41	26.22 0.46 -0.10	23.01 0.36 -0.21	16.39 0.20 -0.43	18.29 0.21 -0.39	11.92 0.11 -0.67	20.72 0.22 -0.53	26.30 0.36 -0.54	35.28 0.58 -0.54	38.04 0.70 -0.31	31.49 0.55 -0.41	29.17 0.51 -0.39	26.36 0.51 -0.39	26.16 0.53 -0.33	27.97 0.62 -0.23



HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	29.26 0.27 -21.56	27.94 0.35 -17.33	26.90 0.32 -15.80	26.10 0.29 -15.46	26.17 0.33 -14.31	26.40 0.56 -8.29	30.48 0.64 -10.32	33.89 0.44 -20.39	34.42 0.57 -17.89	30.41 0.63 -12.15	29.47 0.87 -2.94	29.39 0.81 -6.13	29.08 0.60 -12.72	29.90 0.67 -11.54	31.52 0.46 -19.92	36.52 0.88 -15.67	42.57 1.17 -15.99	51.82 1.57 -16.08	47.91 1.67 -9.21	44.16 1.40 -12.23	41.07 1.22 -11.59	38.19 1.15 -11.58	36.36 1.14 -9.92	35.06 0.98 -6.97
HARSNRAD_115KV_TB1 81005	13.31 0.01 -5.86	15.00 0.02 -4.71	15.09 0.01 -4.30	14.56 0.01 -4.20	15.37 -0.05 -3.89	19.78 -0.02 -2.25	22.03 -0.29 -2.81	18.16 -0.44 -5.54	20.09 -0.73 -4.87	20.10 -0.83 -3.30	25.20 -1.26 -0.80	23.10 -1.01 -1.67	18.59 -0.63 -3.46	20.12 -0.71 -3.14	16.16 -0.40 -5.42	23.31 -0.92 -4.26	28.54 -1.22 -4.35	36.66 -1.88 -4.37	37.46 -2.07 -2.50	32.30 -1.56 -3.32	29.98 -1.44 -3.15	27.29 -1.32 -3.15	26.76 -1.24 -2.70	28.03 -0.98 -1.90
HARZA MOOSE__RIVER 24016	9.25 0.01 -1.81	11.72 0.00 -1.45	12.13 0.02 -1.32	11.65 0.01 -1.29	12.75 0.03 -1.20	18.26 0.02 -0.69	20.47 0.10 -0.86	14.91 0.14 -1.71	17.63 0.18 -1.50	18.78 0.14 -1.02	26.14 0.23 -0.25	23.12 0.16 -0.51	16.86 0.03 -1.07	18.71 0.05 -0.97	12.81 0.00 -1.67	21.32 0.04 -1.31	26.93 0.18 -1.34	35.95 0.44 -1.35	38.36 0.56 -0.77	31.95 0.40 -1.02	29.66 0.42 -0.97	26.74 0.31 -0.97	26.38 0.25 -0.83	28.02 0.33 -0.58
HDSNBRDG_115KV_BRDG_TB1 355580	11.85 -0.01 -4.43	13.81 -0.02 -3.56	14.00 -0.03 -3.25	13.51 -0.02 -3.18	14.42 -0.05 -2.94	19.22 -0.04 -1.70	21.56 -0.08 -2.12	17.18 -0.07 -4.19	19.52 -0.11 -3.68	20.00 -0.12 -2.50	26.09 -0.18 -0.60	23.57 -0.13 -1.26	18.32 -0.06 -2.62	20.01 -0.05 -2.37	15.22 -0.02 -4.10	23.11 -0.08 -3.22	28.57 -0.13 -3.29	37.26 -0.20 -3.31	38.67 -0.26 -1.89	32.86 -0.18 -2.51	30.45 -0.20 -2.38	27.67 -0.18 -2.38	27.11 -0.23 -2.04	28.38 -0.16 -1.43
HELLGATE_13_KV_LD 55870	30.51 0.30 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.87 1.36 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	30.51 0.30 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.93 1.01 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.87 1.36 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
HEMPSTEAD____ 23647	30.63 0.42 -22.77	29.10 0.52 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.15 0.51 -15.12	27.18 0.88 -8.76	31.43 1.01 -10.90	35.28 0.68 -21.54	35.87 1.01 -18.90	31.61 1.14 -12.84	30.39 1.62 -3.12	30.46 1.53 -6.49	30.26 1.04 -13.45	31.11 1.22 -12.20	35.82 0.77 -23.91	39.76 1.42 -18.37	52.34 1.80 -25.12	67.68 2.36 -31.16	65.07 2.55 -25.49	62.52 2.17 -29.81	50.61 1.89 -20.45	51.45 1.76 -24.23	39.02 1.85 -11.87	36.14 1.65 -7.38
HEWLETT__69_KV_BK3 55828	30.70 0.49 -22.77	29.19 0.62 -18.30	28.00 0.53 -16.69	27.17 0.49 -16.33	27.24 0.60 -15.12	27.32 1.02 -8.76	31.60 1.19 -10.90	35.38 0.78 -21.54	36.01 1.15 -18.90	31.78 1.32 -12.84	30.59 1.82 -3.11	30.56 1.64 -6.48	30.37 1.15 -13.45	31.21 1.33 -12.19	35.87 0.82 -23.91	39.88 1.54 -18.37	52.52 1.98 -25.12	67.92 2.60 -31.16	65.37 2.85 -25.49	62.76 2.41 -29.81	50.81 2.09 -20.45	51.66 1.96 -24.23	39.19 2.02 -11.87	36.49 2.01 -7.37
HICKLING__1 23621	15.81 0.11 -8.27	17.08 0.16 -6.64	16.99 0.15 -6.06	16.44 0.17 -5.93	17.15 0.14 -5.49	20.99 0.26 -3.18	23.72 0.25 -3.96	20.94 0.07 -7.82	22.75 -0.06 -6.86	22.21 -0.07 -4.66	26.58 -0.21 -1.13	24.66 -0.13 -2.35	20.59 -0.05 -4.88	22.08 -0.04 -4.43	18.80 0.02 -7.64	25.92 -0.06 -6.01	31.47 -0.08 -6.13	40.23 -0.10 -6.17	40.45 -0.11 -3.53	35.19 -0.03 -4.69	32.66 -0.06 -4.44	29.83 -0.08 -4.44	28.98 -0.13 -3.80	29.81 0.03 -2.67
HICKLING__2 23622	15.81 0.11 -8.27	17.08 0.16 -6.64	16.99 0.15 -6.06	16.44 0.17 -5.93	17.15 0.14 -5.49	20.99 0.26 -3.18	23.72 0.25 -3.96	20.94 0.07 -7.82	22.75 -0.06 -6.86	22.21 -0.07 -4.66	26.58 -0.21 -1.13	24.66 -0.13 -2.35	20.59 -0.05 -4.88	22.08 -0.04 -4.43	18.80 0.02 -7.64	25.92 -0.06 -6.01	31.47 -0.08 -6.13	40.23 -0.10 -6.17	40.45 -0.11 -3.53	35.19 -0.03 -4.69	32.66 -0.06 -4.44	29.83 -0.08 -4.44	28.98 -0.13 -3.80	29.81 0.03 -2.67
HIGH FALLS__HY 23754	30.63 0.25 -22.95	29.03 0.31 -18.45	27.87 0.27 -16.82	27.06 0.25 -16.46	27.04 0.28 -15.24	26.83 0.46 -8.83	31.03 0.53 -10.99	35.13 0.37 -21.71	35.47 0.46 -19.05	31.05 0.49 -12.94	29.48 0.69 -3.13	29.63 0.65 -6.53	29.78 0.47 -13.54	30.51 0.53 -12.29	32.73 0.38 -21.21	37.27 0.62 -16.68	43.32 0.89 -17.02	52.48 1.20 -17.13	48.14 1.30 -9.81	44.68 1.13 -13.02	41.54 0.93 -12.34	38.91 1.12 -12.33	36.98 1.11 -10.57	35.46 0.92 -7.43
HILLBURN__GT 23639	29.50 0.25 -21.81	28.14 0.34 -17.53	27.07 0.30 -15.99	26.27 0.28 -15.65	26.32 0.31 -14.48	26.48 0.54 -8.39	30.62 0.66 -10.44	34.14 0.46 -20.63	34.65 0.59 -18.11	30.59 0.67 -12.29	29.56 0.92 -2.98	29.50 0.85 -6.21	29.26 0.63 -12.87	30.06 0.69 -11.68	31.78 0.48 -20.16	36.72 0.90 -15.85	42.76 1.17 -16.18	51.98 1.54 -16.27	48.02 1.67 -9.32	44.34 1.44 -12.37	41.21 1.21 -11.73	38.33 1.15 -11.71	36.51 1.16 -10.04	35.12 0.95 -7.06
HILLSIDE_115KV_TB1 80332	15.99 0.00 -8.56	17.16 0.01 -6.88	17.05 0.00 -6.27	16.49 0.01 -6.14	17.18 -0.02 -5.68	20.84 0.00 -3.29	23.57 -0.04 -4.10	21.02 -0.13 -8.09	22.77 -0.29 -7.10	22.11 -0.33 -4.82	26.24 -0.59 -1.17	24.43 -0.45 -2.43	20.54 -0.27 -5.05	21.97 -0.30 -4.58	18.90 -0.14 -7.91	25.81 -0.38 -6.22	31.27 -0.48 -6.34	39.90 -0.65 -6.38	39.98 -0.70 -3.65	34.87 -0.52 -4.85	32.36 -0.51 -4.60	29.60 -0.46 -4.59	28.73 -0.51 -3.94	29.50 -0.38 -2.77
HISHELDN_WT_PWR 323625	13.96 0.02 -6.51	15.54 0.04 -5.23	15.58 0.03 -4.77	15.05 0.04 -4.67	15.82 -0.02 -4.32	20.10 0.05 -2.50	22.51 -0.12 -3.11	18.92 -0.29 -6.15	20.83 -0.53 -5.40	20.67 -0.62 -3.67	25.55 -1.00 -0.89	23.49 -0.81 -1.85	19.11 -0.49 -3.84	20.64 -0.53 -3.48	16.85 -0.30 -6.01	24.00 -0.70 -4.73	29.35 -0.89 -4.82	37.61 -1.40 -4.85	38.29 -1.52 -2.78	33.09 -1.13 -3.69	30.72 -1.05 -3.50	27.99 -0.97 -3.49	27.33 -0.96 -2.99	28.51 -0.71 -2.10
HOLTSVILLE_IC_1 23690	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38



HOLTSVILLE_IC_10 23699	30.86 0.65 -22.77	29.40 0.82 -18.30	28.18 0.71 -16.69	27.34 0.66 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.13 2.36 -3.12	31.16 2.22 -6.49	30.74 1.53 -13.45	31.66 1.77 -12.20	36.19 1.14 -23.91	40.46 2.12 -18.37	53.33 2.80 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.74 3.39 -29.81	51.69 2.97 -20.45	52.45 2.75 -24.23	40.00 2.83 -11.87	37.09 2.60 -7.38
HOLTSVILLE_IC_2 23691	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38
HOLTSVILLE_IC_3 23692	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38
HOLTSVILLE_IC_4 23693	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38
HOLTSVILLE_IC_5 23694	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38
HOLTSVILLE_IC_6 23695	30.86 0.65 -22.77	29.40 0.82 -18.30	28.18 0.71 -16.69	27.34 0.66 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.13 2.36 -3.12	31.16 2.22 -6.49	30.74 1.53 -13.45	31.66 1.77 -12.20	36.19 1.14 -23.91	40.46 2.12 -18.37	53.33 2.80 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.74 3.39 -29.81	51.69 2.97 -20.45	52.45 2.75 -24.23	40.00 2.83 -11.87	37.09 2.60 -7.38
HOLTSVILLE_IC_7 23696	30.86 0.65 -22.77	29.40 0.82 -18.30	28.18 0.71 -16.69	27.34 0.66 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.13 2.36 -3.12	31.16 2.22 -6.49	30.74 1.53 -13.45	31.66 1.77 -12.20	36.19 1.14 -23.91	40.46 2.12 -18.37	53.33 2.80 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.74 3.39 -29.81	51.69 2.97 -20.45	52.45 2.75 -24.23	40.00 2.83 -11.87	37.09 2.60 -7.38
HOLTSVILLE_IC_8 23697	30.86 0.65 -22.77	29.40 0.82 -18.30	28.18 0.71 -16.69	27.34 0.66 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.13 2.36 -3.12	31.16 2.22 -6.49	30.74 1.53 -13.45	31.66 1.77 -12.20	36.19 1.14 -23.91	40.46 2.12 -18.37	53.33 2.80 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.74 3.39 -29.81	51.69 2.97 -20.45	52.45 2.75 -24.23	40.00 2.83 -11.87	37.09 2.60 -7.38
HOLTSVILLE_IC_9 23698	30.86 0.65 -22.77	29.40 0.82 -18.30	28.18 0.71 -16.69	27.34 0.66 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.13 2.36 -3.12	31.16 2.22 -6.49	30.74 1.53 -13.45	31.66 1.77 -12.20	36.19 1.14 -23.91	40.46 2.12 -18.37	53.33 2.80 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.74 3.39 -29.81	51.69 2.97 -20.45	52.45 2.75 -24.23	40.00 2.83 -11.87	37.09 2.60 -7.38
HOMER_HL_115KV_TB2 355744	13.84 -0.12 -6.52	15.35 -0.15 -5.24	15.39 -0.17 -4.78	14.86 -0.17 -4.68	15.63 -0.22 -4.33	19.77 -0.28 -2.51	22.26 -0.37 -3.12	18.78 -0.44 -6.17	20.62 -0.75 -5.41	20.44 -0.86 -3.67	25.14 -1.41 -0.89	23.13 -1.17 -1.85	18.87 -0.74 -3.85	20.33 -0.85 -3.49	16.70 -0.47 -6.02	23.63 -1.08 -4.74	28.95 -1.30 -4.83	37.25 -1.78 -4.86	37.93 -1.89 -2.78	32.73 -1.50 -3.70	30.36 -1.41 -3.50	27.67 -1.30 -3.50	26.98 -1.32 -3.00	28.03 -1.19 -2.11
HOWARD_WT_PWR 323690	14.79 0.13 -7.23	16.28 0.21 -5.81	16.28 0.20 -5.30	15.76 0.23 -5.18	16.50 0.18 -4.80	20.70 0.37 -2.78	23.30 0.33 -3.46	20.00 0.10 -6.84	21.89 -0.06 -6.00	21.58 -0.12 -4.07	26.34 -0.31 -0.99	24.28 -0.22 -2.06	19.90 -0.13 -4.26	21.45 -0.11 -3.87	17.79 -0.03 -6.68	25.10 -0.12 -5.25	30.65 -0.13 -5.36	39.35 -0.20 -5.39	39.90 -0.22 -3.09	34.54 -0.09 -4.10	32.04 -0.11 -3.89	29.22 -0.13 -3.88	28.42 -0.20 -3.33	29.50 0.05 -2.34
HQ_GEN_CEDARS 23644	8.00 -0.46 -1.02	10.40 -0.70 -0.82	10.90 -0.64 -0.75	10.43 -0.65 -0.74	11.55 -0.66 -0.68	16.56 -1.39 -0.39	18.75 -1.25 -0.49	13.49 -0.54 -0.97	16.33 -0.48 -0.85	17.60 -0.60 -0.58	25.16 -0.64 -0.14	21.91 -0.83 -0.29	15.63 -0.74 -0.60	17.32 -0.92 -0.55	11.30 -0.79 -0.95	19.38 -1.34 -0.74	24.75 -1.42 -0.76	32.98 -1.95 -0.76	35.73 -1.74 -0.44	29.28 -1.83 -0.58	27.80 -1.02 -0.55	24.92 -1.10 -0.55	25.04 -0.73 -0.47	26.90 -0.54 -0.33
HQ_GEN_CEDARS_PROXY 323590	8.00 -0.46 -1.02	10.39 -0.70 -0.82	10.90 -0.64 -0.75	10.43 -0.65 -0.74	11.64 -0.56 -0.68	16.56 -1.39 -0.39	18.75 -1.25 -0.49	13.49 -0.54 -0.97	16.33 -0.48 -0.85	17.60 -0.60 -0.58	25.16 -0.64 -0.14	21.91 -0.83 -0.29	15.63 -0.74 -0.60	17.31 -0.92 -0.55	11.30 -0.79 -0.95	19.38 -1.34 -0.74	24.70 -1.47 -0.76	32.98 -1.95 -0.76	35.73 -1.74 -0.44	29.28 -1.83 -0.58	27.80 -1.02 -0.55	24.90 -1.12 -0.55	25.06 -0.71 -0.47	26.93 -0.52 -0.33
HQ_GEN_IMPORT 323601	7.44 0.00 0.00	10.27 0.00 0.00	10.78 0.00 0.00	10.35 0.00 0.00	11.52 0.00 0.00	17.55 0.00 0.00	19.51 0.00 0.00	13.06 0.00 0.00	15.96 0.00 0.00	17.62 0.00 0.00	25.66 0.00 0.00	22.45 0.00 0.00	15.76 0.00 0.00	17.69 0.00 0.00	11.14 0.00 0.00	19.97 0.00 0.00	25.41 0.00 0.00	34.16 0.00 0.00	37.03 0.00 0.00	30.53 0.00 0.00	28.27 0.00 0.00	25.47 0.00 0.00	25.30 0.00 0.00	27.11 0.00 0.00
HQ_GEN_WHEEL 23651	7.44 0.00 0.00	10.27 0.00 0.00	10.78 0.00 0.00	10.35 0.00 0.00	11.52 0.00 0.00	17.55 0.00 0.00	19.51 0.00 0.00	13.06 0.00 0.00	15.96 0.00 0.00	17.62 0.00 0.00	25.66 0.00 0.00	22.45 0.00 0.00	15.76 0.00 0.00	17.69 0.00 0.00	11.14 0.00 0.00	19.97 0.00 0.00	25.41 0.00 0.00	34.16 0.00 0.00	37.03 0.00 0.00	30.53 0.00 0.00	28.27 0.00 0.00	25.47 0.00 0.00	25.30 0.00 0.00	27.11 0.00 0.00



HUDSON AVE_GT_3 23810	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
HUDSON AVE_GT_4 23540	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
HUDSON AVE_GT_5 23657	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
HUDSON_AVE_10 24168	30.46 0.25 -22.77	28.90 0.33 -18.30	27.76 0.29 -16.69	26.93 0.25 -16.33	26.93 0.29 -15.12	26.86 0.56 -8.75	31.11 0.70 -10.90	35.11 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.84 1.08 -3.11	29.89 0.97 -6.48	29.91 0.71 -13.43	30.67 0.80 -12.19	32.71 0.52 -21.04	37.54 1.02 -16.55	43.59 1.30 -16.88	52.79 1.64 -16.99	48.57 1.81 -9.73	45.00 1.56 -12.91	41.81 1.30 -12.24	38.92 1.22 -12.23	37.07 1.29 -10.48	35.56 1.08 -7.37
HUDSON___115KV_TB 4 355613	34.51 0.37 -26.70	32.26 0.53 -21.46	30.91 0.56 -19.57	30.04 0.54 -19.15	29.86 0.61 -17.73	28.69 0.88 -10.27	33.19 0.90 -12.78	38.85 0.54 -25.25	38.82 0.70 -22.16	33.43 0.76 -15.05	30.30 1.00 -3.64	30.87 0.83 -7.60	32.04 0.52 -15.75	32.62 0.64 -14.30	36.21 0.39 -24.68	40.19 0.82 -19.41	46.38 1.17 -19.80	55.79 1.71 -19.92	50.22 1.78 -11.41	47.08 1.40 -15.14	44.04 1.41 -14.35	41.00 1.20 -14.34	38.70 1.11 -12.29	36.86 1.11 -8.64
HUNTER MOUNT___DRP 323613	33.95 0.41 -26.10	31.84 0.60 -20.98	30.52 0.61 -19.13	29.67 0.60 -18.72	29.53 0.68 -17.33	28.53 0.95 -10.04	32.98 0.98 -12.49	38.30 0.56 -24.69	38.34 0.72 -21.67	33.09 0.76 -14.71	30.22 1.00 -3.56	30.70 0.83 -7.42	31.67 0.50 -15.40	32.28 0.62 -13.98	35.64 0.38 -24.12	39.78 0.84 -18.97	46.04 1.27 -19.35	55.48 1.84 -19.47	50.11 1.93 -11.15	46.83 1.50 -14.80	43.85 1.55 -14.03	40.76 1.27 -14.02	38.50 1.19 -12.01	36.78 1.22 -8.44
HUNTINGTON_RES_REC 323705	30.72 0.51 -22.77	29.21 0.64 -18.30	28.00 0.53 -16.69	27.17 0.49 -16.33	27.26 0.62 -15.12	27.37 1.07 -8.76	31.64 1.23 -10.90	35.39 0.80 -21.54	36.07 1.21 -18.90	31.84 1.38 -12.84	30.70 1.93 -3.12	30.75 1.82 -6.49	30.46 1.24 -13.45	31.34 1.45 -12.20	35.97 0.92 -23.91	40.08 1.74 -18.37	52.82 2.29 -25.12	68.29 2.97 -31.16	65.81 3.29 -25.49	63.13 2.78 -29.81	51.15 2.43 -20.45	51.91 2.21 -24.23	39.47 2.30 -11.87	36.58 2.09 -7.38
HUNTLEY___63 23557	13.48 0.07 -5.97	15.17 0.10 -4.80	15.24 0.09 -4.38	14.73 0.10 -4.28	15.52 0.03 -3.97	19.97 0.12 -2.30	22.20 -0.18 -2.86	18.34 -0.37 -5.65	20.27 -0.64 -4.96	20.27 -0.72 -3.37	25.40 -1.08 -0.81	23.27 -0.88 -1.70	18.75 -0.54 -3.52	20.30 -0.58 -3.20	16.34 -0.32 -5.52	23.51 -0.80 -4.34	28.80 -1.04 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.24 -1.24 -3.21	27.53 -1.15 -3.21	26.99 -1.06 -2.75	28.20 -0.84 -1.93
HUNTLEY___64 23558	13.48 0.07 -5.97	15.17 0.10 -4.80	15.24 0.09 -4.38	14.73 0.10 -4.28	15.52 0.03 -3.97	19.97 0.12 -2.30	22.20 -0.18 -2.86	18.34 -0.37 -5.65	20.27 -0.64 -4.96	20.27 -0.72 -3.37	25.40 -1.08 -0.81	23.27 -0.88 -1.70	18.75 -0.54 -3.52	20.30 -0.58 -3.20	16.34 -0.32 -5.52	23.51 -0.80 -4.34	28.80 -1.04 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.24 -1.24 -3.21	27.53 -1.15 -3.21	26.99 -1.06 -2.75	28.20 -0.84 -1.93
HUNTLEY___65 23559	13.48 0.07 -5.97	15.17 0.10 -4.80	15.24 0.09 -4.38	14.73 0.10 -4.28	15.52 0.03 -3.97	19.97 0.12 -2.30	22.20 -0.18 -2.86	18.34 -0.37 -5.65	20.27 -0.64 -4.96	20.27 -0.72 -3.37	25.40 -1.08 -0.81	23.27 -0.88 -1.70	18.75 -0.54 -3.52	20.30 -0.58 -3.20	16.34 -0.32 -5.52	23.51 -0.80 -4.34	28.80 -1.04 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.24 -1.24 -3.21	27.53 -1.15 -3.21	26.99 -1.06 -2.75	28.20 -0.84 -1.93
HUNTLEY___66 23560	13.48 0.07 -5.97	15.17 0.10 -4.80	15.24 0.09 -4.38	14.73 0.10 -4.28	15.52 0.03 -3.97	19.97 0.12 -2.30	22.20 -0.18 -2.86	18.34 -0.37 -5.65	20.27 -0.64 -4.96	20.27 -0.72 -3.37	25.40 -1.08 -0.81	23.27 -0.88 -1.70	18.75 -0.54 -3.52	20.30 -0.58 -3.20	16.34 -0.32 -5.52	23.51 -0.80 -4.34	28.80 -1.04 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.24 -1.24 -3.21	27.53 -1.15 -3.21	26.99 -1.06 -2.75	28.20 -0.84 -1.93
HUNTLEY___67 23561	13.49 0.01 -6.05	15.15 0.02 -4.86	15.21 0.00 -4.43	14.69 0.01 -4.34	15.49 -0.05 -4.01	19.85 -0.02 -2.32	22.15 -0.25 -2.89	18.36 -0.42 -5.72	20.27 -0.70 -5.02	20.24 -0.79 -3.41	25.25 -1.23 -0.82	23.18 -0.99 -1.72	18.73 -0.60 -3.57	20.25 -0.67 -3.24	16.35 -0.38 -5.59	23.47 -0.90 -4.39	28.73 -1.17 -4.48	36.86 -1.81 -4.51	37.62 -2.00 -2.58	32.43 -1.53 -3.43	30.13 -1.39 -3.25	27.46 -1.25 -3.25	26.92 -1.16 -2.78	28.12 -0.95 -1.96
HUNTLEY___68 23562	13.49 0.01 -6.05	15.15 0.02 -4.86	15.21 0.00 -4.43	14.69 0.01 -4.34	15.49 -0.05 -4.01	19.85 -0.02 -2.32	22.15 -0.25 -2.89	18.36 -0.42 -5.72	20.27 -0.70 -5.02	20.24 -0.79 -3.41	25.25 -1.23 -0.82	23.18 -0.99 -1.72	18.73 -0.60 -3.57	20.25 -0.67 -3.24	16.35 -0.38 -5.59	23.47 -0.90 -4.39	28.73 -1.17 -4.48	36.86 -1.81 -4.51	37.62 -2.00 -2.58	32.43 -1.53 -3.43	30.13 -1.39 -3.25	27.46 -1.25 -3.25	26.92 -1.16 -2.78	28.12 -0.95 -1.96
HYLAND___LFGE 323620	14.22 0.37 -6.41	15.94 0.51 -5.16	16.02 0.54 -4.70	15.44 0.50 -4.60	16.31 0.53 -4.26	20.87 0.86 -2.47	23.40 0.82 -3.07	19.59 0.47 -6.07	21.63 0.35 -5.33	21.43 0.19 -3.62	26.59 0.05 -0.88	24.25 -0.02 -1.82	19.61 0.06 -3.78	21.25 0.12 -3.43	17.18 0.11 -5.93	24.85 0.22 -4.66	30.63 0.46 -4.76	39.87 0.92 -4.79	40.99 1.22 -2.74	35.27 1.10 -3.64	32.65 0.93 -3.45	29.65 0.74 -3.44	28.89 0.63 -2.95	30.03 0.84 -2.08
INDECK___CORINTH 23802	36.19 0.44 -28.31	33.63 0.61 -22.75	32.13 0.60 -20.75	31.23 0.58 -20.31	30.93 0.61 -18.80	29.38 0.95 -10.89	34.12 1.05 -13.55	40.54 0.70 -26.78	40.43 0.97 -23.50	34.55 0.97 -15.96	30.81 1.28 -3.86	31.60 1.10 -8.05	33.21 0.74 -16.70	33.69 0.85 -15.16	37.83 0.52 -26.16	41.48 0.94 -20.58	47.68 1.27 -20.99	57.06 1.78 -21.12	50.98 1.85 -12.09	48.05 1.47 -16.06	44.98 1.50 -15.22	41.87 1.20 -15.20	39.60 1.26 -13.03	37.92 1.65 -9.16



INDECK___ILION 23567	8.22 0.06 -0.72	10.93 0.08 -0.58	11.41 0.10 -0.53	10.96 0.09 -0.52	12.12 0.12 -0.48	18.00 0.18 -0.28	20.09 0.23 -0.35	13.91 0.17 -0.68	16.76 0.21 -0.60	18.24 0.21 -0.41	26.07 0.31 -0.10	22.90 0.25 -0.21	16.33 0.14 -0.43	18.21 0.14 -0.39	11.89 0.08 -0.67	20.66 0.16 -0.53	26.20 0.25 -0.54	35.11 0.41 -0.54	37.82 0.48 -0.31	31.31 0.37 -0.41	29.02 0.37 -0.39	26.19 0.33 -0.39	25.96 0.33 -0.33	27.73 0.38 -0.23
INDECK___OLEAN 23982	13.84 -0.12 -6.52	15.36 -0.15 -5.24	15.39 -0.17 -4.78	14.86 -0.17 -4.68	15.61 -0.24 -4.33	19.77 -0.28 -2.51	22.26 -0.37 -3.12	18.78 -0.44 -6.17	20.62 -0.75 -5.41	20.45 -0.85 -3.67	25.14 -1.41 -0.89	23.13 -1.17 -1.85	18.87 -0.74 -3.85	20.33 -0.85 -3.49	16.69 -0.48 -6.02	23.63 -1.08 -4.74	28.95 -1.30 -4.83	37.21 -1.81 -4.86	37.85 -1.96 -2.78	32.73 -1.50 -3.70	30.36 -1.41 -3.50	27.67 -1.30 -3.50	26.96 -1.34 -3.00	28.03 -1.19 -2.11
INDECK___OSWEGO 23783	11.26 -0.11 -3.94	13.29 -0.14 -3.17	13.51 -0.16 -2.89	13.02 -0.15 -2.83	13.95 -0.18 -2.62	18.80 -0.26 -1.51	21.08 -0.31 -1.89	16.56 -0.22 -3.73	18.94 -0.29 -3.27	19.53 -0.32 -2.22	25.74 -0.46 -0.54	23.16 -0.40 -1.12	17.82 -0.27 -2.32	19.51 -0.28 -2.11	14.62 -0.17 -3.64	22.49 -0.34 -2.86	27.88 -0.46 -2.92	36.49 -0.61 -2.94	38.01 -0.70 -1.68	32.22 -0.55 -2.23	29.88 -0.51 -2.12	27.10 -0.48 -2.12	26.61 -0.51 -1.81	27.93 -0.46 -1.27
INDECK___YERKES 23781	13.48 0.07 -5.97	15.18 0.11 -4.80	15.26 0.10 -4.38	14.74 0.11 -4.28	15.52 0.03 -3.97	19.98 0.14 -2.30	22.21 -0.16 -2.86	18.35 -0.35 -5.65	20.29 -0.62 -4.96	20.29 -0.71 -3.37	25.40 -1.08 -0.81	23.29 -0.85 -1.70	18.77 -0.52 -3.52	20.32 -0.57 -3.20	16.33 -0.33 -5.52	23.51 -0.80 -4.34	28.82 -1.02 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.26 -1.21 -3.21	27.53 -1.15 -3.21	26.96 -1.09 -2.75	28.26 -0.79 -1.93
INDIAN POINT_GT_1 24139	30.26 0.25 -22.57	28.75 0.34 -18.14	27.63 0.31 -16.54	26.81 0.28 -16.19	26.82 0.31 -14.98	26.77 0.54 -8.68	30.98 0.66 -10.80	34.86 0.46 -21.34	35.31 0.62 -18.73	31.05 0.70 -12.72	29.71 0.98 -3.08	29.74 0.88 -6.42	29.72 0.65 -13.31	30.50 0.73 -12.08	32.48 0.48 -20.85	37.29 0.92 -16.40	43.34 1.19 -16.73	52.57 1.57 -16.84	48.38 1.70 -9.64	44.77 1.44 -12.80	41.62 1.22 -12.13	38.76 1.17 -12.12	36.85 1.16 -10.39	35.42 1.00 -7.30
INDIAN POINT_GT_2 23659	30.26 0.25 -22.57	28.75 0.34 -18.14	27.63 0.31 -16.54	26.81 0.28 -16.19	26.82 0.31 -14.98	26.77 0.54 -8.68	30.98 0.66 -10.80	34.86 0.46 -21.34	35.31 0.62 -18.73	31.05 0.70 -12.72	29.71 0.98 -3.08	29.74 0.88 -6.42	29.72 0.65 -13.31	30.50 0.73 -12.08	32.48 0.48 -20.85	37.29 0.92 -16.40	43.34 1.19 -16.73	52.57 1.57 -16.84	48.38 1.70 -9.64	44.77 1.44 -12.80	41.62 1.22 -12.13	38.76 1.17 -12.12	36.85 1.16 -10.39	35.42 1.00 -7.30
INDIAN POINT_GT_3 24019	30.26 0.25 -22.57	28.75 0.34 -18.14	27.63 0.31 -16.54	26.81 0.28 -16.19	26.82 0.31 -14.98	26.77 0.54 -8.68	30.98 0.66 -10.80	34.86 0.46 -21.34	35.31 0.62 -18.73	31.05 0.70 -12.72	29.71 0.98 -3.08	29.74 0.88 -6.42	29.72 0.65 -13.31	30.50 0.73 -12.08	32.48 0.48 -20.85	37.29 0.92 -16.40	43.34 1.19 -16.73	52.57 1.57 -16.84	48.38 1.70 -9.64	44.77 1.44 -12.80	41.62 1.22 -12.13	38.76 1.17 -12.12	36.85 1.16 -10.39	35.42 1.00 -7.30
INDIAN POINT___2 23530	29.97 0.25 -22.29	28.51 0.33 -17.92	27.42 0.30 -16.33	26.60 0.27 -15.99	26.63 0.31 -14.80	26.66 0.54 -8.57	30.83 0.64 -10.67	34.60 0.46 -21.08	35.05 0.59 -18.50	30.87 0.69 -12.56	29.65 0.95 -3.04	29.64 0.85 -6.34	29.55 0.63 -13.15	30.33 0.71 -11.94	32.22 0.48 -20.60	37.07 0.90 -16.20	43.11 1.17 -16.53	52.33 1.54 -16.63	48.22 1.67 -9.52	44.58 1.41 -12.64	41.47 1.21 -11.98	38.58 1.15 -11.97	36.72 1.16 -10.26	35.27 0.95 -7.21
INDIAN POINT___3 23531	30.27 0.25 -22.58	28.76 0.34 -18.15	27.64 0.31 -16.55	26.82 0.28 -16.19	26.84 0.32 -14.99	26.79 0.56 -8.68	30.98 0.66 -10.81	34.87 0.46 -21.36	35.30 0.61 -18.74	31.04 0.69 -12.72	29.72 0.98 -3.08	29.74 0.88 -6.42	29.73 0.65 -13.32	30.48 0.71 -12.09	32.49 0.48 -20.87	37.28 0.90 -16.41	43.32 1.17 -16.74	52.54 1.54 -16.85	48.35 1.67 -9.65	44.74 1.40 -12.80	41.62 1.22 -12.14	38.74 1.15 -12.12	36.86 1.16 -10.39	35.39 0.98 -7.30
INGHAM_C_115KV_TB7 356103	8.30 0.14 -0.72	11.05 0.20 -0.58	11.53 0.22 -0.53	11.07 0.21 -0.52	12.25 0.25 -0.48	18.23 0.40 -0.28	20.35 0.49 -0.35	14.09 0.35 -0.68	16.97 0.41 -0.60	18.44 0.41 -0.41	26.35 0.59 -0.10	23.12 0.47 -0.21	16.49 0.30 -0.43	18.39 0.32 -0.39	11.99 0.18 -0.67	20.84 0.34 -0.53	26.46 0.51 -0.54	35.49 0.79 -0.54	38.23 0.89 -0.31	31.68 0.73 -0.41	29.34 0.68 -0.39	26.52 0.66 -0.39	26.29 0.66 -0.33	28.10 0.76 -0.23
IP CORINTH___1 23988	36.19 0.44 -28.31	33.63 0.61 -22.75	32.13 0.60 -20.75	31.23 0.58 -20.31	30.93 0.61 -18.80	29.38 0.95 -10.89	34.12 1.05 -13.55	40.54 0.71 -26.78	40.43 0.97 -23.50	34.55 0.97 -15.96	30.81 1.28 -3.86	31.60 1.10 -8.05	33.21 0.74 -16.70	33.69 0.85 -15.16	37.83 0.52 -26.16	41.50 0.96 -20.58	47.68 1.27 -20.99	57.06 1.78 -21.12	51.02 1.89 -12.09	48.05 1.47 -16.06	44.99 1.50 -15.22	41.87 1.20 -15.20	39.60 1.26 -13.03	37.92 1.65 -9.16
IP___TICONDEROGA 23804	36.44 0.73 -28.27	34.00 1.01 -22.72	32.49 0.99 -20.72	31.58 0.95 -20.28	31.33 1.04 -18.77	30.02 1.60 -10.87	34.82 1.78 -13.53	41.01 1.21 -26.74	41.12 1.69 -23.47	35.16 1.60 -15.93	31.75 2.23 -3.86	32.31 1.82 -8.04	33.64 1.20 -16.68	34.24 1.41 -15.14	38.20 0.92 -26.13	42.30 1.78 -20.55	48.72 2.34 -20.97	58.60 3.35 -21.09	52.59 3.48 -12.08	49.29 2.72 -16.03	46.27 2.80 -15.20	42.89 2.24 -15.18	40.52 2.20 -13.02	38.86 2.60 -9.15
ISLIP_RES_REC 323679	30.89 0.68 -22.77	29.44 0.86 -18.30	28.23 0.75 -16.69	27.39 0.70 -16.33	27.52 0.88 -15.12	27.76 1.46 -8.76	32.07 1.66 -10.90	35.65 1.06 -21.54	36.43 1.56 -18.90	32.24 1.78 -12.84	31.26 2.49 -3.12	31.27 2.33 -6.49	30.82 1.61 -13.45	31.75 1.86 -12.20	36.24 1.19 -23.91	40.56 2.22 -18.37	53.48 2.95 -25.12	69.32 4.00 -31.16	66.81 4.29 -25.49	63.95 3.60 -29.81	51.86 3.14 -20.45	52.57 2.88 -24.23	40.13 2.96 -11.87	37.22 2.74 -7.38
JAMAICA__27_KV_LOAD 355505	30.48 0.28 -22.77	28.93 0.36 -18.30	27.78 0.31 -16.69	26.96 0.28 -16.33	26.95 0.31 -15.12	26.95 0.65 -8.75	31.23 0.82 -10.90	35.22 0.63 -21.54	35.67 0.81 -18.90	31.41 0.95 -12.83	29.95 1.18 -3.11	29.96 1.03 -6.48	29.97 0.77 -13.43	30.75 0.87 -12.19	32.76 0.58 -21.04	37.66 1.14 -16.55	43.72 1.42 -16.88	52.99 1.84 -16.99	48.80 2.04 -9.73	45.22 1.77 -12.91	41.95 1.44 -12.24	39.04 1.35 -12.23	37.27 1.49 -10.48	35.70 1.22 -7.37
JANIS___SOLAR 323808	16.26 0.34 -8.48	17.57 0.48 -6.82	17.49 0.50 -6.22	16.92 0.49 -6.08	17.67 0.52 -5.63	21.67 0.86 -3.26	24.57 0.99 -4.06	21.74 0.67 -8.02	23.68 0.69 -7.04	23.09 0.69 -4.78	27.74 0.92 -1.16	25.67 0.81 -2.41	21.29 0.52 -5.00	22.86 0.64 -4.54	19.42 0.43 -7.84	27.01 0.88 -6.16	32.95 1.24 -6.29	42.44 1.95 -6.33	42.77 2.11 -3.62	37.11 1.77 -4.81	34.41 1.58 -4.56	31.37 1.35 -4.55	30.37 1.16 -3.90	31.24 1.38 -2.74



JARVIS____ 23743	8.14 -0.02 -0.72	10.82 -0.03 -0.58	11.29 -0.02 -0.53	10.84 -0.02 -0.52	11.99 -0.01 -0.48	17.79 -0.04 -0.28	19.84 -0.02 -0.35	13.74 0.00 -0.68	16.57 0.02 -0.60	18.05 0.02 -0.41	25.78 0.03 -0.10	22.65 0.00 -0.21	16.17 -0.02 -0.43	18.04 -0.04 -0.39	11.78 -0.03 -0.67	20.46 -0.04 -0.53	25.92 -0.03 -0.54	34.70 0.00 -0.54	37.34 0.00 -0.31	30.91 -0.03 -0.41	28.66 0.00 -0.39	25.85 0.00 -0.39	25.66 0.03 -0.33	27.37 0.03 -0.23
JENNISON____1 23625	18.03 0.38 -10.22	19.01 0.52 -8.21	18.83 0.56 -7.49	18.20 0.53 -7.33	18.89 0.59 -6.78	22.41 0.93 -3.93	25.48 1.07 -4.89	23.45 0.73 -9.66	25.24 0.80 -8.48	24.23 0.85 -5.76	28.23 1.18 -1.39	26.43 1.08 -2.91	22.50 0.71 -6.03	23.99 0.83 -5.47	21.14 0.56 -9.44	28.44 1.04 -7.43	34.41 1.42 -7.58	43.94 2.15 -7.62	43.73 2.33 -4.36	38.28 1.95 -5.79	35.49 1.72 -5.49	32.46 1.50 -5.49	31.34 1.34 -4.70	31.91 1.49 -3.31
JENNISON____2 23626	18.03 0.38 -10.22	19.01 0.52 -8.21	18.83 0.56 -7.49	18.20 0.53 -7.33	18.89 0.59 -6.78	22.41 0.93 -3.93	25.48 1.07 -4.89	23.45 0.73 -9.66	25.24 0.80 -8.48	24.23 0.85 -5.76	28.23 1.18 -1.39	26.43 1.08 -2.91	22.50 0.71 -6.03	23.99 0.83 -5.47	21.14 0.56 -9.44	28.44 1.04 -7.43	34.41 1.42 -7.58	43.94 2.15 -7.62	43.73 2.33 -4.36	38.28 1.95 -5.79	35.49 1.72 -5.49	32.46 1.50 -5.49	31.34 1.34 -4.70	31.91 1.49 -3.31
JERICHO_RISE_WT_PWR 323719	7.74 -0.66 -0.96	10.03 -1.02 -0.77	10.54 -0.95 -0.70	10.06 -0.97 -0.69	11.30 -0.86 -0.64	16.09 -1.83 -0.37	18.27 -1.70 -0.46	13.17 -0.80 -0.91	15.97 -0.78 -0.80	17.27 -0.90 -0.54	24.74 -1.05 -0.13	21.46 -1.26 -0.27	15.24 -1.09 -0.57	16.86 -1.34 -0.51	10.96 -1.07 -0.89	18.87 -1.80 -0.70	24.19 -1.93 -0.71	32.76 -2.12 -0.72	35.59 -1.85 -0.41	29.09 -1.98 -0.54	27.37 -1.41 -0.52	24.48 -1.50 -0.52	24.63 -1.11 -0.44	26.50 -0.92 -0.31
KATONAH____115KV_46KV_TB4 355592	30.79 0.30 -23.05	29.20 0.41 -18.52	28.05 0.38 -16.89	27.23 0.35 -16.53	27.19 0.37 -15.30	27.02 0.61 -8.86	31.29 0.74 -11.03	35.39 0.54 -21.80	35.82 0.73 -19.13	31.42 0.81 -12.99	29.93 1.13 -3.14	30.01 1.01 -6.56	30.10 0.74 -13.60	30.84 0.81 -12.34	32.99 0.55 -21.30	37.80 1.08 -16.75	43.90 1.40 -17.09	53.20 1.84 -17.20	48.88 2.00 -9.85	45.25 1.65 -13.07	42.10 1.44 -12.39	39.19 1.35 -12.38	37.25 1.34 -10.61	35.76 1.19 -7.46
KCE_NY_1 323755	36.04 0.37 -28.23	33.47 0.51 -22.69	31.99 0.52 -20.69	31.10 0.51 -20.25	30.82 0.55 -18.75	29.25 0.84 -10.86	33.96 0.94 -13.52	40.37 0.61 -26.70	40.22 0.83 -23.44	34.40 0.86 -15.91	30.74 1.23 -3.85	31.51 1.03 -8.03	33.13 0.71 -16.66	33.62 0.81 -15.12	37.76 0.52 -26.09	41.51 1.02 -20.52	47.67 1.32 -20.94	57.04 1.81 -21.06	51.06 1.96 -12.06	48.10 1.56 -16.01	44.97 1.53 -15.18	41.93 1.30 -15.16	39.59 1.29 -13.00	37.65 1.41 -9.13
KCE_NY_6_ESR 323823	13.67 0.05 -6.18	15.32 0.08 -4.96	15.37 0.07 -4.53	14.84 0.06 -4.43	15.62 0.00 -4.10	20.01 0.09 -2.37	22.37 -0.10 -2.96	18.61 -0.29 -5.84	20.54 -0.54 -5.13	20.49 -0.62 -3.48	25.50 -1.00 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.48 -0.51 -3.31	16.55 -0.30 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.30 -1.47 -4.61	38.08 -1.59 -2.64	32.84 -1.19 -3.50	30.51 -1.07 -3.32	27.76 -1.02 -3.32	27.16 -0.99 -2.84	28.38 -0.73 -2.00
KEDC_PORT_JEFF_GT2 24210	30.84 0.63 -22.77	29.38 0.80 -18.30	28.16 0.69 -16.69	27.32 0.64 -16.33	27.45 0.81 -15.12	27.66 1.35 -8.76	31.96 1.54 -10.90	35.58 0.98 -21.54	36.31 1.45 -18.90	32.12 1.66 -12.84	31.09 2.31 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.62 1.73 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.28 2.75 -25.12	69.01 3.69 -31.16	66.48 3.96 -25.49	63.68 3.33 -29.81	51.63 2.91 -20.45	52.37 2.67 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
KEDC_PORT_JEFF_GT3 24211	30.84 0.63 -22.77	29.38 0.80 -18.30	28.16 0.69 -16.69	27.32 0.64 -16.33	27.45 0.81 -15.12	27.66 1.35 -8.76	31.96 1.54 -10.90	35.58 0.98 -21.54	36.31 1.45 -18.90	32.12 1.66 -12.84	31.09 2.31 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.62 1.73 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.28 2.75 -25.12	69.01 3.69 -31.16	66.48 3.96 -25.49	63.68 3.33 -29.81	51.63 2.91 -20.45	52.37 2.67 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
KEDC_GLWD_GT4 24219	30.60 0.39 -22.77	29.09 0.51 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.41 0.99 -10.90	35.26 0.67 -21.54	35.82 0.96 -18.90	31.55 1.09 -12.84	30.34 1.57 -3.12	30.39 1.46 -6.49	30.23 1.01 -13.45	31.06 1.17 -12.20	35.80 0.75 -23.91	39.74 1.40 -18.37	52.24 1.70 -25.12	67.54 2.22 -31.16	64.93 2.41 -25.49	62.39 2.05 -29.81	50.59 1.87 -20.45	51.43 1.73 -24.23	38.94 1.77 -11.87	36.06 1.57 -7.38
KEDC_GLWD_GT5 24220	30.60 0.39 -22.77	29.09 0.51 -18.30	27.91 0.44 -16.69	27.08 0.40 -16.33	27.14 0.50 -15.12	27.15 0.84 -8.76	31.41 0.99 -10.90	35.26 0.67 -21.54	35.82 0.96 -18.90	31.55 1.09 -12.84	30.34 1.57 -3.12	30.39 1.46 -6.49	30.23 1.01 -13.45	31.06 1.17 -12.20	35.80 0.75 -23.91	39.74 1.40 -18.37	52.24 1.70 -25.12	67.54 2.22 -31.16	64.93 2.41 -25.49	62.39 2.05 -29.81	50.59 1.87 -20.45	51.43 1.73 -24.23	38.94 1.77 -11.87	36.06 1.57 -7.38
KENSICO____ 23655	30.44 0.28 -22.73	28.90 0.36 -18.27	27.77 0.33 -16.66	26.95 0.30 -16.30	26.96 0.35 -15.09	26.90 0.61 -8.74	31.12 0.72 -10.88	35.07 0.51 -21.50	35.49 0.67 -18.87	31.19 0.76 -12.81	29.84 1.08 -3.10	29.88 0.97 -6.47	29.88 0.71 -13.41	30.65 0.80 -12.17	32.67 0.52 -21.01	37.49 1.00 -16.52	43.56 1.30 -16.86	52.79 1.67 -16.96	48.56 1.81 -9.71	44.98 1.56 -12.89	41.82 1.33 -12.22	38.92 1.25 -12.21	37.03 1.26 -10.46	35.55 1.08 -7.35
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	29.53 0.25 -21.84	28.14 0.32 -17.55	27.07 0.28 -16.01	26.27 0.26 -15.67	26.32 0.30 -14.50	26.42 0.47 -8.40	30.51 0.55 -10.46	34.08 0.37 -20.66	34.55 0.46 -18.13	30.45 0.51 -12.31	29.33 0.69 -2.98	29.31 0.65 -6.21	29.12 0.47 -12.89	29.91 0.53 -11.69	31.71 0.38 -20.18	36.42 0.58 -15.87	42.47 0.86 -16.20	51.62 1.16 -16.30	47.59 1.22 -9.33	43.99 1.07 -12.39	40.91 0.90 -11.74	38.31 1.12 -11.73	36.47 1.11 -10.05	35.10 0.92 -7.07
KIAC_JFK_GT1 23816	30.46 0.25 -22.77	28.90 0.33 -18.30	27.76 0.29 -16.69	26.93 0.25 -16.33	26.93 0.29 -15.12	26.90 0.60 -8.75	31.19 0.78 -10.90	35.18 0.59 -21.54	35.64 0.78 -18.90	31.36 0.90 -12.83	29.87 1.10 -3.11	29.91 0.99 -6.48	29.92 0.73 -13.43	30.69 0.81 -12.19	32.74 0.56 -21.04	37.60 1.08 -16.55	43.64 1.35 -16.88	52.89 1.74 -16.99	48.69 1.93 -9.73	45.13 1.68 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.20 1.42 -10.48	35.62 1.14 -7.37
KIAC_JFK_GT2 23817	30.46 0.25 -22.77	28.90 0.33 -18.30	27.76 0.29 -16.69	26.93 0.25 -16.33	26.93 0.29 -15.12	26.90 0.60 -8.75	31.19 0.78 -10.90	35.18 0.59 -21.54	35.64 0.78 -18.90	31.36 0.90 -12.83	29.87 1.10 -3.11	29.91 0.99 -6.48	29.92 0.73 -13.43	30.69 0.81 -12.19	32.74 0.56 -21.04	37.60 1.08 -16.55	43.64 1.35 -16.88	52.89 1.74 -16.99	48.69 1.93 -9.73	45.13 1.68 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.20 1.42 -10.48	35.62 1.14 -7.37



KIAC_JFK____ 323774	30.46 0.25 -22.77	28.90 0.33 -18.30	27.76 0.29 -16.69	26.93 0.25 -16.33	26.93 0.29 -15.12	26.90 0.60 -8.75	31.19 0.78 -10.90	35.18 0.59 -21.54	35.64 0.78 -18.90	31.36 0.90 -12.83	29.87 1.10 -3.11	29.91 0.99 -6.48	29.92 0.73 -13.43	30.69 0.81 -12.19	32.73 0.55 -21.04	37.60 1.08 -16.55	43.64 1.35 -16.88	52.89 1.74 -16.99	48.68 1.92 -9.73	45.12 1.68 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.22 1.44 -10.48	35.59 1.11 -7.37
KINTIGH____ 23543	13.04 0.03 -5.58	14.80 0.05 -4.48	14.91 0.04 -4.09	14.38 0.03 -4.00	15.23 0.00 -3.70	19.73 0.04 -2.14	22.01 -0.18 -2.67	18.01 -0.33 -5.28	20.03 -0.56 -4.63	20.15 -0.62 -3.14	25.47 -0.95 -0.76	23.27 -0.76 -1.59	18.60 -0.46 -3.29	20.16 -0.51 -2.99	16.02 -0.28 -5.15	23.35 -0.68 -4.05	28.61 -0.94 -4.14	36.85 -1.47 -4.16	37.79 -1.63 -2.38	32.48 -1.22 -3.16	30.17 -1.10 -3.00	27.44 -1.02 -3.00	26.93 -0.94 -2.57	28.16 -0.76 -1.80
KNTFSRNC_46_KV_46KV_LOAD 80397	7.82 -0.55 -0.94	10.15 -0.87 -0.75	10.66 -0.81 -0.69	10.18 -0.84 -0.67	11.34 -0.81 -0.62	16.31 -1.60 -0.36	18.54 -1.42 -0.45	13.36 -0.59 -0.89	16.22 -0.51 -0.78	17.55 -0.60 -0.53	25.17 -0.62 -0.13	21.82 -0.90 -0.27	15.48 -0.84 -0.55	17.14 -1.04 -0.50	11.12 -0.89 -0.87	19.19 -1.46 -0.68	24.71 -1.40 -0.69	33.43 -1.43 -0.70	36.36 -1.07 -0.40	29.72 -1.34 -0.53	27.90 -0.88 -0.50	24.93 -1.04 -0.50	25.02 -0.71 -0.43	26.93 -0.49 -0.30
LACHUTE____HYDRO 323717	36.44 0.73 -28.27	34.00 1.01 -22.72	32.49 0.99 -20.72	31.58 0.95 -20.28	31.33 1.04 -18.77	30.02 1.60 -10.87	34.82 1.78 -13.53	41.01 1.21 -26.74	41.12 1.69 -23.47	35.16 1.60 -15.93	31.75 2.23 -3.86	32.31 1.82 -8.04	33.64 1.20 -16.68	34.24 1.42 -15.14	38.20 0.92 -26.13	42.28 1.76 -20.55	48.71 2.34 -20.97	58.57 3.31 -21.09	52.59 3.48 -12.08	49.28 2.72 -16.03	46.27 2.80 -15.20	42.89 2.24 -15.18	40.51 2.20 -13.02	38.89 2.63 -9.15
LAWRNCV_115KV_TB1 80681	8.17 -0.47 -1.21	10.53 -0.71 -0.97	11.01 -0.66 -0.88	10.55 -0.66 -0.86	11.63 -0.69 -0.80	16.61 -1.40 -0.46	18.82 -1.27 -0.58	13.65 -0.55 -1.14	16.45 -0.51 -1.00	17.67 -0.63 -0.68	25.13 -0.69 -0.16	21.94 -0.85 -0.34	15.70 -0.77 -0.71	17.36 -0.97 -0.65	11.42 -0.84 -1.11	19.41 -1.44 -0.88	24.73 -1.58 -0.89	32.98 -2.08 -0.90	35.66 -1.89 -0.51	29.26 -1.95 -0.68	27.79 -1.13 -0.65	24.94 -1.17 -0.65	25.07 -0.78 -0.55	26.91 -0.60 -0.39
LEDERLE____ 23769	29.73 0.28 -22.01	28.33 0.37 -17.69	27.25 0.33 -16.13	26.45 0.31 -15.79	26.48 0.35 -14.62	26.61 0.60 -8.46	30.75 0.70 -10.54	34.38 0.50 -20.82	34.87 0.64 -18.27	30.75 0.72 -12.41	29.66 1.00 -3.00	29.63 0.92 -6.26	29.43 0.68 -12.99	30.22 0.74 -11.79	31.99 0.50 -20.34	36.91 0.94 -16.00	42.98 1.25 -16.33	52.23 1.64 -16.43	48.22 1.78 -9.40	44.51 1.50 -12.49	41.40 1.30 -11.83	38.51 1.22 -11.82	36.65 1.21 -10.13	35.26 1.03 -7.12
LIGHTHSE_115KV_TB6 355974	11.05 -0.08 -3.69	13.13 -0.11 -2.97	13.37 -0.12 -2.71	12.88 -0.11 -2.65	13.85 -0.13 -2.45	18.78 -0.19 -1.42	21.07 -0.21 -1.77	16.42 -0.13 -3.49	18.83 -0.19 -3.07	19.50 -0.21 -2.08	25.86 -0.31 -0.50	23.23 -0.27 -1.05	17.72 -0.22 -2.18	19.45 -0.21 -1.98	14.42 -0.13 -3.41	22.42 -0.24 -2.68	27.82 -0.33 -2.74	36.58 -0.34 -2.76	38.28 -0.33 -1.58	32.38 -0.24 -2.10	30.06 -0.20 -1.99	27.22 -0.23 -1.98	26.70 -0.30 -1.70	28.06 -0.24 -1.20
LINDEN COGEN____ 23786	30.42 0.22 -22.77	28.85 0.28 -18.30	27.70 0.24 -16.69	26.88 0.21 -16.33	26.87 0.23 -15.12	26.78 0.47 -8.75	31.02 0.61 -10.90	35.04 0.44 -21.54	35.46 0.61 -18.90	31.16 0.71 -12.83	29.74 0.97 -3.11	29.80 0.87 -6.48	29.84 0.65 -13.43	30.60 0.73 -12.19	32.67 0.49 -21.04	37.46 0.94 -16.55	43.47 1.17 -16.88	52.62 1.47 -16.99	48.35 1.59 -9.73	44.85 1.41 -12.91	41.70 1.19 -12.24	38.81 1.12 -12.23	36.97 1.19 -10.48	35.40 0.92 -7.37
LINDHRST_69_KV_BK1 356055	30.81 0.59 -22.77	29.32 0.75 -18.30	28.13 0.66 -16.69	27.28 0.60 -16.33	27.40 0.76 -15.12	27.57 1.26 -8.76	31.88 1.46 -10.90	35.54 0.94 -21.54	36.25 1.39 -18.90	32.03 1.57 -12.84	30.95 2.18 -3.11	30.86 1.93 -6.48	30.57 1.36 -13.45	31.44 1.56 -12.19	36.03 0.98 -23.91	40.16 1.82 -18.37	52.95 2.41 -25.12	68.53 3.21 -31.16	66.00 3.48 -25.49	63.25 2.90 -29.81	51.32 2.60 -20.45	52.09 2.39 -24.23	39.60 2.43 -11.87	36.89 2.41 -7.37
LIPA_MISC_IPP 23656	30.85 0.64 -22.77	29.39 0.81 -18.30	28.17 0.70 -16.69	27.33 0.65 -16.33	27.46 0.82 -15.12	27.66 1.35 -8.76	31.98 1.56 -10.90	35.58 0.98 -21.54	36.31 1.45 -18.90	32.12 1.66 -12.84	31.08 2.31 -3.11	31.01 2.09 -6.48	30.68 1.47 -13.45	31.54 1.66 -12.19	36.11 1.06 -23.91	40.32 1.98 -18.37	53.20 2.67 -25.12	68.91 3.59 -31.16	66.37 3.85 -25.49	63.55 3.21 -29.81	51.58 2.86 -20.45	52.34 2.65 -24.23	39.83 2.66 -11.87	37.11 2.63 -7.37
LISF____SOLAR 323691	30.87 0.65 -22.77	29.40 0.82 -18.30	28.19 0.72 -16.69	27.35 0.67 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	32.02 1.60 -10.90	35.60 1.01 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.16 2.39 -3.12	31.18 2.24 -6.49	30.76 1.55 -13.45	31.67 1.79 -12.20	36.20 1.15 -23.91	40.48 2.14 -18.37	53.36 2.82 -25.12	69.15 3.83 -31.16	66.63 4.11 -25.49	63.80 3.45 -29.81	51.75 3.03 -20.45	52.47 2.78 -24.23	40.03 2.86 -11.87	37.12 2.63 -7.38
LITTLE FALLS____HYD 24013	8.30 0.14 -0.72	11.05 0.20 -0.58	11.53 0.22 -0.53	11.07 0.21 -0.52	12.25 0.25 -0.48	18.23 0.40 -0.28	20.35 0.49 -0.35	14.09 0.35 -0.68	16.97 0.41 -0.60	18.44 0.41 -0.41	26.35 0.59 -0.10	23.12 0.47 -0.21	16.49 0.30 -0.43	18.39 0.32 -0.39	11.99 0.18 -0.67	20.84 0.34 -0.53	26.46 0.51 -0.54	35.49 0.79 -0.54	38.23 0.89 -0.31	31.68 0.73 -0.41	29.34 0.68 -0.39	26.52 0.66 -0.39	26.29 0.66 -0.33	28.10 0.76 -0.23
LITTLRIV_115KV_TB1 356100	8.27 -0.40 -1.23	10.65 -0.62 -0.99	11.15 -0.54 -0.90	10.67 -0.56 -0.89	11.77 -0.58 -0.82	16.79 -1.23 -0.47	19.05 -1.05 -0.59	13.83 -0.39 -1.17	16.66 -0.32 -1.02	17.88 -0.44 -0.70	25.39 -0.44 -0.17	22.17 -0.63 -0.35	15.88 -0.61 -0.73	17.57 -0.78 -0.66	11.56 -0.72 -1.14	19.65 -1.22 -0.90	25.03 -1.30 -0.92	33.48 -1.61 -0.92	36.23 -1.33 -0.53	29.71 -1.53 -0.70	28.17 -0.76 -0.66	25.26 -0.87 -0.66	25.36 -0.51 -0.57	27.21 -0.30 -0.40
LI_NEWBRDGE____DRP 323616	30.63 0.42 -22.77	29.11 0.53 -18.30	27.91 0.44 -16.69	27.07 0.39 -16.33	27.15 0.51 -15.12	27.18 0.88 -8.76	31.45 1.03 -10.90	35.28 0.68 -21.54	35.88 1.02 -18.90	31.64 1.18 -12.84	30.36 1.59 -3.11	30.34 1.41 -6.48	30.22 1.01 -13.45	31.03 1.15 -12.19	35.76 0.71 -23.91	39.68 1.34 -18.37	52.29 1.75 -25.12	67.58 2.25 -31.16	65.00 2.48 -25.49	62.45 2.11 -29.81	50.56 1.84 -20.45	51.40 1.71 -24.23	38.94 1.77 -11.87	36.21 1.74 -7.37
LOCKPORT_115KV_TB60_63_64 80432	13.28 0.01 -5.84	14.98 0.02 -4.69	15.06 0.00 -4.28	14.53 0.00 -4.19	15.35 -0.05 -3.87	19.76 -0.04 -2.24	21.99 -0.31 -2.79	18.13 -0.44 -5.52	20.07 -0.73 -4.84	20.09 -0.83 -3.29	25.22 -1.23 -0.80	23.10 -1.01 -1.66	18.58 -0.63 -3.44	20.10 -0.71 -3.12	16.13 -0.40 -5.39	23.29 -0.92 -4.24	28.52 -1.22 -4.33	36.64 -1.88 -4.35	37.45 -2.07 -2.49	32.29 -1.56 -3.31	29.96 -1.44 -3.14	27.28 -1.32 -3.13	26.75 -1.24 -2.69	28.00 -1.00 -1.89



LOCKPORT___CC1 323769	13.31 0.01 -5.86	15.00 0.02 -4.71	15.09 0.01 -4.30	14.56 0.01 -4.20	15.34 -0.07 -3.89	19.78 -0.02 -2.25	22.03 -0.29 -2.81	18.16 -0.44 -5.54	20.09 -0.73 -4.87	20.10 -0.83 -3.30	25.20 -1.26 -0.80	23.10 -1.01 -1.67	18.59 -0.63 -3.46	20.12 -0.71 -3.14	16.15 -0.41 -5.42	23.29 -0.94 -4.26	28.54 -1.22 -4.35	36.62 -1.91 -4.37	37.43 -2.11 -2.50	32.27 -1.59 -3.32	29.98 -1.44 -3.15	27.29 -1.33 -3.15	26.71 -1.29 -2.70	28.03 -0.97 -1.90
LOCKPORT___CC2 323770	13.31 0.01 -5.86	15.00 0.02 -4.71	15.09 0.01 -4.30	14.56 0.01 -4.20	15.34 -0.07 -3.89	19.78 -0.02 -2.25	22.03 -0.29 -2.81	18.16 -0.44 -5.54	20.09 -0.73 -4.87	20.10 -0.83 -3.30	25.20 -1.26 -0.80	23.10 -1.01 -1.67	18.59 -0.63 -3.46	20.12 -0.71 -3.14	16.15 -0.41 -5.42	23.29 -0.94 -4.26	28.54 -1.22 -4.35	36.62 -1.91 -4.37	37.43 -2.11 -2.50	32.27 -1.59 -3.32	29.98 -1.44 -3.15	27.29 -1.33 -3.15	26.71 -1.29 -2.70	28.03 -0.97 -1.90
LOCKPORT___CC3 323771	13.31 0.01 -5.86	15.00 0.02 -4.71	15.09 0.01 -4.30	14.56 0.01 -4.20	15.34 -0.07 -3.89	19.78 -0.02 -2.25	22.03 -0.29 -2.81	18.16 -0.44 -5.54	20.09 -0.73 -4.87	20.10 -0.83 -3.30	25.20 -1.26 -0.80	23.10 -1.01 -1.67	18.59 -0.63 -3.46	20.12 -0.71 -3.14	16.15 -0.41 -5.42	23.29 -0.94 -4.26	28.54 -1.22 -4.35	36.62 -1.91 -4.37	37.43 -2.11 -2.50	32.27 -1.59 -3.32	29.98 -1.44 -3.15	27.29 -1.33 -3.15	26.71 -1.29 -2.70	28.03 -0.97 -1.90
LONG_LAKE_PHOENIX 24014	11.44 -0.07 -4.08	13.46 -0.09 -3.28	13.67 -0.11 -2.99	13.18 -0.09 -2.93	14.11 -0.13 -2.71	18.94 -0.18 -1.57	21.25 -0.21 -1.95	16.76 -0.16 -3.86	19.12 -0.22 -3.39	19.70 -0.23 -2.30	25.88 -0.33 -0.56	23.34 -0.27 -1.16	17.98 -0.19 -2.41	19.70 -0.18 -2.19	14.82 -0.10 -3.77	22.72 -0.22 -2.97	28.14 -0.30 -3.03	36.76 -0.44 -3.05	38.30 -0.48 -1.74	32.45 -0.40 -2.32	30.10 -0.37 -2.19	27.30 -0.36 -2.19	26.77 -0.40 -1.88	28.11 -0.33 -1.32
LOVETT___3 23632	29.77 0.25 -22.09	28.34 0.32 -17.75	27.26 0.29 -16.19	26.46 0.27 -15.84	26.49 0.30 -14.67	26.57 0.53 -8.49	30.71 0.62 -10.57	34.39 0.44 -20.89	34.87 0.57 -18.34	30.73 0.65 -12.45	29.57 0.90 -3.01	29.56 0.83 -6.28	29.41 0.61 -13.03	30.19 0.67 -11.83	32.01 0.46 -20.41	36.88 0.86 -16.05	42.91 1.12 -16.38	52.11 1.47 -16.48	48.06 1.59 -9.44	44.40 1.34 -12.53	41.30 1.16 -11.87	38.42 1.10 -11.86	36.58 1.11 -10.17	35.18 0.92 -7.15
LOVETT___4 23642	29.77 0.25 -22.09	28.34 0.32 -17.75	27.26 0.29 -16.19	26.46 0.27 -15.84	26.49 0.30 -14.67	26.57 0.53 -8.49	30.71 0.62 -10.57	34.39 0.44 -20.89	34.87 0.57 -18.34	30.73 0.65 -12.45	29.57 0.90 -3.01	29.56 0.83 -6.28	29.41 0.61 -13.03	30.19 0.67 -11.83	32.01 0.46 -20.41	36.88 0.86 -16.05	42.91 1.12 -16.38	52.11 1.47 -16.48	48.06 1.59 -9.44	44.40 1.34 -12.53	41.30 1.16 -11.87	38.42 1.10 -11.86	36.58 1.11 -10.17	35.18 0.92 -7.15
LOVETT___5 23593	29.77 0.25 -22.09	28.34 0.32 -17.75	27.26 0.29 -16.19	26.46 0.27 -15.84	26.49 0.30 -14.67	26.57 0.53 -8.49	30.71 0.62 -10.57	34.39 0.44 -20.89	34.87 0.57 -18.34	30.73 0.65 -12.45	29.57 0.90 -3.01	29.56 0.83 -6.28	29.41 0.61 -13.03	30.19 0.67 -11.83	32.01 0.46 -20.41	36.88 0.86 -16.05	42.91 1.12 -16.38	52.11 1.47 -16.48	48.06 1.59 -9.44	44.40 1.34 -12.53	41.30 1.16 -11.87	38.42 1.10 -11.86	36.58 1.11 -10.17	35.18 0.92 -7.15
LOWER RAQUET___HYD 24057	8.22 -0.48 -1.26	10.58 -0.71 -1.01	11.05 -0.66 -0.93	10.59 -0.66 -0.91	11.75 -0.61 -0.84	16.63 -1.40 -0.49	18.85 -1.27 -0.60	13.70 -0.55 -1.19	16.49 -0.51 -1.05	17.70 -0.63 -0.71	25.11 -0.72 -0.17	21.93 -0.88 -0.36	15.74 -0.77 -0.74	17.39 -0.97 -0.68	11.46 -0.85 -1.17	19.43 -1.46 -0.92	24.65 -1.70 -0.94	32.99 -2.12 -0.94	35.65 -1.93 -0.54	29.26 -1.98 -0.72	27.79 -1.16 -0.68	24.92 -1.22 -0.68	25.07 -0.81 -0.58	26.92 -0.60 -0.41
LOWER___HUDSON 24059	35.46 0.26 -27.77	32.96 0.37 -22.32	31.52 0.39 -20.35	30.63 0.37 -19.92	30.37 0.41 -18.44	28.87 0.65 -10.68	33.51 0.70 -13.29	39.78 0.46 -26.26	39.60 0.59 -23.05	33.91 0.63 -15.65	30.37 0.92 -3.79	31.15 0.81 -7.90	32.71 0.57 -16.38	33.19 0.64 -14.87	37.20 0.40 -25.66	40.93 0.78 -20.18	47.02 1.02 -20.59	56.25 1.37 -20.72	50.38 1.48 -11.86	47.44 1.16 -15.75	44.33 1.13 -14.93	41.37 0.99 -14.91	39.04 0.96 -12.78	37.07 0.97 -8.98
LOWVILLE_115KV_TB2 356335	9.32 -0.07 -1.96	11.73 -0.11 -1.57	12.13 -0.09 -1.43	11.66 -0.09 -1.40	12.73 -0.09 -1.30	18.12 -0.18 -0.75	20.37 -0.08 -0.94	14.96 0.05 -1.85	17.63 0.05 -1.63	18.73 0.00 -1.10	25.93 0.00 -0.27	22.94 -0.07 -0.56	16.78 -0.14 -1.16	18.59 -0.14 -1.05	12.82 -0.13 -1.81	21.19 -0.20 -1.42	26.76 -0.10 -1.45	35.76 0.14 -1.46	38.17 0.30 -0.84	31.80 0.15 -1.11	29.58 0.25 -1.05	26.62 0.10 -1.05	26.28 0.08 -0.90	27.91 0.16 -0.63
LUTHERFT_115KV_GLOB_FND_222 355753	36.03 0.36 -28.23	33.47 0.51 -22.69	31.99 0.52 -20.69	31.09 0.50 -20.25	30.81 0.54 -18.75	29.25 0.84 -10.86	33.94 0.92 -13.52	40.37 0.61 -26.70	40.21 0.81 -23.44	34.38 0.85 -15.91	30.72 1.21 -3.85	31.51 1.03 -8.03	33.13 0.71 -16.66	33.62 0.81 -15.12	37.76 0.52 -26.09	41.49 1.00 -20.52	47.64 1.30 -20.94	57.04 1.81 -21.06	51.02 1.93 -12.06	48.07 1.53 -16.01	44.94 1.50 -15.18	41.90 1.27 -15.16	39.56 1.26 -13.00	37.63 1.38 -9.13
LUTHERNY_35_KV_BK2 355980	36.04 0.37 -28.23	33.47 0.51 -22.69	31.99 0.52 -20.69	31.10 0.51 -20.25	30.82 0.55 -18.75	29.25 0.84 -10.86	33.96 0.94 -13.52	40.37 0.61 -26.70	40.22 0.83 -23.44	34.40 0.86 -15.91	30.74 1.23 -3.85	31.51 1.03 -8.03	33.13 0.71 -16.66	33.62 0.81 -15.12	37.76 0.52 -26.09	41.51 1.02 -20.52	47.67 1.32 -20.94	57.07 1.84 -21.06	51.06 1.96 -12.06	48.10 1.56 -16.01	44.97 1.53 -15.18	41.93 1.30 -15.16	39.59 1.29 -13.00	37.66 1.41 -9.13
LWR___OSWEGATCHIE_HYD 23850	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.49 -1.24	11.08 -0.49 -1.22	12.13 -0.52 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.17 -1.04 -1.23	25.53 -1.14 -1.26	34.10 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.73 -0.91	25.56 -0.81 -0.91	25.45 -0.63 -0.78	27.15 -0.52 -0.55
LYONS_FALL_HYD 23570	9.25 0.01 -1.81	11.72 0.00 -1.45	12.13 0.02 -1.32	11.65 0.01 -1.29	12.77 0.05 -1.20	18.26 0.02 -0.69	20.47 0.10 -0.86	14.91 0.14 -1.71	17.63 0.18 -1.50	18.78 0.14 -1.02	26.14 0.23 -0.25	23.12 0.16 -0.51	16.86 0.03 -1.07	18.71 0.05 -0.97	12.81 0.00 -1.67	21.32 0.04 -1.31	26.90 0.15 -1.34	35.95 0.44 -1.35	38.36 0.56 -0.77	31.95 0.40 -1.02	29.66 0.42 -0.97	26.72 0.28 -0.97	26.38 0.25 -0.83	28.02 0.33 -0.58
MADISON___COUNTY_LFGE 323628	10.35 0.18 -2.74	12.72 0.25 -2.20	13.06 0.27 -2.01	12.57 0.26 -1.96	13.63 0.29 -1.82	19.06 0.46 -1.05	21.35 0.53 -1.31	16.03 0.38 -2.59	18.66 0.43 -2.27	19.63 0.46 -1.54	26.70 0.67 -0.37	23.81 0.58 -0.78	17.76 0.38 -1.62	19.59 0.44 -1.47	13.95 0.28 -2.53	22.46 0.50 -1.99	28.13 0.69 -2.03	37.23 1.02 -2.04	39.31 1.11 -1.17	33.00 0.92 -1.55	30.56 0.82 -1.47	27.62 0.69 -1.47	27.17 0.61 -1.26	28.70 0.70 -0.89



MALONE___115KV_TB1 356076	7.92 -0.55 -1.04	10.26 -0.84 -0.83	10.75 -0.79 -0.76	10.28 -0.81 -0.74	11.41 -0.79 -0.69	16.37 -1.58 -0.40	18.60 -1.40 -0.50	13.45 -0.59 -0.98	16.31 -0.51 -0.86	17.59 -0.62 -0.58	25.16 -0.64 -0.14	21.87 -0.88 -0.29	15.57 -0.80 -0.61	17.22 -1.03 -0.56	11.22 -0.88 -0.96	19.27 -1.46 -0.75	24.71 -1.47 -0.77	33.30 -1.64 -0.77	36.14 -1.33 -0.44	29.56 -1.56 -0.59	27.84 -0.99 -0.56	24.93 -1.10 -0.56	25.02 -0.76 -0.48	26.88 -0.57 -0.34
MAPLEWOD_115KV_TB3 80458	35.30 0.22 -27.64	32.82 0.33 -22.22	31.38 0.35 -20.26	30.51 0.34 -19.83	30.24 0.37 -18.35	28.74 0.56 -10.63	33.35 0.60 -13.23	39.57 0.37 -26.15	39.40 0.49 -22.95	33.77 0.56 -15.58	30.23 0.80 -3.77	30.98 0.67 -7.86	32.55 0.47 -16.31	33.02 0.53 -14.80	37.01 0.32 -25.55	40.68 0.62 -20.09	46.72 0.81 -20.50	55.88 1.09 -20.62	50.03 1.19 -11.81	47.13 0.92 -15.68	44.03 0.90 -14.86	41.10 0.79 -14.84	38.78 0.76 -12.72	36.79 0.73 -8.94
MAPLE_RIDGE_WT_1 323574	7.67 -0.36 -0.59	10.24 -0.50 -0.47	10.74 -0.47 -0.43	10.32 -0.44 -0.42	11.52 -0.39 -0.39	17.00 -0.77 -0.23	19.07 -0.72 -0.28	13.25 -0.37 -0.56	16.06 -0.38 -0.49	17.50 -0.46 -0.33	25.15 -0.59 -0.08	21.94 -0.67 -0.17	15.54 -0.57 -0.35	17.28 -0.73 -0.31	11.15 -0.53 -0.54	19.50 -0.90 -0.43	24.86 -0.99 -0.44	33.40 -1.20 -0.44	36.14 -1.15 -0.25	29.71 -1.16 -0.33	27.68 -0.91 -0.32	24.92 -0.87 -0.32	24.89 -0.68 -0.27	26.73 -0.57 -0.19
MAPLE_RIDGE_WT_2 323611	7.67 -0.36 -0.59	10.24 -0.50 -0.47	10.74 -0.47 -0.43	10.32 -0.44 -0.42	11.52 -0.39 -0.39	17.00 -0.77 -0.23	19.07 -0.72 -0.28	13.25 -0.37 -0.56	16.06 -0.38 -0.49	17.50 -0.46 -0.33	25.15 -0.59 -0.08	21.94 -0.67 -0.17	15.54 -0.57 -0.35	17.28 -0.73 -0.31	11.15 -0.53 -0.54	19.50 -0.90 -0.43	24.86 -0.99 -0.44	33.40 -1.20 -0.44	36.14 -1.15 -0.25	29.71 -1.16 -0.33	27.68 -0.91 -0.32	24.92 -0.87 -0.32	24.89 -0.68 -0.27	26.73 -0.57 -0.19
MARBLE_RIVER_WT_PWR 323696	7.72 -0.65 -0.93	10.02 -1.00 -0.75	10.54 -0.93 -0.68	10.05 -0.96 -0.67	11.29 -0.85 -0.62	16.10 -1.81 -0.36	18.28 -1.68 -0.44	13.15 -0.78 -0.88	15.98 -0.75 -0.77	17.29 -0.86 -0.52	24.79 -1.00 -0.13	21.50 -1.21 -0.26	15.24 -1.07 -0.55	16.86 -1.33 -0.50	10.94 -1.06 -0.86	18.89 -1.76 -0.67	24.22 -1.88 -0.69	32.81 -2.05 -0.69	35.65 -1.78 -0.40	29.17 -1.89 -0.53	27.41 -1.36 -0.50	24.51 -1.45 -0.50	24.67 -1.06 -0.43	26.54 -0.87 -0.30
MARSHVLE_115KV_TB1 80742	42.18 0.28 -34.46	38.36 0.39 -27.70	36.41 0.38 -25.25	35.43 0.36 -24.72	34.81 0.40 -22.88	31.46 0.67 -13.25	36.81 0.80 -16.50	46.21 0.56 -32.59	45.31 0.75 -28.61	37.77 0.72 -19.42	31.39 1.03 -4.70	33.06 0.81 -9.80	36.54 0.44 -20.33	36.69 0.55 -18.45	43.40 0.41 -31.85	45.87 0.86 -25.04	52.16 1.19 -25.55	61.72 1.84 -25.71	53.72 1.96 -14.72	51.66 1.59 -19.54	48.32 1.53 -18.52	45.32 1.35 -18.50	42.38 1.21 -15.86	39.45 1.19 -11.15
MARSH_HILL_WT_PWR 323713	14.74 0.12 -7.19	16.24 0.19 -5.78	16.24 0.19 -5.27	15.72 0.22 -5.16	16.47 0.17 -4.77	20.66 0.35 -2.76	23.25 0.29 -3.44	19.93 0.08 -6.80	21.83 -0.10 -5.97	21.53 -0.14 -4.05	26.31 -0.33 -0.98	24.22 -0.27 -2.04	19.86 -0.14 -4.24	21.41 -0.12 -3.85	17.74 -0.04 -6.64	25.03 -0.16 -5.22	30.57 -0.18 -5.33	39.25 -0.27 -5.36	39.81 -0.30 -3.07	34.43 -0.18 -4.08	31.96 -0.17 -3.86	29.15 -0.18 -3.86	28.36 -0.25 -3.31	29.46 0.03 -2.33
MCINTYRE_115KV_TB2 80467	8.25 -0.37 -1.19	10.65 -0.58 -0.96	11.16 -0.50 -0.87	10.68 -0.52 -0.85	11.79 -0.52 -0.79	16.83 -1.18 -0.46	19.11 -0.98 -0.57	13.86 -0.33 -1.13	16.69 -0.26 -0.99	17.93 -0.37 -0.67	25.49 -0.33 -0.16	22.25 -0.54 -0.34	15.90 -0.57 -0.70	17.60 -0.73 -0.64	11.56 -0.68 -1.10	19.72 -1.12 -0.86	25.18 -1.12 -0.88	33.72 -1.33 -0.89	36.51 -1.04 -0.51	29.93 -1.28 -0.67	28.34 -0.57 -0.64	25.42 -0.69 -0.64	25.49 -0.35 -0.55	27.36 -0.14 -0.38
MECO___69_KV_BK1 80468	40.71 0.48 -32.79	37.28 0.66 -26.36	35.45 0.64 -24.03	34.48 0.61 -23.52	33.97 0.68 -21.77	31.24 1.09 -12.61	36.48 1.27 -15.70	44.97 0.90 -31.02	44.47 1.29 -27.22	37.46 1.36 -18.48	32.03 1.90 -4.47	33.28 1.50 -9.33	36.06 0.95 -19.35	36.38 1.13 -17.56	42.27 0.82 -30.30	45.50 1.70 -23.83	51.99 2.26 -24.32	61.81 3.18 -24.47	54.34 3.30 -14.01	51.70 2.56 -18.60	48.47 2.57 -17.63	45.19 2.11 -17.61	42.34 1.95 -15.10	39.67 1.95 -10.61
MENANDS__115KV_TB5 355628	35.22 0.19 -27.59	32.73 0.29 -22.18	31.31 0.31 -20.22	30.45 0.31 -19.79	30.18 0.33 -18.32	28.67 0.51 -10.61	33.25 0.53 -13.21	39.47 0.31 -26.10	39.27 0.41 -22.90	33.67 0.49 -15.55	30.12 0.69 -3.76	30.88 0.58 -7.85	32.45 0.41 -16.28	32.92 0.46 -14.77	36.91 0.27 -25.50	40.54 0.52 -20.05	46.53 0.66 -20.46	55.64 0.89 -20.59	49.78 0.96 -11.79	46.94 0.76 -15.65	43.84 0.73 -14.83	40.92 0.64 -14.82	38.61 0.61 -12.70	36.61 0.57 -8.93
MG INDUSTRY___DRP 24185	34.96 0.17 -27.35	32.50 0.25 -21.99	31.10 0.27 -20.05	30.23 0.26 -19.62	29.97 0.29 -18.16	28.49 0.42 -10.52	33.06 0.45 -13.10	39.20 0.27 -25.87	39.01 0.35 -22.71	33.46 0.42 -15.42	29.98 0.59 -3.73	30.74 0.52 -7.78	32.27 0.36 -16.14	32.74 0.41 -14.65	36.67 0.25 -25.28	40.31 0.46 -19.88	46.28 0.58 -20.29	55.36 0.79 -20.41	49.57 0.85 -11.69	46.75 0.70 -15.51	43.62 0.65 -14.70	40.74 0.59 -14.69	38.47 0.58 -12.59	36.48 0.52 -8.85
MID___OSWEGATCHIE_HYD 23849	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.49 -1.24	11.08 -0.49 -1.22	12.13 -0.52 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.17 -1.04 -1.23	25.53 -1.14 -1.26	34.10 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.73 -0.91	25.56 -0.81 -0.91	25.45 -0.63 -0.78	27.15 -0.52 -0.55
MID___RAQUETTE_HYD 23851	8.22 -0.48 -1.26	10.58 -0.71 -1.01	11.05 -0.66 -0.93	10.59 -0.66 -0.91	11.66 -0.70 -0.84	16.63 -1.40 -0.49	18.85 -1.27 -0.60	13.70 -0.55 -1.19	16.49 -0.51 -1.05	17.70 -0.63 -0.71	25.11 -0.72 -0.17	21.93 -0.88 -0.36	15.74 -0.77 -0.74	17.39 -0.97 -0.68	11.46 -0.85 -1.17	19.43 -1.46 -0.92	24.72 -1.63 -0.94	32.99 -2.12 -0.94	35.65 -1.93 -0.54	29.26 -1.98 -0.72	27.76 -1.19 -0.68	24.95 -1.20 -0.68	25.07 -0.81 -0.58	26.90 -0.62 -0.41
MILLIKEN___1 23584	14.54 0.17 -6.93	16.09 0.25 -5.57	16.11 0.25 -5.08	15.57 0.25 -4.97	16.38 0.25 -4.60	20.63 0.42 -2.66	23.30 0.47 -3.32	19.92 0.31 -6.55	22.01 0.30 -5.75	21.85 0.32 -3.91	27.04 0.44 -0.95	24.82 0.40 -1.97	20.14 0.28 -4.09	21.77 0.37 -3.71	17.79 0.25 -6.40	25.47 0.46 -5.04	31.14 0.58 -5.14	40.19 0.85 -5.17	40.92 0.93 -2.96	35.23 0.76 -3.93	32.67 0.68 -3.72	29.77 0.59 -3.72	28.97 0.48 -3.19	29.95 0.60 -2.24
MILLIKEN___2 23585	14.54 0.17 -6.93	16.09 0.25 -5.57	16.11 0.25 -5.08	15.57 0.25 -4.97	16.38 0.25 -4.60	20.63 0.42 -2.66	23.30 0.47 -3.32	19.92 0.31 -6.55	22.01 0.30 -5.75	21.85 0.32 -3.91	27.04 0.44 -0.95	24.82 0.40 -1.97	20.14 0.28 -4.09	21.77 0.37 -3.71	17.79 0.25 -6.40	25.47 0.46 -5.04	31.14 0.58 -5.14	40.19 0.85 -5.17	40.92 0.93 -2.96	35.23 0.76 -3.93	32.67 0.68 -3.72	29.77 0.59 -3.72	28.97 0.48 -3.19	29.95 0.60 -2.24



MILLIKEN___DIESEL 23629	14.54 0.17 -6.93	16.09 0.25 -5.57	16.11 0.25 -5.08	15.57 0.25 -4.97	16.38 0.25 -4.60	20.63 0.42 -2.66	23.30 0.47 -3.32	19.92 0.31 -6.55	22.01 0.30 -5.75	21.85 0.32 -3.91	27.04 0.44 -0.95	24.82 0.40 -1.97	20.14 0.28 -4.09	21.77 0.37 -3.71	17.79 0.25 -6.40	25.47 0.46 -5.04	31.14 0.58 -5.14	40.19 0.85 -5.17	40.92 0.93 -2.96	35.23 0.76 -3.93	32.67 0.68 -3.72	29.77 0.59 -3.72	28.97 0.48 -3.19	29.95 0.60 -2.24
MILLSEAT___LFGE 323607	13.29 0.11 -5.74	15.05 0.16 -4.61	15.15 0.16 -4.21	14.61 0.14 -4.12	15.44 0.10 -3.81	19.97 0.21 -2.21	22.24 -0.02 -2.75	18.28 -0.21 -5.43	20.29 -0.43 -4.77	20.37 -0.49 -3.24	25.70 -0.74 -0.78	23.50 -0.58 -1.63	18.82 -0.33 -3.39	20.41 -0.35 -3.07	16.25 -0.20 -5.31	23.62 -0.52 -4.17	28.96 -0.71 -4.26	37.32 -1.13 -4.28	38.23 -1.26 -2.45	32.87 -0.92 -3.26	30.48 -0.88 -3.09	27.71 -0.84 -3.08	27.11 -0.83 -2.64	28.43 -0.54 -1.86
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	30.36 0.27 -22.66	28.83 0.35 -18.21	27.71 0.32 -16.60	26.90 0.30 -16.25	26.90 0.33 -15.04	26.84 0.58 -8.71	31.04 0.68 -10.85	34.97 0.48 -21.43	35.40 0.64 -18.81	31.12 0.72 -12.77	29.78 1.03 -3.09	29.81 0.68 -6.44	29.81 0.74 -13.37	30.56 0.74 -12.13	32.58 0.50 -20.94	37.39 0.96 -16.46	43.43 1.22 -16.80	52.67 1.61 -16.90	48.45 1.74 -9.68	44.85 1.47 -12.85	41.72 1.27 -12.18	38.83 1.20 -12.17	36.94 1.21 -10.43	35.47 1.03 -7.33
MILLWOOD_13_KV_LOAD 356217	30.37 0.28 -22.66	28.85 0.37 -18.21	27.72 0.33 -16.60	26.91 0.31 -16.25	26.90 0.33 -15.04	26.86 0.60 -8.71	31.06 0.70 -10.85	34.98 0.50 -21.43	35.43 0.67 -18.81	31.15 0.76 -12.77	29.80 1.05 -3.09	29.86 0.97 -6.44	29.82 0.69 -13.37	30.60 0.78 -12.13	32.59 0.51 -20.94	37.43 1.00 -16.46	43.51 1.30 -16.80	52.74 1.67 -16.90	48.56 1.85 -9.68	44.94 1.56 -12.85	41.78 1.33 -12.18	38.88 1.25 -12.17	36.99 1.26 -10.43	35.53 1.08 -7.33
MODEL_CITY_ENERGY 24167	13.26 -0.07 -5.89	14.92 -0.08 -4.74	15.00 -0.10 -4.32	14.48 -0.09 -4.23	15.25 -0.18 -3.91	19.62 -0.19 -2.27	21.83 -0.51 -2.82	18.04 -0.59 -5.57	19.94 -0.91 -4.89	19.92 -1.02 -3.32	24.93 -1.54 -0.80	22.87 -1.26 -1.68	18.44 -0.80 -3.48	19.94 -0.90 -3.16	16.05 -0.53 -5.45	23.10 -1.16 -4.28	28.28 -1.50 -4.37	36.23 -2.32 -4.40	37.00 -2.55 -2.52	31.92 -1.95 -3.34	29.66 -1.78 -3.17	27.03 -1.60 -3.16	26.44 -1.57 -2.71	27.77 -1.25 -1.91
MODERN_LFGE___ 323580	13.26 -0.07 -5.89	14.92 -0.08 -4.74	15.00 -0.10 -4.32	14.48 -0.09 -4.23	15.25 -0.18 -3.91	19.62 -0.19 -2.27	21.83 -0.51 -2.82	18.04 -0.59 -5.57	19.94 -0.91 -4.89	19.92 -1.02 -3.32	24.93 -1.54 -0.80	22.87 -1.26 -1.68	18.44 -0.80 -3.48	19.94 -0.90 -3.16	16.05 -0.53 -5.45	23.10 -1.16 -4.28	28.28 -1.50 -4.37	36.23 -2.32 -4.40	37.00 -2.55 -2.52	31.92 -1.95 -3.34	29.66 -1.78 -3.17	27.03 -1.60 -3.16	26.44 -1.57 -2.71	27.77 -1.25 -1.91
MOHAWK_PAPER___DRP 24187	35.30 0.22 -27.64	32.82 0.33 -22.22	31.38 0.35 -20.26	30.51 0.34 -19.83	30.24 0.37 -18.35	28.74 0.56 -10.63	33.35 0.60 -13.23	39.57 0.37 -26.15	39.40 0.49 -22.95	33.77 0.56 -15.58	30.23 0.80 -3.77	30.98 0.67 -7.86	32.55 0.47 -16.31	33.02 0.53 -14.80	37.01 0.32 -25.55	40.68 0.62 -20.09	46.72 0.81 -20.50	55.88 1.09 -20.62	50.03 1.19 -11.81	47.13 0.92 -15.68	44.03 0.90 -14.86	41.10 0.79 -14.84	38.78 0.76 -12.72	36.79 0.73 -8.94
MOHICAN___35_KV_115KV_LD 80490	36.15 0.45 -28.26	33.61 0.63 -22.71	32.12 0.63 -20.71	31.21 0.60 -20.27	30.93 0.65 -18.76	29.41 1.00 -10.86	34.15 1.11 -13.53	40.54 0.76 -26.73	40.45 1.04 -23.46	34.57 1.02 -15.93	30.93 1.41 -3.86	31.67 1.19 -8.04	33.24 0.80 -16.67	33.74 0.92 -15.13	37.84 0.58 -26.11	41.61 1.10 -20.54	47.82 1.45 -20.95	57.26 2.02 -21.08	51.25 2.15 -12.07	48.24 1.68 -16.03	45.15 1.70 -15.19	42.02 1.38 -15.17	39.72 1.42 -13.01	37.99 1.74 -9.14
MONGAUP___HYD 23641	28.74 0.27 -21.03	27.52 0.35 -16.91	26.52 0.32 -15.41	25.73 0.30 -15.09	25.82 0.33 -13.97	26.18 0.54 -8.09	30.19 0.61 -10.07	33.34 0.39 -19.89	33.91 0.50 -17.46	30.01 0.53 -11.85	29.25 0.72 -2.87	29.08 0.65 -5.98	28.65 0.47 -12.41	29.48 0.53 -11.26	30.96 0.38 -19.44	36.02 0.76 -15.29	42.10 1.09 -15.60	51.36 1.50 -15.69	47.61 1.59 -8.99	43.80 1.34 -11.93	40.76 1.19 -11.31	37.88 1.12 -11.29	36.07 1.09 -9.68	34.84 0.92 -6.80
MONTAUK___DIESEL 23721	31.09 0.88 -22.77	29.70 1.13 -18.30	28.50 1.02 -16.69	27.63 0.95 -16.33	27.82 1.18 -15.12	28.20 1.90 -8.76	32.56 2.15 -10.90	35.97 1.37 -21.54	36.84 1.98 -18.90	32.72 2.26 -12.84	31.92 3.16 -3.11	31.80 2.87 -6.48	31.23 2.02 -13.45	32.18 2.30 -12.19	36.52 1.47 -23.91	41.06 2.72 -18.37	54.27 3.74 -25.12	70.41 5.09 -31.16	68.00 5.48 -25.49	64.90 4.55 -29.81	52.73 4.01 -20.45	53.41 3.72 -24.23	40.81 3.64 -11.87	38.11 3.63 -7.37
MOONROAD_115KV_HARTFLD_TB1-2 355988	13.93 0.13 -6.37	15.56 0.17 -5.12	15.63 0.18 -4.67	15.11 0.20 -4.57	15.94 0.18 -4.23	20.35 0.35 -2.45	22.83 0.27 -3.05	19.09 0.01 -6.02	21.05 -0.19 -5.29	20.93 -0.28 -3.59	25.96 -0.56 -0.87	23.76 -0.49 -1.81	19.24 -0.28 -3.76	20.76 -0.34 -3.41	16.87 -0.16 -5.89	24.14 -0.46 -4.63	29.65 -0.48 -4.72	38.16 -0.75 -4.75	38.87 -0.89 -2.72	33.44 -0.70 -3.61	31.07 -0.62 -3.42	28.33 -0.56 -3.42	27.75 -0.48 -2.93	28.93 -0.24 -2.06
MORTIMER_115KV_TB3 55949	12.82 0.10 -5.29	14.66 0.14 -4.25	14.80 0.14 -3.87	14.26 0.12 -3.79	15.16 0.13 -3.51	19.77 0.19 -2.03	22.10 0.06 -2.53	17.98 -0.08 -5.00	20.15 -0.19 -4.39	20.41 -0.19 -2.98	26.07 -0.31 -0.72	23.73 -0.22 -1.50	18.79 -0.09 -3.12	20.43 -0.09 -2.83	16.00 -0.03 -4.89	23.65 -0.16 -3.84	29.05 -0.28 -3.92	37.63 -0.48 -3.94	38.74 -0.56 -2.26	33.13 -0.40 -3.00	30.72 -0.40 -2.84	27.92 -0.38 -2.84	27.35 -0.38 -2.43	28.58 -0.24 -1.71
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	30.49 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.98 0.30 -16.33	26.99 0.35 -15.12	26.93 0.63 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.65 1.35 -16.89	52.86 1.71 -16.99	48.65 1.89 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
MUNSVILLE_WIND_PWR 323609	17.32 0.53 -9.35	18.53 0.74 -7.52	18.43 0.80 -6.85	17.81 0.75 -6.71	18.57 0.84 -6.21	22.51 1.37 -3.60	25.57 1.58 -4.48	23.00 1.10 -8.85	24.92 1.20 -7.76	24.15 1.25 -5.27	28.68 1.75 -1.28	26.63 1.53 -2.66	22.24 0.96 -5.52	23.84 1.15 -5.01	20.55 0.77 -8.64	28.27 1.50 -6.80	34.43 2.08 -6.94	44.42 3.28 -6.98	44.58 3.56 -4.00	38.80 2.96 -5.30	35.95 2.66 -5.03	32.78 2.29 -5.02	31.65 2.05 -4.31	32.47 2.33 -3.03
N SALMON___HYD 24042	7.92 -0.55 -1.04	10.26 -0.84 -0.83	10.77 -0.78 -0.76	10.28 -0.81 -0.74	11.52 -0.69 -0.69	16.37 -1.58 -0.40	18.60 -1.41 -0.50	13.45 -0.59 -0.98	16.30 -0.51 -0.86	17.59 -0.62 -0.58	25.16 -0.64 -0.14	21.87 -0.88 -0.29	15.57 -0.80 -0.61	17.22 -1.03 -0.56	11.22 -0.88 -0.96	19.27 -1.46 -0.75	24.63 -1.55 -0.77	33.30 -1.64 -0.77	36.14 -1.33 -0.44	29.56 -1.56 -0.59	27.87 -0.96 -0.56	24.90 -1.12 -0.56	25.02 -0.76 -0.48	26.88 -0.57 -0.34



N.AKRON__115KV_KNAPP 355671	13.31 0.11 -5.76	15.06 0.16 -4.63	15.17 0.16 -4.22	14.62 0.14 -4.13	15.47 0.13 -3.83	19.97 0.21 -2.22	22.25 -0.02 -2.76	18.28 -0.22 -5.45	20.31 -0.43 -4.78	20.38 -0.49 -3.25	25.70 -0.74 -0.79	23.50 -0.58 -1.64	18.83 -0.33 -3.40	20.42 -0.35 -3.09	16.28 -0.19 -5.32	23.64 -0.52 -4.19	28.97 -0.71 -4.27	37.33 -1.13 -4.30	38.24 -1.26 -2.46	32.88 -0.92 -3.27	30.49 -0.88 -3.10	27.72 -0.84 -3.09	27.17 -0.78 -2.65	28.43 -0.54 -1.86
N.BELMOR_69_KV_BK1 55787	30.69 0.48 -22.77	29.17 0.60 -18.30	27.98 0.51 -16.69	27.15 0.47 -16.33	27.23 0.59 -15.12	27.30 1.00 -8.76	31.57 1.15 -10.90	35.35 0.76 -21.54	35.99 1.13 -18.90	31.75 1.29 -12.84	30.54 1.77 -3.11	30.52 1.59 -6.48	30.33 1.12 -13.45	31.17 1.29 -12.19	35.85 0.80 -23.91	39.82 1.48 -18.37	52.39 1.86 -25.12	67.78 2.46 -31.16	65.19 2.67 -25.49	62.61 2.26 -29.81	50.76 2.04 -20.45	51.58 1.88 -24.23	39.14 1.97 -11.87	36.40 1.92 -7.37
N.E_GEN_SANDY PD 24062	33.04 0.26 -25.35	31.00 0.36 -20.37	29.72 0.37 -18.57	28.89 0.36 -18.18	28.75 0.40 -16.83	27.92 0.63 -9.75	32.31 0.66 -12.13	37.47 0.44 -23.97	37.57 0.57 -21.04	32.53 0.62 -14.28	30.07 0.95 -3.46	30.51 0.85 -7.21	31.33 0.61 -14.95	31.93 0.67 -13.57	35.00 0.43 -23.42	39.21 0.82 -18.42	45.25 1.04 -18.80	54.44 1.37 -18.91	49.38 1.52 -10.83	46.13 1.22 -14.37	43.03 1.13 -13.62	40.10 1.02 -13.61	38.00 1.04 -11.67	36.26 0.95 -8.20
N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	29.74 0.25 -22.05	28.33 0.34 -17.72	27.24 0.30 -16.16	26.44 0.28 -15.82	26.47 0.31 -14.64	26.57 0.54 -8.48	30.73 0.66 -10.56	34.37 0.46 -20.86	34.85 0.59 -18.30	30.72 0.67 -12.43	29.59 0.92 -3.01	29.57 0.85 -6.27	29.40 0.63 -13.01	30.18 0.69 -11.81	31.99 0.47 -20.38	36.88 0.88 -16.03	42.93 1.17 -16.35	52.15 1.54 -16.45	48.12 1.67 -9.42	44.44 1.40 -12.51	41.34 1.22 -11.85	38.45 1.15 -11.84	36.59 1.14 -10.15	35.22 0.98 -7.13
N.QUEENS_27_KV_LOAD 356247	30.48 0.28 -22.77	28.97 0.40 -18.30	27.81 0.35 -16.69	26.97 0.29 -16.33	26.99 0.35 -15.12	26.93 0.63 -8.76	31.02 0.60 -10.90	35.00 0.40 -21.54	35.43 0.57 -18.90	31.15 0.69 -12.83	29.74 0.98 -3.11	29.80 0.88 -6.48	29.86 0.66 -13.44	30.62 0.74 -12.19	32.65 0.47 -21.04	37.42 0.90 -16.55	43.47 1.17 -16.89	52.62 1.47 -16.99	48.43 1.67 -9.73	44.88 1.44 -12.91	41.64 1.13 -12.24	38.87 1.17 -12.23	37.05 1.26 -10.48	35.56 1.08 -7.37
N.TROY___115KV_TB1 355778	35.46 0.26 -27.77	32.96 0.37 -22.32	31.52 0.39 -20.35	30.63 0.37 -19.92	30.37 0.41 -18.44	28.87 0.65 -10.68	33.51 0.70 -13.29	39.78 0.46 -26.26	39.60 0.59 -23.05	33.91 0.63 -15.65	30.37 0.92 -3.79	31.15 0.81 -7.90	32.71 0.57 -16.38	33.19 0.64 -14.87	37.20 0.40 -25.66	40.93 0.78 -20.18	47.02 1.02 -20.59	56.24 1.37 -20.72	50.38 1.48 -11.86	47.44 1.16 -15.75	44.33 1.13 -14.93	41.37 0.99 -14.91	39.04 0.96 -12.78	37.07 0.98 -8.98
NARROWS_GT1_1 24228	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_2 24229	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_3 24230	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_4 24231	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_5 24232	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_6 24233	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_7 24234	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT1_8 24235	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_1 24236	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37



NARROWS_GT2_2 24237	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_3 24238	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_4 24239	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_5 24240	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_6 24241	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_7 24242	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NARROWS_GT2_8 24243	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	33.95 0.41 -26.10	31.84 0.60 -20.98	30.52 0.61 -19.13	29.67 0.60 -18.72	29.53 0.68 -17.33	28.53 0.95 -10.04	32.98 0.98 -12.49	38.30 0.56 -24.69	38.34 0.72 -21.67	33.09 0.76 -14.71	30.22 1.00 -3.56	30.70 0.83 -7.42	31.67 0.50 -15.40	32.28 0.62 -13.98	35.64 0.38 -24.12	39.78 0.84 -18.97	46.04 1.27 -19.35	55.48 1.84 -19.47	50.11 1.93 -11.15	46.83 1.50 -14.80	43.85 1.55 -14.03	40.76 1.27 -14.02	38.50 1.19 -12.01	36.78 1.22 -8.44
NCHELSEA_115KV_TR2 355582	30.68 0.31 -22.93	29.12 0.42 -18.43	27.98 0.39 -16.81	27.16 0.36 -16.45	27.15 0.40 -15.23	27.01 0.65 -8.82	31.21 0.72 -10.98	35.23 0.48 -21.69	35.63 0.64 -19.04	31.26 0.70 -12.93	29.76 0.98 -3.13	29.87 0.90 -6.52	29.94 0.65 -13.53	30.71 0.74 -12.28	32.83 0.49 -21.19	37.60 0.96 -16.67	43.71 1.30 -17.01	52.98 1.71 -17.11	48.65 1.81 -9.80	45.07 1.53 -13.01	41.95 1.36 -12.33	39.05 1.27 -12.31	37.15 1.29 -10.56	35.67 1.14 -7.42
NEG CAPITAL___MECHNVIL 23645	35.88 0.36 -28.09	33.35 0.50 -22.58	31.87 0.51 -20.58	30.98 0.49 -20.15	30.70 0.53 -18.65	29.17 0.82 -10.80	33.88 0.92 -13.45	40.22 0.60 -26.57	40.08 0.81 -23.32	34.30 0.85 -15.83	30.72 1.23 -3.83	31.47 1.03 -7.99	33.05 0.71 -16.57	33.54 0.81 -15.04	37.62 0.52 -25.96	41.40 1.02 -20.41	47.59 1.35 -20.83	56.96 1.84 -20.96	50.99 1.96 -12.00	48.02 1.56 -15.93	44.89 1.53 -15.10	41.85 1.30 -15.08	39.49 1.26 -12.93	37.55 1.36 -9.09
NEG CENTRAL_HIGH_ACRES 23767	12.55 -0.07 -5.18	14.34 -0.09 -4.17	14.48 -0.10 -3.80	13.96 -0.10 -3.72	14.81 -0.15 -3.44	19.35 -0.19 -1.99	21.66 -0.33 -2.48	17.67 -0.29 -4.90	19.83 -0.43 -4.30	20.09 -0.46 -2.92	25.70 -0.67 -0.71	23.38 -0.54 -1.47	18.49 -0.33 -3.06	20.13 -0.34 -2.78	15.72 -0.21 -4.79	23.30 -0.44 -3.77	28.65 -0.61 -3.84	37.11 -0.92 -3.87	38.21 -1.04 -2.21	32.65 -0.82 -2.94	30.26 -0.79 -2.79	27.49 -0.76 -2.78	26.87 -0.81 -2.39	28.11 -0.68 -1.68
NEG CENTRAL___DRP 24199	12.87 0.07 -5.36	14.70 0.12 -4.31	14.82 0.11 -3.93	14.30 0.11 -3.84	15.18 0.10 -3.56	19.82 0.21 -2.06	22.27 0.20 -2.57	18.23 0.10 -5.07	20.45 0.05 -4.45	20.70 0.05 -3.02	26.44 0.05 -0.73	24.04 0.07 -1.52	19.00 0.08 -3.16	20.68 0.12 -2.87	16.18 0.09 -4.95	24.01 0.14 -3.89	29.54 0.15 -3.97	38.36 0.20 -4.00	39.55 0.22 -2.29	33.76 0.18 -3.04	31.29 0.14 -2.88	28.42 0.08 -2.88	27.77 0.00 -2.47	28.98 0.14 -1.73
NEG CENTRAL___INDECK 23768	14.15 0.30 -6.42	15.85 0.42 -5.16	15.92 0.43 -4.70	15.37 0.41 -4.60	16.20 0.41 -4.26	20.72 0.70 -2.47	23.23 0.64 -3.07	19.47 0.34 -6.07	21.51 0.22 -5.33	21.40 0.16 -3.62	26.64 0.10 -0.88	24.36 0.09 -1.83	19.68 0.13 -3.79	21.32 0.19 -3.44	17.22 0.14 -5.93	24.86 0.22 -4.67	30.53 0.36 -4.76	39.53 0.58 -4.79	40.48 0.70 -2.74	34.84 0.67 -3.64	32.26 0.54 -3.45	29.35 0.43 -3.45	28.58 0.33 -2.96	29.76 0.57 -2.08
NEG CENTRAL___SENECA 23627	13.27 0.13 -5.71	15.05 0.20 -4.59	15.15 0.18 -4.18	14.64 0.20 -4.09	15.51 0.20 -3.79	20.08 0.33 -2.19	22.58 0.33 -2.73	18.64 0.18 -5.40	20.81 0.11 -4.74	20.97 0.12 -3.22	26.57 0.13 -0.78	24.21 0.13 -1.62	19.26 0.13 -3.37	20.94 0.19 -3.06	16.55 0.13 -5.28	24.34 0.22 -4.15	29.90 0.25 -4.23	38.80 0.38 -4.26	39.88 0.41 -2.44	34.11 0.34 -3.24	31.62 0.28 -3.07	28.71 0.18 -3.07	28.03 0.10 -2.63	29.20 0.24 -1.85
NEG CENTRAL___STATE_STREET 24147	12.77 0.07 -5.27	14.61 0.10 -4.23	14.74 0.10 -3.86	14.22 0.09 -3.78	15.11 0.09 -3.50	19.75 0.18 -2.03	22.23 0.20 -2.52	18.16 0.12 -4.98	20.43 0.10 -4.37	20.72 0.12 -2.97	26.56 0.18 -0.72	24.12 0.18 -1.50	19.01 0.14 -3.11	20.70 0.19 -2.82	16.15 0.13 -4.87	24.02 0.22 -3.83	29.57 0.25 -3.91	38.47 0.38 -3.93	39.65 0.37 -2.25	33.83 0.31 -2.99	31.36 0.25 -2.83	28.50 0.20 -2.83	27.85 0.13 -2.43	29.03 0.22 -1.70



NEG MILLWOOD___DRP 24198	30.84 0.33 -23.07	29.25 0.44 -18.54	28.10 0.41 -16.90	27.28 0.39 -16.54	27.24 0.40 -15.32	27.07 0.65 -8.87	31.32 0.76 -11.04	35.41 0.54 -21.82	35.84 0.73 -19.15	31.44 0.81 -13.00	29.94 1.13 -3.15	30.04 1.03 -6.56	30.10 0.73 -13.61	30.85 0.81 -12.35	33.01 0.55 -21.32	37.83 1.10 -16.76	43.97 1.45 -17.11	53.28 1.91 -17.21	48.96 2.07 -9.85	45.32 1.71 -13.08	42.17 1.50 -12.40	39.28 1.43 -12.39	37.31 1.39 -10.62	35.82 1.25 -7.46
NEG NORTH_FLCN_SEA 23793	7.82 -0.55 -0.93	10.16 -0.86 -0.75	10.67 -0.80 -0.68	10.19 -0.83 -0.67	11.35 -0.79 -0.62	16.33 -1.58 -0.36	18.53 -1.42 -0.45	13.34 -0.60 -0.88	16.20 -0.53 -0.77	17.53 -0.62 -0.53	25.15 -0.64 -0.13	21.81 -0.90 -0.27	15.46 -0.85 -0.55	17.11 -1.08 -0.50	11.10 -0.90 -0.86	19.17 -1.48 -0.68	24.66 -1.45 -0.69	33.35 -1.50 -0.70	36.25 -1.19 -0.40	29.63 -1.44 -0.53	27.84 -0.93 -0.50	24.90 -1.07 -0.50	25.00 -0.73 -0.43	26.90 -0.52 -0.30
NEG NORTH_KES_CHATEGAY 23792	7.76 -0.64 -0.96	10.07 -0.98 -0.77	10.57 -0.92 -0.70	10.09 -0.94 -0.69	11.24 -0.92 -0.64	16.14 -1.77 -0.37	18.33 -1.64 -0.46	13.22 -0.74 -0.91	16.03 -0.72 -0.80	17.34 -0.83 -0.54	24.82 -0.98 -0.13	21.53 -1.19 -0.27	15.29 -1.04 -0.57	16.93 -1.27 -0.51	11.01 -1.03 -0.89	18.95 -1.72 -0.70	24.37 -1.75 -0.71	32.90 -1.98 -0.72	35.78 -1.67 -0.41	29.25 -1.83 -0.54	27.51 -1.27 -0.52	24.61 -1.38 -0.52	24.73 -1.01 -0.44	26.61 -0.81 -0.31
NEG NORTH___ALICE_FALLS 23915	7.82 -0.55 -0.94	10.15 -0.87 -0.75	10.66 -0.81 -0.69	10.18 -0.84 -0.67	11.34 -0.81 -0.62	16.31 -1.60 -0.36	18.54 -1.42 -0.45	13.36 -0.59 -0.89	16.22 -0.51 -0.78	17.55 -0.60 -0.53	25.17 -0.62 -0.13	21.82 -0.90 -0.27	15.48 -0.84 -0.55	17.14 -1.04 -0.50	11.12 -0.89 -0.87	19.19 -1.46 -0.68	24.71 -1.40 -0.69	33.43 -1.43 -0.70	36.36 -1.07 -0.40	29.72 -1.34 -0.53	27.90 -0.88 -0.50	24.93 -1.04 -0.50	25.02 -0.71 -0.43	26.93 -0.49 -0.30
NEG NORTH___LWR_SARANAC 23913	7.82 -0.55 -0.94	10.15 -0.87 -0.75	10.66 -0.81 -0.69	10.18 -0.84 -0.67	11.34 -0.81 -0.62	16.31 -1.60 -0.36	18.54 -1.42 -0.45	13.36 -0.59 -0.89	16.22 -0.51 -0.78	17.55 -0.60 -0.53	25.17 -0.62 -0.13	21.82 -0.90 -0.27	15.48 -0.84 -0.55	17.14 -1.04 -0.50	11.12 -0.89 -0.87	19.19 -1.46 -0.68	24.71 -1.40 -0.69	33.43 -1.43 -0.70	36.36 -1.07 -0.40	29.72 -1.34 -0.53	27.90 -0.88 -0.50	24.93 -1.04 -0.50	25.02 -0.71 -0.43	26.93 -0.49 -0.30
NEG NORTH___PLATTSBURG 23628	7.82 -0.55 -0.94	10.15 -0.87 -0.75	10.67 -0.80 -0.69	10.18 -0.84 -0.67	11.44 -0.70 -0.62	16.31 -1.60 -0.36	18.54 -1.42 -0.45	13.36 -0.59 -0.89	16.22 -0.51 -0.78	17.55 -0.60 -0.53	25.17 -0.62 -0.13	21.81 -0.90 -0.27	15.48 -0.84 -0.55	17.14 -1.04 -0.50	11.12 -0.89 -0.87	19.19 -1.46 -0.68	24.63 -1.47 -0.69	33.43 -1.43 -0.70	36.36 -1.08 -0.40	29.72 -1.34 -0.53	27.90 -0.88 -0.50	24.90 -1.07 -0.50	25.02 -0.71 -0.43	26.93 -0.49 -0.30
NEG WEST_LEA_LOCKPORT 23791	13.31 0.01 -5.86	15.00 0.02 -4.71	15.09 0.01 -4.30	14.56 0.01 -4.20	15.37 -0.05 -3.89	19.78 -0.02 -2.25	22.03 -0.29 -2.81	18.16 -0.44 -5.54	20.09 -0.73 -4.87	20.10 -0.83 -3.30	25.20 -1.26 -0.80	23.10 -1.01 -1.67	18.59 -0.63 -3.46	20.12 -0.71 -3.14	16.16 -0.40 -5.42	23.31 -0.92 -4.26	28.54 -1.22 -4.35	36.66 -1.88 -4.37	37.46 -2.07 -2.50	32.30 -1.56 -3.32	29.98 -1.44 -3.15	27.29 -1.32 -3.15	26.76 -1.24 -2.70	28.03 -0.98 -1.90
NEG WEST___LANCASTR 23811	13.61 -0.18 -6.35	15.14 -0.24 -5.10	15.17 -0.27 -4.65	14.65 -0.25 -4.55	15.41 -0.32 -4.22	19.55 -0.44 -2.44	21.93 -0.62 -3.04	18.45 -0.61 -6.01	20.27 -0.96 -5.27	20.13 -1.08 -3.58	24.83 -1.69 -0.87	22.86 -1.39 -1.81	18.61 -0.90 -3.75	20.08 -1.01 -3.40	16.43 -0.58 -5.87	23.33 -1.26 -4.61	28.54 -1.58 -4.71	36.68 -2.22 -4.74	37.34 -2.41 -2.71	32.24 -1.89 -3.60	29.93 -1.75 -3.41	27.25 -1.63 -3.41	26.63 -1.59 -2.92	27.70 -1.46 -2.05
NEG_PENN_ALLEGHNY 23528	17.33 0.07 -9.82	18.27 0.11 -7.89	18.08 0.11 -7.19	17.49 0.10 -7.04	18.13 0.09 -6.52	21.50 0.18 -3.77	24.39 0.18 -4.70	22.42 0.08 -9.28	24.12 0.02 -8.15	23.17 0.02 -5.53	26.97 -0.03 -1.34	25.26 0.02 -2.79	21.60 0.05 -5.79	23.00 0.05 -5.26	20.28 0.07 -9.07	27.18 0.08 -7.13	32.79 0.10 -7.28	41.59 0.10 -7.32	41.34 0.11 -4.19	36.22 0.12 -5.57	33.66 0.11 -5.28	30.81 0.08 -5.27	29.84 0.03 -4.52	30.40 0.11 -3.18
NEG___GEN_MONROE 24207	12.89 0.14 -5.31	14.74 0.21 -4.27	14.88 0.20 -3.89	14.33 0.18 -3.81	15.23 0.18 -3.53	19.87 0.28 -2.04	22.17 0.12 -2.54	18.02 -0.07 -5.02	20.17 -0.19 -4.41	20.41 -0.21 -2.99	26.05 -0.33 -0.72	23.73 -0.22 -1.51	18.79 -0.11 -3.13	20.41 -0.12 -2.84	16.00 -0.06 -4.91	23.55 -0.28 -3.86	28.95 -0.41 -3.94	37.48 -0.65 -3.96	38.56 -0.74 -2.27	33.09 -0.46 -3.01	30.64 -0.48 -2.86	27.89 -0.43 -2.85	27.34 -0.40 -2.45	28.64 -0.19 -1.72
NEPA___ENERGY 23901	13.93 0.06 -6.44	15.54 0.09 -5.17	15.59 0.09 -4.72	15.05 0.08 -4.62	15.84 0.05 -4.27	20.15 0.12 -2.48	22.59 0.00 -3.08	18.94 -0.21 -6.09	20.84 -0.46 -5.34	20.72 -0.53 -3.63	25.61 -0.92 -0.88	23.54 -0.74 -1.83	19.14 -0.43 -3.80	20.64 -0.50 -3.45	16.84 -0.26 -5.95	23.97 -0.68 -4.68	29.35 -0.84 -4.77	37.73 -1.23 -4.80	38.45 -1.33 -2.75	33.18 -1.01 -3.65	30.80 -0.93 -3.46	28.08 -0.84 -3.46	27.43 -0.83 -2.96	28.57 -0.62 -2.08
NEVERSINK___HYD 23608	28.47 0.14 -20.89	27.24 0.17 -16.79	26.22 0.13 -15.31	25.45 0.11 -14.99	25.53 0.14 -13.87	25.83 0.25 -8.03	29.79 0.27 -10.00	33.00 0.18 -19.76	33.54 0.24 -17.34	29.65 0.25 -11.77	28.84 0.33 -2.85	28.73 0.34 -5.94	28.33 0.24 -12.33	29.16 0.28 -11.19	30.67 0.22 -19.31	35.04 -0.12 -15.18	40.85 -0.05 -15.49	49.72 -0.03 -15.59	45.88 -0.07 -8.93	42.35 -0.03 -11.85	39.39 -0.11 -11.23	37.45 0.76 -11.22	35.65 0.73 -9.62	34.38 0.51 -6.76
NEWKRMKL_115KV_TB1 55635	35.21 0.17 -27.60	32.72 0.27 -22.18	31.30 0.29 -20.23	30.42 0.28 -19.80	30.16 0.31 -18.33	28.62 0.46 -10.61	33.19 0.47 -13.21	39.44 0.27 -26.11	39.24 0.37 -22.91	33.64 0.46 -15.56	30.04 0.62 -3.77	30.81 0.52 -7.85	32.40 0.35 -16.29	32.86 0.39 -14.78	36.86 0.21 -25.51	40.43 0.40 -20.06	46.39 0.51 -20.47	55.47 0.72 -20.59	49.57 0.74 -11.79	46.77 0.58 -15.65	43.70 0.59 -14.84	40.77 0.48 -14.82	38.49 0.48 -12.71	36.45 0.41 -8.93
NEWTON___FALLS_HYD 23847	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.49 -1.24	11.08 -0.49 -1.22	12.13 -0.52 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.17 -1.04 -1.23	25.53 -1.14 -1.26	34.10 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.73 -0.91	25.56 -0.81 -0.91	25.45 -0.63 -0.78	27.15 -0.52 -0.55
NGRID_A1_DSASP 323792	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91



NGRID_A2_DSASP 323793	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91
NGRID_A4_DSASP 323807	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91
NIAGARA_115E_LBMP 323715	13.25 -0.10 -5.92	14.90 -0.13 -4.76	14.96 -0.16 -4.34	14.44 -0.15 -4.25	15.21 -0.24 -3.93	19.53 -0.30 -2.28	21.74 -0.61 -2.83	17.98 -0.68 -5.60	19.87 -1.00 -4.92	19.83 -1.13 -3.34	24.77 -1.69 -0.81	22.74 -1.39 -1.68	18.36 -0.90 -3.49	19.85 -1.01 -3.17	16.00 -0.61 -5.47	23.00 -1.28 -4.30	28.13 -1.68 -4.39	36.02 -2.56 -4.42	36.71 -2.85 -2.53	31.72 -2.17 -3.36	29.50 -1.95 -3.18	26.86 -1.78 -3.18	26.28 -1.75 -2.73	27.62 -1.41 -1.92
NIAGARA_115W_LBMP 323714	13.27 -0.07 -5.91	14.93 -0.09 -4.75	15.00 -0.12 -4.33	14.50 -0.08 -4.24	15.25 -0.20 -3.93	19.59 -0.23 -2.27	21.72 -0.63 -2.83	17.92 -0.73 -5.59	19.79 -1.07 -4.91	19.76 -1.20 -3.33	24.67 -1.80 -0.81	22.65 -1.48 -1.68	18.29 -0.96 -3.49	19.77 -1.08 -3.17	15.96 -0.65 -5.46	22.91 -1.36 -4.30	28.02 -1.78 -4.38	35.81 -2.77 -4.41	36.63 -2.93 -2.53	31.56 -2.32 -3.35	29.36 -2.09 -3.18	26.76 -1.88 -3.17	26.25 -1.77 -2.72	27.53 -1.49 -1.91
NIAGARA_230_LBMP 323716	13.27 -0.04 -5.87	14.95 -0.04 -4.72	15.03 -0.05 -4.30	14.51 -0.05 -4.21	15.29 -0.13 -3.90	19.68 -0.12 -2.26	21.93 -0.39 -2.81	18.08 -0.54 -5.55	20.00 -0.83 -4.87	20.00 -0.93 -3.31	25.00 -1.46 -0.80	22.93 -1.19 -1.67	18.50 -0.72 -3.46	20.00 -0.83 -3.14	16.08 -0.49 -5.43	23.16 -1.08 -4.27	28.34 -1.42 -4.35	36.32 -2.22 -4.38	37.10 -2.45 -2.51	32.00 -1.86 -3.33	29.76 -1.67 -3.16	27.12 -1.50 -3.15	26.53 -1.47 -2.70	27.87 -1.14 -1.90
NIAGARA__115KV_198_GIBSON 55903	13.27 -0.07 -5.91	14.93 -0.09 -4.75	15.00 -0.12 -4.33	14.50 -0.08 -4.24	15.26 -0.18 -3.93	19.59 -0.23 -2.27	21.72 -0.62 -2.83	17.92 -0.73 -5.59	19.79 -1.07 -4.91	19.76 -1.20 -3.33	24.70 -1.77 -0.81	22.65 -1.48 -1.68	18.29 -0.96 -3.49	19.77 -1.08 -3.17	15.97 -0.64 -5.46	22.91 -1.36 -4.30	28.02 -1.78 -4.38	35.87 -2.70 -4.41	36.67 -2.89 -2.53	31.60 -2.29 -3.35	29.38 -2.06 -3.18	26.76 -1.88 -3.17	26.30 -1.72 -2.72	27.53 -1.49 -1.91
NIAGARA____ 23760	13.32 -0.04 -5.92	14.98 -0.04 -4.76	15.07 -0.05 -4.34	14.54 -0.05 -4.24	15.32 -0.13 -3.93	19.70 -0.12 -2.28	21.95 -0.39 -2.83	18.11 -0.54 -5.59	20.03 -0.83 -4.90	20.02 -0.93 -3.33	25.00 -1.46 -0.80	22.93 -1.19 -1.68	18.52 -0.72 -3.48	20.02 -0.83 -3.16	16.11 -0.49 -5.46	23.18 -1.08 -4.29	28.37 -1.42 -4.38	36.34 -2.22 -4.40	37.11 -2.45 -2.52	32.02 -1.86 -3.35	29.77 -1.67 -3.17	27.13 -1.50 -3.17	26.55 -1.47 -2.72	27.89 -1.14 -1.91
NINE_MILE_1 23575	10.80 -0.16 -3.52	12.90 -0.21 -2.83	13.14 -0.23 -2.58	12.67 -0.21 -2.53	13.61 -0.25 -2.34	18.53 -0.37 -1.35	20.77 -0.43 -1.69	16.09 -0.30 -3.33	18.48 -0.40 -2.92	19.19 -0.42 -1.99	25.52 -0.62 -0.48	22.91 -0.54 -1.00	17.48 -0.36 -2.08	19.18 -0.39 -1.89	14.15 -0.25 -3.26	22.05 -0.48 -2.56	27.39 -0.63 -2.61	35.90 -0.89 -2.63	37.58 -0.96 -1.50	31.74 -0.79 -2.00	29.43 -0.74 -1.89	26.70 -0.66 -1.89	26.24 -0.68 -1.62	27.60 -0.65 -1.14
NINE_MILE_2 23744	10.79 -0.16 -3.51	12.89 -0.21 -2.82	13.13 -0.23 -2.57	12.66 -0.21 -2.52	13.61 -0.24 -2.33	18.53 -0.37 -1.35	20.76 -0.43 -1.68	16.08 -0.30 -3.32	18.49 -0.38 -2.91	19.18 -0.42 -1.98	25.52 -0.62 -0.48	22.91 -0.54 -1.00	17.47 -0.36 -2.07	19.18 -0.39 -1.88	14.14 -0.25 -3.24	22.04 -0.48 -2.55	27.38 -0.63 -2.60	35.89 -0.89 -2.62	37.57 -0.96 -1.50	31.73 -0.79 -1.99	29.42 -0.74 -1.89	26.69 -0.66 -1.89	26.23 -0.68 -1.62	27.63 -0.62 -1.14
NM_CAPITAL____DRP 24208	35.14 0.18 -27.53	32.67 0.28 -22.13	31.26 0.30 -20.17	30.38 0.29 -19.74	30.12 0.32 -18.28	28.61 0.47 -10.58	33.20 0.51 -13.18	39.38 0.29 -26.04	39.19 0.38 -22.85	33.60 0.46 -15.51	30.06 0.64 -3.76	30.84 0.56 -7.83	32.38 0.38 -16.24	32.85 0.42 -14.74	36.82 0.23 -25.44	40.44 0.46 -20.01	46.41 0.58 -20.41	55.49 0.79 -20.54	49.65 0.85 -11.76	46.82 0.67 -15.61	43.72 0.65 -14.80	40.81 0.56 -14.78	38.53 0.56 -12.67	36.51 0.49 -8.91
NM_CENTRAL____DRP 24181	11.74 -0.01 -4.31	13.73 -0.01 -3.47	13.92 -0.02 -3.16	13.43 -0.01 -3.09	14.35 -0.03 -2.86	19.19 -0.02 -1.66	21.54 -0.04 -2.06	17.08 -0.05 -4.08	19.44 -0.10 -3.58	19.97 -0.09 -2.43	26.12 -0.13 -0.59	23.58 -0.09 -1.23	18.26 -0.05 -2.54	19.96 -0.04 -2.31	15.12 -0.01 -3.99	23.07 -0.04 -3.13	28.51 -0.10 -3.20	37.21 -0.17 -3.22	38.65 -0.22 -1.84	32.83 -0.15 -2.45	30.42 -0.17 -2.32	27.63 -0.15 -2.32	27.08 -0.20 -1.99	28.37 -0.14 -1.40
NM_FRONTIER____DRP 24179	13.27 -0.07 -5.91	14.93 -0.09 -4.75	15.00 -0.12 -4.33	14.50 -0.08 -4.24	15.26 -0.18 -3.93	19.59 -0.23 -2.27	21.72 -0.62 -2.83	17.92 -0.73 -5.59	19.79 -1.07 -4.91	19.76 -1.20 -3.33	24.70 -1.77 -0.81	22.65 -1.48 -1.68	18.29 -0.96 -3.49	19.77 -1.08 -3.17	15.97 -0.64 -5.46	22.91 -1.36 -4.30	28.02 -1.78 -4.38	35.87 -2.70 -4.41	36.67 -2.89 -2.53	31.60 -2.29 -3.35	29.38 -2.06 -3.18	26.76 -1.88 -3.17	26.30 -1.72 -2.72	27.53 -1.49 -1.91
NM_ST_REGIS____HYD 24053	8.15 -0.51 -1.22	10.49 -0.76 -0.98	10.97 -0.70 -0.89	10.50 -0.71 -0.87	11.59 -0.74 -0.81	16.54 -1.47 -0.47	18.77 -1.33 -0.58	13.63 -0.57 -1.15	16.44 -0.53 -1.01	17.66 -0.65 -0.69	25.11 -0.72 -0.17	21.89 -0.90 -0.35	15.68 -0.80 -0.72	17.33 -1.01 -0.65	11.40 -0.87 -1.12	19.36 -1.50 -0.88	24.69 -1.63 -0.90	33.02 -2.05 -0.91	35.74 -1.81 -0.52	29.30 -1.92 -0.69	27.76 -1.16 -0.65	24.90 -1.22 -0.65	25.02 -0.83 -0.56	26.85 -0.65 -0.39
NORTHPORT____1 23551	30.81 0.60 -22.77	29.33 0.76 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.90 1.48 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.03 1.57 -12.84	30.93 2.16 -3.12	30.93 2.00 -6.49	30.60 1.39 -13.45	31.50 1.61 -12.20	36.04 0.99 -23.91	40.22 1.88 -18.37	52.95 2.42 -25.12	68.57 3.25 -31.16	66.00 3.48 -25.49	63.25 2.90 -29.81	51.29 2.57 -20.45	52.01 2.32 -24.23	39.68 2.51 -11.87	36.77 2.28 -7.38
NORTHPORT____2 23552	30.81 0.60 -22.77	29.33 0.76 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.90 1.48 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.03 1.57 -12.84	30.93 2.16 -3.12	30.93 2.00 -6.49	30.60 1.39 -13.45	31.50 1.61 -12.20	36.04 0.99 -23.91	40.22 1.88 -18.37	52.95 2.42 -25.12	68.57 3.25 -31.16	66.00 3.48 -25.49	63.25 2.90 -29.81	51.29 2.57 -20.45	52.01 2.32 -24.23	39.68 2.51 -11.87	36.77 2.28 -7.38



NORTHPORT___3 23553	30.61 0.40 -22.77	29.07 0.49 -18.30	27.86 0.39 -16.69	27.03 0.35 -16.33	27.10 0.46 -15.12	27.13 0.82 -8.76	31.37 0.96 -10.90	35.22 0.63 -21.54	35.85 0.99 -18.90	31.59 1.13 -12.84	30.31 1.54 -3.12	30.41 1.48 -6.49	30.23 1.01 -13.45	31.09 1.20 -12.20	35.80 0.75 -23.91	39.74 1.40 -18.37	52.37 1.83 -25.12	67.54 2.22 -31.16	65.07 2.55 -25.49	62.55 2.20 -29.81	50.61 1.89 -20.45	51.45 1.76 -24.23	39.04 1.87 -11.87	36.14 1.65 -7.38
NORTHPORT___4 23650	30.61 0.40 -22.77	29.07 0.49 -18.30	27.86 0.39 -16.69	27.03 0.35 -16.33	27.10 0.46 -15.12	27.13 0.82 -8.76	31.37 0.96 -10.90	35.22 0.63 -21.54	35.85 0.99 -18.90	31.59 1.13 -12.84	30.31 1.54 -3.12	30.41 1.48 -6.49	30.23 1.01 -13.45	31.09 1.20 -12.20	35.80 0.75 -23.91	39.74 1.40 -18.37	52.37 1.83 -25.12	67.54 2.22 -31.16	65.07 2.55 -25.49	62.55 2.20 -29.81	50.61 1.89 -20.45	51.45 1.76 -24.23	39.04 1.87 -11.87	36.14 1.65 -7.38
NORTHPORT___IC 23718	30.81 0.60 -22.77	29.33 0.76 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.90 1.48 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.03 1.57 -12.84	30.93 2.16 -3.12	30.93 2.00 -6.49	30.60 1.39 -13.45	31.50 1.61 -12.20	36.04 0.99 -23.91	40.22 1.88 -18.37	52.95 2.42 -25.12	68.57 3.25 -31.16	66.00 3.48 -25.49	63.25 2.90 -29.81	51.29 2.57 -20.45	52.01 2.32 -24.23	39.68 2.51 -11.87	36.77 2.28 -7.38
NORTH___COUNTRY_ESR 323785	7.74 -0.66 -0.96	10.03 -1.02 -0.77	10.54 -0.95 -0.70	10.06 -0.97 -0.69	11.30 -0.86 -0.64	16.09 -1.83 -0.37	18.27 -1.70 -0.46	13.17 -0.80 -0.91	15.97 -0.78 -0.80	17.27 -0.90 -0.54	24.74 -1.05 -0.13	21.46 -1.26 -0.27	15.24 -1.09 -0.57	16.86 -1.34 -0.51	10.96 -1.07 -0.89	18.87 -1.80 -0.70	24.19 -1.93 -0.71	32.76 -2.12 -0.72	35.59 -1.85 -0.41	29.09 -1.98 -0.54	27.37 -1.41 -0.52	24.48 -1.50 -0.52	24.63 -1.11 -0.44	26.50 -0.92 -0.31
NPX_GEN_1385_PROXY 323591	31.00 0.79 -22.77	29.60 1.03 -18.30	28.42 0.95 -16.69	27.57 0.89 -16.33	27.70 1.06 -15.12	28.11 1.81 -8.76	32.38 1.97 -10.90	35.88 1.28 -21.54	36.71 1.85 -18.90	32.40 1.94 -12.84	31.34 2.57 -3.12	31.09 2.16 -6.49	30.82 1.61 -13.45	31.73 1.84 -12.20	36.07 1.02 -23.91	40.40 2.06 -18.37	53.00 2.46 -25.12	68.81 3.49 -31.16	66.04 3.52 -25.49	63.06 2.72 -29.81	51.35 2.63 -20.45	51.83 2.14 -24.23	39.95 2.78 -11.87	36.93 2.44 -7.38
NPX_GEN_CSC 323557	30.88 0.67 -22.77	29.42 0.84 -18.30	28.21 0.73 -16.69	27.36 0.68 -16.33	27.50 0.85 -15.12	27.72 1.42 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.38 1.52 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.79 1.58 -13.45	31.71 1.82 -12.20	36.22 1.17 -23.91	40.52 2.18 -18.37	53.43 2.90 -25.12	69.25 3.93 -31.16	66.74 4.22 -25.49	63.89 3.54 -29.81	51.80 3.08 -20.45	52.55 2.85 -24.23	40.10 2.93 -11.87	37.17 2.68 -7.38
NSINS_S_GLNS_FALLS 23858	36.18 0.46 -28.28	33.63 0.64 -22.73	32.14 0.64 -20.72	31.24 0.61 -20.28	30.95 0.66 -18.78	29.42 1.00 -10.87	34.16 1.11 -13.54	40.56 0.76 -26.75	40.47 1.04 -23.47	34.60 1.04 -15.94	30.93 1.41 -3.86	31.68 1.19 -8.04	33.25 0.80 -16.68	33.75 0.92 -15.14	37.86 0.58 -26.13	41.60 1.08 -20.55	47.81 1.42 -20.97	57.28 2.02 -21.10	51.22 2.11 -12.08	48.22 1.65 -16.04	45.14 1.67 -15.20	42.00 1.35 -15.19	39.71 1.39 -13.02	38.00 1.74 -9.15
NUCOR_STEEL___DRP 24197	12.66 0.08 -5.15	14.54 0.13 -4.14	14.67 0.12 -3.77	14.16 0.12 -3.69	15.05 0.12 -3.42	19.74 0.21 -1.98	22.19 0.21 -2.46	18.05 0.13 -4.87	20.32 0.10 -4.27	20.65 0.12 -2.90	26.54 0.18 -0.70	24.09 0.18 -1.46	18.94 0.14 -3.04	20.65 0.21 -2.76	16.04 0.14 -4.76	23.95 0.24 -3.74	29.48 0.25 -3.82	38.34 0.34 -3.84	39.60 0.37 -2.20	33.73 0.27 -2.92	31.29 0.25 -2.77	28.43 0.20 -2.76	27.82 0.15 -2.37	29.02 0.24 -1.66
NUMBER_THREE_WT_PWR 323818	9.32 -0.09 -1.97	11.72 -0.13 -1.59	12.12 -0.11 -1.45	11.65 -0.11 -1.42	12.74 -0.09 -1.31	18.10 -0.21 -0.76	20.34 -0.12 -0.94	14.95 0.03 -1.87	17.61 0.02 -1.64	18.70 -0.04 -1.11	25.90 -0.03 -0.27	22.90 -0.11 -0.56	16.77 -0.16 -1.16	18.57 -0.18 -1.06	12.81 -0.16 -1.82	21.17 -0.24 -1.43	26.72 -0.15 -1.46	35.74 0.10 -1.47	38.10 0.22 -0.84	31.74 0.09 -1.12	29.53 0.20 -1.06	26.58 0.05 -1.06	26.23 0.03 -0.91	27.89 0.14 -0.64
NYISO_LBMP_REFERENCE 24008	7.44 0.00 0.00	10.27 0.00 0.00	10.78 0.00 0.00	10.35 0.00 0.00	11.52 0.00 0.00	17.55 0.00 0.00	19.51 0.00 0.00	13.06 0.00 0.00	15.96 0.00 0.00	17.62 0.00 0.00	25.66 0.00 0.00	22.45 0.00 0.00	15.76 0.00 0.00	17.69 0.00 0.00	11.14 0.00 0.00	19.97 0.00 0.00	25.41 0.00 0.00	34.16 0.00 0.00	37.03 0.00 0.00	30.53 0.00 0.00	28.27 0.00 0.00	25.47 0.00 0.00	25.30 0.00 0.00	27.11 0.00 0.00
NYPA_BRENTWD___GT 24164	30.86 0.65 -22.77	29.40 0.82 -18.30	28.19 0.72 -16.69	27.35 0.67 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.62 1.02 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.11 2.33 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.64 1.75 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.26 2.72 -25.12	68.98 3.66 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.61 2.88 -20.45	52.32 2.62 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
NYPA_GOWANUS___GT5 24156	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NYPA_GOWANUS___GT6 24157	30.56 0.36 -22.77	29.04 0.47 -18.30	27.89 0.42 -16.69	27.06 0.38 -16.33	27.07 0.43 -15.12	27.06 0.75 -8.76	31.25 0.84 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.32 0.86 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.80 1.50 -16.89	53.13 1.98 -16.99	48.95 2.18 -9.73	45.34 1.89 -12.91	42.03 1.53 -12.24	39.17 1.48 -12.23	37.38 1.59 -10.48	35.86 1.38 -7.37
NYPA_HARLEM__RVR__GT1 24160	30.47 0.27 -22.77	28.97 0.40 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.93 0.63 -8.76	31.01 0.61 -10.89	34.99 0.41 -21.53	35.42 0.57 -18.89	31.14 0.69 -12.83	29.71 0.95 -3.10	29.77 0.85 -6.47	29.84 0.65 -13.43	30.60 0.73 -12.18	32.66 0.48 -21.04	37.46 0.94 -16.55	43.43 1.14 -16.88	52.61 1.47 -16.98	48.34 1.59 -9.72	44.84 1.41 -12.91	41.63 1.13 -12.23	38.81 1.12 -12.22	37.07 1.29 -10.48	35.53 1.06 -7.36
NYPA_HARLEM__RVR__GT2 24161	30.47 0.27 -22.77	28.97 0.40 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.93 0.63 -8.76	31.01 0.61 -10.89	34.99 0.41 -21.53	35.42 0.57 -18.89	31.14 0.69 -12.83	29.71 0.95 -3.10	29.77 0.85 -6.47	29.84 0.65 -13.43	30.60 0.73 -12.18	32.66 0.48 -21.04	37.46 0.94 -16.55	43.43 1.14 -16.88	52.61 1.47 -16.98	48.34 1.59 -9.72	44.84 1.41 -12.91	41.63 1.13 -12.23	38.81 1.12 -12.22	37.07 1.29 -10.48	35.53 1.06 -7.36



NYPA_KENT____GT 24152	30.53 0.33 -22.77	29.01 0.44 -18.30	27.87 0.40 -16.69	27.03 0.35 -16.33	27.04 0.40 -15.12	27.02 0.72 -8.76	31.21 0.80 -10.90	35.14 0.55 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.97 1.21 -3.11	30.00 1.08 -6.48	29.99 0.79 -13.44	30.78 0.90 -12.19	32.78 0.59 -21.04	37.66 1.14 -16.55	43.75 1.45 -16.89	53.03 1.88 -16.99	48.83 2.07 -9.73	45.25 1.80 -12.91	41.98 1.47 -12.24	39.12 1.43 -12.23	37.30 1.52 -10.48	35.78 1.30 -7.37
NYPA_POUCH1____GT 24155	30.58 0.37 -22.77	29.07 0.50 -18.30	27.92 0.45 -16.69	27.08 0.40 -16.33	27.09 0.45 -15.12	27.09 0.79 -8.76	31.27 0.86 -10.90	35.17 0.57 -21.54	35.61 0.75 -18.90	31.34 0.88 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.44	30.80 0.92 -12.19	32.80 0.61 -21.04	37.70 1.18 -16.55	43.82 1.52 -16.89	53.17 2.02 -16.99	48.98 2.22 -9.73	45.37 1.92 -12.91	42.06 1.55 -12.24	39.22 1.53 -12.23	37.43 1.64 -10.48	35.94 1.46 -7.37
NYPA_VERNON____GT2 24162	30.51 0.31 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.01 0.33 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.19 0.78 -10.90	35.13 0.54 -21.54	35.58 0.72 -18.90	31.29 0.83 -12.83	29.95 1.18 -3.11	29.98 1.06 -6.48	29.97 0.77 -13.44	30.75 0.87 -12.19	32.77 0.58 -21.04	37.62 1.10 -16.55	43.69 1.40 -16.89	52.96 1.81 -16.99	48.72 1.96 -9.73	45.16 1.71 -12.91	41.92 1.41 -12.24	39.04 1.35 -12.23	37.22 1.44 -10.48	35.70 1.22 -7.37
NYPA_VERNON____GT3 24163	30.51 0.31 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.01 0.33 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.19 0.78 -10.90	35.13 0.54 -21.54	35.58 0.72 -18.90	31.29 0.83 -12.83	29.95 1.18 -3.11	29.98 1.06 -6.48	29.97 0.77 -13.44	30.75 0.87 -12.19	32.77 0.58 -21.04	37.62 1.10 -16.55	43.69 1.40 -16.89	52.96 1.81 -16.99	48.72 1.96 -9.73	45.16 1.71 -12.91	41.92 1.41 -12.24	39.04 1.35 -12.23	37.22 1.44 -10.48	35.70 1.22 -7.37
NYPA__ASTORIA_CC1 323568	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.89 1.13 -3.11	29.96 1.03 -6.48	29.94 0.74 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.65 1.89 -9.73	45.09 1.65 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
NYPA__ASTORIA_CC2 323569	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.15 0.74 -10.90	35.10 0.51 -21.54	35.54 0.69 -18.90	31.27 0.81 -12.83	29.89 1.13 -3.11	29.96 1.03 -6.48	29.94 0.74 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.89 1.74 -16.99	48.65 1.89 -9.73	45.09 1.65 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
NYPA__HOLTSVILL 23794	30.82 0.61 -22.77	29.34 0.77 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.42 0.77 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.55 0.95 -21.54	36.27 1.40 -18.90	32.06 1.60 -12.84	31.01 2.23 -3.12	31.04 2.11 -6.49	30.66 1.45 -13.45	31.57 1.68 -12.20	36.12 1.07 -23.91	40.34 2.00 -18.37	53.15 2.62 -25.12	68.84 3.52 -31.16	66.34 3.82 -25.49	63.52 3.18 -29.81	51.49 2.77 -20.45	52.27 2.57 -24.23	39.83 2.66 -11.87	36.93 2.44 -7.38
NYPA____HELLGATE_GT1 24158	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	30.99 0.58 -10.89	34.96 0.38 -21.53	35.41 0.56 -18.89	31.12 0.67 -12.83	29.68 0.92 -3.10	29.75 0.83 -6.47	29.82 0.63 -13.43	30.58 0.71 -12.18	32.65 0.47 -21.04	37.44 0.92 -16.55	43.38 1.09 -16.88	52.54 1.40 -16.98	48.31 1.56 -9.72	44.78 1.34 -12.91	41.58 1.07 -12.23	38.78 1.09 -12.22	37.02 1.24 -10.48	35.47 1.00 -7.36
NYPA____HELLGATE_GT2 24159	30.47 0.26 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	30.99 0.58 -10.89	34.96 0.38 -21.53	35.41 0.56 -18.89	31.12 0.67 -12.83	29.68 0.92 -3.10	29.75 0.83 -6.47	29.82 0.63 -13.43	30.58 0.71 -12.18	32.65 0.47 -21.04	37.44 0.92 -16.55	43.38 1.09 -16.88	52.54 1.40 -16.98	48.31 1.56 -9.72	44.78 1.34 -12.91	41.58 1.07 -12.23	38.78 1.09 -12.22	37.02 1.24 -10.48	35.47 1.00 -7.36
NYS_BARGE__HYD 23848	13.28 0.01 -5.84	14.98 0.02 -4.69	15.06 0.00 -4.28	14.53 0.00 -4.19	15.33 -0.07 -3.87	19.76 -0.04 -2.24	21.99 -0.31 -2.79	18.12 -0.46 -5.52	20.07 -0.73 -4.84	20.09 -0.83 -3.29	25.20 -1.26 -0.80	23.10 -1.01 -1.66	18.58 -0.63 -3.44	20.10 -0.71 -3.12	16.12 -0.41 -5.39	23.27 -0.94 -4.24	28.52 -1.22 -4.33	36.60 -1.91 -4.35	37.42 -2.11 -2.49	32.25 -1.59 -3.31	29.97 -1.44 -3.14	27.27 -1.33 -3.13	26.67 -1.32 -2.69	28.02 -0.97 -1.89
OAK ORCHARD__HYD 24046	12.82 0.10 -5.29	14.66 0.14 -4.25	14.80 0.14 -3.87	14.26 0.12 -3.79	15.14 0.10 -3.51	19.77 0.19 -2.03	22.10 0.06 -2.53	17.98 -0.08 -5.00	20.15 -0.19 -4.39	20.41 -0.19 -2.98	26.07 -0.31 -0.72	23.73 -0.22 -1.50	18.79 -0.09 -3.12	20.43 -0.09 -2.83	15.99 -0.04 -4.89	23.63 -0.18 -3.84	29.05 -0.28 -3.92	37.60 -0.51 -3.94	38.70 -0.59 -2.26	33.10 -0.43 -3.00	30.69 -0.42 -2.84	27.90 -0.41 -2.84	27.30 -0.43 -2.43	28.58 -0.24 -1.71
OAKDALE__35_KV_LOAD 356122	17.27 0.07 -9.76	18.22 0.10 -7.84	18.03 0.10 -7.15	17.45 0.10 -7.00	18.09 0.09 -6.48	21.46 0.16 -3.75	24.34 0.16 -4.67	22.35 0.07 -9.23	24.06 0.00 -8.10	23.13 0.00 -5.50	26.94 -0.05 -1.33	25.22 0.00 -2.78	21.55 0.03 -5.76	22.95 0.04 -5.23	20.22 0.06 -9.02	27.10 0.04 -7.09	32.70 0.05 -7.24	41.51 0.07 -7.28	41.28 0.07 -4.17	36.16 0.09 -5.53	33.57 0.06 -5.25	30.76 0.05 -5.24	29.79 0.00 -4.49	30.35 0.08 -3.16
OCC_CHEM__DRP 24175	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.29 -0.16 -3.93	19.63 -0.19 -2.27	21.76 -0.59 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.77 -1.69 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.01 -0.60 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.98 -2.60 -4.41	36.78 -2.78 -2.53	31.69 -2.20 -3.36	29.47 -1.98 -3.18	26.84 -1.81 -3.18	26.38 -1.64 -2.72	27.62 -1.41 -1.91
OH_GEN_PROXY 24063	13.27 -0.04 -5.87	14.95 -0.04 -4.72	15.03 -0.05 -4.30	14.51 -0.05 -4.21	15.29 -0.13 -3.90	19.68 -0.12 -2.26	21.95 -0.37 -2.81	18.10 -0.51 -5.55	20.03 -0.80 -4.87	20.03 -0.90 -3.31	25.05 -1.41 -0.80	22.97 -1.14 -1.67	18.52 -0.71 -3.46	20.03 -0.80 -3.14	16.10 -0.47 -5.42	23.20 -1.04 -4.27	28.42 -1.35 -4.35	36.39 -2.15 -4.38	37.17 -2.37 -2.51	32.09 -1.77 -3.33	29.81 -1.61 -3.16	27.19 -1.43 -3.15	26.59 -1.42 -2.70	27.90 -1.11 -1.90
OLIN_CORP_DRP 24177	13.29 -0.09 -5.94	14.93 -0.11 -4.78	15.01 -0.13 -4.36	14.49 -0.12 -4.26	15.27 -0.20 -3.95	19.59 -0.25 -2.29	21.79 -0.57 -2.85	18.04 -0.64 -5.62	19.92 -0.97 -4.93	19.90 -1.08 -3.35	24.85 -1.62 -0.81	22.81 -1.32 -1.69	18.40 -0.87 -3.51	19.90 -0.97 -3.18	16.07 -0.57 -5.49	23.07 -1.22 -4.32	28.22 -1.60 -4.41	36.17 -2.43 -4.43	36.87 -2.70 -2.54	31.86 -2.05 -3.37	29.60 -1.87 -3.19	26.95 -1.71 -3.19	26.44 -1.59 -2.74	27.71 -1.33 -1.92



OLIN_CORP_DSASP 323712	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91
ONEIDA_HERK_LFGE 323681	9.16 0.05 -1.67	11.68 0.07 -1.34	12.10 0.10 -1.22	11.63 0.08 -1.20	12.74 0.12 -1.11	18.33 0.14 -0.64	20.55 0.23 -0.80	14.84 0.21 -1.58	17.60 0.25 -1.39	18.81 0.25 -0.94	26.25 0.36 -0.23	23.21 0.29 -0.47	16.89 0.14 -0.98	18.76 0.18 -0.89	12.76 0.08 -1.54	21.36 0.18 -1.21	26.98 0.33 -1.24	36.05 0.65 -1.25	38.49 0.74 -0.71	32.03 0.55 -0.95	29.70 0.54 -0.90	26.77 0.41 -0.90	26.42 0.35 -0.77	28.11 0.46 -0.54
ONEIDA___115KV_TB4 55905	10.35 0.18 -2.74	12.72 0.25 -2.20	13.06 0.27 -2.01	12.57 0.26 -1.96	13.63 0.29 -1.82	19.06 0.46 -1.05	21.35 0.53 -1.31	16.03 0.38 -2.59	18.66 0.43 -2.27	19.63 0.46 -1.54	26.70 0.67 -0.37	23.81 0.58 -0.78	17.76 0.38 -1.62	19.59 0.44 -1.47	13.95 0.28 -2.53	22.46 0.50 -1.99	28.13 0.69 -2.03	37.23 1.02 -2.04	39.31 1.11 -1.17	33.00 0.92 -1.55	30.56 0.82 -1.47	27.62 0.69 -1.47	27.17 0.61 -1.26	28.70 0.70 -0.89
ONONDAGA_REF_OCCRA 23987	12.28 0.01 -4.83	14.17 0.02 -3.88	14.33 0.01 -3.54	13.83 0.02 -3.47	14.73 0.00 -3.21	19.44 0.04 -1.86	21.85 0.02 -2.31	17.63 0.00 -4.57	19.94 -0.03 -4.01	20.31 -0.04 -2.72	26.27 -0.05 -0.66	23.80 -0.02 -1.37	18.61 0.00 -2.85	20.31 0.04 -2.59	15.64 0.03 -4.47	23.50 0.02 -3.51	29.00 0.00 -3.58	37.77 0.00 -3.61	39.06 -0.04 -2.06	33.27 0.00 -2.74	30.84 -0.03 -2.60	28.01 -0.05 -2.59	27.42 -0.10 -2.22	28.65 -0.03 -1.56
ONONDAGA___COGEN 23986	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
ONTARIO___LFGE 23819	13.27 0.13 -5.71	15.05 0.19 -4.59	15.15 0.18 -4.18	14.64 0.20 -4.09	15.48 0.17 -3.79	20.08 0.33 -2.19	22.58 0.33 -2.73	18.64 0.18 -5.40	20.81 0.11 -4.74	20.97 0.12 -3.22	26.57 0.13 -0.78	24.21 0.14 -1.62	19.26 0.13 -3.37	20.94 0.19 -3.06	16.55 0.13 -5.28	24.32 0.20 -4.15	29.90 0.25 -4.23	38.76 0.34 -4.26	39.84 0.37 -2.44	34.11 0.34 -3.24	31.59 0.25 -3.07	28.71 0.18 -3.07	28.00 0.08 -2.63	29.20 0.24 -1.85
ORANGEVILLE_WT_PWR 323706	14.11 0.02 -6.65	15.67 0.05 -5.35	15.70 0.04 -4.88	15.17 0.05 -4.77	15.93 -0.01 -4.42	20.18 0.07 -2.56	22.62 -0.08 -3.19	19.10 -0.25 -6.29	21.00 -0.48 -5.52	20.81 -0.56 -3.75	25.65 -0.92 -0.91	23.60 -0.74 -1.89	19.23 -0.46 -3.93	20.75 -0.50 -3.56	17.01 -0.28 -6.15	24.17 -0.64 -4.84	29.53 -0.81 -4.93	37.86 -1.26 -4.96	38.51 -1.37 -2.84	33.27 -1.04 -3.77	30.91 -0.93 -3.58	28.17 -0.87 -3.57	27.48 -0.89 -3.06	28.61 -0.65 -2.15
ORANGEVILLE___ESR 323794	14.11 0.02 -6.65	15.67 0.05 -5.35	15.70 0.04 -4.88	15.17 0.05 -4.77	15.93 -0.01 -4.42	20.18 0.07 -2.56	22.62 -0.08 -3.19	19.10 -0.25 -6.29	21.00 -0.48 -5.52	20.81 -0.56 -3.75	25.65 -0.92 -0.91	23.60 -0.74 -1.89	19.23 -0.46 -3.93	20.75 -0.50 -3.56	17.01 -0.28 -6.15	24.17 -0.64 -4.84	29.53 -0.81 -4.93	37.86 -1.26 -4.96	38.51 -1.37 -2.84	33.27 -1.04 -3.77	30.91 -0.93 -3.58	28.17 -0.87 -3.57	27.48 -0.89 -3.06	28.61 -0.65 -2.15
OSWEGATCHIE___HYD 24044	8.78 -0.35 -1.70	11.11 -0.52 -1.36	11.54 -0.48 -1.24	11.08 -0.49 -1.22	12.19 -0.46 -1.13	17.22 -0.98 -0.65	19.45 -0.88 -0.81	14.28 -0.38 -1.61	16.97 -0.40 -1.41	18.07 -0.51 -0.96	25.28 -0.62 -0.23	22.21 -0.72 -0.48	16.13 -0.63 -1.00	17.85 -0.74 -0.91	12.10 -0.61 -1.57	20.16 -1.04 -1.23	25.50 -1.17 -1.26	34.09 -1.33 -1.27	36.57 -1.19 -0.72	30.27 -1.22 -0.96	28.45 -0.74 -0.91	25.56 -0.82 -0.91	25.45 -0.63 -0.78	27.17 -0.49 -0.55
OSWEGO___5 23606	11.10 -0.10 -3.77	13.15 -0.14 -3.03	13.39 -0.15 -2.76	12.90 -0.14 -2.70	13.85 -0.17 -2.50	18.75 -0.25 -1.45	21.02 -0.29 -1.80	16.41 -0.21 -3.56	18.79 -0.29 -3.13	19.43 -0.32 -2.12	25.71 -0.46 -0.51	23.14 -0.38 -1.07	17.72 -0.27 -2.22	19.42 -0.28 -2.02	14.46 -0.17 -3.48	22.37 -0.34 -2.74	27.75 -0.46 -2.79	36.32 -0.65 -2.81	37.94 -0.70 -1.61	32.09 -0.58 -2.14	29.76 -0.54 -2.02	27.00 -0.48 -2.02	26.53 -0.51 -1.73	27.87 -0.46 -1.22
OSWEGO___6 23613	11.10 -0.10 -3.77	13.15 -0.14 -3.03	13.39 -0.15 -2.76	12.90 -0.14 -2.70	13.85 -0.17 -2.50	18.75 -0.25 -1.45	21.02 -0.29 -1.80	16.41 -0.21 -3.56	18.79 -0.29 -3.13	19.43 -0.32 -2.12	25.71 -0.46 -0.51	23.14 -0.38 -1.07	17.72 -0.27 -2.22	19.42 -0.28 -2.02	14.46 -0.17 -3.48	22.37 -0.34 -2.74	27.75 -0.46 -2.79	36.32 -0.65 -2.81	37.94 -0.70 -1.61	32.09 -0.58 -2.14	29.76 -0.54 -2.02	27.00 -0.48 -2.02	26.53 -0.51 -1.73	27.87 -0.46 -1.22
OUTOKUMPU-AB___DRP 24206	13.48 0.07 -5.97	15.17 0.10 -4.80	15.24 0.09 -4.38	14.73 0.10 -4.28	15.52 0.03 -3.97	19.97 0.12 -2.30	22.20 -0.18 -2.86	18.34 -0.37 -5.65	20.27 -0.64 -4.96	20.27 -0.72 -3.37	25.40 -1.08 -0.81	23.27 -0.88 -1.70	18.75 -0.54 -3.52	20.30 -0.58 -3.20	16.34 -0.32 -5.52	23.51 -0.80 -4.34	28.80 -1.04 -4.43	36.98 -1.64 -4.46	37.81 -1.78 -2.55	32.55 -1.37 -3.39	30.24 -1.24 -3.21	27.53 -1.15 -3.21	26.99 -1.06 -2.75	28.20 -0.84 -1.93
OXBOW___ 24026	13.40 0.02 -5.94	15.09 0.04 -4.78	15.16 0.02 -4.36	14.65 0.04 -4.26	15.42 -0.05 -3.95	19.83 0.00 -2.29	22.03 -0.33 -2.85	18.18 -0.50 -5.62	20.11 -0.78 -4.93	20.09 -0.88 -3.35	25.14 -1.34 -0.81	23.06 -1.08 -1.69	18.59 -0.68 -3.51	20.11 -0.76 -3.18	16.19 -0.45 -5.49	23.29 -1.00 -4.32	28.53 -1.30 -4.41	36.55 -2.05 -4.44	37.35 -2.22 -2.54	32.20 -1.71 -3.37	29.91 -1.55 -3.20	27.23 -1.43 -3.19	26.69 -1.34 -2.74	27.98 -1.06 -1.92
OXY_CHEM_DSASP 323612	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.29 -0.16 -3.93	19.63 -0.19 -2.27	21.76 -0.59 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.77 -1.69 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.01 -0.60 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.98 -2.60 -4.41	36.78 -2.78 -2.53	31.69 -2.20 -3.36	29.47 -1.98 -3.18	26.84 -1.81 -3.18	26.38 -1.64 -2.72	27.62 -1.41 -1.91
OZONE_PARK_ESR 323760	30.52 0.31 -22.77	28.99 0.42 -18.30	27.85 0.38 -16.69	27.02 0.34 -16.33	27.02 0.38 -15.12	27.00 0.70 -8.75	31.27 0.86 -10.90	35.21 0.61 -21.54	35.65 0.80 -18.90	31.37 0.92 -12.83	30.05 1.28 -3.11	30.07 1.14 -6.48	30.03 0.84 -13.43	30.82 0.94 -12.19	32.81 0.62 -21.04	37.70 1.18 -16.55	43.82 1.52 -16.88	53.10 1.95 -16.99	48.87 2.11 -9.73	45.28 1.83 -12.91	42.06 1.55 -12.24	39.17 1.48 -12.23	37.27 1.49 -10.48	35.78 1.30 -7.37



PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.29 -0.16 -3.93	19.63 -0.19 -2.27	21.76 -0.59 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.77 -1.69 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.01 -0.60 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.98 -2.60 -4.41	36.78 -2.78 -2.53	31.69 -2.20 -3.36	29.47 -1.98 -3.18	26.84 -1.81 -3.18	26.38 -1.64 -2.72	27.62 -1.41 -1.91
PACKARD__115KV_DUPONT_184 80571	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.29 -0.16 -3.93	19.63 -0.19 -2.27	21.76 -0.59 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.77 -1.69 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.01 -0.60 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.98 -2.60 -4.41	36.78 -2.78 -2.53	31.69 -2.20 -3.36	29.47 -1.98 -3.18	26.84 -1.81 -3.18	26.38 -1.64 -2.72	27.62 -1.41 -1.91
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	30.50 0.30 -22.77	28.99 0.42 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.10 0.68 -10.90	35.05 0.46 -21.54	35.46 0.61 -18.90	31.18 0.72 -12.83	29.79 1.03 -3.11	29.84 0.92 -6.48	29.88 0.68 -13.44	30.64 0.76 -12.19	32.69 0.50 -21.04	37.48 0.96 -16.55	43.54 1.25 -16.89	52.76 1.61 -16.99	48.54 1.78 -9.73	44.97 1.53 -12.91	41.72 1.22 -12.24	38.94 1.25 -12.23	37.12 1.34 -10.48	35.64 1.17 -7.37
PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	30.57 0.36 -22.77	29.08 0.51 -18.30	27.93 0.46 -16.69	27.08 0.40 -16.33	27.10 0.46 -15.12	27.11 0.81 -8.76	31.27 0.86 -10.90	35.16 0.56 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.97 1.21 -3.11	29.98 1.05 -6.48	29.99 0.79 -13.44	30.75 0.87 -12.19	32.75 0.57 -21.04	37.62 1.10 -16.55	43.70 1.40 -16.89	52.96 1.81 -16.99	48.80 2.04 -9.73	45.22 1.77 -12.91	41.92 1.41 -12.24	39.12 1.43 -12.23	37.32 1.54 -10.48	35.86 1.38 -7.37
PATROON__115KV_TB1 80586	35.30 0.19 -27.68	32.81 0.29 -22.25	31.38 0.31 -20.29	30.50 0.30 -19.86	30.24 0.33 -18.38	28.68 0.49 -10.64	33.27 0.51 -13.25	39.54 0.30 -26.18	39.35 0.41 -22.98	33.72 0.49 -15.60	30.10 0.67 -3.78	30.90 0.58 -7.87	32.47 0.38 -16.33	32.95 0.44 -14.82	36.97 0.25 -25.58	40.55 0.46 -20.12	46.55 0.61 -20.53	55.64 0.82 -20.65	49.71 0.85 -11.83	46.90 0.67 -15.70	43.83 0.68 -14.88	40.89 0.56 -14.87	38.60 0.56 -12.74	36.56 0.49 -8.96
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	13.61 -0.07 -6.24	15.19 -0.10 -5.02	15.24 -0.12 -4.58	14.71 -0.11 -4.48	15.49 -0.17 -4.15	19.74 -0.21 -2.40	22.11 -0.39 -2.99	18.49 -0.47 -5.91	20.37 -0.77 -5.18	20.28 -0.86 -3.52	25.15 -1.36 -0.85	23.12 -1.10 -1.78	18.75 -0.69 -3.68	20.25 -0.78 -3.34	16.48 -0.43 -5.77	23.51 -1.00 -4.54	28.80 -1.25 -4.63	37.01 -1.81 -4.66	37.70 -2.00 -2.67	32.52 -1.56 -3.54	30.21 -1.41 -3.36	27.50 -1.32 -3.35	26.88 -1.29 -2.87	27.99 -1.14 -2.02
PAWLING_115_KV_BK3_REV_LBMP_H 345028	30.84 0.33 -23.07	29.25 0.44 -18.54	28.10 0.41 -16.90	27.28 0.39 -16.54	27.24 0.40 -15.32	27.07 0.65 -8.87	31.32 0.76 -11.04	35.41 0.54 -21.82	35.84 0.73 -19.15	31.44 0.81 -13.00	29.94 1.13 -3.15	30.04 1.03 -6.56	30.10 0.73 -13.61	30.85 0.81 -12.35	33.01 0.55 -21.32	37.83 1.10 -16.76	43.97 1.45 -17.11	53.28 1.91 -17.21	48.96 2.07 -9.85	45.32 1.71 -13.08	42.17 1.50 -12.40	39.28 1.43 -12.39	37.31 1.39 -10.62	35.82 1.25 -7.46
PEEKSKILL____ 23653	30.26 0.25 -22.57	28.75 0.34 -18.14	27.63 0.31 -16.54	26.81 0.28 -16.19	26.82 0.31 -14.98	26.77 0.54 -8.68	30.98 0.66 -10.80	34.87 0.47 -21.34	35.31 0.62 -18.73	31.05 0.71 -12.72	29.71 0.97 -3.08	29.74 0.87 -6.42	29.72 0.65 -13.31	30.50 0.73 -12.08	32.49 0.49 -20.85	37.31 0.94 -16.40	43.34 1.19 -16.73	52.57 1.57 -16.84	48.38 1.70 -9.64	44.80 1.47 -12.80	41.64 1.24 -12.13	38.76 1.17 -12.12	36.88 1.19 -10.39	35.39 0.97 -7.30
PGE MADISON__WINDPWR 24146	17.32 0.53 -9.35	18.53 0.74 -7.52	18.43 0.80 -6.85	17.81 0.75 -6.71	18.57 0.84 -6.21	22.51 1.37 -3.60	25.57 1.58 -4.48	23.00 1.10 -8.85	24.92 1.20 -7.76	24.15 1.25 -5.27	28.68 1.75 -1.28	26.63 1.53 -2.66	22.24 0.96 -5.52	23.84 1.15 -5.01	20.55 0.77 -8.64	28.27 1.50 -6.80	34.43 2.08 -6.94	44.42 3.28 -6.98	44.58 3.56 -4.00	38.80 2.96 -5.30	35.95 2.66 -5.03	32.78 2.29 -5.02	31.65 2.05 -4.31	32.47 2.33 -3.03
PIERCEFIELD__HYD 23852	8.22 -0.48 -1.26	10.58 -0.71 -1.01	11.05 -0.66 -0.93	10.59 -0.66 -0.91	11.66 -0.70 -0.84	16.63 -1.40 -0.49	18.85 -1.27 -0.60	13.70 -0.55 -1.19	16.49 -0.51 -1.05	17.70 -0.63 -0.71	25.11 -0.72 -0.17	21.93 -0.88 -0.36	15.74 -0.77 -0.74	17.39 -0.97 -0.68	11.46 -0.85 -1.17	19.43 -1.46 -0.92	24.72 -1.63 -0.94	32.99 -2.12 -0.94	35.65 -1.93 -0.54	29.26 -1.98 -0.72	27.76 -1.19 -0.68	24.95 -1.20 -0.68	25.07 -0.81 -0.58	26.90 -0.62 -0.41
PINELAWN_CC_1 323563	30.76 0.55 -22.77	29.26 0.69 -18.30	28.06 0.59 -16.69	27.22 0.54 -16.33	27.32 0.68 -15.12	27.46 1.16 -8.76	31.76 1.35 -10.90	35.46 0.86 -21.54	36.15 1.29 -18.90	31.92 1.46 -12.84	30.80 2.03 -3.12	30.82 1.89 -6.49	30.51 1.29 -13.45	31.41 1.52 -12.20	36.01 0.96 -23.91	40.12 1.78 -18.37	52.87 2.34 -25.12	68.43 3.11 -31.16	65.89 3.37 -25.49	63.19 2.84 -29.81	51.21 2.49 -20.45	51.96 2.27 -24.23	39.55 2.38 -11.87	36.66 2.17 -7.38
PJM_GEN_HTP_PROXY 323702	30.46 0.26 -22.77	28.92 0.35 -18.30	27.78 0.31 -16.68	26.96 0.28 -16.33	26.95 0.31 -15.12	26.90 0.60 -8.75	31.13 0.72 -10.90	35.10 0.51 -21.53	35.54 0.69 -18.90	31.25 0.79 -12.83	29.87 1.10 -3.11	29.91 0.99 -6.48	29.92 0.73 -13.43	30.69 0.81 -12.19	32.72 0.53 -21.04	37.56 1.04 -16.55	43.59 1.30 -16.88	52.82 1.67 -16.99	48.57 1.81 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.94 1.25 -12.23	37.10 1.31 -10.48	35.56 1.09 -7.37
PJM_GEN_KEystone 24065	22.56 0.08 -15.05	22.48 0.11 -12.09	21.89 0.09 -11.03	21.21 0.07 -10.79	21.57 0.06 -9.99	23.49 0.16 -5.78	26.87 0.16 -7.20	27.30 0.01 -14.23	28.40 -0.05 -12.49	26.05 -0.05 -8.48	27.56 -0.15 -2.05	26.64 -0.09 -4.28	24.64 0.00 -8.88	25.72 -0.02 -8.06	25.08 0.03 -13.90	30.23 -0.02 -10.28	36.57 0.00 -11.16	45.28 -0.10 -11.23	43.35 -0.11 -6.43	39.07 0.00 -8.53	36.30 -0.06 -8.09	33.52 -0.03 -8.08	32.20 -0.03 -6.93	31.95 -0.03 -4.87
PJM_GEN_NEPTUNE_PROXY 323594	30.63 0.42 -22.77	29.10 0.52 -18.30	27.90 0.43 -16.69	27.07 0.39 -16.33	27.14 0.50 -15.12	27.18 0.88 -8.76	31.43 1.01 -10.90	35.26 0.67 -21.54	35.87 1.01 -18.90	31.62 1.16 -12.84	30.37 1.59 -3.12	30.46 1.53 -6.49	30.24 1.02 -13.45	31.11 1.22 -12.20	35.81 0.76 -23.91	39.76 1.42 -18.37	52.37 1.83 -25.12	67.71 2.39 -31.16	65.11 2.59 -25.49	62.55 2.20 -29.81	50.61 1.89 -20.45	51.45 1.76 -24.23	39.04 1.87 -11.87	36.17 1.68 -7.37
PJM_GEN_VFT_PROXY 323633	30.42 0.22 -22.77	28.85 0.28 -18.30	27.70 0.24 -16.69	26.88 0.21 -16.33	26.87 0.23 -15.12	26.78 0.47 -8.75	31.02 0.61 -10.90	35.04 0.44 -21.54	35.46 0.61 -18.90	31.16 0.71 -12.83	29.74 0.97 -3.11	29.80 0.87 -6.48	29.84 0.65 -13.43	30.60 0.73 -12.19	32.67 0.49 -21.04	37.46 0.94 -16.55	43.47 1.17 -16.88	52.62 1.47 -16.99	48.35 1.59 -9.73	44.85 1.41 -12.91	41.70 1.19 -12.24	38.81 1.12 -12.23	36.97 1.19 -10.48	35.40 0.92 -7.37



PLATSBRG_115KV_PMLD1 355749	7.81 -0.56 -0.93	10.15 -0.87 -0.75	10.66 -0.81 -0.68	10.18 -0.84 -0.67	11.33 -0.81 -0.62	16.31 -1.60 -0.36	18.51 -1.44 -0.45	13.33 -0.61 -0.88	16.19 -0.54 -0.77	17.52 -0.63 -0.53	25.12 -0.67 -0.13	21.79 -0.92 -0.27	15.45 -0.87 -0.55	17.09 -1.10 -0.50	11.09 -0.91 -0.86	19.15 -1.50 -0.68	24.63 -1.47 -0.69	33.29 -1.57 -0.70	36.21 -1.22 -0.40	29.60 -1.47 -0.53	27.81 -0.96 -0.50	24.87 -1.10 -0.50	24.97 -0.76 -0.43	26.87 -0.54 -0.30
PLEASANTVLY___LBMP 24000	31.38 0.25 -23.69	29.65 0.34 -19.04	28.47 0.32 -17.36	27.64 0.30 -16.99	27.59 0.33 -15.73	27.22 0.56 -9.11	31.48 0.62 -11.34	35.91 0.44 -22.41	36.20 0.57 -19.67	31.63 0.65 -13.35	29.84 0.95 -3.23	30.04 0.85 -6.74	30.36 0.61 -13.98	31.06 0.69 -12.69	33.50 0.46 -21.90	38.05 0.86 -17.22	44.07 1.09 -17.57	53.27 1.43 -17.68	48.71 1.56 -10.12	45.28 1.31 -13.44	42.16 1.16 -12.74	39.26 1.07 -12.72	37.32 1.11 -10.91	35.73 0.95 -7.66
PLSNTVLE_13_KV_13.8KVDIST 80602	30.62 0.28 -22.91	29.06 0.38 -18.41	27.92 0.36 -16.79	27.10 0.32 -16.43	27.09 0.36 -15.21	26.99 0.63 -8.81	31.22 0.74 -10.97	35.24 0.52 -21.66	35.66 0.69 -19.01	31.33 0.79 -12.91	29.91 1.13 -3.12	29.95 0.99 -6.52	30.02 0.74 -13.51	30.77 0.81 -12.26	32.85 0.53 -21.17	37.66 1.04 -16.65	43.72 1.32 -16.99	52.96 1.71 -17.09	48.67 1.85 -9.78	45.11 1.59 -12.99	41.97 1.39 -12.31	39.07 1.30 -12.30	37.13 1.29 -10.54	35.66 1.14 -7.41
PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	30.62 0.28 -22.91	29.06 0.38 -18.41	27.92 0.36 -16.79	27.10 0.32 -16.43	27.09 0.36 -15.21	26.99 0.63 -8.81	31.22 0.74 -10.97	35.24 0.52 -21.66	35.66 0.69 -19.01	31.33 0.79 -12.91	29.91 1.13 -3.12	29.95 0.99 -6.52	30.02 0.74 -13.51	30.77 0.81 -12.26	32.85 0.53 -21.17	37.66 1.04 -16.65	43.72 1.32 -16.99	52.96 1.71 -17.09	48.67 1.85 -9.78	45.11 1.59 -12.99	41.97 1.39 -12.31	39.07 1.30 -12.30	37.13 1.29 -10.54	35.66 1.14 -7.41
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	31.12 0.30 -23.39	29.47 0.40 -18.80	28.30 0.38 -17.14	27.47 0.35 -16.78	27.44 0.39 -15.53	27.17 0.63 -8.99	31.39 0.68 -11.20	35.65 0.47 -22.12	35.98 0.61 -19.42	31.48 0.67 -13.18	29.83 0.98 -3.19	29.98 0.88 -6.65	30.19 0.63 -13.80	30.92 0.71 -12.52	33.23 0.47 -21.62	37.89 0.92 -17.00	43.98 1.22 -17.35	53.22 1.61 -17.45	48.77 1.74 -9.99	45.26 1.47 -13.27	42.14 1.30 -12.57	39.25 1.22 -12.56	37.28 1.21 -10.77	35.76 1.08 -7.57
POLETTI____ 23519	30.46 0.25 -22.77	28.91 0.34 -18.30	27.77 0.30 -16.69	26.94 0.26 -16.33	26.94 0.30 -15.12	26.86 0.56 -8.75	31.10 0.68 -10.90	35.09 0.50 -21.54	35.51 0.65 -18.90	31.22 0.76 -12.83	29.82 1.05 -3.11	29.87 0.94 -6.48	29.89 0.69 -13.43	30.66 0.78 -12.19	32.70 0.51 -21.04	37.52 1.00 -16.55	43.57 1.27 -16.88	52.72 1.57 -16.99	48.50 1.74 -9.73	44.97 1.53 -12.91	41.78 1.27 -12.24	38.92 1.22 -12.23	37.05 1.26 -10.48	35.54 1.06 -7.37
POMONA___ESR 323819	29.74 0.25 -22.05	28.33 0.34 -17.72	27.24 0.30 -16.16	26.44 0.28 -15.82	26.47 0.31 -14.64	26.57 0.54 -8.48	30.73 0.66 -10.56	34.37 0.46 -20.86	34.85 0.59 -18.30	30.72 0.67 -12.43	29.59 0.92 -3.01	29.57 0.85 -6.27	29.40 0.63 -13.01	30.18 0.69 -11.81	32.00 0.48 -20.38	36.90 0.90 -16.03	42.93 1.17 -16.35	52.15 1.54 -16.45	48.12 1.67 -9.42	44.44 1.41 -12.51	41.34 1.21 -11.85	38.45 1.15 -11.84	36.61 1.16 -10.15	35.19 0.95 -7.13
PORT_JEFF_3 23555	30.84 0.62 -22.77	29.36 0.79 -18.30	28.16 0.69 -16.69	27.32 0.64 -16.33	27.44 0.79 -15.12	27.64 1.33 -8.76	31.94 1.52 -10.90	35.58 0.98 -21.54	36.30 1.44 -18.90	32.10 1.64 -12.84	31.06 2.28 -3.12	31.09 2.16 -6.49	30.70 1.48 -13.45	31.60 1.72 -12.20	36.14 1.09 -23.91	40.38 2.04 -18.37	53.23 2.69 -25.12	68.94 3.62 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.57 2.85 -20.45	52.32 2.62 -24.23	39.90 2.73 -11.87	36.98 2.49 -7.38
PORT_JEFF_4 23616	30.84 0.62 -22.77	29.36 0.79 -18.30	28.16 0.69 -16.69	27.32 0.64 -16.33	27.44 0.79 -15.12	27.64 1.33 -8.76	31.94 1.52 -10.90	35.58 0.98 -21.54	36.30 1.44 -18.90	32.10 1.64 -12.84	31.06 2.28 -3.12	31.09 2.16 -6.49	30.70 1.48 -13.45	31.60 1.72 -12.20	36.14 1.09 -23.91	40.38 2.04 -18.37	53.23 2.69 -25.12	68.94 3.62 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.57 2.85 -20.45	52.32 2.62 -24.23	39.90 2.73 -11.87	36.98 2.49 -7.38
PORT_JEFF_IC 23713	30.84 0.63 -22.77	29.38 0.80 -18.30	28.16 0.69 -16.69	27.32 0.64 -16.33	27.45 0.81 -15.12	27.66 1.35 -8.76	31.96 1.54 -10.90	35.58 0.98 -21.54	36.31 1.45 -18.90	32.12 1.66 -12.84	31.09 2.31 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.62 1.73 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.28 2.75 -25.12	69.01 3.69 -31.16	66.48 3.96 -25.49	63.68 3.33 -29.81	51.63 2.91 -20.45	52.37 2.67 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
PPL PILGRIM_ST_GT1 24216	30.86 0.65 -22.77	29.40 0.82 -18.30	28.19 0.72 -16.69	27.35 0.67 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.62 1.02 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.11 2.33 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.64 1.75 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.26 2.72 -25.12	68.98 3.66 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.61 2.88 -20.45	52.32 2.62 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
PPL PILGRIM_ST_GT2 24217	30.86 0.65 -22.77	29.40 0.82 -18.30	28.19 0.72 -16.69	27.35 0.67 -16.33	27.47 0.83 -15.12	27.69 1.39 -8.76	31.99 1.58 -10.90	35.62 1.02 -21.54	36.34 1.48 -18.90	32.15 1.69 -12.84	31.11 2.33 -3.12	31.11 2.18 -6.49	30.71 1.50 -13.45	31.64 1.75 -12.20	36.15 1.10 -23.91	40.40 2.06 -18.37	53.26 2.72 -25.12	68.98 3.66 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.61 2.88 -20.45	52.32 2.62 -24.23	39.93 2.76 -11.87	37.01 2.52 -7.38
PPL_SHRM_GT3 24213	30.89 0.68 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.74 1.44 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.92 3.57 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.13 2.96 -11.87	37.20 2.71 -7.38
PPL_SHRM_GT4 24214	30.89 0.68 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.74 1.44 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.92 3.57 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.13 2.96 -11.87	37.20 2.71 -7.38
PROJECT___ORANGE I 24174	11.78 -0.01 -4.36	13.77 0.00 -3.50	13.96 -0.01 -3.19	13.46 -0.01 -3.12	14.39 -0.02 -2.89	19.20 -0.02 -1.67	21.56 -0.04 -2.09	17.14 -0.04 -4.12	19.49 -0.08 -3.62	19.99 -0.09 -2.45	26.15 -0.10 -0.59	23.60 -0.09 -1.24	18.30 -0.03 -2.57	20.00 -0.02 -2.33	15.17 0.00 -4.03	23.12 -0.02 -3.17	28.57 -0.08 -3.23	37.27 -0.14 -3.25	38.71 -0.19 -1.86	32.88 -0.12 -2.47	30.47 -0.14 -2.34	27.68 -0.13 -2.34	27.13 -0.18 -2.00	28.41 -0.11 -1.41



PROJECT___ORANGE 2 24166	11.78 -0.01 -4.36	13.77 0.00 -3.50	13.96 -0.01 -3.19	13.46 -0.01 -3.12	14.39 -0.02 -2.89	19.20 -0.02 -1.67	21.56 -0.04 -2.09	17.14 -0.04 -4.12	19.49 -0.08 -3.62	19.99 -0.09 -2.45	26.15 -0.10 -0.59	23.60 -0.09 -1.24	18.30 -0.03 -2.57	20.00 -0.02 -2.33	15.17 0.00 -4.03	23.12 -0.02 -3.17	28.57 -0.08 -3.23	37.27 -0.14 -3.25	38.71 -0.19 -1.86	32.88 -0.12 -2.47	30.47 -0.14 -2.34	27.68 -0.13 -2.34	27.13 -0.18 -2.00	28.41 -0.11 -1.41
PUCKETT___SOLAR 323809	17.58 0.19 -9.95	18.54 0.28 -8.00	18.36 0.29 -7.29	17.76 0.28 -7.14	18.42 0.29 -6.61	21.86 0.49 -3.82	24.82 0.55 -4.76	22.79 0.33 -9.41	24.53 0.32 -8.26	23.55 0.32 -5.61	27.43 0.41 -1.36	25.66 0.38 -2.83	21.90 0.27 -5.87	23.33 0.32 -5.33	20.57 0.23 -9.19	27.64 0.44 -7.23	33.40 0.61 -7.38	42.47 0.89 -7.42	42.24 0.96 -4.25	37.03 0.85 -5.64	34.35 0.73 -5.35	31.45 0.64 -5.34	30.41 0.53 -4.58	30.98 0.65 -3.22
PYRITES___HYD 24023	8.29 -0.37 -1.23	10.68 -0.58 -0.99	11.17 -0.51 -0.90	10.71 -0.52 -0.88	11.81 -0.53 -0.81	16.84 -1.18 -0.47	19.12 -0.98 -0.59	13.89 -0.33 -1.16	16.72 -0.26 -1.02	17.95 -0.37 -0.69	25.49 -0.33 -0.17	22.26 -0.54 -0.35	15.93 -0.55 -0.72	17.62 -0.73 -0.66	11.60 -0.68 -1.13	19.72 -1.14 -0.89	25.15 -1.17 -0.91	33.68 -1.40 -0.92	36.41 -1.15 -0.52	29.89 -1.34 -0.70	28.31 -0.62 -0.66	25.39 -0.74 -0.66	25.48 -0.38 -0.56	27.35 -0.16 -0.40
QUAKERRD_115KV_BK1 80622	12.53 -0.10 -5.19	14.31 -0.13 -4.17	14.44 -0.14 -3.80	13.92 -0.14 -3.72	14.79 -0.17 -3.44	19.28 -0.26 -1.99	21.59 -0.41 -2.48	17.61 -0.35 -4.91	19.75 -0.51 -4.31	20.00 -0.55 -2.92	25.57 -0.80 -0.71	23.27 -0.65 -1.48	18.41 -0.41 -3.06	20.02 -0.44 -2.78	15.67 -0.27 -4.79	23.20 -0.54 -3.77	28.50 -0.76 -3.85	36.94 -1.09 -3.87	37.99 -1.26 -2.22	32.50 -0.98 -2.94	30.10 -0.96 -2.79	27.36 -0.89 -2.79	26.80 -0.89 -2.39	27.98 -0.81 -1.68
QUENSBRY_115KV_TB8 356137	36.21 0.49 -28.29	33.67 0.67 -22.74	32.18 0.67 -20.73	31.28 0.64 -20.29	30.99 0.69 -18.78	29.49 1.07 -10.88	34.24 1.19 -13.54	40.62 0.81 -26.75	40.55 1.12 -23.48	34.68 1.11 -15.94	31.01 1.49 -3.86	31.75 1.26 -8.05	33.30 0.85 -16.69	33.82 0.99 -15.15	37.91 0.62 -26.14	41.69 1.16 -20.56	47.91 1.52 -20.98	57.42 2.15 -21.11	51.38 2.26 -12.08	48.32 1.74 -16.04	45.28 1.81 -15.21	42.11 1.45 -15.19	39.79 1.47 -13.02	38.11 1.84 -9.15
RAMAPO___LBMP 323565	29.65 0.23 -21.98	28.25 0.31 -17.67	27.17 0.28 -16.11	26.36 0.25 -15.77	26.39 0.28 -14.60	26.49 0.49 -8.45	30.64 0.60 -10.52	34.27 0.42 -20.79	34.75 0.54 -18.25	30.63 0.62 -12.39	29.51 0.85 -3.00	29.49 0.79 -6.25	29.32 0.58 -12.97	30.09 0.64 -11.77	31.89 0.43 -20.32	36.75 0.80 -15.98	42.78 1.07 -16.30	51.96 1.40 -16.40	47.94 1.52 -9.39	44.28 1.28 -12.47	41.19 1.10 -11.82	38.32 1.04 -11.80	36.48 1.06 -10.12	35.09 0.87 -7.11
RANKINE____ 23646	13.66 0.04 -6.18	15.31 0.07 -4.96	15.36 0.05 -4.53	14.84 0.06 -4.43	15.63 0.01 -4.10	19.99 0.07 -2.37	22.35 -0.12 -2.96	18.60 -0.30 -5.84	20.52 -0.56 -5.13	20.47 -0.63 -3.48	25.48 -1.03 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.46 -0.53 -3.31	16.56 -0.29 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.34 -1.43 -4.61	38.08 -1.59 -2.64	32.85 -1.19 -3.50	30.49 -1.10 -3.32	27.76 -1.02 -3.32	27.18 -0.96 -2.84	28.35 -0.76 -2.00
RAVENSWOOD_GT2_1 24244	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT2_2 24245	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT2_3 24246	30.49 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.98 0.30 -16.33	26.97 0.33 -15.12	26.93 0.63 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.86 1.71 -16.99	48.65 1.89 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT2_4 24247	30.49 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.98 0.30 -16.33	26.97 0.33 -15.12	26.93 0.63 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.89	52.86 1.71 -16.99	48.65 1.89 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT3_1 24248	30.48 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.86 1.71 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT3_2 24249	30.48 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.86 1.71 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT3_3 24250	30.49 0.28 -22.77	28.95 0.38 -18.30	27.81 0.35 -16.69	26.98 0.30 -16.33	26.99 0.35 -15.12	26.93 0.63 -8.76	31.17 0.76 -10.90	35.13 0.54 -21.54	35.58 0.72 -18.90	31.29 0.83 -12.83	29.92 1.15 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.89 1.39 -12.24	39.02 1.32 -12.23	37.15 1.37 -10.48	35.64 1.17 -7.37
RAVENSWOOD_GT3_4 24251	30.49 0.28 -22.77	28.95 0.38 -18.30	27.81 0.35 -16.69	26.98 0.30 -16.33	26.99 0.35 -15.12	26.93 0.63 -8.76	31.17 0.76 -10.90	35.13 0.54 -21.54	35.58 0.72 -18.90	31.29 0.83 -12.83	29.92 1.15 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.89 1.74 -16.99	48.69 1.93 -9.73	45.10 1.65 -12.91	41.89 1.39 -12.24	39.02 1.32 -12.23	37.15 1.37 -10.48	35.64 1.17 -7.37



RAVENSWOOD_GT_1 23729	30.51 0.30 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.01 0.33 -16.33	27.02 0.38 -15.12	26.99 0.68 -8.76	31.19 0.78 -10.90	35.13 0.54 -21.54	35.58 0.72 -18.90	31.29 0.83 -12.83	29.95 1.18 -3.11	29.98 1.05 -6.48	29.97 0.77 -13.44	30.75 0.87 -12.19	32.75 0.57 -21.04	37.62 1.10 -16.55	43.70 1.40 -16.89	52.96 1.81 -16.99	48.72 1.96 -9.73	45.16 1.71 -12.91	41.89 1.39 -12.24	39.04 1.35 -12.23	37.20 1.42 -10.48	35.70 1.22 -7.37
RAVENSWOOD_GT_10 24258	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT_11 24259	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT_4 24252	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.13 0.72 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.69 0.81 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
RAVENSWOOD_GT_5 24254	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.13 0.72 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.69 0.81 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
RAVENSWOOD_GT_6 24253	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.13 0.72 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.69 0.81 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
RAVENSWOOD_GT_7 24255	30.48 0.28 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.76	31.13 0.72 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.69 0.81 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD_GT_9 24257	30.48 0.28 -22.77	28.94 0.37 -18.30	27.79 0.32 -16.69	26.97 0.29 -16.33	26.97 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.54 0.69 -18.90	31.25 0.79 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.89	52.82 1.67 -16.99	48.61 1.85 -9.73	45.07 1.62 -12.91	41.87 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.62 1.14 -7.37
RAVENSWOOD___1 23533	30.51 0.31 -22.77	28.98 0.41 -18.30	27.84 0.37 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.99 0.68 -8.76	31.17 0.76 -10.90	35.13 0.54 -21.54	35.56 0.70 -18.90	31.29 0.83 -12.83	29.92 1.16 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.75 0.87 -12.19	32.75 0.57 -21.04	37.62 1.10 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.72 1.96 -9.73	45.13 1.68 -12.91	41.89 1.38 -12.24	39.04 1.35 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
RAVENSWOOD___2 23534	30.50 0.30 -22.77	28.98 0.41 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.17 0.76 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.29 0.83 -12.83	29.92 1.16 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.75 0.57 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.69 1.92 -9.73	45.13 1.68 -12.91	41.89 1.38 -12.24	39.02 1.32 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
RAVENSWOOD___3 23535	30.48 0.28 -22.77	28.94 0.37 -18.30	27.80 0.33 -16.69	26.97 0.29 -16.33	26.98 0.33 -15.12	26.92 0.61 -8.76	31.15 0.74 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.25 0.79 -12.83	29.89 1.13 -3.11	29.94 1.01 -6.48	29.94 0.74 -13.44	30.71 0.83 -12.19	32.74 0.56 -21.04	37.58 1.06 -16.55	43.62 1.32 -16.89	52.86 1.71 -16.99	48.65 1.89 -9.73	45.06 1.62 -12.91	41.87 1.36 -12.24	38.99 1.30 -12.23	37.12 1.34 -10.48	35.59 1.11 -7.37
RAVENSWOOD___4 23820	30.50 0.30 -22.77	28.97 0.40 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.76	31.17 0.76 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.92 1.16 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.75 0.57 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.69 1.92 -9.73	45.13 1.68 -12.91	41.89 1.38 -12.24	39.02 1.32 -12.23	37.20 1.42 -10.48	35.67 1.19 -7.37
RCPI_TRUST___DRP 24196	30.47 0.27 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.68	26.97 0.29 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.13 0.54 -21.53	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.73 0.55 -21.04	37.58 1.06 -16.55	43.64 1.35 -16.88	52.86 1.71 -16.99	48.61 1.85 -9.73	45.06 1.62 -12.91	41.86 1.36 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
RED___ROCHESTER 323720	12.84 0.13 -5.27	14.69 0.19 -4.24	14.84 0.19 -3.87	14.29 0.17 -3.78	15.17 0.15 -3.50	19.86 0.28 -2.03	22.19 0.16 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.04 0.02 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.82 -0.27 -3.94	38.92 -0.37 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.42 -0.30 -2.43	28.71 -0.11 -1.71



REGAN___SOLAR 323812	40.71 0.48 -32.79	37.28 0.66 -26.36	35.45 0.64 -24.03	34.48 0.61 -23.52	33.97 0.68 -21.77	31.24 1.09 -12.61	36.48 1.27 -15.70	44.97 0.90 -31.02	44.47 1.29 -27.22	37.46 1.36 -18.48	32.03 1.90 -4.47	33.28 1.50 -9.33	36.06 0.95 -19.35	36.38 1.13 -17.56	42.27 0.82 -30.30	45.48 1.68 -23.83	51.99 2.26 -24.32	61.81 3.18 -24.47	54.34 3.29 -14.01	51.70 2.57 -18.60	48.47 2.57 -17.63	45.19 2.11 -17.61	42.34 1.95 -15.10	39.67 1.95 -10.61
RENSSELAER___COGEN 23796	35.02 0.16 -27.43	32.56 0.25 -22.04	31.15 0.27 -20.10	30.29 0.27 -19.67	30.02 0.29 -18.21	28.51 0.42 -10.55	33.09 0.45 -13.13	39.25 0.25 -25.94	39.06 0.34 -22.77	33.49 0.41 -15.46	29.94 0.54 -3.74	30.72 0.47 -7.80	32.26 0.32 -16.18	32.73 0.35 -14.69	36.68 0.19 -25.35	40.26 0.36 -19.93	46.21 0.46 -20.34	55.24 0.62 -20.46	49.42 0.67 -11.72	46.61 0.52 -15.55	43.55 0.54 -14.74	40.65 0.46 -14.73	38.35 0.43 -12.63	36.36 0.38 -8.87
REPUBLIC_115KV_BARTNBRK 55605	36.48 0.77 -28.27	34.06 1.07 -22.72	32.55 1.05 -20.72	31.63 1.00 -20.28	31.39 1.09 -18.77	30.12 1.70 -10.87	34.94 1.89 -13.53	41.09 1.29 -26.74	41.23 1.80 -23.47	35.29 1.73 -15.93	31.90 2.39 -3.86	32.44 1.95 -8.04	33.72 1.28 -16.68	34.33 1.50 -15.14	38.26 0.99 -26.13	42.44 1.92 -20.55	48.89 2.52 -20.97	58.84 3.59 -21.09	52.89 3.78 -12.08	49.50 2.93 -16.03	46.49 3.02 -15.20	43.07 2.42 -15.18	40.67 2.35 -13.02	39.02 2.77 -9.15
REVERE_CPPR_DRP 24186	10.04 0.20 -2.40	12.49 0.29 -1.93	12.86 0.31 -1.76	12.36 0.29 -1.72	13.45 0.33 -1.60	18.98 0.51 -0.92	21.29 0.62 -1.15	15.80 0.47 -2.27	18.49 0.54 -2.00	19.54 0.56 -1.36	26.81 0.82 -0.33	23.83 0.70 -0.68	17.62 0.44 -1.42	19.50 0.53 -1.29	13.68 0.31 -2.22	22.32 0.60 -1.75	28.03 0.84 -1.78	37.25 1.30 -1.79	39.51 1.44 -1.03	33.06 1.16 -1.36	30.61 1.05 -1.29	27.65 0.89 -1.29	27.19 0.78 -1.11	28.78 0.89 -0.78
REYNOLDS_115KV_TB3 80639	35.09 0.19 -27.47	32.63 0.29 -22.07	31.22 0.31 -20.13	30.35 0.30 -19.70	30.09 0.33 -18.24	28.62 0.51 -10.56	33.21 0.55 -13.15	39.35 0.31 -25.98	39.17 0.41 -22.80	33.58 0.48 -15.48	30.10 0.69 -3.75	30.87 0.61 -7.81	32.38 0.41 -16.21	32.85 0.46 -14.71	36.79 0.27 -25.38	40.47 0.54 -19.96	46.47 0.69 -20.37	55.58 0.92 -20.49	49.77 1.00 -11.73	46.90 0.79 -15.58	43.80 0.76 -14.76	40.88 0.66 -14.75	38.58 0.63 -12.64	36.59 0.60 -8.89
RIVERBAY___ 323610	30.57 0.36 -22.77	29.08 0.51 -18.30	27.93 0.46 -16.69	27.08 0.40 -16.33	27.10 0.46 -15.12	27.11 0.81 -8.76	31.27 0.86 -10.90	35.16 0.56 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.97 1.21 -3.11	29.98 1.05 -6.48	29.99 0.79 -13.44	30.75 0.87 -12.19	32.75 0.57 -21.04	37.62 1.10 -16.55	43.70 1.40 -16.89	52.96 1.81 -16.99	48.80 2.04 -9.73	45.22 1.77 -12.91	41.92 1.41 -12.24	39.12 1.43 -12.23	37.32 1.54 -10.48	35.86 1.38 -7.37
RIVERSDE_115KV_TB3 55908	35.14 0.18 -27.53	32.67 0.28 -22.13	31.26 0.30 -20.17	30.38 0.29 -19.74	30.12 0.32 -18.28	28.61 0.47 -10.58	33.20 0.51 -13.18	39.38 0.29 -26.04	39.19 0.38 -22.85	33.60 0.46 -15.51	30.06 0.64 -3.76	30.84 0.56 -7.83	32.38 0.38 -16.24	32.85 0.42 -14.74	36.82 0.23 -25.44	40.44 0.46 -20.01	46.41 0.58 -20.41	55.49 0.79 -20.54	49.65 0.85 -11.76	46.82 0.67 -15.61	43.72 0.65 -14.80	40.81 0.56 -14.78	38.53 0.56 -12.67	36.51 0.49 -8.91
ROARING___BROOK_WT_PWR 323790	7.67 -0.36 -0.59	10.24 -0.50 -0.47	10.74 -0.47 -0.43	10.32 -0.44 -0.42	11.52 -0.39 -0.39	17.00 -0.77 -0.23	19.07 -0.72 -0.28	13.25 -0.37 -0.56	16.06 -0.38 -0.49	17.50 -0.46 -0.33	25.15 -0.59 -0.08	21.94 -0.67 -0.17	15.54 -0.57 -0.35	17.28 -0.73 -0.31	11.15 -0.53 -0.54	19.50 -0.90 -0.43	24.86 -0.99 -0.44	33.40 -1.20 -0.44	36.14 -1.15 -0.25	29.71 -1.16 -0.33	27.68 -0.91 -0.32	24.92 -0.87 -0.32	24.89 -0.68 -0.27	26.73 -0.57 -0.19
ROCHESRG_115KV_T4 355643	12.76 0.07 -5.26	14.60 0.10 -4.22	14.73 0.10 -3.85	14.20 0.08 -3.77	15.09 0.08 -3.49	19.69 0.12 -2.02	22.01 -0.02 -2.52	17.90 -0.13 -4.97	20.06 -0.26 -4.36	20.31 -0.28 -2.96	25.97 -0.41 -0.72	23.61 -0.34 -1.50	18.71 -0.16 -3.10	20.32 -0.18 -2.81	15.91 -0.09 -4.86	23.53 -0.26 -3.82	28.90 -0.41 -3.90	37.43 -0.65 -3.92	38.50 -0.78 -2.25	32.96 -0.55 -2.98	30.56 -0.54 -2.83	27.78 -0.51 -2.82	27.21 -0.51 -2.42	28.46 -0.35 -1.70
ROCHESTER_9_IC 23652	12.81 0.10 -5.27	14.66 0.15 -4.24	14.80 0.15 -3.87	14.25 0.12 -3.78	15.16 0.14 -3.50	19.79 0.21 -2.03	22.12 0.08 -2.52	17.98 -0.07 -4.99	20.16 -0.18 -4.38	20.42 -0.18 -2.97	26.12 -0.26 -0.72	23.77 -0.18 -1.50	18.81 -0.06 -3.11	20.46 -0.05 -2.82	15.99 -0.02 -4.87	23.66 -0.14 -3.83	29.09 -0.23 -3.91	37.69 -0.41 -3.94	38.77 -0.52 -2.25	33.16 -0.37 -2.99	30.74 -0.37 -2.84	27.94 -0.36 -2.83	27.37 -0.35 -2.43	28.60 -0.22 -1.71
ROCKVIEW_13_KV_LD 356306	30.50 0.29 -22.77	28.96 0.39 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.75	31.21 0.80 -10.90	35.15 0.56 -21.54	35.59 0.73 -18.90	31.30 0.85 -12.83	29.97 1.21 -3.11	30.00 1.08 -6.48	29.99 0.79 -13.43	30.75 0.87 -12.19	32.76 0.58 -21.04	37.64 1.12 -16.55	43.72 1.42 -16.89	53.00 1.84 -16.99	48.76 2.00 -9.73	45.16 1.71 -12.91	41.98 1.47 -12.24	39.07 1.38 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
ROME___115KV_TB2 80656	10.04 0.20 -2.40	12.49 0.29 -1.93	12.86 0.31 -1.76	12.36 0.29 -1.72	13.45 0.33 -1.60	18.98 0.51 -0.92	21.29 0.62 -1.15	15.80 0.47 -2.27	18.49 0.54 -2.00	19.54 0.56 -1.36	26.81 0.82 -0.33	23.83 0.70 -0.68	17.62 0.44 -1.42	19.50 0.53 -1.29	13.68 0.31 -2.22	22.32 0.60 -1.75	28.03 0.84 -1.78	37.25 1.30 -1.79	39.51 1.44 -1.03	33.06 1.16 -1.36	30.61 1.05 -1.29	27.65 0.89 -1.29	27.19 0.78 -1.11	28.78 0.89 -0.78
ROSETON___1 23587	30.24 0.25 -22.56	28.72 0.32 -18.13	27.61 0.30 -16.53	26.81 0.28 -16.18	26.81 0.31 -14.98	26.75 0.53 -8.67	30.92 0.61 -10.80	34.81 0.42 -21.34	35.24 0.56 -18.73	30.97 0.63 -12.71	29.64 0.90 -3.08	29.67 0.81 -6.42	29.67 0.60 -13.31	30.42 0.65 -12.08	32.44 0.45 -20.85	37.20 0.84 -16.39	43.21 1.07 -16.73	52.39 1.40 -16.83	48.19 1.52 -9.64	44.64 1.31 -12.79	41.53 1.13 -12.13	38.65 1.07 -12.11	36.77 1.09 -10.38	35.30 0.89 -7.30
ROSETON___2 23588	30.24 0.25 -22.56	28.72 0.32 -18.13	27.61 0.30 -16.53	26.81 0.28 -16.18	26.81 0.31 -14.98	26.75 0.53 -8.67	30.92 0.61 -10.80	34.81 0.42 -21.34	35.24 0.56 -18.73	30.97 0.63 -12.71	29.64 0.90 -3.08	29.67 0.81 -6.42	29.67 0.60 -13.31	30.42 0.65 -12.08	32.44 0.45 -20.85	37.20 0.84 -16.39	43.21 1.07 -16.73	52.39 1.40 -16.83	48.19 1.52 -9.64	44.64 1.31 -12.79	41.53 1.13 -12.13	38.65 1.07 -12.11	36.77 1.09 -10.38	35.30 0.89 -7.30
ROTTDRAM_115KV_TB3 80664	36.26 0.24 -28.59	33.58 0.33 -22.98	32.07 0.33 -20.95	31.17 0.32 -20.51	30.86 0.36 -18.98	29.08 0.54 -10.99	33.80 0.60 -13.69	40.49 0.39 -27.04	40.21 0.53 -23.73	34.28 0.55 -16.11	30.36 0.80 -3.90	31.25 0.67 -8.13	33.10 0.47 -16.87	33.54 0.55 -15.31	37.91 0.35 -26.42	41.43 0.68 -20.78	47.48 0.86 -21.20	56.69 1.20 -21.33	50.54 1.30 -12.21	47.78 1.04 -16.21	44.65 1.02 -15.37	41.68 0.87 -15.35	39.32 0.86 -13.16	37.23 0.87 -9.25



RUSSELL___1 23602	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71
RUSSELL___2 23532	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71
RUSSELL___3 23549	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71
RUSSELL___4 23556	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71
RUSSELL___STATION 23914	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71
S SALMON___HYD 24043	11.05 -0.08 -3.69	13.13 -0.11 -2.97	13.37 -0.12 -2.71	12.88 -0.11 -2.65	13.85 -0.13 -2.45	18.78 -0.19 -1.42	21.07 -0.21 -1.77	16.42 -0.13 -3.49	18.83 -0.19 -3.07	19.50 -0.21 -2.08	25.86 -0.31 -0.50	23.23 -0.27 -1.05	17.72 -0.22 -2.18	19.45 -0.21 -1.98	14.41 -0.15 -3.41	22.42 -0.24 -2.68	27.82 -0.33 -2.74	36.58 -0.34 -2.76	38.28 -0.33 -1.58	32.35 -0.28 -2.10	30.06 -0.20 -1.99	27.22 -0.23 -1.98	26.70 -0.30 -1.70	28.06 -0.24 -1.20
S.PERRY___115KV_TB1 80734	14.15 0.30 -6.42	15.85 0.42 -5.16	15.92 0.43 -4.70	15.37 0.41 -4.60	16.23 0.45 -4.26	20.72 0.70 -2.47	23.23 0.64 -3.07	19.47 0.34 -6.07	21.51 0.22 -5.33	21.40 0.16 -3.62	26.64 0.10 -0.88	24.36 0.09 -1.83	19.68 0.13 -3.79	21.32 0.19 -3.44	17.22 0.14 -5.93	24.88 0.24 -4.67	30.53 0.36 -4.76	39.57 0.61 -4.79	40.52 0.74 -2.74	34.88 0.70 -3.64	32.29 0.57 -3.45	29.35 0.43 -3.45	28.63 0.38 -2.96	29.76 0.57 -2.08
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	13.51 0.03 -6.04	15.18 0.05 -4.86	15.24 0.03 -4.43	14.71 0.03 -4.33	15.51 -0.02 -4.01	19.91 0.04 -2.32	22.19 -0.21 -2.89	18.39 -0.38 -5.72	20.32 -0.65 -5.02	20.29 -0.74 -3.41	25.33 -1.15 -0.82	23.22 -0.94 -1.72	18.76 -0.57 -3.57	20.30 -0.62 -3.24	16.38 -0.35 -5.58	23.52 -0.84 -4.39	28.80 -1.09 -4.48	36.96 -1.71 -4.51	37.73 -1.89 -2.58	32.56 -1.40 -3.43	30.25 -1.27 -3.25	27.51 -1.20 -3.25	26.97 -1.11 -2.78	28.20 -0.87 -1.96
SAWYER___23_KV_LOAD 55526	13.51 0.03 -6.04	15.18 0.05 -4.86	15.24 0.03 -4.43	14.71 0.03 -4.33	15.51 -0.02 -4.01	19.91 0.04 -2.32	22.19 -0.21 -2.89	18.39 -0.38 -5.72	20.32 -0.65 -5.02	20.29 -0.74 -3.41	25.33 -1.15 -0.82	23.22 -0.94 -1.72	18.76 -0.57 -3.57	20.30 -0.62 -3.24	16.38 -0.35 -5.58	23.52 -0.84 -4.39	28.80 -1.09 -4.48	36.96 -1.71 -4.51	37.73 -1.89 -2.58	32.56 -1.40 -3.43	30.25 -1.27 -3.25	27.51 -1.20 -3.25	26.97 -1.11 -2.78	28.20 -0.87 -1.96
SELKIRK___I 23801	34.96 0.17 -27.35	32.50 0.25 -21.99	31.10 0.27 -20.05	30.23 0.26 -19.62	29.97 0.29 -18.16	28.49 0.42 -10.52	33.06 0.45 -13.10	39.20 0.27 -25.87	39.01 0.35 -22.71	33.46 0.42 -15.42	29.98 0.59 -3.73	30.74 0.52 -7.78	32.27 0.36 -16.14	32.74 0.41 -14.65	36.67 0.24 -25.28	40.31 0.46 -19.88	46.28 0.58 -20.29	55.36 0.79 -20.41	49.57 0.85 -11.69	46.75 0.70 -15.51	43.62 0.65 -14.70	40.74 0.59 -14.69	38.47 0.58 -12.59	36.48 0.51 -8.85
SELKIRK___II 23799	34.94 0.17 -27.33	32.48 0.25 -21.97	31.08 0.27 -20.03	30.22 0.27 -19.60	29.96 0.29 -18.15	28.48 0.42 -10.51	33.05 0.45 -13.08	39.18 0.27 -25.85	39.00 0.35 -22.69	33.44 0.41 -15.40	29.95 0.56 -3.73	30.72 0.49 -7.78	32.24 0.35 -16.13	32.71 0.39 -14.64	36.63 0.22 -25.26	40.27 0.44 -19.86	46.24 0.56 -20.27	55.31 0.75 -20.39	49.52 0.81 -11.68	46.71 0.67 -15.50	43.58 0.62 -14.69	40.70 0.56 -14.68	38.41 0.53 -12.58	36.44 0.49 -8.84
SENECA OSWGO___HYD 24041	11.44 -0.07 -4.08	13.46 -0.09 -3.28	13.67 -0.11 -2.99	13.18 -0.09 -2.93	14.11 -0.13 -2.71	18.94 -0.18 -1.57	21.25 -0.21 -1.95	16.76 -0.16 -3.86	19.12 -0.22 -3.39	19.70 -0.23 -2.30	25.88 -0.33 -0.56	23.34 -0.27 -1.16	17.98 -0.19 -2.41	19.70 -0.18 -2.19	14.81 -0.11 -3.77	22.72 -0.22 -2.97	28.14 -0.30 -3.03	36.76 -0.45 -3.05	38.30 -0.48 -1.74	32.45 -0.40 -2.32	30.10 -0.37 -2.19	27.30 -0.36 -2.19	26.77 -0.41 -1.88	28.11 -0.32 -1.32
SENECA___115KV_TB3 355854	13.67 0.06 -6.18	15.32 0.08 -4.96	15.38 0.08 -4.53	14.85 0.07 -4.43	15.66 0.03 -4.10	20.03 0.11 -2.37	22.39 -0.08 -2.96	18.62 -0.27 -5.84	20.56 -0.53 -5.13	20.51 -0.60 -3.48	25.53 -0.98 -0.84	23.44 -0.76 -1.76	18.95 -0.46 -3.64	20.50 -0.50 -3.31	16.58 -0.27 -5.71	23.78 -0.68 -4.49	29.10 -0.89 -4.58	37.40 -1.37 -4.61	38.15 -1.52 -2.64	32.91 -1.13 -3.50	30.54 -1.05 -3.32	27.82 -0.97 -3.32	27.23 -0.91 -2.84	28.41 -0.70 -2.00
SENECA___ENERGY 23797	12.77 0.01 -5.32	14.58 0.03 -4.27	14.70 0.02 -3.90	14.19 0.03 -3.81	15.06 0.01 -3.53	19.66 0.07 -2.04	22.12 0.06 -2.55	18.10 0.01 -5.03	20.31 -0.06 -4.41	20.53 -0.09 -3.00	26.23 -0.15 -0.73	23.85 -0.11 -1.51	18.85 -0.05 -3.14	20.52 -0.02 -2.85	16.06 0.00 -4.91	23.80 -0.04 -3.87	29.31 -0.05 -3.94	38.06 -0.07 -3.97	39.23 -0.07 -2.27	33.49 -0.06 -3.02	31.04 -0.08 -2.86	28.20 -0.13 -2.86	27.54 -0.20 -2.45	28.75 -0.08 -1.72
SHOEMAKER___GT 23640	28.68 0.21 -21.03	27.45 0.28 -16.91	26.45 0.26 -15.41	25.67 0.24 -15.09	25.75 0.27 -13.97	26.07 0.44 -8.09	30.09 0.51 -10.07	33.29 0.34 -19.89	33.85 0.43 -17.46	29.97 0.49 -11.85	29.20 0.67 -2.87	29.04 0.61 -5.98	28.63 0.46 -12.41	29.46 0.51 -11.26	30.93 0.35 -19.44	35.94 0.68 -15.29	41.90 0.89 -15.60	51.05 1.20 -15.69	47.28 1.26 -8.99	43.56 1.10 -11.93	40.51 0.93 -11.31	37.65 0.89 -11.29	35.87 0.89 -9.68	34.65 0.73 -6.80



SHOEMAKR_138KV_BK 111 55601	28.56 0.21 -20.91	27.35 0.28 -16.81	26.35 0.25 -15.32	25.57 0.23 -15.00	25.67 0.26 -13.88	26.03 0.44 -8.04	30.03 0.51 -10.01	33.17 0.34 -19.78	33.74 0.43 -17.36	29.90 0.49 -11.79	29.18 0.67 -2.85	29.02 0.63 -5.95	28.56 0.46 -12.34	29.40 0.51 -11.20	30.81 0.35 -19.32	35.83 0.66 -15.20	41.81 0.89 -15.51	50.92 1.16 -15.60	47.23 1.26 -8.93	43.46 1.07 -11.86	40.44 0.93 -11.24	37.59 0.89 -11.23	35.81 0.89 -9.63	34.61 0.73 -6.76
SHOREHAM_IC_1 23715	30.89 0.68 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.74 1.44 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.92 3.57 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.13 2.96 -11.87	37.20 2.71 -7.38
SHOREHAM_IC_2 23716	30.89 0.68 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.74 1.44 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.92 3.57 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.13 2.96 -11.87	37.20 2.71 -7.38
SISSONVILLE____ 23735	8.22 -0.48 -1.26	10.58 -0.71 -1.01	11.05 -0.66 -0.93	10.59 -0.66 -0.91	11.66 -0.70 -0.84	16.63 -1.40 -0.49	18.85 -1.27 -0.60	13.70 -0.55 -1.19	16.49 -0.51 -1.05	17.70 -0.63 -0.71	25.11 -0.72 -0.17	21.93 -0.88 -0.36	15.74 -0.77 -0.74	17.39 -0.97 -0.68	11.46 -0.85 -1.17	19.43 -1.46 -0.92	24.72 -1.63 -0.94	32.99 -2.12 -0.94	35.65 -1.93 -0.54	29.26 -1.98 -0.72	27.76 -1.19 -0.68	24.95 -1.20 -0.68	25.07 -0.81 -0.58	26.90 -0.62 -0.41
SITHE_IND_GS1 24169	10.86 -0.15 -3.57	12.95 -0.20 -2.87	13.19 -0.22 -2.62	12.71 -0.20 -2.56	13.65 -0.24 -2.37	18.57 -0.35 -1.37	20.81 -0.41 -1.71	16.15 -0.29 -3.38	18.54 -0.38 -2.97	19.23 -0.40 -2.01	25.56 -0.59 -0.49	22.95 -0.52 -1.02	17.52 -0.35 -2.11	19.23 -0.37 -1.91	14.21 -0.23 -3.30	22.11 -0.46 -2.60	27.43 -0.63 -2.65	35.94 -0.89 -2.67	37.60 -0.96 -1.53	31.80 -0.76 -2.03	29.46 -0.74 -1.92	26.72 -0.66 -1.92	26.29 -0.66 -1.65	27.65 -0.62 -1.16
SITHE_IND_GS2 24170	10.86 -0.15 -3.57	12.95 -0.20 -2.87	13.19 -0.22 -2.62	12.71 -0.20 -2.56	13.65 -0.24 -2.37	18.57 -0.35 -1.37	20.81 -0.41 -1.71	16.15 -0.29 -3.38	18.54 -0.38 -2.97	19.23 -0.40 -2.01	25.56 -0.59 -0.49	22.95 -0.52 -1.02	17.52 -0.35 -2.11	19.23 -0.37 -1.91	14.21 -0.23 -3.30	22.11 -0.46 -2.60	27.43 -0.63 -2.65	35.94 -0.89 -2.67	37.60 -0.96 -1.53	31.80 -0.76 -2.03	29.46 -0.74 -1.92	26.72 -0.66 -1.92	26.29 -0.66 -1.65	27.65 -0.62 -1.16
SITHE_IND_GS3 24171	10.86 -0.15 -3.57	12.95 -0.20 -2.87	13.19 -0.22 -2.62	12.71 -0.20 -2.56	13.65 -0.24 -2.37	18.57 -0.35 -1.37	20.81 -0.41 -1.71	16.15 -0.29 -3.38	18.54 -0.38 -2.97	19.23 -0.40 -2.01	25.56 -0.59 -0.49	22.95 -0.52 -1.02	17.52 -0.35 -2.11	19.23 -0.37 -1.91	14.21 -0.23 -3.30	22.11 -0.46 -2.60	27.43 -0.63 -2.65	35.94 -0.89 -2.67	37.60 -0.96 -1.53	31.80 -0.76 -2.03	29.46 -0.74 -1.92	26.72 -0.66 -1.92	26.29 -0.66 -1.65	27.65 -0.62 -1.16
SITHE_IND_GS4 24172	10.86 -0.15 -3.57	12.95 -0.20 -2.87	13.19 -0.22 -2.62	12.71 -0.20 -2.56	13.65 -0.24 -2.37	18.57 -0.35 -1.37	20.81 -0.41 -1.71	16.15 -0.29 -3.38	18.54 -0.38 -2.97	19.23 -0.40 -2.01	25.56 -0.59 -0.49	22.95 -0.52 -1.02	17.52 -0.35 -2.11	19.23 -0.37 -1.91	14.21 -0.23 -3.30	22.11 -0.46 -2.60	27.43 -0.63 -2.65	35.94 -0.89 -2.67	37.60 -0.96 -1.53	31.80 -0.76 -2.03	29.46 -0.74 -1.92	26.72 -0.66 -1.92	26.29 -0.66 -1.65	27.65 -0.62 -1.16
SITHE____BATAVIA 24024	13.27 0.17 -5.67	15.07 0.25 -4.55	15.18 0.25 -4.15	14.64 0.23 -4.06	15.48 0.20 -3.76	20.10 0.37 -2.18	22.38 0.16 -2.71	18.35 -0.06 -5.36	20.42 -0.24 -4.70	20.54 -0.28 -3.19	26.00 -0.44 -0.77	23.74 -0.31 -1.61	18.95 -0.16 -3.34	20.58 -0.14 -3.03	16.30 -0.08 -5.24	23.81 -0.28 -4.12	29.21 -0.41 -4.20	37.71 -0.68 -4.23	38.67 -0.78 -2.42	33.23 -0.52 -3.21	30.78 -0.54 -3.05	27.97 -0.54 -3.04	27.35 -0.56 -2.61	28.67 -0.27 -1.83
SITHE____INDEPEND 23800	10.86 -0.15 -3.57	12.95 -0.20 -2.87	13.19 -0.22 -2.62	12.71 -0.20 -2.56	13.66 -0.23 -2.37	18.57 -0.35 -1.37	20.81 -0.41 -1.71	16.15 -0.29 -3.38	18.54 -0.38 -2.97	19.23 -0.41 -2.01	25.56 -0.59 -0.49	22.95 -0.52 -1.02	17.53 -0.35 -2.11	19.23 -0.37 -1.91	14.21 -0.23 -3.30	22.11 -0.46 -2.60	27.43 -0.64 -2.65	35.97 -0.85 -2.67	37.60 -0.96 -1.53	31.80 -0.76 -2.03	29.46 -0.73 -1.92	26.72 -0.66 -1.92	26.29 -0.66 -1.65	27.64 -0.62 -1.16
SITHE____MASSENA 23902	7.95 -0.48 -0.99	10.35 -0.72 -0.80	10.85 -0.66 -0.73	10.38 -0.67 -0.71	11.59 -0.59 -0.66	16.51 -1.42 -0.38	18.70 -1.29 -0.47	13.43 -0.56 -0.94	16.27 -0.51 -0.82	17.55 -0.63 -0.56	25.10 -0.69 -0.14	21.88 -0.85 -0.28	15.59 -0.76 -0.58	17.26 -0.96 -0.53	11.26 -0.80 -0.92	19.33 -1.36 -0.72	24.65 -1.50 -0.73	32.99 -1.91 -0.74	35.75 -1.70 -0.42	29.29 -1.80 -0.56	27.73 -1.07 -0.53	24.85 -1.15 -0.53	25.00 -0.76 -0.46	26.86 -0.57 -0.32
SITHE____OGDNSBRG 24021	8.21 -0.39 -1.16	10.60 -0.60 -0.93	11.11 -0.52 -0.85	10.64 -0.54 -0.83	11.75 -0.54 -0.77	16.80 -1.19 -0.44	19.05 -1.01 -0.55	13.80 -0.35 -1.09	16.63 -0.29 -0.96	17.87 -0.41 -0.65	25.43 -0.38 -0.16	22.19 -0.58 -0.33	15.86 -0.58 -0.68	17.55 -0.76 -0.62	11.52 -0.69 -1.07	19.67 -1.14 -0.84	25.10 -1.17 -0.86	33.62 -1.40 -0.86	36.38 -1.15 -0.49	29.85 -1.34 -0.66	28.27 -0.62 -0.62	25.32 -0.76 -0.62	25.43 -0.40 -0.53	27.30 -0.19 -0.37
SITHE____STERLING 23777	10.35 0.18 -2.74	12.72 0.25 -2.20	13.06 0.27 -2.01	12.57 0.26 -1.96	13.63 0.29 -1.82	19.06 0.46 -1.05	21.35 0.53 -1.31	16.03 0.38 -2.59	18.66 0.43 -2.27	19.63 0.46 -1.54	26.70 0.67 -0.37	23.81 0.58 -0.78	17.76 0.38 -1.62	19.59 0.44 -1.47	13.95 0.28 -2.53	22.46 0.50 -1.99	28.13 0.69 -2.03	37.23 1.02 -2.04	39.31 1.11 -1.17	33.00 0.92 -1.55	30.56 0.82 -1.47	27.62 0.69 -1.47	27.17 0.61 -1.26	28.73 0.73 -0.89
SLEIGHT__34_KV_TB1 80719	12.63 0.01 -5.18	14.46 0.03 -4.16	14.60 0.02 -3.79	14.08 0.02 -3.71	14.97 0.01 -3.44	19.57 0.04 -1.99	21.93 -0.06 -2.48	17.86 -0.09 -4.90	20.08 -0.18 -4.30	20.37 -0.18 -2.92	26.14 -0.23 -0.71	23.74 -0.18 -1.47	18.74 -0.08 -3.05	20.39 -0.07 -2.77	15.89 -0.03 -4.78	23.63 -0.10 -3.76	29.05 -0.20 -3.84	37.72 -0.31 -3.86	38.84 -0.41 -2.21	33.16 -0.31 -2.94	30.74 -0.31 -2.78	27.92 -0.33 -2.78	27.30 -0.38 -2.38	28.52 -0.27 -1.67
SOUTH CAIRO____GT 23612	34.02 0.48 -26.10	31.94 0.69 -20.98	30.61 0.70 -19.13	29.75 0.68 -18.72	29.62 0.77 -17.33	28.67 1.09 -10.04	33.12 1.11 -12.49	38.38 0.64 -24.69	38.43 0.81 -21.67	33.18 0.85 -14.71	30.30 1.08 -3.56	30.77 0.90 -7.42	31.71 0.55 -15.40	32.35 0.69 -13.98	35.68 0.41 -24.12	39.90 0.96 -18.97	46.24 1.47 -19.35	55.82 2.19 -19.47	50.44 2.26 -11.15	47.11 1.77 -14.80	44.11 1.81 -14.03	41.01 1.53 -14.02	38.70 1.39 -12.01	37.02 1.46 -8.44



SOUTH HAMPTN___IC 23720	30.96 0.75 -22.77	29.54 0.97 -18.30	28.32 0.85 -16.69	27.48 0.80 -16.33	27.63 0.99 -15.12	27.92 1.61 -8.76	32.27 1.85 -10.90	35.76 1.16 -21.54	36.57 1.71 -18.90	32.40 1.94 -12.84	31.52 2.75 -3.12	31.51 2.58 -6.49	31.00 1.78 -13.45	31.94 2.05 -12.20	36.37 1.33 -23.91	40.80 2.46 -18.37	53.82 3.28 -25.12	69.79 4.47 -31.16	67.33 4.81 -25.49	64.35 4.00 -29.81	52.23 3.50 -20.45	52.93 3.23 -24.23	40.46 3.29 -11.87	37.55 3.06 -7.38
SOUTHDOW_115KV_TB1 355954	14.07 0.21 -6.42	15.73 0.30 -5.16	15.79 0.30 -4.71	15.25 0.30 -4.61	16.08 0.30 -4.26	20.56 0.54 -2.47	23.09 0.51 -3.07	19.31 0.18 -6.07	21.30 0.02 -5.33	21.21 -0.04 -3.62	26.36 -0.18 -0.88	24.16 -0.11 -1.83	19.52 -0.03 -3.79	21.11 -0.02 -3.44	17.10 0.02 -5.93	24.48 -0.16 -4.67	30.07 -0.10 -4.76	38.75 -0.20 -4.79	39.48 -0.30 -2.74	33.96 -0.21 -3.64	31.52 -0.20 -3.45	28.71 -0.20 -3.45	28.08 -0.18 -2.96	29.22 0.03 -2.08
SOUTHOLD_69_KV_BK 2 55809	31.07 0.86 -22.77	29.68 1.11 -18.30	28.47 1.00 -16.69	27.61 0.93 -16.33	27.80 1.15 -15.12	28.16 1.86 -8.76	32.52 2.11 -10.90	35.94 1.34 -21.54	36.81 1.95 -18.90	32.68 2.22 -12.84	31.87 3.10 -3.11	31.75 2.83 -6.48	31.20 1.99 -13.45	32.15 2.26 -12.19	36.50 1.45 -23.91	41.02 2.68 -18.37	54.22 3.68 -25.12	70.34 5.02 -31.16	67.93 5.41 -25.49	64.84 4.49 -29.81	52.68 3.96 -20.45	53.36 3.67 -24.23	40.76 3.59 -11.87	38.06 3.58 -7.37
SOUTHOLD___IC 23719	31.07 0.86 -22.77	29.68 1.11 -18.30	28.47 1.00 -16.69	27.61 0.93 -16.33	27.80 1.15 -15.12	28.16 1.86 -8.76	32.52 2.11 -10.90	35.94 1.35 -21.54	36.81 1.95 -18.90	32.68 2.22 -12.84	31.93 3.16 -3.12	31.87 2.94 -6.49	31.26 2.05 -13.45	32.22 2.33 -12.20	36.58 1.53 -23.91	41.14 2.80 -18.37	54.32 3.79 -25.12	70.51 5.19 -31.16	68.07 5.55 -25.49	64.99 4.64 -29.81	52.79 4.07 -20.45	53.41 3.72 -24.23	40.91 3.74 -11.87	38.01 3.52 -7.38
SOUTH_FORK_WT_PWR 323839	31.09 0.88 -22.77	29.70 1.13 -18.30	28.50 1.02 -16.69	27.64 0.96 -16.33	27.82 1.18 -15.12	28.20 1.90 -8.76	32.56 2.15 -10.90	35.97 1.37 -21.54	36.84 1.98 -18.90	32.72 2.26 -12.84	31.98 3.21 -3.12	31.94 3.01 -6.49	31.30 2.08 -13.45	32.26 2.37 -12.20	36.60 1.55 -23.91	41.18 2.83 -18.37	54.37 3.84 -25.12	70.58 5.26 -31.16	68.19 5.67 -25.49	65.05 4.70 -29.81	52.85 4.13 -20.45	53.49 3.80 -24.23	40.99 3.82 -11.87	38.07 3.58 -7.38
SPIERFLS_115KV_TB 1 80737	36.19 0.44 -28.31	33.63 0.61 -22.75	32.13 0.60 -20.75	31.23 0.58 -20.31	30.93 0.61 -18.80	29.38 0.95 -10.89	34.12 1.05 -13.55	40.54 0.71 -26.78	40.43 0.97 -23.50	34.55 0.97 -15.96	30.81 1.28 -3.86	31.60 1.10 -8.05	33.21 0.74 -16.70	33.69 0.85 -15.16	37.83 0.52 -26.16	41.50 0.96 -20.58	47.68 1.27 -20.99	57.06 1.78 -21.12	51.02 1.89 -12.09	48.05 1.47 -16.06	44.99 1.50 -15.22	41.87 1.20 -15.20	39.60 1.26 -13.03	37.92 1.65 -9.16
ST LAWRENCE___ 23600	7.77 -0.60 -0.93	10.13 -0.89 -0.75	10.63 -0.84 -0.68	10.17 -0.85 -0.67	11.36 -0.78 -0.62	16.22 -1.68 -0.36	18.36 -1.60 -0.45	13.17 -0.77 -0.88	15.95 -0.78 -0.78	17.23 -0.92 -0.53	24.69 -1.10 -0.13	21.48 -1.23 -0.27	15.29 -1.02 -0.55	16.93 -1.26 -0.50	11.03 -0.98 -0.86	18.97 -1.68 -0.68	24.20 -1.91 -0.69	32.53 -2.32 -0.70	35.28 -2.15 -0.40	28.90 -2.17 -0.53	27.24 -1.53 -0.50	24.41 -1.55 -0.50	24.57 -1.16 -0.43	26.41 -1.00 -0.30
STATE_CA_115KV_115_LB 55624	35.32 0.19 -27.70	32.82 0.29 -22.26	31.39 0.31 -20.30	30.51 0.30 -19.87	30.25 0.33 -18.39	28.69 0.49 -10.65	33.28 0.51 -13.26	39.56 0.30 -26.20	39.36 0.41 -22.99	33.73 0.49 -15.61	30.13 0.69 -3.78	30.91 0.58 -7.88	32.48 0.38 -16.34	32.96 0.44 -14.83	36.99 0.25 -25.60	40.56 0.46 -20.13	46.56 0.61 -20.54	55.65 0.82 -20.67	49.72 0.85 -11.83	46.91 0.67 -15.71	43.84 0.68 -14.89	40.90 0.56 -14.87	38.61 0.56 -12.75	36.56 0.49 -8.96
STATE_ST_34_KV_LOAD 55959	12.77 0.07 -5.27	14.61 0.10 -4.23	14.74 0.10 -3.86	14.22 0.09 -3.78	15.11 0.09 -3.50	19.75 0.18 -2.03	22.23 0.20 -2.52	18.16 0.12 -4.98	20.43 0.10 -4.37	20.72 0.12 -2.97	26.56 0.18 -0.72	24.12 0.18 -1.50	19.01 0.14 -3.11	20.70 0.19 -2.82	16.15 0.13 -4.87	24.02 0.22 -3.83	29.57 0.25 -3.91	38.47 0.38 -3.93	39.65 0.37 -2.25	33.83 0.31 -2.99	31.36 0.25 -2.83	28.50 0.20 -2.83	27.85 0.13 -2.43	29.03 0.22 -1.70
STATION 5_MISC_HYD 23604	12.81 0.10 -5.27	14.66 0.15 -4.24	14.80 0.15 -3.87	14.25 0.12 -3.78	15.14 0.12 -3.50	19.79 0.21 -2.03	22.12 0.08 -2.52	17.98 -0.06 -4.99	20.16 -0.18 -4.38	20.42 -0.18 -2.97	26.10 -0.28 -0.72	23.74 -0.20 -1.50	18.81 -0.06 -3.11	20.46 -0.05 -2.82	16.00 -0.02 -4.87	23.67 -0.14 -3.83	29.09 -0.23 -3.91	37.65 -0.45 -3.94	38.73 -0.55 -2.25	33.16 -0.37 -2.99	30.71 -0.40 -2.84	27.92 -0.38 -2.83	27.32 -0.41 -2.43	28.60 -0.22 -1.71
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	12.79 0.11 -5.24	14.65 0.16 -4.21	14.78 0.16 -3.84	14.25 0.14 -3.76	15.16 0.16 -3.48	19.83 0.26 -2.02	22.20 0.18 -2.51	18.08 0.07 -4.96	20.31 0.00 -4.35	20.60 0.02 -2.95	26.40 0.03 -0.72	23.98 0.04 -1.49	18.93 0.08 -3.09	20.62 0.12 -2.81	16.08 0.09 -4.84	23.90 0.12 -3.81	29.37 0.08 -3.89	38.17 0.10 -3.91	39.31 0.04 -2.24	33.57 0.06 -2.97	31.09 0.00 -2.82	28.23 -0.05 -2.81	27.61 -0.10 -2.41	28.83 0.03 -1.70
STA_56_34_KV_BUS2_REV_LBMP_B 345033	12.74 0.05 -5.25	14.57 0.08 -4.22	14.71 0.08 -3.85	14.17 0.06 -3.77	15.07 0.06 -3.49	19.65 0.09 -2.02	21.99 -0.04 -2.51	17.91 -0.12 -4.97	20.07 -0.24 -4.36	20.34 -0.25 -2.96	26.02 -0.36 -0.72	23.67 -0.27 -1.49	18.73 -0.13 -3.10	20.37 -0.12 -2.81	15.94 -0.06 -4.85	23.59 -0.20 -3.82	28.98 -0.33 -3.89	37.57 -0.51 -3.92	38.65 -0.63 -2.24	33.05 -0.46 -2.98	30.61 -0.48 -2.82	27.83 -0.46 -2.82	27.26 -0.46 -2.42	28.46 -0.35 -1.70
STA_56___34_KV_BUS2 355983	12.74 0.05 -5.25	14.57 0.08 -4.22	14.71 0.08 -3.85	14.17 0.06 -3.77	15.07 0.06 -3.49	19.65 0.09 -2.02	21.99 -0.04 -2.51	17.91 -0.12 -4.97	20.07 -0.24 -4.36	20.34 -0.25 -2.96	26.02 -0.36 -0.72	23.67 -0.27 -1.49	18.73 -0.13 -3.10	20.37 -0.12 -2.81	15.94 -0.06 -4.85	23.59 -0.20 -3.82	28.98 -0.33 -3.89	37.57 -0.51 -3.92	38.65 -0.63 -2.24	33.05 -0.46 -2.98	30.61 -0.48 -2.82	27.83 -0.46 -2.82	27.26 -0.46 -2.42	28.46 -0.35 -1.70
STA_67___115KV_BK2 355882	12.80 0.09 -5.27	14.64 0.13 -4.24	14.77 0.13 -3.86	14.24 0.11 -3.78	15.14 0.12 -3.50	19.75 0.18 -2.03	22.08 0.04 -2.52	17.95 -0.09 -4.99	20.12 -0.21 -4.38	20.38 -0.21 -2.97	26.05 -0.33 -0.72	23.70 -0.25 -1.50	18.76 -0.11 -3.11	20.40 -0.11 -2.82	15.97 -0.04 -4.87	23.62 -0.18 -3.83	29.02 -0.30 -3.91	37.58 -0.51 -3.93	38.69 -0.59 -2.25	33.10 -0.43 -2.99	30.68 -0.42 -2.83	27.89 -0.41 -2.83	27.32 -0.40 -2.43	28.55 -0.27 -1.71
STA_7___115KV_9TRANS 80674	12.84 0.13 -5.27	14.69 0.18 -4.24	14.84 0.19 -3.87	14.30 0.17 -3.78	15.21 0.18 -3.50	19.86 0.28 -2.03	22.17 0.14 -2.52	18.03 -0.01 -4.99	20.22 -0.11 -4.38	20.49 -0.11 -2.97	26.23 -0.15 -0.72	23.86 -0.09 -1.50	18.87 0.00 -3.11	20.53 0.02 -2.82	16.05 0.03 -4.87	23.76 -0.04 -3.83	29.22 -0.10 -3.91	37.86 -0.24 -3.94	38.95 -0.33 -2.25	33.31 -0.21 -2.99	30.85 -0.25 -2.84	28.04 -0.25 -2.83	27.47 -0.25 -2.43	28.71 -0.11 -1.71



STA_82___115KV_TB1 80780	12.82 0.10 -5.29	14.65 0.13 -4.25	14.80 0.14 -3.87	14.25 0.11 -3.79	15.15 0.12 -3.51	19.77 0.19 -2.03	22.10 0.06 -2.53	17.98 -0.08 -5.00	20.15 -0.19 -4.39	20.39 -0.21 -2.98	26.07 -0.31 -0.72	23.73 -0.22 -1.50	18.79 -0.09 -3.12	20.43 -0.09 -2.83	15.99 -0.03 -4.88	23.65 -0.16 -3.84	29.05 -0.28 -3.92	37.63 -0.48 -3.94	38.70 -0.59 -2.26	33.13 -0.40 -3.00	30.69 -0.42 -2.84	27.90 -0.41 -2.84	27.33 -0.40 -2.43	28.58 -0.24 -1.71
STEEL___WIND 323596	13.67 0.05 -6.18	15.32 0.08 -4.96	15.37 0.07 -4.53	14.84 0.06 -4.43	15.62 0.00 -4.10	20.01 0.09 -2.37	22.37 -0.10 -2.96	18.61 -0.29 -5.84	20.54 -0.54 -5.13	20.49 -0.62 -3.48	25.50 -1.00 -0.84	23.40 -0.81 -1.76	18.93 -0.47 -3.64	20.48 -0.51 -3.31	16.55 -0.30 -5.71	23.74 -0.72 -4.49	29.08 -0.91 -4.58	37.30 -1.47 -4.61	38.08 -1.59 -2.64	32.84 -1.19 -3.50	30.51 -1.07 -3.32	27.76 -1.02 -3.32	27.16 -0.99 -2.84	28.38 -0.73 -2.00
STEPHTWN_115KV_BK_2 55603	35.09 0.23 -27.43	32.65 0.34 -22.04	31.25 0.37 -20.10	30.38 0.36 -19.67	30.14 0.40 -18.21	28.69 0.60 -10.55	33.29 0.64 -13.13	39.39 0.39 -25.94	39.25 0.53 -22.77	33.68 0.60 -15.46	30.25 0.85 -3.74	30.94 0.70 -7.80	32.40 0.46 -16.18	32.90 0.53 -14.69	36.80 0.31 -25.35	40.52 0.62 -19.93	46.56 0.81 -20.34	55.75 1.13 -20.46	49.94 1.19 -11.72	47.03 0.95 -15.55	43.94 0.93 -14.74	40.98 0.79 -14.73	38.68 0.76 -12.63	36.69 0.70 -8.87
STEBEN_REC_LFGE 323667	14.96 0.18 -7.35	16.45 0.28 -5.91	16.45 0.28 -5.39	15.92 0.30 -5.27	16.68 0.28 -4.88	20.88 0.51 -2.83	23.50 0.47 -3.52	20.23 0.22 -6.95	22.14 0.08 -6.10	21.80 0.04 -4.14	26.61 -0.05 -1.00	24.51 -0.02 -2.09	20.13 0.03 -4.34	21.69 0.07 -3.93	18.02 0.09 -6.79	25.41 0.10 -5.34	30.99 0.13 -5.45	39.82 0.17 -5.48	40.39 0.22 -3.14	34.91 0.21 -4.17	32.42 0.20 -3.95	29.54 0.13 -3.95	28.73 0.05 -3.38	29.79 0.30 -2.38
STILLWATER___SOLAR 323814	35.97 0.36 -28.17	33.41 0.50 -22.64	31.93 0.51 -20.64	31.04 0.49 -20.21	30.76 0.53 -18.70	29.20 0.82 -10.83	33.90 0.90 -13.49	40.30 0.60 -26.64	40.14 0.80 -23.38	34.33 0.83 -15.88	30.68 1.18 -3.84	31.47 1.01 -8.01	33.08 0.69 -16.62	33.57 0.80 -15.08	37.69 0.51 -26.03	41.42 0.98 -20.47	47.57 1.27 -20.89	56.92 1.74 -21.02	50.96 1.89 -12.03	48.01 1.50 -15.98	44.88 1.47 -15.14	41.84 1.25 -15.13	39.51 1.24 -12.97	37.58 1.36 -9.11
STONY___BROOK 24151	30.83 0.62 -22.77	29.35 0.78 -18.30	28.14 0.67 -16.69	27.30 0.62 -16.33	27.43 0.78 -15.12	27.60 1.30 -8.76	31.92 1.50 -10.90	35.56 0.97 -21.54	36.30 1.44 -18.90	32.08 1.62 -12.84	31.03 2.26 -3.12	31.07 2.13 -6.49	30.68 1.47 -13.45	31.59 1.70 -12.20	36.14 1.09 -23.91	40.38 2.04 -18.37	53.23 2.69 -25.12	68.94 3.62 -31.16	66.44 3.92 -25.49	63.62 3.27 -29.81	51.57 2.85 -20.45	52.32 2.62 -24.23	39.88 2.71 -11.87	36.95 2.47 -7.38
STURGEON_POOL_HYD 23609	31.30 0.22 -23.64	29.56 0.29 -19.00	28.37 0.26 -17.33	27.54 0.24 -16.96	27.49 0.26 -15.70	27.06 0.42 -9.09	31.30 0.47 -11.32	35.75 0.33 -22.36	36.00 0.41 -19.63	31.41 0.46 -13.33	29.55 0.67 -3.23	29.80 0.63 -6.73	30.19 0.47 -13.95	30.88 0.53 -12.66	33.35 0.36 -21.85	37.85 0.70 -17.18	43.89 0.94 -17.53	53.03 1.23 -17.64	48.43 1.30 -10.10	45.07 1.13 -13.41	41.94 0.96 -12.71	39.13 0.97 -12.70	37.17 0.99 -10.88	35.57 0.81 -7.65
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	29.10 0.22 -21.44	27.80 0.30 -17.24	26.77 0.27 -15.72	25.98 0.25 -15.38	26.04 0.28 -14.24	26.27 0.47 -8.25	30.34 0.57 -10.27	33.72 0.38 -20.28	34.25 0.49 -17.80	30.27 0.56 -12.09	29.36 0.77 -2.93	29.27 0.72 -6.10	28.95 0.54 -12.65	29.75 0.58 -11.48	31.36 0.40 -19.82	36.31 0.76 -15.58	42.31 0.99 -15.90	51.46 1.30 -16.00	47.60 1.41 -9.16	43.89 1.19 -12.16	40.84 1.05 -11.53	37.97 0.99 -11.52	36.16 0.99 -9.87	34.89 0.84 -6.94
SWANROAD_115KV_TB1 355699	13.25 -0.09 -5.91	14.90 -0.11 -4.75	14.98 -0.13 -4.33	14.46 -0.12 -4.24	15.25 -0.20 -3.92	19.57 -0.25 -2.27	21.77 -0.57 -2.83	18.00 -0.64 -5.59	19.88 -0.97 -4.90	19.86 -1.09 -3.33	24.85 -1.62 -0.81	22.78 -1.35 -1.68	18.38 -0.87 -3.48	19.88 -0.97 -3.16	16.03 -0.57 -5.46	23.04 -1.22 -4.29	28.19 -1.60 -4.38	36.14 -2.43 -4.41	36.85 -2.70 -2.52	31.84 -2.05 -3.35	29.58 -1.87 -3.17	26.93 -1.71 -3.17	26.40 -1.62 -2.72	27.67 -1.36 -1.91
SYNERGY___BIOGAS 323694	13.27 0.17 -5.67	15.07 0.25 -4.55	15.18 0.25 -4.15	14.64 0.23 -4.06	15.48 0.20 -3.76	20.10 0.37 -2.18	22.38 0.16 -2.71	18.35 -0.06 -5.36	20.42 -0.24 -4.70	20.54 -0.28 -3.19	26.00 -0.44 -0.77	23.74 -0.31 -1.61	18.95 -0.16 -3.34	20.58 -0.14 -3.03	16.30 -0.08 -5.24	23.81 -0.28 -4.12	29.21 -0.41 -4.20	37.71 -0.68 -4.23	38.67 -0.78 -2.42	33.23 -0.52 -3.21	30.78 -0.54 -3.05	27.97 -0.54 -3.04	27.35 -0.56 -2.61	28.67 -0.27 -1.83
SYRACUSE___ENERGY_ST1 323597	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
SYRACUSE___ENERGY_ST2 323598	12.13 0.02 -4.67	14.06 0.04 -3.75	14.24 0.03 -3.42	13.74 0.04 -3.35	14.65 0.02 -3.10	19.40 0.05 -1.80	21.79 0.04 -2.24	17.50 0.03 -4.42	19.82 -0.02 -3.88	20.26 0.00 -2.63	26.30 0.00 -0.64	23.80 0.02 -1.33	18.55 0.03 -2.76	20.26 0.07 -2.50	15.50 0.04 -4.32	23.42 0.06 -3.39	28.93 0.05 -3.46	37.68 0.03 -3.48	39.07 0.04 -1.99	33.21 0.03 -2.65	30.81 0.03 -2.51	27.97 0.00 -2.51	27.40 -0.05 -2.15	28.65 0.03 -1.51
SYRACUSE___POWER 24017	12.20 0.01 -4.76	14.11 0.02 -3.82	14.28 0.01 -3.49	13.77 0.01 -3.41	14.68 0.00 -3.16	19.39 0.02 -1.83	21.81 0.02 -2.28	17.56 0.00 -4.50	19.86 -0.05 -3.95	20.27 -0.04 -2.68	26.26 -0.05 -0.65	23.78 -0.02 -1.35	18.57 0.00 -2.81	20.25 0.02 -2.55	15.56 0.02 -4.40	23.45 0.02 -3.46	28.94 0.00 -3.53	37.68 -0.03 -3.55	39.03 -0.04 -2.03	33.20 -0.03 -2.70	30.80 -0.03 -2.56	27.97 -0.05 -2.55	27.39 -0.10 -2.19	28.60 -0.05 -1.54
TALLMAN___138KV_BK151 55660	29.63 0.25 -21.94	28.24 0.33 -17.64	27.15 0.29 -16.08	26.35 0.27 -15.74	26.39 0.30 -14.57	26.51 0.53 -8.44	30.66 0.64 -10.50	34.26 0.44 -20.75	34.75 0.57 -18.22	30.64 0.65 -12.37	29.55 0.90 -2.99	29.52 0.83 -6.24	29.33 0.61 -12.95	30.11 0.67 -11.75	31.88 0.46 -20.28	36.78 0.86 -15.95	42.80 1.12 -16.27	52.04 1.50 -16.37	48.04 1.63 -9.37	44.35 1.37 -12.44	41.22 1.16 -11.80	38.37 1.12 -11.78	36.51 1.11 -10.10	35.16 0.95 -7.10
TEALLAVE_115KV_TB7 355573	11.74 -0.01 -4.31	13.73 -0.01 -3.47	13.92 -0.02 -3.16	13.43 -0.01 -3.09	14.35 -0.03 -2.86	19.19 -0.02 -1.66	21.54 -0.04 -2.06	17.08 -0.05 -4.08	19.44 -0.10 -3.58	19.97 -0.09 -2.43	26.12 -0.13 -0.59	23.58 -0.09 -1.23	18.26 -0.05 -2.54	19.96 -0.04 -2.31	15.12 -0.01 -3.99	23.07 -0.04 -3.13	28.51 -0.10 -3.20	37.21 -0.17 -3.22	38.65 -0.22 -1.84	32.83 -0.15 -2.45	30.42 -0.17 -2.32	27.63 -0.15 -2.32	27.08 -0.20 -1.99	28.37 -0.14 -1.40



TELGRAPH_34_KV_EAST 80808	13.27 0.07 -5.76	15.01 0.11 -4.63	15.10 0.10 -4.22	14.57 0.09 -4.13	15.40 0.06 -3.82	19.88 0.12 -2.21	22.15 -0.12 -2.76	18.22 -0.29 -5.45	20.21 -0.53 -4.78	20.27 -0.60 -3.24	25.55 -0.90 -0.79	23.37 -0.72 -1.64	18.73 -0.43 -3.40	20.31 -0.46 -3.08	16.21 -0.26 -5.32	23.52 -0.64 -4.18	28.82 -0.86 -4.27	37.13 -1.33 -4.30	37.97 -1.52 -2.46	32.67 -1.13 -3.27	30.32 -1.05 -3.10	27.57 -0.99 -3.09	27.01 -0.94 -2.65	28.30 -0.68 -1.86
TEMPLE___115KV_TB 2 55572	11.78 -0.01 -4.36	13.77 0.00 -3.50	13.96 -0.01 -3.19	13.46 -0.01 -3.12	14.39 -0.02 -2.89	19.20 -0.02 -1.67	21.56 -0.04 -2.09	17.14 -0.04 -4.12	19.49 -0.08 -3.62	19.99 -0.09 -2.45	26.15 -0.10 -0.59	23.60 -0.09 -1.24	18.30 -0.03 -2.57	20.00 -0.02 -2.33	15.17 0.00 -4.03	23.12 -0.02 -3.17	28.57 -0.08 -3.23	37.27 -0.14 -3.25	38.71 -0.19 -1.86	32.88 -0.12 -2.47	30.47 -0.14 -2.34	27.68 -0.13 -2.34	27.13 -0.18 -2.00	28.41 -0.11 -1.41
TIANA___69_KV_BK 1 55817	30.94 0.73 -22.77	29.50 0.92 -18.30	28.29 0.82 -16.69	27.45 0.77 -16.33	27.59 0.94 -15.12	27.85 1.54 -8.76	32.19 1.78 -10.90	35.72 1.12 -21.54	36.50 1.64 -18.90	32.33 1.87 -12.84	31.38 2.62 -3.11	31.30 2.38 -6.48	30.89 1.67 -13.45	31.77 1.89 -12.19	36.26 1.21 -23.91	40.60 2.26 -18.37	53.61 3.07 -25.12	69.49 4.17 -31.16	67.00 4.48 -25.49	64.07 3.73 -29.81	52.00 3.28 -20.45	52.75 3.06 -24.23	40.18 3.01 -11.87	37.49 3.01 -7.37
TILDEN___115KV_TB1 80814	12.20 0.01 -4.76	14.11 0.02 -3.82	14.28 0.01 -3.49	13.77 0.01 -3.41	14.68 0.00 -3.16	19.39 0.02 -1.83	21.81 0.02 -2.28	17.56 0.00 -4.50	19.86 -0.05 -3.95	20.27 -0.04 -2.68	26.26 -0.05 -0.65	23.78 -0.02 -1.35	18.57 0.00 -2.81	20.25 0.02 -2.55	15.56 0.02 -4.40	23.45 0.02 -3.46	28.94 0.00 -3.53	37.68 -0.03 -3.55	39.03 -0.04 -2.03	33.20 -0.03 -2.70	30.80 -0.03 -2.56	27.97 -0.05 -2.55	27.39 -0.10 -2.19	28.60 -0.05 -1.54
TRIGEN___CC 323695	30.63 0.42 -22.77	29.11 0.53 -18.30	27.92 0.45 -16.69	27.08 0.40 -16.33	27.15 0.51 -15.12	27.18 0.88 -8.76	31.45 1.03 -10.90	35.28 0.68 -21.54	35.88 1.02 -18.90	31.62 1.16 -12.84	30.38 1.62 -3.11	30.36 1.44 -6.48	30.22 1.01 -13.45	31.03 1.15 -12.19	35.77 0.72 -23.91	39.68 1.34 -18.37	52.26 1.73 -25.12	67.58 2.25 -31.16	64.96 2.44 -25.49	62.42 2.08 -29.81	50.53 1.81 -20.45	51.40 1.71 -24.23	38.92 1.75 -11.87	36.19 1.71 -7.37
TRINITY___115KV__ 4 BK 55933	35.08 0.16 -27.48	32.62 0.26 -22.09	31.20 0.28 -20.14	30.34 0.28 -19.71	30.07 0.30 -18.25	28.55 0.44 -10.57	33.14 0.47 -13.16	39.31 0.26 -26.00	39.12 0.35 -22.82	33.56 0.44 -15.49	30.00 0.59 -3.75	30.76 0.49 -7.82	32.31 0.33 -16.22	32.79 0.39 -14.72	36.74 0.20 -25.40	40.34 0.40 -19.97	46.30 0.51 -20.38	55.35 0.68 -20.51	49.52 0.74 -11.74	46.70 0.58 -15.59	43.61 0.57 -14.77	40.71 0.48 -14.76	38.43 0.48 -12.65	36.41 0.41 -8.89
UNION___PROCESSING_DRP 323587	12.82 0.10 -5.29	14.66 0.14 -4.25	14.80 0.14 -3.87	14.26 0.12 -3.79	15.16 0.13 -3.51	19.77 0.19 -2.03	22.10 0.06 -2.53	17.98 -0.08 -5.00	20.15 -0.19 -4.39	20.41 -0.19 -2.98	26.07 -0.31 -0.72	23.73 -0.22 -1.50	18.79 -0.09 -3.12	20.43 -0.09 -2.83	16.00 -0.03 -4.89	23.65 -0.16 -3.84	29.05 -0.28 -3.92	37.63 -0.48 -3.94	38.74 -0.56 -2.26	33.13 -0.40 -3.00	30.72 -0.40 -2.84	27.92 -0.38 -2.84	27.35 -0.38 -2.43	28.58 -0.24 -1.71
UPPER HUDSON___HYD 24058	36.19 0.44 -28.31	33.63 0.61 -22.75	32.13 0.60 -20.75	31.23 0.58 -20.31	30.93 0.61 -18.80	29.38 0.95 -10.89	34.12 1.05 -13.55	40.54 0.70 -26.78	40.43 0.97 -23.50	34.55 0.97 -15.96	30.81 1.28 -3.86	31.60 1.10 -8.05	33.21 0.74 -16.70	33.69 0.85 -15.16	37.83 0.52 -26.16	41.48 0.94 -20.58	47.68 1.27 -20.99	57.06 1.78 -21.12	50.98 1.85 -12.09	48.05 1.47 -16.06	44.98 1.50 -15.22	41.87 1.20 -15.20	39.60 1.26 -13.03	37.92 1.65 -9.16
UPPER RAQUET___HYD 24056	8.22 -0.48 -1.26	10.58 -0.71 -1.01	11.05 -0.66 -0.93	10.59 -0.66 -0.91	11.75 -0.61 -0.84	16.63 -1.40 -0.49	18.85 -1.27 -0.60	13.70 -0.55 -1.19	16.49 -0.51 -1.05	17.70 -0.63 -0.71	25.11 -0.72 -0.17	21.93 -0.88 -0.36	15.74 -0.77 -0.74	17.39 -0.97 -0.68	11.46 -0.85 -1.17	19.43 -1.46 -0.92	24.65 -1.70 -0.94	32.99 -2.12 -0.94	35.65 -1.93 -0.54	29.26 -1.98 -0.72	27.79 -1.16 -0.68	24.92 -1.22 -0.68	25.07 -0.81 -0.58	26.92 -0.60 -0.41
VALLEY44_115KV_TB2 355964	13.82 -0.12 -6.50	15.34 -0.15 -5.23	15.37 -0.17 -4.76	14.84 -0.17 -4.66	15.62 -0.22 -4.32	19.77 -0.28 -2.50	22.23 -0.39 -3.11	18.75 -0.46 -6.15	20.59 -0.77 -5.40	20.43 -0.86 -3.66	25.11 -1.44 -0.89	23.13 -1.17 -1.85	18.86 -0.74 -3.84	20.32 -0.85 -3.48	16.68 -0.47 -6.01	23.62 -1.08 -4.73	28.91 -1.32 -4.82	37.20 -1.81 -4.85	37.85 -1.96 -2.78	32.69 -1.53 -3.69	30.32 -1.44 -3.50	27.63 -1.32 -3.49	26.98 -1.32 -2.99	28.02 -1.19 -2.10
VALLEY___115KV_TB 1-4 80826	8.24 0.08 -0.72	10.95 0.10 -0.58	11.44 0.13 -0.53	10.99 0.12 -0.52	12.16 0.16 -0.48	18.09 0.26 -0.28	20.19 0.33 -0.35	13.99 0.25 -0.68	16.86 0.30 -0.60	18.33 0.30 -0.41	26.20 0.44 -0.10	22.99 0.34 -0.21	16.39 0.20 -0.43	18.27 0.19 -0.39	11.92 0.11 -0.67	20.70 0.20 -0.53	26.28 0.33 -0.54	35.25 0.55 -0.54	37.97 0.63 -0.31	31.46 0.52 -0.41	29.14 0.48 -0.39	26.31 0.46 -0.39	26.11 0.48 -0.33	27.89 0.54 -0.23
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	19.69 0.36 -11.90	20.33 0.49 -9.56	20.03 0.53 -8.72	19.38 0.50 -8.53	19.97 0.55 -7.90	22.96 0.84 -4.57	26.18 0.98 -5.70	24.98 0.67 -11.25	26.65 0.81 -9.88	25.23 0.90 -6.71	28.59 1.31 -1.62	27.00 1.17 -3.38	23.57 0.79 -7.02	24.96 0.90 -6.37	22.73 0.59 -11.00	29.72 1.10 -8.65	35.66 1.42 -8.82	45.12 2.08 -8.88	44.34 2.22 -5.08	39.17 1.89 -6.75	36.33 1.67 -6.40	33.33 1.48 -6.39	32.14 1.37 -5.48	32.37 1.41 -3.85
VISCHER___FERRY HYD 24020	35.46 0.26 -27.77	32.96 0.37 -22.32	31.52 0.39 -20.35	30.63 0.37 -19.92	30.37 0.41 -18.44	28.87 0.65 -10.68	33.51 0.70 -13.29	39.78 0.46 -26.26	39.60 0.59 -23.05	33.91 0.63 -15.65	30.37 0.92 -3.79	31.15 0.81 -7.90	32.71 0.57 -16.38	33.19 0.64 -14.87	37.20 0.40 -25.66	40.93 0.78 -20.18	47.02 1.02 -20.59	56.25 1.37 -20.72	50.38 1.48 -11.86	47.44 1.16 -15.75	44.33 1.13 -14.93	41.37 0.99 -14.91	39.04 0.96 -12.78	37.07 0.97 -8.98
V_A_10_SYNC_DSASP 323832	13.04 0.03 -5.58	14.80 0.05 -4.48	14.91 0.04 -4.09	14.38 0.03 -4.00	15.20 -0.02 -3.70	19.73 0.04 -2.14	22.01 -0.18 -2.67	18.01 -0.33 -5.28	20.03 -0.56 -4.63	20.15 -0.62 -3.14	25.45 -0.98 -0.76	23.25 -0.79 -1.59	18.60 -0.46 -3.29	20.16 -0.51 -2.99	16.01 -0.29 -5.15	23.33 -0.70 -4.05	28.61 -0.94 -4.14	36.82 -1.50 -4.16	37.75 -1.67 -2.38	32.44 -1.25 -3.16	30.14 -1.13 -3.00	27.44 -1.02 -3.00	26.85 -1.01 -2.57	28.19 -0.73 -1.80
V_CMM_10_SYNC_DSASP 323787	7.80 -0.57 -0.93	10.17 -0.85 -0.75	10.67 -0.80 -0.68	10.22 -0.80 -0.67	11.42 -0.73 -0.62	16.28 -1.63 -0.36	18.44 -1.52 -0.45	13.22 -0.72 -0.88	16.03 -0.70 -0.78	17.31 -0.85 -0.53	24.79 -1.00 -0.13	21.59 -1.12 -0.27	15.35 -0.96 -0.55	17.02 -1.17 -0.50	11.07 -0.94 -0.86	19.05 -1.60 -0.68	24.33 -1.78 -0.69	32.71 -2.15 -0.70	35.43 -2.00 -0.40	29.02 -2.05 -0.53	27.36 -1.41 -0.50	24.52 -1.45 -0.50	24.67 -1.06 -0.43	26.52 -0.89 -0.30



V_CMP_10_SYNC_DSASP 323788	7.81 -0.56 -0.93	10.15 -0.87 -0.75	10.66 -0.81 -0.68	10.18 -0.84 -0.67	11.43 -0.71 -0.62	16.31 -1.60 -0.36	18.52 -1.44 -0.45	13.33 -0.61 -0.88	16.19 -0.54 -0.77	17.52 -0.63 -0.53	25.12 -0.67 -0.13	21.79 -0.92 -0.27	15.45 -0.87 -0.55	17.09 -1.10 -0.50	11.09 -0.91 -0.86	19.15 -1.50 -0.68	24.55 -1.55 -0.69	33.32 -1.54 -0.70	36.21 -1.22 -0.40	29.60 -1.47 -0.53	27.81 -0.96 -0.50	24.85 -1.12 -0.50	24.99 -0.73 -0.43	26.87 -0.54 -0.30
V_D_10_SYNC_DSASP 323841	13.29 -0.06 -5.92	14.95 -0.07 -4.76	15.02 -0.10 -4.34	14.53 -0.06 -4.24	15.28 -0.17 -3.93	19.63 -0.19 -2.27	21.76 -0.58 -2.83	17.96 -0.69 -5.60	19.85 -1.02 -4.91	19.81 -1.15 -3.33	24.75 -1.72 -0.81	22.72 -1.41 -1.68	18.34 -0.91 -3.49	19.83 -1.03 -3.17	16.00 -0.61 -5.47	22.97 -1.30 -4.30	28.10 -1.70 -4.39	35.91 -2.66 -4.41	36.71 -2.85 -2.53	31.66 -2.23 -3.36	29.44 -2.01 -3.18	26.84 -1.81 -3.18	26.30 -1.72 -2.72	27.62 -1.41 -1.91
V_E_10_SYNC_DSASP 323830	17.32 0.53 -9.35	18.53 0.74 -7.52	18.43 0.80 -6.85	17.81 0.75 -6.71	18.57 0.84 -6.21	22.51 1.37 -3.60	25.57 1.58 -4.48	23.00 1.10 -8.85	24.92 1.20 -7.76	24.15 1.25 -5.27	28.68 1.75 -1.28	26.63 1.53 -2.66	22.24 0.96 -5.52	23.84 1.15 -5.01	20.55 0.77 -8.64	28.27 1.50 -6.80	34.43 2.08 -6.94	44.42 3.28 -6.98	44.58 3.56 -4.00	38.80 2.96 -5.30	35.95 2.66 -5.03	32.78 2.29 -5.02	31.65 2.05 -4.31	32.47 2.33 -3.03
V_F_30_NSYNC_DSASP 323816	36.04 0.37 -28.23	33.47 0.51 -22.69	31.99 0.52 -20.69	31.09 0.50 -20.25	30.81 0.54 -18.75	29.25 0.84 -10.86	33.95 0.92 -13.52	40.37 0.61 -26.70	40.21 0.81 -23.44	34.38 0.85 -15.91	30.72 1.21 -3.85	31.51 1.03 -8.03	33.13 0.71 -16.66	33.62 0.81 -15.12	37.76 0.52 -26.09	41.49 1.00 -20.52	47.64 1.30 -20.94	57.04 1.81 -21.06	51.02 1.92 -12.06	48.07 1.53 -16.01	44.94 1.50 -15.18	41.90 1.27 -15.16	39.56 1.26 -13.00	37.63 1.38 -9.13
V_F_30_SYNC_DSASP 323786	35.30 0.19 -27.68	32.81 0.29 -22.25	31.38 0.31 -20.29	30.50 0.30 -19.86	30.24 0.33 -18.38	28.68 0.49 -10.64	33.27 0.51 -13.25	39.54 0.30 -26.18	39.35 0.41 -22.98	33.72 0.49 -15.60	30.10 0.67 -3.78	30.90 0.58 -7.87	32.47 0.38 -16.33	32.95 0.44 -14.82	36.97 0.25 -25.58	40.55 0.46 -20.12	46.55 0.61 -20.53	55.64 0.82 -20.65	49.71 0.85 -11.83	46.90 0.67 -15.70	43.83 0.68 -14.88	40.89 0.56 -14.87	38.60 0.56 -12.74	36.56 0.49 -8.96
V_XM_10_SYNC_DSASP 323789	7.81 -0.56 -0.93	10.15 -0.87 -0.75	10.66 -0.81 -0.68	10.18 -0.84 -0.67	11.43 -0.71 -0.62	16.31 -1.60 -0.36	18.52 -1.44 -0.45	13.33 -0.61 -0.88	16.19 -0.54 -0.77	17.52 -0.63 -0.53	25.12 -0.67 -0.13	21.79 -0.92 -0.27	15.45 -0.87 -0.55	17.09 -1.10 -0.50	11.09 -0.91 -0.86	19.15 -1.50 -0.68	24.55 -1.55 -0.69	33.32 -1.54 -0.70	36.21 -1.22 -0.40	29.60 -1.47 -0.53	27.81 -0.96 -0.50	24.85 -1.12 -0.50	24.99 -0.73 -0.43	26.87 -0.54 -0.30
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	29.76 0.27 -22.06	28.36 0.36 -17.73	27.27 0.32 -16.16	26.47 0.30 -15.82	26.50 0.33 -14.65	26.61 0.58 -8.48	30.75 0.68 -10.56	34.40 0.48 -20.86	34.89 0.62 -18.31	30.76 0.70 -12.43	29.64 0.98 -3.01	29.62 0.90 -6.27	29.44 0.66 -13.01	30.22 0.73 -11.81	32.02 0.49 -20.38	36.92 0.92 -16.03	42.99 1.22 -16.36	52.22 1.61 -16.46	48.20 1.74 -9.42	44.51 1.47 -12.51	41.40 1.27 -11.86	38.51 1.20 -11.84	36.64 1.19 -10.15	35.28 1.03 -7.14
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	30.47 0.27 -22.77	28.93 0.36 -18.30	27.79 0.32 -16.68	26.96 0.28 -16.33	26.96 0.32 -15.12	26.92 0.61 -8.75	31.15 0.74 -10.90	35.11 0.52 -21.53	35.56 0.70 -18.90	31.27 0.81 -12.83	29.90 1.13 -3.11	29.93 1.01 -6.48	29.94 0.74 -13.43	30.71 0.83 -12.19	32.73 0.55 -21.04	37.56 1.04 -16.55	43.62 1.32 -16.88	52.82 1.67 -16.99	48.61 1.85 -9.73	45.03 1.59 -12.91	41.84 1.33 -12.24	38.97 1.27 -12.23	37.10 1.32 -10.48	35.59 1.11 -7.37
W50THST__13_KV_LOAD 356117	30.49 0.29 -22.77	28.96 0.39 -18.30	27.81 0.35 -16.68	26.99 0.31 -16.33	27.00 0.36 -15.12	26.97 0.67 -8.75	31.21 0.80 -10.90	35.17 0.57 -21.53	35.62 0.77 -18.90	31.34 0.88 -12.83	30.00 1.23 -3.11	30.02 1.10 -6.48	30.00 0.80 -13.43	30.78 0.90 -12.19	32.77 0.59 -21.04	37.66 1.14 -16.55	43.74 1.45 -16.88	52.99 1.84 -16.99	48.76 2.00 -9.73	45.19 1.74 -12.91	41.95 1.44 -12.24	39.07 1.38 -12.23	37.20 1.42 -10.48	35.70 1.22 -7.37
WADING RIVER_IC_1 23522	30.88 0.67 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.72 1.42 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.89 3.54 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.10 2.93 -11.87	37.20 2.71 -7.38
WADING RIVER_IC_2 23547	30.88 0.67 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.72 1.42 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.89 3.54 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.10 2.93 -11.87	37.20 2.71 -7.38
WADING RIVER_IC_3 23601	30.88 0.67 -22.77	29.43 0.85 -18.30	28.22 0.74 -16.69	27.37 0.69 -16.33	27.51 0.86 -15.12	27.72 1.42 -8.76	32.05 1.64 -10.90	35.63 1.03 -21.54	36.39 1.53 -18.90	32.19 1.73 -12.84	31.21 2.44 -3.12	31.22 2.29 -6.49	30.81 1.59 -13.45	31.73 1.84 -12.20	36.23 1.18 -23.91	40.54 2.20 -18.37	53.46 2.92 -25.12	69.28 3.96 -31.16	66.78 4.26 -25.49	63.89 3.54 -29.81	51.83 3.11 -20.45	52.57 2.88 -24.23	40.10 2.93 -11.87	37.20 2.71 -7.38
WALDENNY_12_KV_BK2 80841	13.64 0.06 -6.15	15.30 0.09 -4.94	15.36 0.08 -4.51	14.83 0.07 -4.41	15.64 0.03 -4.08	20.02 0.11 -2.36	22.36 -0.10 -2.94	18.58 -0.29 -5.81	20.53 -0.53 -5.10	20.47 -0.62 -3.46	25.55 -0.95 -0.84	23.43 -0.76 -1.75	18.95 -0.44 -3.63	20.48 -0.50 -3.29	16.56 -0.27 -5.68	23.76 -0.68 -4.47	29.11 -0.86 -4.56	37.38 -1.37 -4.59	38.10 -1.56 -2.63	32.86 -1.16 -3.49	30.53 -1.05 -3.30	27.77 -0.99 -3.30	27.19 -0.94 -2.83	28.40 -0.70 -1.99
WALDEN__HYDRO 24148	29.99 0.27 -22.28	28.53 0.35 -17.91	27.44 0.32 -16.33	26.63 0.30 -15.98	26.65 0.33 -14.80	26.66 0.54 -8.57	30.80 0.62 -10.67	34.55 0.42 -21.08	35.00 0.54 -18.50	30.78 0.60 -12.56	29.52 0.82 -3.04	29.55 0.76 -6.34	29.46 0.55 -13.15	30.24 0.62 -11.93	32.16 0.42 -20.59	36.99 0.82 -16.20	43.05 1.12 -16.53	52.29 1.50 -16.63	48.18 1.63 -9.52	44.55 1.38 -12.64	41.44 1.19 -11.98	38.58 1.15 -11.97	36.70 1.14 -10.26	35.27 0.95 -7.21
WARRENSBURG____ 23737	36.19 0.44 -28.31	33.63 0.61 -22.75	32.13 0.60 -20.75	31.23 0.58 -20.31	30.93 0.61 -18.80	29.38 0.95 -10.89	34.12 1.05 -13.55	40.54 0.70 -26.78	40.43 0.97 -23.50	34.55 0.97 -15.96	30.81 1.28 -3.86	31.60 1.10 -8.05	33.21 0.74 -16.70	33.69 0.85 -15.16	37.83 0.52 -26.16	41.48 0.94 -20.58	47.68 1.27 -20.99	57.06 1.78 -21.12	50.98 1.85 -12.09	48.05 1.47 -16.06	44.98 1.50 -15.22	41.87 1.20 -15.20	39.60 1.26 -13.03	37.92 1.65 -9.16



WATERSIDE___6 8 9 23538	30.50 0.30 -22.77	28.97 0.40 -18.30	27.82 0.36 -16.69	27.00 0.32 -16.33	27.01 0.37 -15.12	26.97 0.67 -8.76	31.17 0.76 -10.90	35.12 0.52 -21.54	35.56 0.70 -18.90	31.27 0.81 -12.83	29.92 1.15 -3.11	29.96 1.03 -6.48	29.95 0.76 -13.44	30.73 0.85 -12.19	32.74 0.56 -21.04	37.60 1.08 -16.55	43.67 1.37 -16.89	52.93 1.78 -16.99	48.69 1.93 -9.73	45.13 1.68 -12.91	41.87 1.36 -12.24	39.02 1.32 -12.23	37.17 1.39 -10.48	35.67 1.19 -7.37
WATKINRD_115KV_LN8_ILLION 55919	8.22 0.06 -0.72	10.93 0.08 -0.58	11.41 0.10 -0.53	10.96 0.09 -0.52	12.12 0.12 -0.48	18.00 0.18 -0.28	20.09 0.23 -0.35	13.91 0.17 -0.68	16.76 0.21 -0.60	18.24 0.21 -0.41	26.07 0.31 -0.10	22.90 0.25 -0.21	16.33 0.14 -0.43	18.21 0.14 -0.39	11.89 0.08 -0.67	20.66 0.16 -0.53	26.20 0.25 -0.54	35.11 0.41 -0.54	37.82 0.48 -0.31	31.31 0.37 -0.41	29.02 0.37 -0.39	26.19 0.33 -0.39	25.96 0.33 -0.33	27.73 0.38 -0.23
WATSON___69_KV_BK 1 55734	30.89 0.68 -22.77	29.45 0.87 -18.30	28.24 0.77 -16.69	27.40 0.71 -16.33	27.53 0.89 -15.12	27.76 1.46 -8.76	32.09 1.68 -10.90	35.68 1.08 -21.54	36.44 1.58 -18.90	32.24 1.78 -12.84	31.23 2.46 -3.11	31.15 2.22 -6.48	30.76 1.54 -13.45	31.65 1.77 -12.19	36.17 1.13 -23.91	40.42 2.08 -18.37	53.36 2.82 -25.12	69.11 3.79 -31.16	66.59 4.07 -25.49	63.77 3.42 -29.81	51.75 3.02 -20.45	52.47 2.78 -24.23	39.95 2.78 -11.87	37.27 2.79 -7.37
WDELAWARE___HYD 323627	28.50 0.09 -20.97	27.22 0.09 -16.86	26.21 0.05 -15.37	25.43 0.04 -15.04	25.49 0.05 -13.93	25.72 0.11 -8.06	29.67 0.12 -10.04	32.99 0.09 -19.84	33.49 0.13 -17.41	29.57 0.12 -11.82	28.65 0.13 -2.86	28.59 0.18 -5.97	28.26 0.13 -12.37	29.08 0.16 -11.23	30.66 0.13 -19.38	34.99 -0.22 -15.24	40.79 -0.18 -15.55	49.64 -0.17 -15.65	45.77 -0.22 -8.96	42.28 -0.15 -11.89	39.32 -0.23 -11.27	37.31 0.59 -11.26	35.51 0.56 -9.65	34.22 0.33 -6.78
WEST BABYLON___IC 23714	30.84 0.63 -22.77	29.37 0.80 -18.30	28.17 0.70 -16.69	27.33 0.65 -16.33	27.45 0.81 -15.12	27.64 1.33 -8.76	31.96 1.54 -10.90	35.59 0.99 -21.54	36.33 1.47 -18.90	32.12 1.66 -12.84	31.05 2.28 -3.11	30.97 2.04 -6.48	30.65 1.43 -13.45	31.53 1.64 -12.19	36.09 1.04 -23.91	40.26 1.92 -18.37	53.10 2.57 -25.12	68.77 3.45 -31.16	66.22 3.70 -25.49	63.46 3.11 -29.81	51.49 2.77 -20.45	52.24 2.55 -24.23	39.73 2.56 -11.87	37.03 2.55 -7.37
WEST CANADA___HYD 24049	8.14 -0.02 -0.72	10.82 -0.03 -0.58	11.29 -0.02 -0.53	10.84 -0.02 -0.52	11.99 -0.01 -0.48	17.79 -0.04 -0.28	19.84 -0.02 -0.35	13.74 0.00 -0.68	16.57 0.02 -0.60	18.05 0.02 -0.41	25.78 0.03 -0.10	22.65 0.00 -0.21	16.17 -0.02 -0.43	18.04 -0.04 -0.39	11.78 -0.03 -0.67	20.46 -0.04 -0.53	25.92 -0.03 -0.54	34.70 0.00 -0.54	37.34 0.00 -0.31	30.91 -0.03 -0.41	28.66 0.00 -0.39	25.85 0.00 -0.39	25.66 0.03 -0.33	27.37 0.03 -0.23
WESTERN_NY_WIND 24143	13.30 0.16 -5.70	15.09 0.24 -4.58	15.20 0.24 -4.18	14.65 0.22 -4.09	15.53 0.22 -3.79	20.07 0.33 -2.19	22.38 0.14 -2.73	18.36 -0.09 -5.39	20.42 -0.27 -4.73	20.52 -0.32 -3.21	25.98 -0.46 -0.78	23.71 -0.36 -1.62	18.95 -0.17 -3.36	20.56 -0.18 -3.05	16.32 -0.09 -5.27	23.82 -0.30 -4.14	29.21 -0.43 -4.23	37.70 -0.72 -4.25	38.65 -0.81 -2.44	33.22 -0.55 -3.23	30.77 -0.57 -3.06	27.97 -0.56 -3.06	27.39 -0.53 -2.62	28.66 -0.30 -1.84
WESTOVER___LESR 323668	17.30 0.09 -9.78	18.25 0.12 -7.86	18.06 0.12 -7.16	17.48 0.12 -7.01	18.13 0.12 -6.49	21.52 0.21 -3.76	24.39 0.20 -4.68	22.39 0.09 -9.25	24.10 0.03 -8.11	23.17 0.04 -5.51	26.99 0.00 -1.33	25.25 0.02 -2.78	21.58 0.05 -5.77	22.99 0.07 -5.23	20.24 0.07 -9.03	27.16 0.08 -7.10	32.76 0.10 -7.25	41.59 0.14 -7.29	41.32 0.11 -4.18	36.23 0.15 -5.54	33.64 0.11 -5.25	30.82 0.10 -5.25	29.85 0.05 -4.50	30.41 0.14 -3.16
WETHRSFD_WT_PWR 323626	14.15 0.02 -6.69	15.70 0.05 -5.38	15.73 0.04 -4.90	15.20 0.05 -4.80	15.96 0.00 -4.44	20.19 0.07 -2.57	22.64 -0.08 -3.20	19.15 -0.23 -6.33	21.05 -0.46 -5.56	20.85 -0.55 -3.77	25.67 -0.90 -0.91	23.61 -0.74 -1.90	19.27 -0.44 -3.95	20.77 -0.50 -3.58	17.06 -0.27 -6.18	24.19 -0.64 -4.86	29.59 -0.79 -4.96	37.93 -1.23 -4.99	38.60 -1.30 -2.86	33.32 -1.01 -3.80	30.93 -0.93 -3.60	28.22 -0.84 -3.59	27.52 -0.86 -3.08	28.65 -0.62 -2.16
WHAVSTOR_138KV_BK127 55557	29.76 0.25 -22.08	28.33 0.32 -17.75	27.25 0.29 -16.18	26.45 0.27 -15.84	26.48 0.30 -14.66	26.56 0.53 -8.49	30.71 0.62 -10.57	34.38 0.44 -20.88	34.86 0.57 -18.33	30.72 0.65 -12.44	29.57 0.90 -3.01	29.56 0.83 -6.28	29.41 0.61 -13.03	30.18 0.67 -11.82	32.00 0.46 -20.40	36.88 0.86 -16.05	42.90 1.12 -16.37	52.10 1.47 -16.47	48.06 1.59 -9.43	44.40 1.34 -12.52	41.30 1.16 -11.87	38.42 1.10 -11.86	36.58 1.11 -10.16	35.18 0.92 -7.14
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	29.76 0.25 -22.08	28.33 0.32 -17.75	27.25 0.29 -16.18	26.45 0.27 -15.84	26.48 0.30 -14.66	26.56 0.53 -8.49	30.71 0.62 -10.57	34.38 0.44 -20.88	34.86 0.57 -18.33	30.72 0.65 -12.44	29.57 0.90 -3.01	29.56 0.83 -6.28	29.41 0.61 -13.03	30.18 0.67 -11.82	32.00 0.46 -20.40	36.88 0.86 -16.05	42.90 1.12 -16.37	52.10 1.47 -16.47	48.06 1.59 -9.43	44.40 1.34 -12.52	41.30 1.16 -11.87	38.42 1.10 -11.86	36.58 1.11 -10.16	35.18 0.92 -7.14
WHITEHAL_115KV_TB1 80871	36.27 0.57 -28.27	33.77 0.78 -22.72	32.27 0.77 -20.72	31.36 0.73 -20.28	31.09 0.79 -18.77	29.66 1.25 -10.87	34.43 1.39 -13.53	40.74 0.94 -26.74	40.73 1.31 -23.47	34.83 1.27 -15.93	31.24 1.72 -3.86	31.93 1.44 -8.04	33.39 0.95 -16.68	33.94 1.11 -15.14	37.98 0.71 -26.13	41.88 1.36 -20.55	48.18 1.80 -20.97	57.82 2.56 -21.09	51.82 2.70 -12.08	48.67 2.11 -16.03	45.64 2.18 -15.20	42.38 1.73 -15.18	40.03 1.72 -13.02	38.35 2.09 -9.15
WHITEPLN_13_KV_LOAD 356215	30.49 0.33 -22.73	28.97 0.43 -18.27	27.85 0.41 -16.66	27.01 0.36 -16.30	27.03 0.41 -15.09	27.02 0.74 -8.74	31.31 0.92 -10.88	35.20 0.64 -21.50	35.65 0.83 -18.87	31.39 0.95 -12.81	30.12 1.36 -3.10	30.10 1.19 -6.47	30.06 0.88 -13.41	30.81 0.96 -12.17	32.78 0.64 -21.01	37.75 1.26 -16.52	43.89 1.63 -16.86	53.20 2.08 -16.96	48.97 2.22 -9.71	45.32 1.89 -12.89	42.16 1.67 -12.22	39.23 1.55 -12.21	37.31 1.54 -10.46	35.82 1.36 -7.35
WM_FLOYD_69_KV_BK2 356380	30.88 0.67 -22.77	29.42 0.84 -18.30	28.20 0.73 -16.69	27.36 0.68 -16.33	27.50 0.85 -15.12	27.71 1.40 -8.76	32.03 1.62 -10.90	35.62 1.02 -21.54	36.38 1.52 -18.90	32.17 1.71 -12.84	31.15 2.39 -3.11	31.08 2.15 -6.48	30.73 1.51 -13.45	31.61 1.73 -12.19	36.15 1.10 -23.91	40.40 2.06 -18.37	53.31 2.77 -25.12	69.08 3.76 -31.16	66.56 4.04 -25.49	63.71 3.36 -29.81	51.69 2.97 -20.45	52.47 2.78 -24.23	39.93 2.76 -11.87	37.22 2.74 -7.37
WOODARD__115KV_TB2 355635	11.79 -0.03 -4.39	13.76 -0.03 -3.53	13.95 -0.04 -3.21	13.46 -0.03 -3.15	14.38 -0.06 -2.91	19.18 -0.05 -1.69	21.51 -0.10 -2.10	17.13 -0.08 -4.15	19.47 -0.13 -3.64	19.97 -0.12 -2.47	26.08 -0.18 -0.60	23.56 -0.13 -1.25	18.27 -0.08 -2.59	19.96 -0.07 -2.35	15.16 -0.03 -4.05	23.06 -0.10 -3.19	28.51 -0.15 -3.25	37.19 -0.24 -3.27	38.61 -0.30 -1.87	32.81 -0.21 -2.49	30.40 -0.23 -2.36	27.62 -0.20 -2.36	27.07 -0.25 -2.02	28.34 -0.19 -1.42



YORK__WARBASSE	30.56	29.04	27.89	27.06	27.07	27.06	31.25	35.17	35.61	31.32	30.00	30.02	30.02	30.80	32.79	37.68	43.80	53.13	48.95	45.34	42.04	39.20	37.38	35.89
23770	0.36	0.47	0.42	0.38	0.43	0.75	0.84	0.57	0.75	0.86	1.23	1.10	0.82	0.92	0.60	1.16	1.50	1.98	2.18	1.89	1.53	1.50	1.59	1.41
	-22.77	-18.30	-16.69	-16.33	-15.12	-8.76	-10.90	-21.54	-18.90	-12.83	-3.11	-6.48	-13.44	-12.19	-21.04	-16.55	-16.89	-16.99	-9.73	-12.91	-12.24	-12.23	-10.48	-7.37