

# Day Ahead Market Generator LBMP

		--- LBMP \$								--- Marginal Cost of Losses								--- Marginal Cost of Congestion										
Generator Data		04/05/2025																										
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	41.17	38.53	36.93	36.42	38.36	35.63	38.53	43.16	45.48	47.87	50.56	52.42	51.57	51.14	46.57	49.34	49.13	51.71	53.73	58.30	55.89	47.70	43.96	41.07			
		1.35	1.34	1.32	1.37	1.61	1.60	1.87	2.13	2.37	2.54	2.54	2.78	2.78	2.80	2.64	2.70	2.91	3.20	3.28	3.66	3.26	2.40	2.05	1.73			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
74TH STREET_GT_1	24260	41.21	38.57	36.96	36.45	38.29	35.70	38.50	43.16	45.44	47.87	50.52	52.32	51.48	51.09	46.52	49.30	49.08	51.71	53.73	58.30	55.95	47.70	44.00	41.11			
		1.39	1.38	1.35	1.40	1.54	1.67	1.83	2.13	2.33	2.54	2.50	2.68	2.68	2.76	2.59	2.66	2.87	3.20	3.28	3.66	3.32	2.40	2.10	1.77			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
74TH STREET_GT_2	24261	41.21	38.57	36.96	36.45	38.29	35.70	38.50	43.16	45.44	47.87	50.52	52.32	51.48	51.09	46.52	49.30	49.08	51.71	53.73	58.30	55.95	47.70	44.00	41.11			
		1.39	1.38	1.35	1.40	1.54	1.67	1.83	2.13	2.33	2.54	2.50	2.68	2.68	2.76	2.59	2.66	2.87	3.20	3.28	3.66	3.32	2.40	2.10	1.77			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ADK HUDSON___FALLS	24011	41.65	38.91	37.35	36.84	38.80	35.94	38.72	43.36	45.74	48.24	51.00	52.82	51.96	51.38	46.74	49.62	49.27	51.90	53.93	58.52	56.21	48.11	44.17	41.34			
		1.83	1.71	1.74	1.79	2.06	1.91	2.05	2.34	2.63	2.90	2.98	3.18	3.17	3.05	2.81	2.98	3.05	3.40	3.48	3.88	3.58	2.81	2.26	2.01			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ADK RESOURCE___RCVRY	23798	41.77	39.02	37.50	36.94	38.91	36.01	38.86	43.49	45.91	48.46	51.19	53.06	52.16	51.57	46.92	49.81	49.45	52.15	54.18	58.85	56.47	48.34	44.34	41.50			
		1.95	1.82	1.89	1.89	2.17	1.97	2.20	2.46	2.80	3.13	3.17	3.42	3.36	3.24	2.99	3.17	3.23	3.64	3.73	4.21	3.84	3.04	2.43	2.16			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ADK S GLENS___FALLS	24028	41.65	38.91	37.35	36.84	38.80	35.94	38.72	43.36	45.74	48.24	51.00	52.82	51.96	51.38	46.74	49.62	49.27	51.90	53.93	58.52	56.21	48.11	44.17	41.34			
		1.83	1.71	1.74	1.79	2.06	1.91	2.05	2.34	2.63	2.90	2.98	3.18	3.17	3.05	2.81	2.98	3.05	3.40	3.48	3.88	3.58	2.81	2.26	2.01			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ADK_NYS___DAM	23527	41.09	38.39	36.93	36.42	38.62	35.87	38.71	43.32	45.57	47.51	50.28	52.07	51.14	50.80	46.13	49.02	48.71	51.22	53.37	57.65	55.36	47.48	43.59	40.83			
		1.27	1.19	1.32	1.37	1.87	1.84	2.05	2.30	2.46	2.18	2.26	2.43	2.34	2.46	2.20	2.38	2.49	2.71	2.92	3.00	2.74	2.17	1.68	1.49			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
AIR_PRODUCTS___DRP	24190	40.10	37.53	36.07	35.61	37.51	34.85	37.18	41.48	43.54	45.70	48.31	50.04	49.23	48.82	44.41	47.10	46.87	49.29	51.26	55.46	53.31	45.66	42.08	39.49			
		0.28	0.33	0.46	0.56	0.77	0.82	0.51	0.45	0.43	0.36	0.29	0.40	0.44	0.48	0.48	0.47	0.65	0.78	0.81	0.82	0.68	0.36	0.17	0.16			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
AKWESSNE_115KV_BK	355683	39.98	37.34	35.75	35.12	36.71	33.86	36.44	40.74	42.77	44.97	47.73	49.19	48.26	47.85	43.36	46.03	45.57	47.83	49.69	53.82	52.05	44.85	41.53	39.06			
		0.16	0.15	0.14	0.07	-0.04	-0.17	-0.22	-0.29	-0.34	-0.36	-0.29	-0.45	-0.54	-0.48	-0.57	-0.61	-0.65	-0.68	-0.76	-0.82	-0.58	-0.45	-0.38	-0.28			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ALBANY_1_SOLAR	323833	40.77	38.16	36.68	36.20	38.10	35.29	37.84	42.17	44.36	46.60	49.22	50.98	50.11	49.68	45.21	47.99	47.74	50.25	52.26	56.61	54.42	46.66	43.00	40.36			
		0.95	0.97	1.07	1.15	1.36	1.26	1.17	1.15	1.25	1.27	1.20	1.34	1.32	1.35	1.27	1.35	1.52	1.74	1.81	1.96	1.79	1.36	1.09	1.02			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ALBANY_2_SOLAR	323834	40.77	38.16	36.68	36.20	38.10	35.29	37.84	42.17	44.36	46.56	49.22	50.98	50.11	49.64	45.21	47.99	47.70	50.25	52.26	56.61	54.36	46.66	43.00	40.36			
		0.95	0.97	1.07	1.15	1.36	1.26	1.17	1.15	1.25	1.22	1.20	1.34	1.32	1.31	1.27	1.35	1.48	1.74	1.81	1.96	1.73	1.36	1.09	1.02			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ALBANY___1	23571	40.10	37.53	36.07	35.61	37.51	34.85	37.18	41.48	43.54	45.70	48.31	50.04	49.23	48.82	44.41	47.10	46.87	49.29	51.26	55.46	53.31	45.66	42.08	39.49			
		0.28	0.33	0.46	0.56	0.77	0.82	0.51	0.45	0.43	0.36	0.29	0.40	0.44	0.48	0.48	0.47	0.65	0.78	0.81	0.82	0.68	0.36	0.17	0.16			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			



ALBANY___2 23572	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.51 0.77 0.00	34.85 0.82 0.00	37.18 0.51 0.00	41.48 0.45 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.41 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.29 0.78 0.00	51.26 0.81 0.00	55.46 0.82 0.00	53.31 0.68 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.49 0.16 0.00
ALBANY___3 23573	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.51 0.77 0.00	34.85 0.82 0.00	37.18 0.51 0.00	41.48 0.45 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.41 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.29 0.78 0.00	51.26 0.81 0.00	55.46 0.82 0.00	53.31 0.68 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.49 0.16 0.00
ALBANY___4 23574	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.51 0.77 0.00	34.85 0.82 0.00	37.18 0.51 0.00	41.48 0.45 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.41 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.29 0.78 0.00	51.26 0.81 0.00	55.46 0.82 0.00	53.31 0.68 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.49 0.16 0.00
ALBANY___LFGE 323615	40.42 0.60 0.00	37.79 0.59 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.77 1.03 0.00	35.02 0.99 0.00	37.47 0.81 0.00	41.76 0.74 0.00	43.93 0.82 0.00	46.15 0.82 0.00	48.78 0.77 0.00	50.58 0.94 0.00	49.72 0.92 0.00	49.30 0.97 0.00	44.86 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00
ALCOA_PA_115KV_PL-6C 55860	40.02 0.20 0.00	37.38 0.19 0.00	35.79 0.18 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.86 -0.17 0.00	36.41 -0.26 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.68 -0.34 0.00	49.14 -0.50 0.00	48.21 -0.59 0.00	47.85 -0.48 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.82 -0.82 0.00	52.05 -0.58 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	39.06 -0.28 0.00
ALCOA_RYNLDS___DRP 24188	40.02 0.20 0.00	37.38 0.19 0.00	35.79 0.18 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.86 -0.17 0.00	36.41 -0.26 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.68 -0.34 0.00	49.14 -0.50 0.00	48.21 -0.59 0.00	47.85 -0.48 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.82 -0.82 0.00	52.05 -0.58 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	39.06 -0.28 0.00
ALCOA___DSASP 323711	40.02 0.20 0.00	37.38 0.19 0.00	35.79 0.18 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.86 -0.17 0.00	36.44 -0.22 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.68 -0.33 0.00	49.14 -0.50 0.00	48.21 -0.58 0.00	47.85 -0.48 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.83 -0.82 0.00	52.05 -0.58 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
ALLEGHENY___COGEN 23514	41.01 1.19 0.00	38.13 0.93 0.00	36.04 0.43 0.00	35.30 0.25 0.00	36.96 0.22 0.00	34.44 0.41 0.00	37.18 0.51 0.00	41.72 0.70 0.00	43.41 0.30 0.00	45.65 0.32 0.00	48.11 0.10 0.00	49.44 -0.20 0.00	48.65 -0.15 0.00	48.05 -0.29 0.00	43.76 -0.18 0.00	46.64 0.00 0.00	46.04 -0.18 0.00	48.36 -0.15 0.00	50.75 0.30 0.00	55.13 0.49 0.00	53.84 1.21 0.00	46.71 1.41 0.00	43.75 1.84 0.00	40.99 1.65 0.00
ALTAMONT_115KV_TB 2 55880	40.42 0.60 0.00	37.83 0.63 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.74 0.99 0.00	35.02 0.99 0.00	37.58 0.92 0.00	42.01 0.98 0.00	44.15 1.03 0.00	46.33 1.00 0.00	48.98 0.96 0.00	50.73 1.09 0.00	49.92 1.12 0.00	49.49 1.16 0.00	44.99 1.05 0.00	47.76 1.12 0.00	47.47 1.25 0.00	49.96 1.46 0.00	51.96 1.51 0.00	56.28 1.64 0.00	54.05 1.42 0.00	46.34 1.04 0.00	42.75 0.84 0.00	40.08 0.75 0.00
ALTONA_WT_PWR 323606	40.74 0.92 0.00	37.98 0.78 0.00	36.18 0.57 0.00	35.40 0.35 0.00	36.96 0.22 0.00	34.13 0.10 0.00	36.70 0.04 0.00	40.98 -0.04 0.00	42.85 -0.26 0.00	45.11 -0.23 0.00	47.97 -0.05 0.00	49.19 -0.45 0.00	47.92 -0.88 0.00	47.22 -1.11 0.00	42.70 -1.23 0.00	45.28 -1.35 0.00	44.88 -1.34 0.00	47.06 -1.45 0.00	48.98 -1.46 0.00	53.01 -1.64 0.00	51.37 -1.26 0.00	44.44 -0.86 0.00	41.11 -0.80 0.00	38.55 -0.79 0.00
AMERICAN_REF_FUEL 24010	38.42 -1.39 0.00	35.86 -1.34 0.00	33.90 -1.71 0.00	33.16 -1.89 0.00	34.76 -1.98 0.00	32.64 -1.40 0.00	35.16 -1.50 0.00	39.67 -1.35 0.00	41.39 -1.73 0.00	43.61 -1.72 0.00	46.15 -1.87 0.00	47.46 -2.18 0.00	46.79 -2.00 0.00	46.31 -2.03 0.00	42.13 -1.80 0.00	44.72 -1.91 0.00	43.72 -2.50 0.00	45.16 -3.35 0.00	46.87 -3.58 0.00	50.49 -4.16 0.00	49.32 -3.31 0.00	43.26 -2.04 0.00	40.99 -0.92 0.00	38.59 -0.75 0.00
ARKWRIGHT___SUMMIT_WT_PWR 323751	39.62 -0.20 0.00	36.67 -0.52 0.00	34.61 -1.00 0.00	33.79 -1.26 0.00	35.13 -1.62 0.00	32.77 -1.26 0.00	35.60 -1.06 0.00	40.00 -1.02 0.00	41.73 -1.38 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	47.95 -1.69 0.00	47.43 -1.37 0.00	47.13 -1.21 0.00	43.14 -0.79 0.00	45.94 -0.70 0.00	45.25 -0.97 0.00	46.81 -1.70 0.00	48.78 -1.66 0.00	52.89 -1.75 0.00	51.89 -0.74 0.00	45.66 0.36 0.00	43.16 1.26 0.00	40.71 1.38 0.00
ARTHUR KILL_GT_1 23520	46.41 1.59 -5.00	38.80 1.60 -0.01	37.15 1.53 -0.01	36.64 1.58 -0.01	38.59 1.84 -0.01	35.88 1.84 -0.01	38.72 2.05 -0.01	43.25 2.21 -0.01	53.91 2.41 -8.39	54.57 2.49 -6.74	53.88 2.45 -3.41	56.58 2.63 -4.31	56.58 2.63 -5.15	57.74 2.61 -6.79	56.52 2.55 -10.04	57.04 2.56 -7.84	56.84 2.82 -7.80	57.79 3.11 -6.17	57.79 3.23 -4.11	58.15 3.50 -0.01	57.80 3.26 -1.91	54.62 2.49 -6.83	54.60 2.14 -10.56	53.90 1.93 -12.63
ARTHUR_KILL_2 23512	46.29 1.47 -5.00	38.69 1.49 -0.01	37.08 1.46 -0.01	36.56 1.51 -0.01	38.51 1.76 -0.01	35.81 1.77 -0.01	38.65 1.98 -0.01	43.12 2.09 -0.01	53.78 2.28 -8.39	54.48 2.40 -6.74	53.78 2.35 -3.41	56.48 2.53 -4.31	56.48 2.54 -5.15	57.64 2.51 -6.79	56.39 2.41 -10.04	56.91 2.42 -7.84	56.70 2.68 -7.80	57.64 2.96 -6.17	57.64 3.08 -4.11	57.98 3.33 -0.01	57.64 3.10 -1.91	54.48 2.35 -6.83	54.48 2.01 -10.56	53.78 1.81 -12.63
ARTHUR_KILL_3 23513	45.81 1.00 -4.99	38.16 0.97 0.00	36.61 1.00 0.00	36.10 1.05 0.00	38.03 1.29 0.00	35.33 1.29 0.00	38.17 1.50 0.00	42.75 1.72 0.00	53.38 1.89 -8.38	54.16 2.09 -6.74	53.44 2.02 -3.40	56.18 2.24 -4.30	56.18 2.25 -5.14	57.30 2.18 -6.79	56.08 2.11 -10.04	56.62 2.15 -7.84	56.36 2.36 -7.79	57.34 2.67 -6.16	57.28 2.72 -4.11	57.70 3.06 0.00	57.21 2.68 -1.90	54.02 1.90 -6.82	54.05 1.59 -10.55	53.34 1.38 -12.62



ARTHUR_KILL_COGEN 323718	46.41 1.59 -5.00	38.80 1.60 -0.01	37.15 1.53 -0.01	36.64 1.58 -0.01	38.59 1.84 -0.01	35.88 1.84 -0.01	38.72 2.05 -0.01	43.25 2.21 -0.01	53.91 2.41 -8.39	54.57 2.49 -6.74	53.88 2.45 -3.41	56.58 2.63 -4.31	56.58 2.63 -5.15	57.74 2.61 -6.79	56.52 2.55 -10.04	57.04 2.56 -7.84	56.84 2.82 -7.80	57.79 3.11 -6.17	57.79 3.23 -4.11	58.15 3.50 -0.01	57.80 3.26 -1.91	54.62 2.49 -6.83	54.60 2.14 -10.56	53.90 1.93 -12.63
ASHOKAN____ 23654	41.17 1.35 0.00	38.53 1.34 0.00	36.96 1.35 0.00	36.49 1.44 0.00	38.40 1.65 0.00	35.49 1.46 0.00	38.09 1.43 0.00	42.42 1.40 0.00	44.75 1.64 0.00	46.92 1.59 0.00	49.55 1.54 0.00	51.38 1.74 0.00	50.55 1.75 0.00	50.02 1.69 0.00	45.64 1.71 0.00	48.45 1.82 0.00	48.39 2.17 0.00	51.13 2.62 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.10 2.47 0.00	47.20 1.90 0.00	43.63 1.72 0.00	40.95 1.61 0.00
ASTORIA_EAST_ENERGY_CC1 323581	40.69 0.87 0.01	38.12 0.93 0.01	36.53 0.92 0.01	36.02 0.98 0.01	37.95 1.21 0.01	35.28 1.26 0.01	38.12 1.47 0.01	42.57 1.56 0.01	44.91 1.81 0.01	47.23 1.90 0.01	49.83 1.82 0.01	51.72 2.08 0.01	50.88 2.10 0.01	50.45 2.12 0.01	45.99 2.07 0.01	48.73 2.10 0.01	48.52 2.31 0.01	51.07 2.57 0.01	53.06 2.62 0.01	57.53 2.89 0.01	55.20 2.58 0.01	47.11 1.81 0.01	43.37 1.47 0.01	40.55 1.22 0.01
ASTORIA_EAST_ENERGY_CC2 323582	40.69 0.87 0.01	38.12 0.93 0.01	36.53 0.92 0.01	36.02 0.98 0.01	37.95 1.21 0.01	35.28 1.26 0.01	38.12 1.47 0.01	42.57 1.56 0.01	44.91 1.81 0.01	47.23 1.90 0.01	49.83 1.82 0.01	51.72 2.08 0.01	50.88 2.10 0.01	50.45 2.12 0.01	45.99 2.07 0.01	48.73 2.10 0.01	48.52 2.31 0.01	51.07 2.57 0.01	53.06 2.62 0.01	57.53 2.89 0.01	55.20 2.58 0.01	47.11 1.81 0.01	43.37 1.47 0.01	40.55 1.22 0.01
ASTORIA_GT2_1 24094	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT2_2 24095	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT2_3 24096	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT2_4 24097	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT3_1 24098	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT3_2 24099	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT3_3 24100	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT3_4 24101	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT4_1 24102	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT4_2 24103	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT4_3 24104	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00



ASTORIA_GT4_4 24105	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.28 1.95 0.00	49.84 1.82 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.56 1.22 0.00
ASTORIA_GT_1 23523	40.77 0.95 0.01	38.19 1.00 0.01	36.60 1.00 0.01	36.09 1.05 0.01	37.98 1.25 0.01	35.35 1.33 0.01	38.19 1.54 0.01	42.66 1.64 0.01	45.00 1.89 0.01	47.32 1.99 0.01	49.98 1.97 0.01	51.81 2.18 0.01	50.98 2.20 0.01	50.55 2.22 0.01	46.08 2.15 0.01	48.82 2.19 0.01	48.61 2.40 0.01	51.17 2.67 0.01	53.16 2.72 0.01	57.64 3.00 0.01	55.30 2.68 0.01	47.19 1.90 0.01	43.45 1.55 0.01	40.63 1.30 0.01
ASTORIA_GT_10 24110	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
ASTORIA_GT_11 24225	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
ASTORIA_GT_12 24226	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
ASTORIA_GT_13 24227	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
ASTORIA_GT_5 24106	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.39 1.36 0.00	38.17 1.50 0.00	42.71 1.68 0.00	44.96 1.85 0.00	47.33 1.99 0.00	49.94 1.92 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.64 1.30 0.00
ASTORIA_GT_7 24107	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.39 1.36 0.00	38.17 1.50 0.00	42.71 1.68 0.00	44.96 1.85 0.00	47.33 1.99 0.00	49.94 1.92 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.64 1.30 0.00
ASTORIA_GT_8 24108	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.39 1.36 0.00	38.17 1.50 0.00	42.71 1.68 0.00	44.96 1.85 0.00	47.33 1.99 0.00	49.94 1.92 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.64 1.30 0.00
ASTORIA___2 24149	40.73 0.92 0.01	38.12 0.93 0.01	36.56 0.96 0.01	36.02 0.98 0.01	37.95 1.21 0.01	35.32 1.29 0.01	38.12 1.47 0.01	42.61 1.60 0.01	44.91 1.81 0.01	47.27 1.95 0.01	49.88 1.87 0.01	51.72 2.08 0.01	50.88 2.10 0.01	50.45 2.12 0.01	45.99 2.07 0.01	48.73 2.10 0.01	48.52 2.31 0.01	51.12 2.62 0.01	53.06 2.62 0.01	57.53 2.89 0.01	55.20 2.58 0.01	47.11 1.81 0.01	43.41 1.51 0.01	40.59 1.26 0.01
ASTORIA___3 23516	41.09 1.27 0.00	38.46 1.27 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	42.91 1.89 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.46 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.58 0.00
ASTORIA___4 23517	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
ASTORIA___5 23518	41.09 1.27 0.00	38.46 1.27 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	42.91 1.89 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.46 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.58 0.00
AST_ENERGY_2_CC3 323677	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.87 1.85 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.37 2.86 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.43 2.13 0.00	43.67 1.76 0.00	40.83 1.49 0.00
AST_ENERGY_2_CC4 323678	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.87 1.85 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.37 2.86 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.43 2.13 0.00	43.67 1.76 0.00	40.83 1.49 0.00



ATHENS_STG_1 23668	40.45 0.64 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.89 0.84 0.00	37.74 0.99 0.00	34.98 0.95 0.00	37.69 1.03 0.00	42.13 1.11 0.00	44.36 1.25 0.00	46.56 1.22 0.00	49.22 1.20 0.00	50.98 1.34 0.00	50.16 1.36 0.00	49.74 1.40 0.00	45.25 1.32 0.00	47.99 1.35 0.00	47.74 1.52 0.00	50.21 1.70 0.00	52.21 1.76 0.00	56.55 1.91 0.00	54.31 1.68 0.00	46.57 1.27 0.00	42.91 1.00 0.00	40.20 0.86 0.00
ATHENS_STG_2 23670	40.45 0.64 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.89 0.84 0.00	37.74 0.99 0.00	34.98 0.95 0.00	37.69 1.03 0.00	42.13 1.11 0.00	44.36 1.25 0.00	46.56 1.22 0.00	49.22 1.20 0.00	50.98 1.34 0.00	50.16 1.36 0.00	49.74 1.40 0.00	45.25 1.32 0.00	47.99 1.35 0.00	47.74 1.52 0.00	50.21 1.70 0.00	52.21 1.76 0.00	56.55 1.91 0.00	54.31 1.68 0.00	46.57 1.27 0.00	42.91 1.00 0.00	40.20 0.86 0.00
ATHENS_STG_3 23677	40.45 0.64 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.89 0.84 0.00	37.74 0.99 0.00	34.98 0.95 0.00	37.69 1.03 0.00	42.13 1.11 0.00	44.36 1.25 0.00	46.56 1.22 0.00	49.22 1.20 0.00	50.98 1.34 0.00	50.16 1.36 0.00	49.74 1.40 0.00	45.25 1.32 0.00	47.99 1.35 0.00	47.74 1.52 0.00	50.21 1.70 0.00	52.21 1.76 0.00	56.55 1.91 0.00	54.31 1.68 0.00	46.57 1.27 0.00	42.91 1.00 0.00	40.20 0.86 0.00
AUBURN___LFGE 323710	40.10 0.28 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.08 0.04 0.00	36.78 0.04 0.00	34.13 0.10 0.00	36.92 0.26 0.00	41.39 0.37 0.00	43.50 0.39 0.00	45.88 0.54 0.00	48.59 0.58 0.00	50.24 0.60 0.00	49.43 0.63 0.00	48.91 0.58 0.00	44.50 0.57 0.00	47.29 0.65 0.00	46.82 0.60 0.00	49.04 0.53 0.00	51.00 0.55 0.00	55.13 0.49 0.00	53.10 0.47 0.00	45.84 0.54 0.00	42.50 0.59 0.00	39.85 0.51 0.00
BABYLON_RES_REC 323704	41.21 1.39 0.00	38.61 1.41 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.68 2.02 0.00	43.54 2.50 -0.01	46.00 2.63 -0.26	51.73 2.67 -3.72	50.57 2.54 -0.01	53.17 2.58 -0.94	53.26 2.49 -1.98	53.29 2.56 -2.40	52.26 2.50 -5.83	51.70 2.61 -2.45	53.47 2.87 -4.39	52.84 3.30 -1.03	53.84 3.38 -0.01	58.96 3.66 -0.65	56.01 3.37 -0.01	51.60 2.72 -3.59	46.45 2.39 -2.15	41.43 2.08 -0.01
BABYLON__69_KV_BK2 356345	41.49 1.67 0.00	38.87 1.67 0.00	37.03 1.42 0.00	36.56 1.51 0.00	38.21 1.47 0.00	35.84 1.80 0.00	38.94 2.27 0.00	43.91 2.87 -0.01	46.39 3.02 -0.26	52.06 3.08 -3.64	51.01 2.98 -0.01	53.54 2.98 -0.93	53.56 2.83 -1.94	53.63 2.95 -2.35	52.54 2.90 -5.71	52.07 3.03 -2.40	53.80 3.28 -4.30	53.35 3.83 -1.01	54.29 3.83 -0.01	59.49 4.21 -0.64	56.53 3.89 -0.01	51.94 3.13 -3.51	46.78 2.77 -2.11	41.79 2.44 -0.01
BALL_HILL_WT_PWR 323825	39.74 -0.08 0.00	36.97 -0.22 0.00	34.93 -0.68 0.00	34.18 -0.87 0.00	35.71 -1.03 0.00	33.35 -0.68 0.00	36.15 -0.51 0.00	40.65 -0.37 0.00	42.47 -0.65 0.00	44.74 -0.59 0.00	47.35 -0.67 0.00	48.70 -0.94 0.00	48.01 -0.78 0.00	47.61 -0.72 0.00	43.45 -0.48 0.00	46.13 -0.51 0.00	45.34 -0.88 0.00	46.96 -1.55 0.00	48.94 -1.51 0.00	52.95 -1.69 0.00	51.73 -0.90 0.00	45.35 0.05 0.00	42.79 0.88 0.00	40.32 0.98 0.00
BARON_WINDS___WT_PWR 323822	39.66 -0.16 0.00	36.86 -0.34 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.79 -0.96 0.00	33.35 -0.68 0.00	35.96 -0.70 0.00	40.20 -0.82 0.00	42.03 -1.08 0.00	44.34 -1.00 0.00	46.96 -1.06 0.00	48.40 -1.24 0.00	47.67 -1.12 0.00	47.08 -1.26 0.00	42.92 -1.01 0.00	45.80 -0.84 0.00	45.16 -1.06 0.00	47.25 -1.26 0.00	49.29 -1.16 0.00	53.33 -1.31 0.00	51.84 -0.79 0.00	45.12 -0.18 0.00	42.20 0.30 0.00	39.81 0.47 0.00
BARRETT_IC_1 23704	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_10 23701	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_11 23702	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_12 23703	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_2 23705	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_3 23706	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_4 23707	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01



BARRETT_IC_5 23708	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_6 23709	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_7 23710	41.05 1.23 0.00	38.46 1.26 0.00	36.71 1.10 0.00	36.24 1.19 0.00	37.96 1.21 0.00	35.53 1.50 0.00	38.46 1.80 0.00	43.29 2.26 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.24 2.21 -0.01	52.65 2.13 -0.87	52.72 2.10 -1.83	52.73 2.18 -2.22	51.44 2.11 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.28 2.81 -0.96	53.43 2.98 -0.01	58.25 3.01 -0.61	55.53 2.89 -0.01	50.79 2.17 -3.32	45.87 1.97 -1.99	41.20 1.85 -0.01
BARRETT_IC_8 23711	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT_IC_9 23700	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT___1 23545	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BARRETT___2 23546	41.06 1.24 0.00	38.46 1.27 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.49 1.46 0.00	38.49 1.83 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	51.00 2.22 -3.44	50.29 2.26 -0.01	52.80 2.28 -0.87	52.82 2.20 -1.83	52.78 2.22 -2.22	51.48 2.15 -5.40	51.10 2.19 -2.27	52.73 2.45 -4.06	52.23 2.76 -0.96	53.43 2.98 -0.01	58.25 3.00 -0.61	55.48 2.84 -0.01	50.79 2.17 -3.32	45.83 1.93 -1.99	41.20 1.85 -0.01
BATAVIA__115KV_TB1 55881	40.06 0.24 0.00	37.31 0.11 0.00	35.22 -0.39 0.00	34.52 -0.53 0.00	36.08 -0.66 0.00	33.66 -0.37 0.00	36.63 -0.04 0.00	41.15 0.12 0.00	43.07 -0.04 0.00	45.42 0.09 0.00	48.16 0.14 0.00	49.54 -0.10 0.00	48.70 -0.10 0.00	48.19 -0.15 0.00	43.89 -0.04 0.00	46.64 0.00 0.00	45.71 -0.51 0.00	47.25 -1.26 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.89 -0.74 0.00	45.26 -0.05 0.00	42.66 0.75 0.00	40.12 0.79 0.00
BAYONEEC___CTG1 323682	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG10 323750	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG2 323683	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG3 323684	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG4 323685	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG5 323686	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG6 323687	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00



BAYONEEC___CTG7 323688	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG8 323689	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BAYONEEC___CTG9 323749	40.93 1.11 0.00	38.31 1.11 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.17 1.43 0.00	35.46 1.43 0.00	38.31 1.65 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.92 3.28 0.00	55.52 2.89 0.00	47.39 2.08 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BEACON___LESR 323632	40.62 0.80 0.00	38.01 0.82 0.00	36.53 0.92 0.00	36.03 0.98 0.00	37.95 1.21 0.00	35.19 1.16 0.00	37.69 1.03 0.00	42.01 0.98 0.00	44.23 1.12 0.00	46.47 1.13 0.00	49.12 1.11 0.00	50.93 1.29 0.00	50.06 1.27 0.00	49.59 1.25 0.00	45.12 1.19 0.00	47.90 1.26 0.00	47.60 1.39 0.00	50.06 1.55 0.00	52.11 1.66 0.00	56.44 1.80 0.00	54.16 1.53 0.00	46.39 1.09 0.00	42.70 0.79 0.00	40.08 0.75 0.00
BEAVER RIVER___HYD 24048	39.46 -0.36 0.00	36.82 -0.37 0.00	35.22 -0.39 0.00	34.63 -0.42 0.00	35.86 -0.88 0.00	33.11 -0.92 0.00	35.67 -0.99 0.00	39.83 -1.19 0.00	41.82 -1.29 0.00	43.88 -1.45 0.00	46.53 -1.49 0.00	48.00 -1.64 0.00	47.23 -1.56 0.00	46.83 -1.50 0.00	42.48 -1.45 0.00	45.19 -1.45 0.00	44.93 -1.29 0.00	47.34 -1.16 0.00	49.39 -1.06 0.00	53.66 -0.98 0.00	51.58 -1.05 0.00	44.53 -0.77 0.00	41.03 -0.88 0.00	38.43 -0.90 0.00
BEEBEE_GT_13 23619	39.54 -0.28 0.00	36.86 -0.33 0.00	34.97 -0.64 0.00	34.31 -0.74 0.00	35.93 -0.81 0.00	33.45 -0.58 0.00	36.33 -0.33 0.00	40.82 -0.21 0.00	42.77 -0.34 0.00	45.11 -0.23 0.00	47.87 -0.14 0.00	49.39 -0.25 0.00	48.55 -0.24 0.00	48.09 -0.24 0.00	43.76 -0.18 0.00	46.45 -0.19 0.00	45.66 -0.55 0.00	47.39 -1.12 0.00	49.34 -1.11 0.00	53.28 -1.37 0.00	51.73 -0.89 0.00	44.89 -0.41 0.00	42.08 0.17 0.00	39.46 0.12 0.00
BENSHRST_27_KV_BENSHRST_1 355998	46.56 1.75 -4.99	38.91 1.71 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.62 1.87 0.00	36.01 1.97 0.00	38.83 2.16 0.00	43.44 2.42 0.00	54.16 2.67 -8.38	54.93 2.86 -6.74	54.25 2.83 -3.40	56.97 3.03 -4.30	57.01 3.07 -5.14	58.22 3.09 -6.79	56.91 2.94 -10.04	57.50 3.03 -7.84	57.24 3.24 -7.79	58.26 3.59 -6.16	58.24 3.68 -4.11	58.69 4.04 0.00	58.26 3.74 -1.90	54.88 2.76 -6.82	54.89 2.43 -10.55	54.05 2.08 -12.62
BETHLEHEM___GRP 23843	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.51 0.77 0.00	34.85 0.82 0.00	37.18 0.51 0.00	41.48 0.45 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.41 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.29 0.78 0.00	51.26 0.81 0.00	55.46 0.82 0.00	53.31 0.68 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.49 0.16 0.00
BETHLEHEM___GS1 323560	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.52 0.77 0.00	34.78 0.75 0.00	37.18 0.51 0.00	41.39 0.37 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.42 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.28 0.77 0.00	51.25 0.80 0.00	55.46 0.82 0.00	53.26 0.63 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.50 0.16 0.00
BETHLEHEM___GS2 323561	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.52 0.77 0.00	34.78 0.75 0.00	37.18 0.51 0.00	41.39 0.37 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.42 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.28 0.77 0.00	51.25 0.80 0.00	55.46 0.82 0.00	53.26 0.63 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.50 0.16 0.00
BETHLEHEM___GS3 323562	40.10 0.28 0.00	37.53 0.33 0.00	36.07 0.46 0.00	35.61 0.56 0.00	37.52 0.77 0.00	34.78 0.75 0.00	37.18 0.51 0.00	41.39 0.37 0.00	43.54 0.43 0.00	45.70 0.36 0.00	48.31 0.29 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.82 0.48 0.00	44.42 0.48 0.00	47.10 0.47 0.00	46.87 0.65 0.00	49.28 0.77 0.00	51.25 0.80 0.00	55.46 0.82 0.00	53.26 0.63 0.00	45.66 0.36 0.00	42.08 0.17 0.00	39.50 0.16 0.00
BETHLEHEM___STEEL 23779	39.58 -0.24 0.00	36.86 -0.33 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.60 -1.14 0.00	33.25 -0.78 0.00	36.30 -0.37 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.47 -2.04 0.00	48.43 -2.02 0.00	52.24 -2.40 0.00	51.00 -1.63 0.00	44.80 -0.50 0.00	42.33 0.42 0.00	39.93 0.59 0.00
BETHLHEM_115KV_TB1 79974	40.18 0.36 0.00	37.60 0.41 0.00	36.14 0.53 0.00	35.65 0.60 0.00	37.55 0.81 0.00	34.88 0.85 0.00	37.25 0.59 0.00	41.60 0.57 0.00	43.67 0.56 0.00	45.83 0.50 0.00	48.45 0.43 0.00	50.19 0.55 0.00	49.38 0.59 0.00	48.96 0.63 0.00	44.50 0.57 0.00	47.24 0.61 0.00	46.96 0.74 0.00	49.43 0.92 0.00	51.41 0.96 0.00	55.63 0.98 0.00	53.42 0.79 0.00	45.80 0.50 0.00	42.20 0.29 0.00	39.61 0.28 0.00
BETHPAGE_CC_5 323564	41.29 1.47 0.00	38.69 1.49 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.63 1.60 0.00	38.71 2.05 0.00	43.58 2.54 -0.01	46.06 2.67 -0.28	52.04 2.77 -3.94	50.72 2.69 -0.01	53.32 2.68 -1.00	53.52 2.63 -2.10	53.54 2.66 -2.55	52.66 2.55 -6.18	51.90 2.66 -2.60	53.78 2.91 -4.65	52.91 3.30 -1.10	53.84 3.38 -0.01	59.00 3.66 -0.69	56.01 3.37 -0.01	51.82 2.72 -3.80	46.58 2.39 -2.28	41.47 2.12 -0.01
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	39.62 -0.20 0.00	36.90 -0.30 0.00	34.90 -0.71 0.00	34.14 -0.91 0.00	35.64 -1.10 0.00	33.28 -0.75 0.00	36.30 -0.37 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.95 -0.69 0.00	48.16 -0.63 0.00	47.71 -0.63 0.00	43.49 -0.44 0.00	46.08 -0.56 0.00	45.16 -1.06 0.00	46.57 -1.94 0.00	48.53 -1.92 0.00	52.40 -2.24 0.00	51.10 -1.53 0.00	44.89 -0.41 0.00	42.41 0.50 0.00	40.01 0.67 0.00



BINGHAMTON___COGEN 23790	40.06 0.24 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.12 0.07 0.00	36.82 0.07 0.00	34.13 0.10 0.00	36.92 0.26 0.00	41.31 0.29 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.01 0.37 0.00	46.54 0.32 0.00	48.75 0.24 0.00	50.80 0.35 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.75 0.45 0.00	42.45 0.54 0.00	39.89 0.55 0.00
BIXINCNT_115KV_LOAD 355685	39.46 -0.36 0.00	36.67 -0.52 0.00	34.61 -1.00 0.00	33.75 -1.30 0.00	35.13 -1.62 0.00	32.70 -1.33 0.00	35.45 -1.21 0.00	39.51 -1.52 0.00	41.13 -1.98 0.00	43.34 -1.99 0.00	46.10 -1.92 0.00	47.75 -1.89 0.00	47.18 -1.61 0.00	46.84 -1.50 0.00	42.79 -1.14 0.00	45.43 -1.21 0.00	44.56 -1.66 0.00	46.08 -2.43 0.00	48.28 -2.17 0.00	52.40 -2.24 0.00	51.31 -1.32 0.00	45.16 -0.14 0.00	42.58 0.67 0.00	40.24 0.90 0.00
BLACK RIVER___HYD 24047	39.74 -0.08 0.00	37.08 -0.11 0.00	35.40 -0.21 0.00	34.84 -0.21 0.00	36.23 -0.51 0.00	33.45 -0.58 0.00	36.07 -0.59 0.00	40.24 -0.78 0.00	42.25 -0.86 0.00	44.34 -1.00 0.00	47.01 -1.01 0.00	48.50 -1.14 0.00	47.77 -1.03 0.00	47.37 -0.97 0.00	43.01 -0.92 0.00	45.75 -0.89 0.00	45.48 -0.74 0.00	48.02 -0.49 0.00	50.15 -0.30 0.00	54.59 -0.05 0.00	52.37 -0.26 0.00	45.26 -0.05 0.00	41.66 -0.25 0.00	38.98 -0.35 0.00
BLACKRVR_115KV_TB2 79977	39.74 -0.08 0.00	37.08 -0.11 0.00	35.40 -0.21 0.00	34.84 -0.21 0.00	36.19 -0.55 0.00	33.45 -0.58 0.00	36.08 -0.59 0.00	40.24 -0.78 0.00	42.25 -0.86 0.00	44.34 -1.00 0.00	47.01 -1.01 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.01 -0.92 0.00	45.75 -0.89 0.00	45.48 -0.74 0.00	47.98 -0.53 0.00	50.15 -0.30 0.00	54.59 -0.05 0.00	52.37 -0.26 0.00	45.26 -0.05 0.00	41.66 -0.25 0.00	38.98 -0.35 0.00
BLISS_WT_PWR 323608	39.30 -0.52 0.00	36.53 -0.67 0.00	34.44 -1.17 0.00	33.54 -1.51 0.00	34.98 -1.76 0.00	32.64 -1.40 0.00	35.05 -1.61 0.00	39.18 -1.85 0.00	40.66 -2.46 0.00	42.89 -2.45 0.00	45.57 -2.45 0.00	47.31 -2.33 0.00	46.89 -1.90 0.00	46.50 -1.84 0.00	42.52 -1.41 0.00	45.19 -1.45 0.00	44.32 -1.90 0.00	45.94 -2.57 0.00	48.13 -2.32 0.00	52.24 -2.40 0.00	51.26 -1.37 0.00	45.12 -0.18 0.00	42.62 0.71 0.00	40.20 0.86 0.00
BLUESTONE___WT_PWR 323821	41.93 2.11 0.00	39.13 1.93 0.00	37.35 1.74 0.00	36.73 1.68 0.00	38.43 1.69 0.00	35.57 1.53 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.18 2.07 0.00	47.51 2.18 0.00	50.37 2.35 0.00	52.07 2.43 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.13 2.20 0.00	49.02 2.38 0.00	48.53 2.31 0.00	50.93 2.42 0.00	53.07 2.62 0.00	57.54 2.89 0.00	55.26 2.63 0.00	47.79 2.49 0.00	44.17 2.26 0.00	41.46 2.12 0.00
BLUE_CIRC_CHEM_DRP 24182	40.58 0.76 0.00	37.94 0.74 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.12 1.09 0.00	37.65 0.99 0.00	42.05 1.03 0.00	44.19 1.08 0.00	46.38 1.04 0.00	49.03 1.01 0.00	50.73 1.09 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.51 1.29 0.00	49.96 1.46 0.00	51.96 1.51 0.00	56.28 1.64 0.00	54.10 1.47 0.00	46.39 1.09 0.00	42.75 0.84 0.00	40.12 0.79 0.00
BOC_GAS_DRP 24189	40.30 0.48 0.00	37.68 0.48 0.00	36.21 0.61 0.00	35.75 0.70 0.00	37.62 0.88 0.00	34.92 0.88 0.00	37.43 0.77 0.00	41.84 0.82 0.00	44.02 0.91 0.00	46.15 0.82 0.00	48.84 0.82 0.00	50.53 0.89 0.00	49.72 0.93 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.84 1.21 0.00	46.16 0.86 0.00	42.58 0.67 0.00	39.93 0.59 0.00
BOONVILLE_115KV_TB1 79983	40.34 0.52 0.00	37.64 0.45 0.00	36.00 0.39 0.00	35.44 0.39 0.00	36.89 0.15 0.00	34.13 0.10 0.00	36.77 0.11 0.00	41.11 0.08 0.00	43.20 0.09 0.00	45.38 0.05 0.00	48.11 0.10 0.00	49.74 0.10 0.00	48.94 0.15 0.00	48.48 0.14 0.00	44.06 0.13 0.00	46.82 0.19 0.00	46.45 0.23 0.00	48.85 0.34 0.00	50.90 0.45 0.00	55.19 0.55 0.00	53.05 0.42 0.00	45.71 0.41 0.00	42.16 0.25 0.00	39.53 0.20 0.00
BORALEX_4TH_BRANCH 23824	41.09 1.27 0.00	38.39 1.19 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.58 1.84 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	45.57 2.46 0.00	47.51 2.18 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.47 0.00	46.13 2.20 0.00	48.97 2.33 0.00	48.72 2.50 0.00	51.27 2.77 0.00	53.37 2.93 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.48 2.17 0.00	43.58 1.68 0.00	40.83 1.49 0.00
BOWLINE___1 23526	40.66 0.84 0.00	38.05 0.86 0.00	36.50 0.89 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.19 1.16 0.00	37.95 1.28 0.00	42.46 1.44 0.00	44.75 1.64 0.00	47.06 1.72 0.00	49.74 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.17 1.84 0.00	45.73 1.80 0.00	48.45 1.82 0.00	48.21 1.99 0.00	50.79 2.28 0.00	52.82 2.37 0.00	57.27 2.62 0.00	54.94 2.31 0.00	47.02 1.72 0.00	43.29 1.38 0.00	40.52 1.18 0.00
BOWLINE___2 23595	40.66 0.84 0.00	38.05 0.86 0.00	36.50 0.89 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.15 1.12 0.00	37.95 1.28 0.00	42.46 1.44 0.00	44.75 1.64 0.00	47.06 1.72 0.00	49.70 1.68 0.00	51.43 1.78 0.00	50.65 1.85 0.00	50.17 1.84 0.00	45.69 1.76 0.00	48.45 1.82 0.00	48.21 1.99 0.00	50.79 2.28 0.00	52.82 2.37 0.00	57.27 2.62 0.00	54.94 2.31 0.00	47.02 1.72 0.00	43.29 1.38 0.00	40.52 1.18 0.00
BRADY___115KV_TB2 356060	40.10 0.28 0.00	37.49 0.30 0.00	35.86 0.25 0.00	35.23 0.18 0.00	36.74 0.00 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.70 -0.33 0.00	42.64 -0.47 0.00	44.74 -0.59 0.00	47.44 -0.58 0.00	48.95 -0.69 0.00	48.01 -0.78 0.00	47.66 -0.68 0.00	43.14 -0.79 0.00	45.85 -0.79 0.00	45.48 -0.74 0.00	47.78 -0.73 0.00	49.74 -0.71 0.00	53.93 -0.71 0.00	52.16 -0.47 0.00	44.94 -0.36 0.00	41.62 -0.29 0.00	39.10 -0.24 0.00
BRANSCOMB___SOLAR 323811	41.21 1.39 0.00	38.53 1.34 0.00	37.04 1.43 0.00	36.52 1.47 0.00	38.47 1.73 0.00	35.63 1.60 0.00	38.42 1.76 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.60 2.27 0.00	50.32 2.30 0.00	52.12 2.48 0.00	51.23 2.44 0.00	50.75 2.42 0.00	46.17 2.24 0.00	49.02 2.38 0.00	48.67 2.45 0.00	51.22 2.71 0.00	53.32 2.87 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.52 2.22 0.00	43.71 1.80 0.00	40.91 1.58 0.00
BRENTWOD_69_KV_W. BRTWOOD 56703	41.21 1.39 0.00	38.65 1.45 0.00	36.82 1.21 0.00	36.35 1.30 0.00	37.99 1.25 0.00	35.67 1.63 0.00	38.72 2.05 0.00	43.66 2.63 -0.01	46.11 2.76 -0.24	51.53 2.77 -3.43	50.62 2.59 -0.01	53.04 2.53 -0.87	53.01 2.39 -1.83	53.01 2.47 -2.21	51.77 2.46 -5.38	51.56 2.66 -2.26	53.18 2.91 -4.05	52.86 3.40 -0.95	53.79 3.33 -0.01	58.91 3.66 -0.60	56.06 3.42 -0.01	51.33 2.72 -3.31	46.36 2.47 -1.98	41.51 2.16 -0.01



BRISTLHL_115KV_TB1 79998	39.38 -0.44 0.00	36.79 -0.41 0.00	35.15 -0.46 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.59 -0.44 0.00	36.26 -0.40 0.00	40.61 -0.41 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.68 -0.34 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	48.00 -0.34 0.00	43.67 -0.26 0.00	46.36 -0.28 0.00	45.90 -0.32 0.00	48.12 -0.39 0.00	50.04 -0.40 0.00	54.15 -0.49 0.00	52.16 -0.47 0.00	44.94 -0.36 0.00	41.62 -0.29 0.00	39.06 -0.28 0.00
BROOKHAVEN___DRP 24191	40.58 0.76 0.00	38.05 0.86 0.00	36.21 0.61 0.00	35.82 0.77 0.00	37.37 0.62 0.00	35.12 1.09 0.00	38.24 1.58 0.00	43.21 2.17 -0.01	45.46 2.11 -0.24	50.79 2.09 -3.37	49.80 1.78 -0.01	52.33 1.84 -0.86	52.30 1.71 -1.79	52.30 1.79 -2.18	51.06 1.85 -5.29	50.87 2.01 -2.23	52.42 2.22 -3.98	52.21 2.77 -0.94	53.08 2.62 -0.01	58.19 2.95 -0.59	55.32 2.68 -0.01	50.64 2.08 -3.25	45.66 1.80 -1.95	40.88 1.53 -0.01
BROOKLYN_NAVY_YARD 23515	40.93 1.11 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.20 1.15 0.00	38.14 1.40 0.00	35.43 1.40 0.00	38.27 1.61 0.00	42.87 1.85 0.00	45.14 2.03 0.00	47.51 2.18 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.75 2.42 0.00	46.21 2.28 0.00	48.97 2.33 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.37 2.92 0.00	57.98 3.33 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.67 1.76 0.00	40.83 1.49 0.00
BROOKLYN___ARMY_DRP 323595	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
BROOKVLE_69_KV_TB1 55790	41.41 1.59 0.00	38.76 1.56 0.00	37.03 1.42 0.00	36.56 1.51 0.00	38.32 1.58 0.00	35.80 1.77 0.00	38.72 2.05 0.00	43.54 2.50 -0.01	46.22 2.72 -0.39	53.68 2.81 -5.53	50.87 2.83 -0.01	53.97 2.93 -1.41	54.67 2.93 -2.94	54.90 3.00 -3.57	55.42 2.81 -8.67	53.23 2.94 -3.65	55.84 3.10 -6.53	53.54 3.49 -1.54	54.04 3.58 -0.01	59.50 3.88 -0.97	56.22 3.58 -0.01	53.40 2.76 -5.33	47.54 2.43 -3.20	41.48 2.12 -0.01
BROOME_2_LFGE 323671	40.06 0.24 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.12 0.07 0.00	36.82 0.07 0.00	34.20 0.17 0.00	36.92 0.26 0.00	41.31 0.29 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.40 0.38 0.00	49.99 0.35 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.01 0.37 0.00	46.55 0.33 0.00	48.80 0.29 0.00	50.80 0.36 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.75 0.45 0.00	42.45 0.54 0.00	39.89 0.55 0.00
BROOME___LFGE 323600	40.06 0.24 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.12 0.07 0.00	36.82 0.07 0.00	34.20 0.17 0.00	36.92 0.26 0.00	41.31 0.29 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.40 0.38 0.00	49.99 0.35 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.01 0.37 0.00	46.55 0.33 0.00	48.80 0.29 0.00	50.80 0.36 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.75 0.45 0.00	42.45 0.54 0.00	39.89 0.55 0.00
BROWNFLS_115KV_TB_3_5 80003	38.90 -0.92 0.00	36.34 -0.86 0.00	34.75 -0.85 0.00	34.17 -0.88 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.38 -1.95 0.00	46.00 -2.02 0.00	47.46 -2.18 0.00	46.60 -2.20 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.72 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
BROWNSV1_27_KV_LOAD 356125	41.25 1.43 0.00	38.57 1.38 0.00	37.00 1.39 0.00	36.45 1.40 0.00	38.32 1.58 0.00	35.70 1.67 0.00	38.50 1.83 0.00	43.20 2.17 0.00	45.48 2.37 0.00	47.92 2.58 0.00	50.56 2.54 0.00	52.37 2.73 0.00	51.57 2.78 0.00	51.14 2.80 0.00	46.61 2.68 0.00	49.39 2.75 0.00	49.18 2.96 0.00	51.81 3.30 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	47.79 2.49 0.00	44.05 2.14 0.00	41.15 1.81 0.00
BURROWS___LYONSDAL 23803	40.14 0.32 0.00	37.46 0.26 0.00	35.82 0.21 0.00	35.26 0.21 0.00	36.63 -0.11 0.00	33.86 -0.17 0.00	36.48 -0.18 0.00	40.78 -0.25 0.00	42.85 -0.26 0.00	45.02 -0.32 0.00	47.73 -0.29 0.00	49.29 -0.35 0.00	48.50 -0.29 0.00	48.04 -0.29 0.00	43.67 -0.26 0.00	46.40 -0.23 0.00	46.08 -0.14 0.00	48.46 -0.05 0.00	50.50 0.05 0.00	54.81 0.16 0.00	52.63 0.00 0.00	45.39 0.09 0.00	41.87 -0.04 0.00	39.26 -0.08 0.00
CAITHNESS_CC_1 323624	40.62 0.80 0.00	38.09 0.89 0.00	36.28 0.67 0.00	35.86 0.81 0.00	37.74 0.99 0.00	35.12 1.09 0.00	38.27 1.61 0.00	43.16 2.13 -0.01	45.50 2.15 -0.24	50.84 2.13 -3.37	49.90 1.87 -0.01	52.43 1.93 -0.86	52.49 1.90 -1.79	52.45 1.94 -2.18	51.19 1.98 -5.28	50.87 2.00 -2.22	52.46 2.26 -3.98	52.21 2.76 -0.94	53.13 2.67 -0.01	58.18 2.95 -0.59	55.32 2.68 -0.01	50.64 2.08 -3.25	45.66 1.80 -1.95	40.92 1.58 -0.01
CALPINE BETH_PAGE_GT4 24209	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.45 1.40 0.00	38.14 1.40 0.00	35.73 1.70 0.00	38.72 2.05 0.00	43.62 2.58 -0.01	46.12 2.72 -0.30	52.30 2.77 -4.20	50.72 2.69 -0.01	53.49 2.78 -1.07	53.71 2.68 -2.24	53.85 2.80 -2.71	53.20 2.68 -6.59	52.02 2.61 -2.77	54.04 2.87 -4.96	52.93 3.25 -1.17	53.79 3.33 -0.01	58.99 3.61 -0.74	55.96 3.32 -0.01	52.11 2.76 -4.05	46.77 2.43 -2.43	41.51 2.16 -0.01
CALPINE_BETH_PAGE_GT_4 323586	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.61 0.00	35.67 1.63 0.00	38.75 2.09 0.00	43.58 2.54 -0.01	46.13 2.72 -0.30	52.30 2.77 -4.20	50.77 2.74 -0.01	53.34 2.63 -1.07	53.61 2.58 -2.24	53.70 2.66 -2.71	53.06 2.55 -6.59	52.02 2.61 -2.77	54.04 2.87 -4.96	52.93 3.25 -1.17	53.79 3.33 -0.01	58.99 3.61 -0.74	55.96 3.32 -0.01	52.11 2.76 -4.05	46.77 2.43 -2.43	41.51 2.16 -0.01
CALPINE_BP_GT1 23823	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.61 0.00	35.67 1.63 0.00	38.75 2.09 0.00	43.58 2.54 -0.01	46.13 2.72 -0.30	52.30 2.77 -4.20	50.77 2.74 -0.01	53.34 2.63 -1.07	53.61 2.58 -2.24	53.70 2.66 -2.71	53.06 2.55 -6.59	52.02 2.61 -2.77	54.04 2.87 -4.96	52.93 3.25 -1.17	53.79 3.33 -0.01	58.99 3.61 -0.74	55.96 3.32 -0.01	52.11 2.76 -4.05	46.77 2.43 -2.43	41.51 2.16 -0.01
CALSPAN___DRP 24200	39.58 -0.24 0.00	36.86 -0.33 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.60 -1.14 0.00	33.25 -0.78 0.00	36.30 -0.37 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.47 -2.04 0.00	48.43 -2.02 0.00	52.24 -2.40 0.00	51.00 -1.63 0.00	44.80 -0.50 0.00	42.33 0.42 0.00	39.93 0.59 0.00



CALVERTON___SOLAR 323806	40.57 0.75 0.00	38.05 0.86 0.00	36.21 0.60 0.00	35.79 0.74 0.00	37.66 0.92 0.00	35.05 1.02 0.00	38.27 1.61 0.00	43.21 2.17 -0.01	45.46 2.11 -0.24	50.79 2.09 -3.37	49.81 1.78 -0.01	52.43 1.93 -0.86	52.44 1.85 -1.79	52.39 1.88 -2.18	51.15 1.93 -5.29	50.87 2.00 -2.23	52.46 2.26 -3.98	52.16 2.71 -0.94	53.08 2.62 -0.01	58.19 2.95 -0.59	55.27 2.63 -0.01	50.59 2.04 -3.25	45.62 1.76 -1.95	40.88 1.53 -0.01
CANDIGU_WT_PWR 323617	39.66 -0.16 0.00	36.86 -0.34 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.79 -0.96 0.00	33.35 -0.68 0.00	35.96 -0.70 0.00	40.20 -0.82 0.00	42.03 -1.08 0.00	44.34 -1.00 0.00	46.96 -1.06 0.00	48.40 -1.24 0.00	47.67 -1.12 0.00	47.08 -1.26 0.00	42.92 -1.01 0.00	45.80 -0.84 0.00	45.16 -1.06 0.00	47.25 -1.26 0.00	49.29 -1.16 0.00	53.33 -1.31 0.00	51.84 -0.79 0.00	45.12 -0.18 0.00	42.20 0.30 0.00	39.81 0.47 0.00
CARR STREET_E_SYR 24060	39.74 -0.08 0.00	37.08 -0.11 0.00	35.43 -0.18 0.00	34.88 -0.17 0.00	36.56 -0.18 0.00	33.93 -0.10 0.00	36.59 -0.07 0.00	41.02 0.00 0.00	43.11 0.00 0.00	45.43 0.09 0.00	48.11 0.10 0.00	49.79 0.15 0.00	48.99 0.20 0.00	48.48 0.15 0.00	44.06 0.13 0.00	46.83 0.19 0.00	46.31 0.09 0.00	48.56 0.05 0.00	50.45 0.00 0.00	54.64 0.00 0.00	52.63 0.00 0.00	45.35 0.05 0.00	42.03 0.13 0.00	39.42 0.08 0.00
CARTHAGE___PAPER 23857	39.54 -0.28 0.00	36.90 -0.30 0.00	35.25 -0.36 0.00	34.70 -0.35 0.00	35.97 -0.77 0.00	33.22 -0.82 0.00	35.82 -0.84 0.00	39.96 -1.07 0.00	41.90 -1.21 0.00	43.98 -1.36 0.00	46.58 -1.44 0.00	48.05 -1.59 0.00	47.28 -1.51 0.00	46.88 -1.45 0.00	42.52 -1.41 0.00	45.28 -1.35 0.00	45.02 -1.20 0.00	47.49 -1.02 0.00	49.64 -0.81 0.00	53.99 -0.65 0.00	51.84 -0.79 0.00	44.76 -0.54 0.00	41.20 -0.71 0.00	38.59 -0.75 0.00
CASSADAGA_WT_PWR 323784	39.86 0.04 0.00	36.79 -0.41 0.00	34.65 -0.96 0.00	33.82 -1.23 0.00	35.09 -1.65 0.00	32.67 -1.36 0.00	35.49 -1.17 0.00	39.88 -1.15 0.00	41.56 -1.55 0.00	43.93 -1.41 0.00	46.48 -1.54 0.00	47.90 -1.74 0.00	47.38 -1.42 0.00	47.13 -1.21 0.00	43.23 -0.70 0.00	46.17 -0.47 0.00	45.53 -0.69 0.00	47.06 -1.45 0.00	49.04 -1.41 0.00	53.17 -1.47 0.00	52.15 -0.47 0.00	45.89 0.59 0.00	43.33 1.43 0.00	40.91 1.58 0.00
CE_DUNWOOD___DRP 24194	40.89 1.08 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.07 1.32 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.83 1.81 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.08 2.15 0.00	48.88 2.24 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.38 2.08 0.00	43.63 1.72 0.00	40.79 1.46 0.00
CE_MILLWOOD___DRP 24193	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.96 1.21 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.66 1.64 0.00	44.96 1.85 0.00	47.24 1.90 0.00	49.94 1.92 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.41 2.08 0.00	45.95 2.02 0.00	48.69 2.05 0.00	48.48 2.26 0.00	51.08 2.57 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.67 1.34 0.00
CE_NYC2_DRP 24202	41.09 1.27 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.21 1.47 0.00	35.63 1.60 0.00	38.42 1.76 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.48 3.03 0.00	57.98 3.33 0.00	55.68 3.05 0.00	47.48 2.17 0.00	43.79 1.89 0.00	40.95 1.61 0.00
CE_NYC_DRP 24195	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.91 1.57 0.00
CHAFFEE___LFGE 323603	39.42 -0.40 0.00	36.75 -0.44 0.00	34.83 -0.78 0.00	34.07 -0.98 0.00	35.64 -1.10 0.00	33.25 -0.78 0.00	36.07 -0.59 0.00	40.49 -0.53 0.00	42.29 -0.82 0.00	44.56 -0.77 0.00	47.16 -0.86 0.00	48.40 -1.24 0.00	47.72 -1.07 0.00	47.22 -1.11 0.00	43.09 -0.84 0.00	45.61 -1.03 0.00	44.88 -1.34 0.00	46.67 -1.84 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.37 -1.26 0.00	44.94 -0.36 0.00	42.20 0.30 0.00	39.81 0.47 0.00
CHATEAUG_35_KV_LOAD 355732	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.41 -0.26 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.79 -0.54 0.00	47.68 -0.34 0.00	48.95 -0.69 0.00	47.67 -1.12 0.00	47.03 -1.31 0.00	42.53 -1.41 0.00	45.10 -1.54 0.00	44.65 -1.57 0.00	46.86 -1.65 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.21 -1.09 0.00	40.90 -1.01 0.00	38.31 -1.02 0.00
CHATEAUG_WT_PWR 323614	40.45 0.64 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.69 -0.33 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.73 -0.29 0.00	48.99 -0.65 0.00	47.77 -1.03 0.00	47.08 -1.26 0.00	42.57 -1.36 0.00	45.19 -1.45 0.00	44.74 -1.48 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.84 -1.80 0.00	51.16 -1.47 0.00	44.30 -1.00 0.00	40.99 -0.92 0.00	38.39 -0.94 0.00
CHAT_HIGH_FALL_HYD 323578	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.41 -0.26 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.79 -0.54 0.00	47.68 -0.34 0.00	48.95 -0.69 0.00	47.67 -1.12 0.00	47.03 -1.31 0.00	42.53 -1.41 0.00	45.10 -1.54 0.00	44.65 -1.57 0.00	46.86 -1.65 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.21 -1.09 0.00	40.90 -1.01 0.00	38.31 -1.02 0.00
CHAUTAUQUA___LFGE 323629	39.86 0.04 0.00	37.01 -0.19 0.00	34.97 -0.64 0.00	34.18 -0.87 0.00	35.64 -1.10 0.00	33.28 -0.75 0.00	36.11 -0.55 0.00	40.61 -0.41 0.00	42.38 -0.73 0.00	44.70 -0.63 0.00	47.30 -0.72 0.00	48.65 -0.99 0.00	48.01 -0.78 0.00	47.61 -0.72 0.00	43.53 -0.40 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.10 -1.41 0.00	49.09 -1.36 0.00	53.17 -1.47 0.00	52.05 -0.58 0.00	45.66 0.36 0.00	43.12 1.22 0.00	40.68 1.34 0.00
CHERRYST_13_KV_LD 356241	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.21 1.47 0.00	35.63 1.60 0.00	38.42 1.76 0.00	43.08 2.05 0.00	45.35 2.24 0.00	47.78 2.45 0.00	50.42 2.40 0.00	52.22 2.58 0.00	51.38 2.59 0.00	50.99 2.66 0.00	46.48 2.55 0.00	49.25 2.61 0.00	49.04 2.82 0.00	51.61 3.10 0.00	53.63 3.18 0.00	58.20 3.55 0.00	55.84 3.21 0.00	47.61 2.31 0.00	43.92 2.01 0.00	41.03 1.69 0.00



CHESTROR_138KV_BK263 355645	40.50 0.68 0.00	37.90 0.71 0.00	36.36 0.75 0.00	35.86 0.81 0.00	37.70 0.96 0.00	35.05 1.02 0.00	37.73 1.06 0.00	42.25 1.23 0.00	44.49 1.38 0.00	46.74 1.41 0.00	49.41 1.39 0.00	51.13 1.49 0.00	50.31 1.51 0.00	49.88 1.55 0.00	45.42 1.49 0.00	48.18 1.54 0.00	47.93 1.71 0.00	50.50 1.99 0.00	52.52 2.07 0.00	56.94 2.30 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.08 1.17 0.00	40.36 1.02 0.00
CH_MIDHUDSON___DRP 24192	40.78 0.96 0.00	38.16 0.97 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.99 1.25 0.00	35.36 1.33 0.00	38.06 1.39 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.15 1.81 0.00	49.84 1.82 0.00	51.63 1.99 0.00	50.79 2.00 0.00	50.36 2.03 0.00	45.86 1.93 0.00	48.64 2.01 0.00	48.44 2.22 0.00	50.98 2.47 0.00	53.02 2.57 0.00	57.43 2.79 0.00	55.16 2.53 0.00	47.16 1.86 0.00	43.42 1.51 0.00	40.67 1.34 0.00
CH_MISC_IPPS 23765	40.90 1.08 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.67 1.64 0.00	45.01 1.89 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.26 2.63 0.00	47.29 1.99 0.00	43.59 1.68 0.00	40.79 1.46 0.00
CH_RES_BVR_FALLS 23983	39.74 -0.08 0.00	37.08 -0.11 0.00	35.43 -0.18 0.00	34.73 -0.32 0.00	36.26 -0.48 0.00	33.45 -0.58 0.00	35.93 -0.73 0.00	40.12 -0.90 0.00	42.08 -1.04 0.00	44.20 -1.13 0.00	46.87 -1.15 0.00	48.40 -1.24 0.00	47.52 -1.27 0.00	47.08 -1.26 0.00	42.70 -1.23 0.00	45.33 -1.31 0.00	44.93 -1.29 0.00	47.15 -1.36 0.00	49.04 -1.41 0.00	53.17 -1.47 0.00	51.32 -1.31 0.00	44.26 -1.04 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
CH_RES_NIAGARA 23895	38.90 -0.92 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.56 -1.10 0.00	39.71 -1.31 0.00	41.52 -1.60 0.00	43.70 -1.63 0.00	46.29 -1.73 0.00	47.65 -1.99 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.82 -2.40 0.00	45.07 -3.44 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
CH_RES_SYRACUSE 23985	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.10 0.07 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.36 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.33 0.00	39.65 0.31 0.00
CLINTON_WT_PWR 323605	40.45 0.64 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.69 -0.33 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.73 -0.29 0.00	48.99 -0.65 0.00	47.77 -1.03 0.00	47.08 -1.26 0.00	42.57 -1.36 0.00	45.19 -1.45 0.00	44.74 -1.48 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.84 -1.80 0.00	51.16 -1.47 0.00	44.30 -1.00 0.00	40.99 -0.92 0.00	38.39 -0.94 0.00
CLINTON___LFGE 323618	41.25 1.43 0.00	38.50 1.30 0.00	36.64 1.03 0.00	35.86 0.81 0.00	37.44 0.70 0.00	34.54 0.51 0.00	37.14 0.48 0.00	41.52 0.49 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.64 0.62 0.00	49.84 0.20 0.00	48.55 -0.24 0.00	47.95 -0.39 0.00	43.27 -0.66 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.64 -0.81 0.00	53.77 -0.88 0.00	52.21 -0.42 0.00	45.12 -0.18 0.00	41.74 -0.17 0.00	39.10 -0.23 0.00
COBBLENY_34_KV_TB1 80064	39.42 -0.40 0.00	36.75 -0.45 0.00	34.83 -0.78 0.00	34.07 -0.98 0.00	35.60 -1.14 0.00	33.15 -0.88 0.00	36.15 -0.51 0.00	40.41 -0.62 0.00	42.29 -0.82 0.00	44.56 -0.77 0.00	47.20 -0.82 0.00	48.50 -1.14 0.00	47.67 -1.12 0.00	47.22 -1.11 0.00	43.10 -0.83 0.00	45.61 -1.03 0.00	44.88 -1.34 0.00	46.62 -1.89 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.37 -1.26 0.00	44.94 -0.36 0.00	42.16 0.25 0.00	39.85 0.51 0.00
COFFEEN___115KV_TB3 355620	39.90 0.08 0.00	37.23 0.04 0.00	35.54 -0.07 0.00	34.98 -0.07 0.00	36.38 -0.37 0.00	33.59 -0.44 0.00	36.26 -0.40 0.00	40.41 -0.62 0.00	42.38 -0.73 0.00	44.47 -0.86 0.00	47.15 -0.86 0.00	48.65 -0.99 0.00	47.91 -0.88 0.00	47.51 -0.82 0.00	43.14 -0.79 0.00	45.89 -0.75 0.00	45.66 -0.55 0.00	48.22 -0.29 0.00	50.45 0.00 0.00	54.92 0.27 0.00	52.68 0.05 0.00	45.53 0.23 0.00	41.87 -0.04 0.00	39.18 -0.16 0.00
COLDSPRG_115KV_BK1 355956	40.38 0.56 0.00	37.49 0.30 0.00	35.40 -0.21 0.00	34.59 -0.46 0.00	36.01 -0.73 0.00	33.49 -0.54 0.00	36.63 -0.04 0.00	40.94 -0.08 0.00	42.85 -0.26 0.00	45.24 -0.09 0.00	47.92 -0.10 0.00	49.29 -0.35 0.00	48.55 -0.24 0.00	48.24 -0.10 0.00	44.11 0.18 0.00	46.82 0.19 0.00	46.08 -0.14 0.00	47.64 -0.87 0.00	49.74 -0.71 0.00	53.88 -0.77 0.00	52.68 0.05 0.00	46.25 0.95 0.00	43.54 1.63 0.00	41.15 1.81 0.00
COLONIE_LFGE___ 323577	40.82 1.00 0.00	38.13 0.93 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.58 1.56 0.00	44.84 1.73 0.00	46.96 1.63 0.00	49.70 1.68 0.00	51.48 1.84 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.45 1.82 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.67 2.22 0.00	56.99 2.35 0.00	54.74 2.11 0.00	46.93 1.63 0.00	43.16 1.26 0.00	40.48 1.14 0.00
COOPERNY_115KV_TB1 80082	40.34 0.52 0.00	37.72 0.52 0.00	36.18 0.57 0.00	35.68 0.63 0.00	37.48 0.73 0.00	34.78 0.75 0.00	37.47 0.81 0.00	41.97 0.94 0.00	44.15 1.03 0.00	46.38 1.04 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.07 1.14 0.00	47.80 1.17 0.00	47.51 1.29 0.00	49.96 1.46 0.00	51.96 1.51 0.00	56.34 1.69 0.00	54.10 1.47 0.00	46.39 1.09 0.00	42.83 0.92 0.00	40.12 0.79 0.00
COPENHAGEN_WT_PWR 323753	39.66 -0.16 0.00	37.01 -0.19 0.00	35.36 -0.25 0.00	34.81 -0.24 0.00	36.19 -0.55 0.00	33.45 -0.58 0.00	36.07 -0.59 0.00	40.29 -0.74 0.00	42.25 -0.86 0.00	44.38 -0.95 0.00	47.01 -1.01 0.00	48.55 -1.09 0.00	47.82 -0.98 0.00	47.41 -0.92 0.00	43.01 -0.92 0.00	45.80 -0.84 0.00	45.48 -0.74 0.00	47.98 -0.53 0.00	50.10 -0.35 0.00	54.48 -0.16 0.00	52.32 -0.31 0.00	45.21 -0.09 0.00	41.62 -0.29 0.00	38.98 -0.35 0.00
CORNELL_____ 23752	40.74 0.92 0.00	38.01 0.82 0.00	36.29 0.68 0.00	35.65 0.60 0.00	37.33 0.59 0.00	34.61 0.58 0.00	37.43 0.77 0.00	41.93 0.90 0.00	44.02 0.91 0.00	46.38 1.04 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.87 1.07 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.76 1.12 0.00	47.28 1.06 0.00	49.63 1.12 0.00	51.71 1.26 0.00	55.95 1.31 0.00	53.84 1.21 0.00	46.52 1.22 0.00	43.04 1.13 0.00	40.40 1.06 0.00



CORONA V_69_KV_TB1 355595	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.45 1.40 0.00	38.18 1.43 0.00	35.73 1.70 0.00	38.68 2.02 0.00	43.50 2.46 -0.02	46.08 2.54 -0.43	54.01 2.63 -6.05	50.63 2.59 -0.02	53.81 2.63 -1.54	54.65 2.63 -3.22	54.90 2.66 -3.90	55.96 2.55 -9.48	53.33 2.70 -3.99	56.22 2.87 -7.13	53.49 3.30 -1.68	53.89 3.43 -0.02	59.31 3.61 -1.06	56.01 3.37 -0.02	53.76 2.63 -5.83	47.71 2.30 -3.50	41.48 2.12 -0.02
CORTLAND_115KV_TB3 80093	40.34 0.52 0.00	37.68 0.48 0.00	35.97 0.36 0.00	35.40 0.35 0.00	37.07 0.33 0.00	34.37 0.34 0.00	37.14 0.48 0.00	41.56 0.53 0.00	43.67 0.56 0.00	45.97 0.63 0.00	48.74 0.72 0.00	50.39 0.74 0.00	49.52 0.73 0.00	49.01 0.68 0.00	44.59 0.66 0.00	47.38 0.75 0.00	46.91 0.69 0.00	49.24 0.73 0.00	51.26 0.81 0.00	55.52 0.87 0.00	53.42 0.79 0.00	46.07 0.77 0.00	42.66 0.75 0.00	40.05 0.71 0.00
COXSACKIE__GT 23611	41.49 1.67 0.00	38.83 1.63 0.00	37.28 1.67 0.00	36.80 1.75 0.00	38.73 1.98 0.00	35.83 1.80 0.00	38.35 1.69 0.00	42.71 1.68 0.00	45.01 1.89 0.00	47.15 1.82 0.00	49.74 1.73 0.00	51.57 1.93 0.00	50.65 1.85 0.00	50.17 1.84 0.00	45.73 1.80 0.00	48.60 1.96 0.00	48.53 2.31 0.00	51.32 2.81 0.00	53.42 2.98 0.00	57.81 3.17 0.00	55.36 2.74 0.00	47.43 2.13 0.00	43.75 1.84 0.00	41.07 1.73 0.00
CPV_VALLEY__CC1 323721	40.30 0.48 0.00	37.72 0.52 0.00	36.18 0.57 0.00	35.68 0.63 0.00	37.52 0.77 0.00	34.82 0.78 0.00	37.54 0.88 0.00	42.01 0.98 0.00	44.23 1.12 0.00	46.47 1.13 0.00	49.12 1.11 0.00	50.83 1.19 0.00	50.01 1.22 0.00	49.59 1.25 0.00	45.16 1.23 0.00	47.85 1.21 0.00	47.60 1.39 0.00	50.11 1.60 0.00	52.11 1.66 0.00	56.50 1.86 0.00	54.26 1.63 0.00	46.48 1.18 0.00	42.83 0.92 0.00	40.12 0.79 0.00
CPV_VALLEY__CC2 323722	40.30 0.48 0.00	37.72 0.52 0.00	36.18 0.57 0.00	35.68 0.63 0.00	37.52 0.77 0.00	34.82 0.78 0.00	37.54 0.88 0.00	42.01 0.98 0.00	44.23 1.12 0.00	46.47 1.13 0.00	49.12 1.11 0.00	50.83 1.19 0.00	50.01 1.22 0.00	49.59 1.25 0.00	45.16 1.23 0.00	47.85 1.21 0.00	47.60 1.39 0.00	50.11 1.60 0.00	52.11 1.66 0.00	56.50 1.86 0.00	54.26 1.63 0.00	46.48 1.18 0.00	42.83 0.92 0.00	40.12 0.79 0.00
CRESCENT__HYD 24018	40.82 1.00 0.00	38.13 0.93 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.58 1.56 0.00	44.84 1.73 0.00	46.96 1.63 0.00	49.70 1.68 0.00	51.48 1.84 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.45 1.82 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.67 2.22 0.00	56.99 2.35 0.00	54.74 2.11 0.00	46.93 1.63 0.00	43.16 1.26 0.00	40.48 1.14 0.00
CRICKET__VALLEY_CC1 323756	40.34 0.52 0.00	37.75 0.56 0.00	36.28 0.67 0.00	35.82 0.77 0.00	37.81 1.07 0.00	35.12 1.09 0.00	37.87 1.21 0.00	42.34 1.31 0.00	44.58 1.47 0.00	46.69 1.36 0.00	49.36 1.34 0.00	51.18 1.54 0.00	50.31 1.51 0.00	49.93 1.59 0.00	45.43 1.49 0.00	48.17 1.54 0.00	47.98 1.76 0.00	50.45 1.94 0.00	52.57 2.12 0.00	56.94 2.29 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.00 1.09 0.00	40.24 0.91 0.00
CRICKET__VALLEY_CC2 323757	40.34 0.52 0.00	37.75 0.56 0.00	36.28 0.67 0.00	35.82 0.77 0.00	37.81 1.07 0.00	35.12 1.09 0.00	37.87 1.21 0.00	42.34 1.31 0.00	44.58 1.47 0.00	46.69 1.36 0.00	49.36 1.34 0.00	51.18 1.54 0.00	50.31 1.51 0.00	49.93 1.59 0.00	45.43 1.49 0.00	48.17 1.54 0.00	47.98 1.76 0.00	50.45 1.94 0.00	52.57 2.12 0.00	56.94 2.29 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.00 1.09 0.00	40.24 0.91 0.00
CRICKET__VALLEY_CC3 323758	40.34 0.52 0.00	37.75 0.56 0.00	36.28 0.67 0.00	35.82 0.77 0.00	37.81 1.07 0.00	35.12 1.09 0.00	37.87 1.21 0.00	42.34 1.31 0.00	44.58 1.47 0.00	46.69 1.36 0.00	49.36 1.34 0.00	51.18 1.54 0.00	50.31 1.51 0.00	49.93 1.59 0.00	45.43 1.49 0.00	48.17 1.54 0.00	47.98 1.76 0.00	50.45 1.94 0.00	52.57 2.12 0.00	56.94 2.29 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.00 1.09 0.00	40.24 0.91 0.00
CRUCIBLE_METL_DRP 24180	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00
DAHOWA__HYDRO 323763	41.29 1.47 0.00	38.61 1.41 0.00	37.10 1.50 0.00	36.56 1.51 0.00	38.54 1.80 0.00	35.70 1.67 0.00	38.46 1.80 0.00	43.03 2.01 0.00	45.35 2.24 0.00	47.74 2.40 0.00	50.47 2.45 0.00	52.27 2.63 0.00	51.43 2.63 0.00	50.89 2.56 0.00	46.26 2.33 0.00	49.11 2.47 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.65 2.35 0.00	43.80 1.89 0.00	40.99 1.65 0.00
DANC__LFGE 323619	39.42 -0.40 0.00	36.82 -0.37 0.00	35.15 -0.46 0.00	34.59 -0.46 0.00	36.12 -0.62 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.29 -0.74 0.00	42.29 -0.82 0.00	44.47 -0.86 0.00	47.10 -0.91 0.00	48.70 -0.94 0.00	47.92 -0.88 0.00	47.46 -0.87 0.00	43.14 -0.79 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.93 -0.58 0.00	49.94 -0.50 0.00	54.26 -0.38 0.00	52.10 -0.53 0.00	44.99 -0.31 0.00	41.53 -0.38 0.00	38.91 -0.43 0.00
DANSKAMMER__1 23586	40.90 1.08 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.67 1.64 0.00	45.01 1.89 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.26 2.63 0.00	47.29 1.99 0.00	43.59 1.68 0.00	40.79 1.46 0.00
DANSKAMMER__2 23589	40.90 1.08 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.67 1.64 0.00	45.01 1.89 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.26 2.63 0.00	47.29 1.99 0.00	43.59 1.68 0.00	40.79 1.46 0.00
DANSKAMMER__3 23590	40.90 1.08 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.67 1.64 0.00	45.01 1.89 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.26 2.63 0.00	47.29 1.99 0.00	43.59 1.68 0.00	40.79 1.46 0.00



DANSKAMMER___4 23591	40.90 1.08 0.00	38.28 1.08 0.00	36.71 1.11 0.00	36.24 1.19 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.67 1.64 0.00	45.01 1.89 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.00 0.00	55.26 2.63 0.00	47.29 1.99 0.00	43.59 1.68 0.00	40.79 1.46 0.00
DANSKAMMER___DIESEL 23592	40.89 1.08 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.24 1.19 0.00	38.10 1.36 0.00	35.43 1.40 0.00	38.13 1.47 0.00	42.66 1.64 0.00	45.01 1.90 0.00	47.28 1.95 0.00	49.99 1.97 0.00	51.78 2.13 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.18 2.67 0.00	53.22 2.77 0.00	57.65 3.01 0.00	55.31 2.68 0.00	47.29 1.99 0.00	43.58 1.68 0.00	40.79 1.46 0.00
DARBY___SOLAR 323810	41.29 1.47 0.00	38.57 1.38 0.00	37.07 1.46 0.00	36.56 1.51 0.00	38.51 1.76 0.00	35.67 1.63 0.00	38.46 1.80 0.00	43.03 2.01 0.00	45.31 2.20 0.00	47.65 2.31 0.00	50.37 2.35 0.00	52.22 2.58 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.21 2.28 0.00	49.06 2.42 0.00	48.71 2.49 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.87 3.22 0.00	55.52 2.89 0.00	47.61 2.31 0.00	43.75 1.84 0.00	40.95 1.61 0.00
DASHVILLE___HYD 23610	40.70 0.88 0.00	38.09 0.89 0.00	36.54 0.93 0.00	36.07 1.02 0.00	37.92 1.18 0.00	35.22 1.19 0.00	37.87 1.21 0.00	42.38 1.35 0.00	44.66 1.55 0.00	46.92 1.59 0.00	49.56 1.54 0.00	51.33 1.69 0.00	50.50 1.71 0.00	50.07 1.74 0.00	45.64 1.71 0.00	48.41 1.77 0.00	48.21 1.99 0.00	50.79 2.28 0.00	52.82 2.37 0.00	57.21 2.57 0.00	54.89 2.26 0.00	46.93 1.63 0.00	43.29 1.38 0.00	40.60 1.26 0.00
DEERFIELD_69_KV_DEERFIELD LD 355887	40.78 0.96 0.00	38.24 1.04 0.00	36.36 0.75 0.00	35.89 0.84 0.00	37.40 0.66 0.00	35.16 1.12 0.00	38.28 1.61 0.00	43.33 2.30 -0.01	45.68 2.33 -0.24	51.02 2.31 -3.37	49.80 1.78 -0.01	52.63 2.13 -0.86	52.59 2.00 -1.80	52.54 2.03 -2.18	51.24 2.02 -5.29	51.01 2.15 -2.23	52.56 2.36 -3.98	52.31 2.86 -0.94	53.13 2.67 -0.01	58.35 3.11 -0.59	55.38 2.74 -0.01	50.59 2.04 -3.25	45.62 1.76 -1.95	41.00 1.65 -0.01
DELAWARE___LFGE 323621	40.74 0.92 0.00	38.05 0.86 0.00	36.50 0.89 0.00	36.00 0.95 0.00	37.77 1.03 0.00	34.95 0.92 0.00	37.69 1.03 0.00	42.17 1.15 0.00	44.40 1.29 0.00	46.65 1.31 0.00	49.41 1.39 0.00	51.13 1.49 0.00	50.26 1.46 0.00	49.83 1.50 0.00	45.34 1.41 0.00	48.08 1.45 0.00	47.74 1.53 0.00	50.16 1.65 0.00	52.16 1.72 0.00	56.56 1.91 0.00	54.37 1.74 0.00	46.75 1.45 0.00	43.17 1.26 0.00	40.48 1.14 0.00
DERFIELD_115KV_TB7 355931	39.90 0.08 0.00	37.27 0.07 0.00	35.68 0.07 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.13 0.10 0.00	36.74 0.07 0.00	41.11 0.08 0.00	43.20 0.09 0.00	45.42 0.09 0.00	48.11 0.10 0.00	49.74 0.10 0.00	48.94 0.15 0.00	48.48 0.14 0.00	44.06 0.13 0.00	46.78 0.14 0.00	46.40 0.18 0.00	48.75 0.24 0.00	50.70 0.25 0.00	54.92 0.27 0.00	52.84 0.21 0.00	45.44 0.14 0.00	41.99 0.08 0.00	39.42 0.08 0.00
DOGLEVILLE___HYD 23807	38.63 -1.19 0.00	35.74 -1.45 0.00	33.83 -1.78 0.00	32.91 -2.14 0.00	34.17 -2.57 0.00	31.68 -2.35 0.00	34.02 -2.64 0.00	37.90 -3.12 0.00	39.79 -3.32 0.00	41.84 -3.49 0.00	44.47 -3.55 0.00	46.02 -3.62 0.00	45.33 -3.46 0.00	45.05 -3.29 0.00	40.90 -3.03 0.00	43.51 -3.12 0.00	43.26 -2.96 0.00	45.55 -2.96 0.00	47.02 -3.43 0.00	51.09 -3.55 0.00	49.21 -3.42 0.00	42.49 -2.81 0.00	39.35 -2.56 0.00	37.05 -2.28 0.00
DUNKIRK___115KV_TB_200 55889	39.90 0.08 0.00	37.05 -0.15 0.00	35.00 -0.61 0.00	34.21 -0.84 0.00	35.64 -1.10 0.00	33.18 -0.85 0.00	36.30 -0.37 0.00	40.61 -0.41 0.00	42.46 -0.65 0.00	44.79 -0.54 0.00	47.44 -0.58 0.00	48.85 -0.79 0.00	48.06 -0.73 0.00	47.71 -0.63 0.00	43.58 -0.35 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.05 -1.46 0.00	49.14 -1.31 0.00	53.17 -1.48 0.00	52.00 -0.63 0.00	45.66 0.36 0.00	43.04 1.13 0.00	40.64 1.30 0.00
DUNKIRK___1 23563	39.90 0.08 0.00	37.05 -0.15 0.00	35.00 -0.61 0.00	34.21 -0.84 0.00	35.64 -1.10 0.00	33.18 -0.85 0.00	36.30 -0.37 0.00	40.61 -0.41 0.00	42.46 -0.65 0.00	44.79 -0.54 0.00	47.44 -0.58 0.00	48.85 -0.79 0.00	48.06 -0.73 0.00	47.71 -0.63 0.00	43.58 -0.35 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.05 -1.46 0.00	49.14 -1.31 0.00	53.17 -1.48 0.00	52.00 -0.63 0.00	45.66 0.36 0.00	43.04 1.13 0.00	40.64 1.30 0.00
DUNKIRK___2 23564	39.90 0.08 0.00	37.05 -0.15 0.00	35.00 -0.61 0.00	34.21 -0.84 0.00	35.64 -1.10 0.00	33.18 -0.85 0.00	36.30 -0.37 0.00	40.61 -0.41 0.00	42.46 -0.65 0.00	44.79 -0.54 0.00	47.44 -0.58 0.00	48.85 -0.79 0.00	48.06 -0.73 0.00	47.71 -0.63 0.00	43.58 -0.35 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.05 -1.46 0.00	49.14 -1.31 0.00	53.17 -1.48 0.00	52.00 -0.63 0.00	45.66 0.36 0.00	43.04 1.13 0.00	40.64 1.30 0.00
DUNKIRK___3 23565	39.74 -0.08 0.00	36.97 -0.22 0.00	34.93 -0.68 0.00	34.17 -0.88 0.00	35.64 -1.10 0.00	33.22 -0.82 0.00	36.26 -0.40 0.00	40.57 -0.45 0.00	42.46 -0.65 0.00	44.74 -0.59 0.00	47.39 -0.62 0.00	48.80 -0.84 0.00	48.01 -0.78 0.00	47.61 -0.73 0.00	43.45 -0.48 0.00	46.12 -0.51 0.00	45.34 -0.88 0.00	46.86 -1.65 0.00	48.93 -1.51 0.00	52.95 -1.69 0.00	51.68 -0.95 0.00	45.35 0.05 0.00	42.75 0.84 0.00	40.36 1.02 0.00
DUNKIRK___4 23566	39.74 -0.08 0.00	36.97 -0.22 0.00	34.93 -0.68 0.00	34.17 -0.88 0.00	35.64 -1.10 0.00	33.22 -0.82 0.00	36.26 -0.40 0.00	40.57 -0.45 0.00	42.46 -0.65 0.00	44.74 -0.59 0.00	47.39 -0.62 0.00	48.80 -0.84 0.00	48.01 -0.78 0.00	47.61 -0.73 0.00	43.45 -0.48 0.00	46.12 -0.51 0.00	45.34 -0.88 0.00	46.86 -1.65 0.00	48.93 -1.51 0.00	52.95 -1.69 0.00	51.68 -0.95 0.00	45.35 0.05 0.00	42.75 0.84 0.00	40.36 1.02 0.00
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	40.93 1.11 0.00	38.35 1.15 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.10 1.36 0.00	35.50 1.46 0.00	38.24 1.58 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.51 2.18 0.00	50.18 2.16 0.00	51.97 2.33 0.00	51.14 2.34 0.00	50.70 2.37 0.00	46.22 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.37 2.86 0.00	53.37 2.93 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.48 2.17 0.00	43.71 1.80 0.00	40.87 1.53 0.00
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	40.70 0.88 0.00	38.05 0.86 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.19 1.16 0.00	37.91 1.25 0.00	42.46 1.44 0.00	44.71 1.60 0.00	47.01 1.68 0.00	49.65 1.63 0.00	51.43 1.79 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.69 1.76 0.00	48.46 1.82 0.00	48.25 2.03 0.00	50.79 2.28 0.00	52.82 2.37 0.00	57.27 2.62 0.00	54.95 2.32 0.00	46.98 1.68 0.00	43.33 1.42 0.00	40.56 1.22 0.00



E179THST_138_KV_TB4_REV_LBMP_J 345001	40.89 1.08 0.00	38.31 1.12 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.03 1.29 0.00	35.46 1.43 0.00	38.24 1.58 0.00	42.75 1.72 0.00	45.01 1.90 0.00	47.37 2.04 0.00	49.99 1.97 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.25 1.95 0.00	43.54 1.63 0.00	40.71 1.38 0.00
E179THST_13_KV_LOAD 356214	41.05 1.23 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.87 1.53 0.00
EAST HAMPTON___GT 23717	40.66 0.84 0.00	38.13 0.93 0.00	36.21 0.60 0.00	35.65 0.60 0.00	37.52 0.77 0.00	34.85 0.82 0.00	38.02 1.36 0.00	43.08 2.05 -0.01	45.46 2.11 -0.24	50.79 2.09 -3.37	49.23 1.20 -0.01	52.43 1.93 -0.86	52.44 1.85 -1.80	52.30 1.79 -2.18	51.02 1.80 -5.29	50.68 1.82 -2.23	52.14 1.94 -3.98	51.82 2.38 -0.94	52.53 2.07 -0.01	57.75 2.51 -0.59	54.75 2.11 -0.01	50.00 1.45 -3.25	45.08 1.22 -1.95	40.76 1.41 -0.01
EAST RIVER___6 23660	41.06 1.24 0.00	38.42 1.23 0.00	36.86 1.25 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	43.03 2.01 0.00	45.31 2.20 0.00	47.69 2.36 0.00	50.37 2.35 0.00	52.22 2.58 0.00	51.38 2.58 0.00	50.94 2.61 0.00	46.39 2.46 0.00	49.15 2.52 0.00	48.95 2.73 0.00	51.52 3.01 0.00	53.58 3.13 0.00	58.14 3.50 0.00	55.73 3.10 0.00	47.56 2.26 0.00	43.84 1.93 0.00	40.99 1.65 0.00
EAST RIVER___7 23524	41.06 1.24 0.00	38.42 1.23 0.00	36.86 1.25 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	43.03 2.01 0.00	45.31 2.20 0.00	47.69 2.36 0.00	50.37 2.35 0.00	52.22 2.58 0.00	51.38 2.58 0.00	50.94 2.61 0.00	46.39 2.46 0.00	49.15 2.52 0.00	48.95 2.73 0.00	51.52 3.01 0.00	53.58 3.13 0.00	58.14 3.50 0.00	55.73 3.10 0.00	47.56 2.26 0.00	43.84 1.93 0.00	40.99 1.65 0.00
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	40.89 1.08 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.07 1.32 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.83 1.81 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.08 2.15 0.00	48.88 2.24 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.38 2.08 0.00	43.63 1.72 0.00	40.79 1.46 0.00
EAST_HAMPTON___DIESEL 23722	40.57 0.75 0.00	38.09 0.89 0.00	36.18 0.57 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.78 0.75 0.00	37.95 1.28 0.00	42.96 1.93 -0.01	45.38 2.03 -0.24	50.70 1.99 -3.37	49.08 1.06 -0.01	52.34 1.84 -0.86	52.34 1.75 -1.80	52.20 1.69 -2.18	50.93 1.71 -5.29	50.59 1.73 -2.23	52.00 1.80 -3.98	51.73 2.28 -0.94	52.37 1.92 -0.01	57.58 2.35 -0.59	54.59 1.95 -0.01	49.87 1.31 -3.25	44.95 1.09 -1.95	40.68 1.34 -0.01
EAST_POINT___SOLAR 323840	42.65 2.83 0.00	39.80 2.60 0.00	38.21 2.60 0.00	37.64 2.59 0.00	39.53 2.79 0.00	36.59 2.55 0.00	39.45 2.78 0.00	44.06 3.04 0.00	46.43 3.32 0.00	48.78 3.44 0.00	51.14 3.12 0.00	52.77 3.13 0.00	52.31 3.52 0.00	51.62 3.29 0.00	46.66 2.72 0.00	49.81 3.17 0.00	49.83 3.61 0.00	52.88 4.37 0.00	55.14 4.69 0.00	60.00 5.36 0.00	57.58 4.95 0.00	49.42 4.12 0.00	45.38 3.48 0.00	42.44 3.11 0.00
EAST_PULASKI___ESR 323781	39.34 -0.48 0.00	36.75 -0.44 0.00	35.11 -0.50 0.00	34.56 -0.49 0.00	36.15 -0.59 0.00	33.52 -0.51 0.00	36.15 -0.51 0.00	40.49 -0.53 0.00	42.51 -0.60 0.00	44.74 -0.59 0.00	47.39 -0.63 0.00	49.05 -0.59 0.00	48.26 -0.54 0.00	47.76 -0.58 0.00	43.41 -0.53 0.00	46.13 -0.51 0.00	45.71 -0.51 0.00	48.02 -0.49 0.00	49.99 -0.45 0.00	54.20 -0.44 0.00	52.15 -0.47 0.00	44.94 -0.36 0.00	41.57 -0.34 0.00	38.94 -0.39 0.00
EAST_RIVER___1 323558	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.25 1.51 0.00	35.53 1.50 0.00	38.39 1.72 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.65 2.31 0.00	50.32 2.30 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.63 3.00 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.91 1.58 0.00
EAST_RIVER___2 323559	41.06 1.24 0.00	38.42 1.23 0.00	36.86 1.25 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	43.03 2.01 0.00	45.31 2.20 0.00	47.69 2.36 0.00	50.37 2.35 0.00	52.22 2.58 0.00	51.38 2.58 0.00	50.94 2.61 0.00	46.39 2.46 0.00	49.15 2.52 0.00	48.95 2.73 0.00	51.52 3.01 0.00	53.58 3.13 0.00	58.14 3.50 0.00	55.73 3.10 0.00	47.56 2.26 0.00	43.84 1.93 0.00	40.99 1.65 0.00
EAST___DELAWARE_HYD 23607	40.50 0.68 0.00	37.87 0.67 0.00	36.32 0.71 0.00	35.82 0.77 0.00	37.70 0.95 0.00	34.92 0.88 0.00	37.65 0.99 0.00	42.09 1.06 0.00	44.40 1.29 0.00	46.65 1.32 0.00	49.32 1.30 0.00	51.13 1.49 0.00	50.31 1.51 0.00	49.83 1.50 0.00	45.43 1.49 0.00	48.17 1.54 0.00	47.98 1.76 0.00	50.50 1.99 0.00	52.57 2.12 0.00	56.99 2.35 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.12 1.22 0.00	40.40 1.06 0.00
EIGHT_POINT___WT_PWR 323820	40.06 0.24 0.00	37.20 0.00 0.00	35.25 -0.36 0.00	34.42 -0.63 0.00	35.97 -0.77 0.00	33.49 -0.55 0.00	36.07 -0.59 0.00	40.33 -0.70 0.00	42.12 -0.99 0.00	44.47 -0.86 0.00	47.10 -0.91 0.00	48.55 -1.09 0.00	47.86 -0.93 0.00	47.22 -1.11 0.00	43.05 -0.88 0.00	46.03 -0.61 0.00	45.43 -0.79 0.00	47.64 -0.87 0.00	49.79 -0.66 0.00	53.93 -0.71 0.00	52.42 -0.21 0.00	45.71 0.41 0.00	42.79 0.88 0.00	40.32 0.98 0.00
ELBRIDGE_115KV_TB2 80188	39.78 -0.04 0.00	37.16 -0.04 0.00	35.47 -0.14 0.00	34.91 -0.14 0.00	36.60 -0.15 0.00	33.93 -0.10 0.00	36.66 0.00 0.00	41.07 0.04 0.00	43.15 0.04 0.00	45.47 0.14 0.00	48.16 0.14 0.00	49.84 0.20 0.00	48.99 0.20 0.00	48.48 0.14 0.00	44.11 0.18 0.00	46.87 0.23 0.00	46.36 0.14 0.00	48.56 0.05 0.00	50.50 0.05 0.00	54.64 0.00 0.00	52.63 0.00 0.00	45.44 0.14 0.00	42.08 0.17 0.00	39.49 0.16 0.00
ELEC_TRO_TEK 24086	41.09 1.27 0.00	38.50 1.30 0.00	36.75 1.14 0.00	36.28 1.23 0.00	37.99 1.25 0.00	35.53 1.50 0.00	38.50 1.83 0.00	43.30 2.26 -0.02	45.86 2.33 -0.42	53.70 2.40 -5.96	50.39 2.35 -0.02	53.54 2.38 -1.52	54.31 2.34 -3.17	54.60 2.42 -3.85	55.61 2.33 -9.35	53.00 2.43 -3.94	55.89 2.63 -7.04	53.17 3.01 -1.66	53.59 3.13 -0.02	59.03 3.33 -1.05	55.70 3.05 -0.02	53.41 2.36 -5.75	47.41 2.05 -3.45	41.20 1.85 -0.02



ELLENBURG_WT_PWR 323604	40.45 0.64 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.69 -0.33 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.73 -0.29 0.00	48.99 -0.65 0.00	47.77 -1.03 0.00	47.08 -1.26 0.00	42.57 -1.36 0.00	45.19 -1.45 0.00	44.74 -1.48 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.84 -1.80 0.00	51.16 -1.47 0.00	44.30 -1.00 0.00	40.99 -0.92 0.00	38.39 -0.94 0.00
ELM_ST_23_KV_LD_REV_LBMP_A 345012	39.38 -0.44 0.00	36.67 -0.52 0.00	34.68 -0.93 0.00	33.93 -1.12 0.00	35.46 -1.29 0.00	33.11 -0.92 0.00	36.11 -0.55 0.00	40.49 -0.53 0.00	42.33 -0.78 0.00	44.61 -0.73 0.00	47.25 -0.77 0.00	48.65 -0.99 0.00	47.87 -0.93 0.00	47.42 -0.92 0.00	43.18 -0.75 0.00	45.80 -0.84 0.00	44.83 -1.39 0.00	46.23 -2.28 0.00	48.18 -2.27 0.00	51.97 -2.68 0.00	50.68 -1.95 0.00	44.53 -0.77 0.00	42.08 0.17 0.00	39.65 0.31 0.00
EMPIRE_CC_1 323656	40.26 0.44 0.00	37.68 0.48 0.00	36.21 0.60 0.00	35.75 0.70 0.00	37.74 0.99 0.00	35.09 1.06 0.00	37.65 0.99 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.19 0.86 0.00	48.88 0.87 0.00	50.63 0.99 0.00	49.77 0.98 0.00	49.40 1.06 0.00	44.94 1.01 0.00	47.66 1.02 0.00	47.42 1.20 0.00	49.87 1.36 0.00	51.86 1.41 0.00	56.12 1.48 0.00	53.89 1.26 0.00	46.21 0.91 0.00	42.49 0.59 0.00	39.93 0.59 0.00
EMPIRE_CC_2 323658	40.26 0.44 0.00	37.68 0.48 0.00	36.21 0.60 0.00	35.75 0.70 0.00	37.74 0.99 0.00	35.09 1.06 0.00	37.65 0.99 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.19 0.86 0.00	48.88 0.87 0.00	50.63 0.99 0.00	49.77 0.98 0.00	49.40 1.06 0.00	44.94 1.01 0.00	47.66 1.02 0.00	47.42 1.20 0.00	49.87 1.36 0.00	51.86 1.41 0.00	56.12 1.48 0.00	53.89 1.26 0.00	46.21 0.91 0.00	42.49 0.59 0.00	39.93 0.59 0.00
ENORWICH_115KV_TB1 80156	42.69 2.87 0.00	39.84 2.64 0.00	37.96 2.35 0.00	37.26 2.21 0.00	38.91 2.17 0.00	35.94 1.91 0.00	38.79 2.13 0.00	43.32 2.30 0.00	45.48 2.37 0.00	47.74 2.40 0.00	50.52 2.50 0.00	52.17 2.53 0.00	51.23 2.44 0.00	50.85 2.51 0.00	46.22 2.28 0.00	49.20 2.57 0.00	48.67 2.45 0.00	51.18 2.67 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.58 2.95 0.00	48.25 2.94 0.00	44.59 2.68 0.00	41.85 2.52 0.00
ERIE_ST__34_KV_TB1-2 80199	39.70 -0.12 0.00	36.97 -0.22 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.75 -0.99 0.00	33.35 -0.68 0.00	36.41 -0.26 0.00	40.78 -0.25 0.00	42.68 -0.43 0.00	44.97 -0.36 0.00	47.63 -0.38 0.00	49.04 -0.60 0.00	48.26 -0.54 0.00	47.80 -0.53 0.00	43.58 -0.35 0.00	46.17 -0.47 0.00	45.25 -0.97 0.00	46.76 -1.75 0.00	48.73 -1.72 0.00	52.62 -2.02 0.00	51.31 -1.32 0.00	45.03 -0.27 0.00	42.45 0.54 0.00	40.08 0.75 0.00
ERIE_WT_PWR 323693	39.58 -0.24 0.00	36.90 -0.30 0.00	34.90 -0.71 0.00	34.11 -0.94 0.00	35.71 -1.03 0.00	33.45 -0.58 0.00	36.18 -0.48 0.00	40.78 -0.24 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.44 -0.57 0.00	48.80 -0.84 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.62 -1.89 0.00	48.48 -1.97 0.00	52.30 -2.35 0.00	51.05 -1.58 0.00	44.85 -0.45 0.00	42.41 0.50 0.00	39.93 0.59 0.00
ESPRGFLD_115KV_TB1 80157	41.85 2.03 0.00	39.06 1.86 0.00	37.43 1.82 0.00	36.91 1.86 0.00	38.69 1.95 0.00	35.80 1.77 0.00	38.64 1.98 0.00	43.28 2.26 0.00	45.61 2.50 0.00	47.96 2.63 0.00	50.71 2.69 0.00	52.37 2.73 0.00	51.53 2.73 0.00	51.04 2.71 0.00	46.39 2.46 0.00	49.30 2.66 0.00	48.99 2.77 0.00	51.66 3.15 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.10 3.47 0.00	48.25 2.94 0.00	44.46 2.56 0.00	41.66 2.32 0.00
ETNA_115_KV_TB1_REV_LBMP_C 345029	40.66 0.84 0.00	37.98 0.78 0.00	36.25 0.64 0.00	35.61 0.56 0.00	37.29 0.55 0.00	34.58 0.54 0.00	37.40 0.73 0.00	41.84 0.82 0.00	43.97 0.86 0.00	46.29 0.95 0.00	49.03 1.01 0.00	50.68 1.04 0.00	49.82 1.02 0.00	49.25 0.92 0.00	44.81 0.88 0.00	47.66 1.03 0.00	47.24 1.02 0.00	49.58 1.07 0.00	51.61 1.16 0.00	55.90 1.26 0.00	53.73 1.11 0.00	46.43 1.13 0.00	43.00 1.09 0.00	40.36 1.02 0.00
ETNA____115KV_TB2 80207	40.66 0.84 0.00	37.98 0.78 0.00	36.25 0.64 0.00	35.61 0.56 0.00	37.29 0.55 0.00	34.58 0.54 0.00	37.40 0.73 0.00	41.84 0.82 0.00	43.97 0.86 0.00	46.29 0.95 0.00	49.03 1.01 0.00	50.68 1.04 0.00	49.82 1.02 0.00	49.25 0.92 0.00	44.81 0.88 0.00	47.66 1.03 0.00	47.24 1.02 0.00	49.58 1.07 0.00	51.61 1.16 0.00	55.90 1.26 0.00	53.73 1.11 0.00	46.43 1.13 0.00	43.00 1.09 0.00	40.36 1.02 0.00
EUCLID__115KV_TB2 356179	39.54 -0.28 0.00	36.94 -0.26 0.00	35.29 -0.32 0.00	34.73 -0.32 0.00	36.41 -0.33 0.00	33.76 -0.27 0.00	36.48 -0.18 0.00	40.82 -0.21 0.00	42.90 -0.22 0.00	45.20 -0.14 0.00	47.87 -0.14 0.00	49.54 -0.10 0.00	48.74 -0.05 0.00	48.24 -0.10 0.00	43.84 -0.09 0.00	46.59 -0.05 0.00	46.08 -0.14 0.00	48.32 -0.19 0.00	50.25 -0.20 0.00	54.37 -0.27 0.00	52.37 -0.26 0.00	45.16 -0.14 0.00	41.82 -0.08 0.00	39.26 -0.08 0.00
E_CANADA_CAP_HY 24051	42.29 2.47 0.00	39.46 2.27 0.00	37.85 2.24 0.00	37.30 2.25 0.00	39.17 2.42 0.00	36.24 2.21 0.00	39.12 2.46 0.00	43.77 2.75 0.00	46.13 3.02 0.00	48.46 3.13 0.00	51.09 3.08 0.00	52.72 3.08 0.00	51.96 3.17 0.00	51.43 3.10 0.00	46.66 2.72 0.00	49.67 3.03 0.00	49.50 3.28 0.00	52.34 3.83 0.00	54.53 4.08 0.00	59.29 4.64 0.00	56.95 4.32 0.00	48.88 3.58 0.00	44.93 3.02 0.00	42.01 2.68 0.00
E_CANADA_MHWK_HY 24050	38.63 -1.19 0.00	35.74 -1.45 0.00	33.83 -1.78 0.00	32.91 -2.14 0.00	34.17 -2.57 0.00	31.68 -2.35 0.00	34.02 -2.64 0.00	37.90 -3.12 0.00	39.79 -3.32 0.00	41.84 -3.49 0.00	44.47 -3.55 0.00	46.02 -3.62 0.00	45.33 -3.46 0.00	45.05 -3.29 0.00	40.90 -3.03 0.00	43.51 -3.12 0.00	43.26 -2.96 0.00	45.55 -2.96 0.00	47.02 -3.43 0.00	51.09 -3.55 0.00	49.21 -3.42 0.00	42.49 -2.81 0.00	39.35 -2.56 0.00	37.05 -2.28 0.00
E_FISHKILL__LBMP 23776	40.66 0.84 0.00	38.05 0.86 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.06 1.72 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.27 1.93 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.30 2.08 0.00	50.84 2.33 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.00 2.37 0.00	47.02 1.72 0.00	43.33 1.42 0.00	40.56 1.22 0.00
FALCON____SEABRD_CC1 323796	40.98 1.16 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.61 0.56 0.00	37.19 0.44 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.11 0.00 0.00	45.38 0.05 0.00	48.26 0.24 0.00	49.54 -0.10 0.00	48.21 -0.58 0.00	47.56 -0.78 0.00	42.96 -0.97 0.00	45.61 -1.03 0.00	45.16 -1.06 0.00	47.40 -1.11 0.00	49.29 -1.16 0.00	53.39 -1.25 0.00	51.73 -0.90 0.00	44.76 -0.54 0.00	41.41 -0.50 0.00	38.82 -0.51 0.00



FALCON___SEABRD_CC2 323797	40.98 1.16 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.61 0.56 0.00	37.19 0.44 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.11 0.00 0.00	45.38 0.05 0.00	48.26 0.24 0.00	49.54 -0.10 0.00	48.21 -0.58 0.00	47.56 -0.78 0.00	42.96 -0.97 0.00	45.61 -1.03 0.00	45.16 -1.06 0.00	47.40 -1.11 0.00	49.29 -1.16 0.00	53.39 -1.25 0.00	51.73 -0.90 0.00	44.76 -0.54 0.00	41.41 -0.50 0.00	38.82 -0.51 0.00
FAR ROCKAWAY___4 23548	41.61 1.79 0.00	38.98 1.79 0.00	37.21 1.60 0.00	36.70 1.65 0.00	38.43 1.69 0.00	35.97 1.94 0.00	38.94 2.27 0.00	43.83 2.79 -0.01	46.39 2.89 -0.39	53.79 2.99 -5.46	51.06 3.03 -0.01	54.16 3.13 -1.39	54.77 3.07 -2.91	55.00 3.14 -3.53	55.48 2.99 -8.56	53.37 3.12 -3.61	55.99 3.33 -6.45	53.71 3.69 -1.52	54.35 3.88 -0.01	59.76 4.15 -0.96	56.54 3.89 -0.01	53.56 2.99 -5.27	47.75 2.68 -3.16	41.79 2.44 -0.01
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.09 3.44 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
FARRAGUT___LBMP 323566	40.97 1.15 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.10 1.36 0.00	35.53 1.50 0.00	38.31 1.65 0.00	42.95 2.11 0.00	45.22 2.27 0.00	47.60 2.21 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.87 1.53 0.00
FENNER___WINDPWR 24204	40.54 0.72 0.00	37.83 0.63 0.00	36.18 0.57 0.00	35.58 0.53 0.00	37.26 0.51 0.00	34.51 0.48 0.00	37.21 0.55 0.00	41.64 0.62 0.00	43.80 0.69 0.00	46.06 0.72 0.00	48.83 0.82 0.00	50.48 0.84 0.00	49.67 0.88 0.00	49.15 0.82 0.00	44.72 0.79 0.00	47.52 0.88 0.00	47.10 0.88 0.00	49.43 0.92 0.00	51.40 0.96 0.00	55.74 1.09 0.00	53.58 0.95 0.00	46.21 0.91 0.00	42.70 0.79 0.00	40.05 0.71 0.00
FIBERTEK___ENERGY 23856	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00
FITZPATRICK____ 23598	39.10 -0.72 0.00	36.53 -0.67 0.00	34.93 -0.68 0.00	34.35 -0.70 0.00	36.01 -0.73 0.00	33.42 -0.61 0.00	36.00 -0.66 0.00	40.37 -0.66 0.00	42.38 -0.73 0.00	44.61 -0.73 0.00	47.25 -0.77 0.00	48.90 -0.74 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.27 -0.66 0.00	45.94 -0.70 0.00	45.48 -0.74 0.00	47.68 -0.82 0.00	49.59 -0.86 0.00	53.66 -0.98 0.00	51.73 -0.90 0.00	44.57 -0.73 0.00	41.32 -0.59 0.00	38.75 -0.59 0.00
FLOWRFLD_69_KV_BK1 356044	41.13 1.31 0.00	38.53 1.34 0.00	36.71 1.10 0.00	36.28 1.23 0.00	37.88 1.14 0.00	35.56 1.53 0.00	38.64 1.98 0.00	43.66 2.63 -0.01	46.07 2.72 -0.24	51.44 2.72 -3.39	50.57 2.54 -0.01	53.13 2.63 -0.86	53.09 2.49 -1.80	53.08 2.56 -2.19	51.79 2.55 -5.32	51.58 2.70 -2.24	53.18 2.96 -4.00	52.94 3.49 -0.94	53.89 3.43 -0.01	59.06 3.83 -0.60	56.11 3.47 -0.01	51.33 2.76 -3.27	46.30 2.43 -1.96	41.43 2.08 -0.01
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	40.93 1.11 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.46 1.43 0.00	38.17 1.50 0.00	42.71 1.68 0.00	45.09 1.98 0.00	47.37 2.04 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.13 2.20 0.00	48.92 2.29 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.37 2.74 0.00	47.34 2.04 0.00	43.63 1.72 0.00	40.87 1.53 0.00
FORT ORANGE____ 23900	40.42 0.60 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.89 0.84 0.00	37.77 1.03 0.00	35.05 1.02 0.00	37.51 0.84 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.10 0.77 0.00	48.69 0.67 0.00	50.48 0.84 0.00	49.62 0.83 0.00	49.20 0.87 0.00	44.76 0.83 0.00	47.52 0.88 0.00	47.28 1.06 0.00	49.77 1.26 0.00	51.81 1.36 0.00	56.06 1.42 0.00	53.84 1.21 0.00	46.16 0.86 0.00	42.49 0.59 0.00	39.89 0.55 0.00
FORT_DRUM_COGEN 23780	39.70 -0.12 0.00	37.05 -0.15 0.00	35.36 -0.25 0.00	34.80 -0.25 0.00	36.16 -0.59 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.20 -0.82 0.00	42.16 -0.95 0.00	44.29 -1.04 0.00	46.91 -1.10 0.00	48.45 -1.19 0.00	47.72 -1.07 0.00	47.32 -1.02 0.00	42.92 -1.01 0.00	45.71 -0.93 0.00	45.39 -0.83 0.00	47.93 -0.58 0.00	50.10 -0.35 0.00	54.48 -0.16 0.00	52.31 -0.32 0.00	45.21 -0.09 0.00	41.57 -0.34 0.00	38.94 -0.39 0.00
FOX_HILLS___ESR 323835	46.40 1.59 -4.99	38.76 1.56 0.00	37.14 1.53 0.00	36.63 1.58 0.00	38.47 1.73 0.00	35.87 1.84 0.00	38.68 2.02 0.00	43.28 2.26 0.00	53.90 2.41 -8.38	54.61 2.54 -6.74	53.92 2.50 -3.40	56.62 2.68 -4.30	56.62 2.68 -5.14	57.88 2.76 -6.79	56.60 2.64 -10.04	57.13 2.66 -7.84	56.87 2.87 -7.79	57.87 3.20 -6.16	57.83 3.28 -4.11	58.30 3.66 0.00	57.84 3.32 -1.90	54.61 2.49 -6.82	54.64 2.18 -10.55	53.85 1.89 -12.62
FPL FAR_ROCK_GT1 24212	41.61 1.79 0.00	38.98 1.79 0.00	37.21 1.60 0.00	36.70 1.65 0.00	38.65 1.91 0.00	35.90 1.87 0.00	38.97 2.31 0.00	43.83 2.79 -0.01	46.43 2.93 -0.39	53.79 2.99 -5.46	51.11 3.08 -0.01	54.25 3.22 -1.39	54.87 3.17 -2.91	55.05 3.19 -3.53	55.48 2.99 -8.56	53.37 3.13 -3.61	55.99 3.33 -6.45	53.71 3.68 -1.52	54.35 3.88 -0.01	59.75 4.15 -0.96	56.48 3.84 -0.01	53.56 2.99 -5.27	47.71 2.64 -3.16	41.79 2.44 -0.01



FPL FAR_ROCK_GT2 23815	41.61 1.79 0.00	38.98 1.79 0.00	37.21 1.60 0.00	36.70 1.65 0.00	38.65 1.91 0.00	35.90 1.87 0.00	38.97 2.31 0.00	43.83 2.79 -0.01	46.43 2.93 -0.39	53.79 2.99 -5.46	51.11 3.08 -0.01	54.25 3.22 -1.39	54.87 3.17 -2.91	55.05 3.19 -3.53	55.48 2.99 -8.56	53.37 3.13 -3.61	55.99 3.33 -6.45	53.71 3.68 -1.52	54.35 3.88 -0.01	59.75 4.15 -0.96	56.48 3.84 -0.01	53.56 2.99 -5.27	47.71 2.64 -3.16	41.79 2.44 -0.01
FRANKLIN_FALL_HYD 24054	40.58 0.76 0.00	37.87 0.67 0.00	36.11 0.50 0.00	35.37 0.32 0.00	36.85 0.11 0.00	34.00 -0.03 0.00	36.55 -0.11 0.00	40.86 -0.16 0.00	42.77 -0.34 0.00	45.02 -0.32 0.00	47.92 -0.10 0.00	49.19 -0.45 0.00	47.96 -0.83 0.00	47.46 -0.87 0.00	42.83 -1.10 0.00	45.47 -1.17 0.00	45.06 -1.16 0.00	47.30 -1.21 0.00	49.14 -1.31 0.00	53.22 -1.42 0.00	51.63 -1.00 0.00	44.62 -0.68 0.00	41.28 -0.63 0.00	38.67 -0.67 0.00
FREEPORT_EQUS_GT1 23764	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.61 0.00	35.67 1.63 0.00	38.75 2.09 0.00	43.58 2.54 -0.01	46.11 2.67 -0.32	52.59 2.72 -4.53	50.72 2.69 -0.01	53.57 2.78 -1.15	53.94 2.73 -2.41	54.01 2.75 -2.93	53.67 2.64 -7.11	52.38 2.75 -2.99	54.57 3.00 -5.35	53.11 3.34 -1.26	53.94 3.48 -0.01	59.21 3.77 -0.80	56.11 3.47 -0.01	52.44 2.76 -4.37	46.92 2.39 -2.62	41.51 2.16 -0.01
FREEPORT___CT2 23818	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.61 0.00	35.67 1.63 0.00	38.75 2.09 0.00	43.58 2.54 -0.01	46.11 2.67 -0.32	52.59 2.72 -4.53	50.72 2.69 -0.01	53.57 2.78 -1.15	53.94 2.73 -2.41	54.01 2.75 -2.93	53.67 2.64 -7.11	52.38 2.75 -2.99	54.57 3.00 -5.35	53.11 3.34 -1.26	53.94 3.48 -0.01	59.21 3.77 -0.80	56.11 3.47 -0.01	52.44 2.76 -4.37	46.92 2.39 -2.62	41.51 2.16 -0.01
FRESHKLS_33_KV_LOAD 356253	46.40 1.59 -4.99	38.80 1.60 0.00	37.14 1.53 0.00	36.63 1.58 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.68 2.02 0.00	43.24 2.22 0.00	53.86 2.37 -8.38	54.56 2.49 -6.74	53.87 2.45 -3.40	56.52 2.58 -4.30	56.52 2.59 -5.14	57.74 2.61 -6.79	56.52 2.55 -10.04	57.04 2.57 -7.84	56.78 2.77 -7.79	57.78 3.10 -6.16	57.78 3.23 -4.11	58.20 3.55 0.00	57.79 3.26 -1.90	54.56 2.45 -6.82	54.60 2.14 -10.55	53.85 1.89 -12.62
FULTON COGEN____ 23766	39.38 -0.44 0.00	36.79 -0.41 0.00	35.15 -0.46 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.59 -0.44 0.00	36.26 -0.40 0.00	40.61 -0.41 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.68 -0.34 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	48.00 -0.34 0.00	43.67 -0.26 0.00	46.36 -0.28 0.00	45.90 -0.32 0.00	48.12 -0.39 0.00	50.04 -0.40 0.00	54.15 -0.49 0.00	52.16 -0.47 0.00	44.94 -0.36 0.00	41.62 -0.29 0.00	39.06 -0.28 0.00
FULTON___LFGE 323630	42.25 2.43 0.00	39.43 2.23 0.00	37.82 2.21 0.00	37.30 2.25 0.00	39.17 2.42 0.00	36.24 2.21 0.00	39.12 2.46 0.00	43.77 2.75 0.00	46.13 3.02 0.00	48.55 3.22 0.00	51.14 3.12 0.00	52.87 3.22 0.00	52.01 3.22 0.00	51.47 3.14 0.00	46.75 2.81 0.00	49.72 3.08 0.00	49.50 3.28 0.00	52.34 3.83 0.00	54.53 4.08 0.00	59.23 4.59 0.00	56.89 4.26 0.00	48.84 3.54 0.00	44.84 2.93 0.00	41.97 2.64 0.00
G.F.CEMENT___DRP 24184	41.65 1.83 0.00	38.91 1.71 0.00	37.35 1.74 0.00	36.84 1.79 0.00	38.80 2.06 0.00	35.94 1.91 0.00	38.72 2.05 0.00	43.36 2.34 0.00	45.74 2.63 0.00	48.24 2.90 0.00	51.00 2.98 0.00	52.82 3.18 0.00	51.96 3.17 0.00	51.38 3.05 0.00	46.74 2.81 0.00	49.62 2.98 0.00	49.27 3.05 0.00	51.90 3.40 0.00	53.93 3.48 0.00	58.52 3.88 0.00	56.21 3.58 0.00	48.11 2.81 0.00	44.17 2.26 0.00	41.34 2.01 0.00
GARDENVILLE___LBMP 24039	39.46 -0.36 0.00	36.75 -0.45 0.00	34.75 -0.85 0.00	34.00 -1.05 0.00	35.53 -1.21 0.00	33.15 -0.88 0.00	36.19 -0.48 0.00	40.53 -0.49 0.00	42.42 -0.69 0.00	44.70 -0.63 0.00	47.35 -0.67 0.00	48.75 -0.89 0.00	47.96 -0.83 0.00	47.51 -0.82 0.00	43.32 -0.62 0.00	45.89 -0.75 0.00	44.97 -1.25 0.00	46.37 -2.13 0.00	48.33 -2.12 0.00	52.13 -2.51 0.00	50.89 -1.74 0.00	44.67 -0.63 0.00	42.20 0.29 0.00	39.81 0.47 0.00
GARDNVLA_35_KV_LD 355827	39.70 -0.12 0.00	36.97 -0.22 0.00	34.97 -0.64 0.00	34.17 -0.88 0.00	35.71 -1.03 0.00	33.32 -0.71 0.00	36.41 -0.26 0.00	40.82 -0.21 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.68 -0.34 0.00	49.09 -0.55 0.00	48.31 -0.49 0.00	47.85 -0.48 0.00	43.62 -0.31 0.00	46.22 -0.42 0.00	45.25 -0.97 0.00	46.67 -1.84 0.00	48.58 -1.87 0.00	52.40 -2.24 0.00	51.16 -1.47 0.00	44.94 -0.36 0.00	42.50 0.59 0.00	40.05 0.71 0.00
GELCKHM__115KV_LOAD 80723	39.70 -0.12 0.00	37.05 -0.15 0.00	35.43 -0.18 0.00	34.84 -0.21 0.00	36.52 -0.22 0.00	33.86 -0.17 0.00	36.59 -0.07 0.00	40.98 -0.04 0.00	43.07 -0.04 0.00	45.38 0.05 0.00	48.07 0.05 0.00	49.74 0.10 0.00	48.94 0.15 0.00	48.43 0.10 0.00	44.02 0.09 0.00	46.78 0.14 0.00	46.27 0.05 0.00	48.51 0.00 0.00	50.40 -0.05 0.00	54.59 -0.05 0.00	52.52 -0.11 0.00	45.30 0.00 0.00	41.95 0.04 0.00	39.38 0.04 0.00
GENERAL___MILLS 23808	39.58 -0.24 0.00	36.86 -0.33 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.60 -1.14 0.00	33.25 -0.78 0.00	36.30 -0.37 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.47 -2.04 0.00	48.43 -2.02 0.00	52.24 -2.40 0.00	51.00 -1.63 0.00	44.80 -0.50 0.00	42.33 0.42 0.00	39.93 0.59 0.00
GE_PLASTICS___DRP 24183	40.34 0.52 0.00	37.72 0.52 0.00	36.25 0.64 0.00	35.79 0.74 0.00	37.70 0.96 0.00	34.95 0.92 0.00	37.47 0.81 0.00	41.84 0.82 0.00	43.97 0.86 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.53 0.89 0.00	49.72 0.93 0.00	49.25 0.92 0.00	44.81 0.88 0.00	47.57 0.93 0.00	47.28 1.06 0.00	49.77 1.26 0.00	51.71 1.26 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.54 0.63 0.00	39.89 0.55 0.00
GILBOA___1 23756	40.38 0.56 0.00	37.75 0.56 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.70 0.95 0.00	34.85 0.82 0.00	37.54 0.88 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.38 1.04 0.00	49.07 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.47 1.25 0.00	49.92 1.41 0.00	51.91 1.46 0.00	56.23 1.59 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.79 0.88 0.00	40.12 0.79 0.00
GILBOA___2 23757	40.38 0.56 0.00	37.75 0.56 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.70 0.95 0.00	34.85 0.82 0.00	37.54 0.88 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.38 1.04 0.00	49.07 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.47 1.25 0.00	49.92 1.41 0.00	51.91 1.46 0.00	56.23 1.59 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.79 0.88 0.00	40.12 0.79 0.00



GILBOA___3 23758	40.38 0.56 0.00	37.75 0.56 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.70 0.95 0.00	34.85 0.82 0.00	37.54 0.88 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.38 1.04 0.00	49.07 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.47 1.25 0.00	49.92 1.41 0.00	51.91 1.46 0.00	56.23 1.59 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.79 0.88 0.00	40.12 0.79 0.00
GILBOA___4 23759	40.38 0.56 0.00	37.75 0.56 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.70 0.95 0.00	34.85 0.82 0.00	37.54 0.88 0.00	41.97 0.94 0.00	44.14 1.03 0.00	46.38 1.04 0.00	49.07 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.47 1.25 0.00	49.92 1.41 0.00	51.91 1.46 0.00	56.23 1.59 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.79 0.88 0.00	40.12 0.79 0.00
GILBOA___ 23599	40.38 0.56 0.00	37.75 0.56 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.81 1.07 0.00	34.88 0.85 0.00	37.54 0.88 0.00	42.01 0.98 0.00	44.15 1.03 0.00	46.38 1.04 0.00	49.03 1.01 0.00	50.78 1.14 0.00	49.96 1.17 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.47 1.25 0.00	49.92 1.41 0.00	51.91 1.46 0.00	56.23 1.58 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.79 0.88 0.00	40.12 0.79 0.00
GINNA___ 23603	37.83 -1.99 0.00	35.26 -1.94 0.00	33.47 -2.14 0.00	32.88 -2.17 0.00	34.50 -2.24 0.00	32.09 -1.94 0.00	34.65 -2.02 0.00	39.06 -1.97 0.00	40.91 -2.20 0.00	43.20 -2.13 0.00	45.86 -2.16 0.00	47.31 -2.33 0.00	46.55 -2.24 0.00	46.11 -2.22 0.00	41.95 -1.98 0.00	44.59 -2.05 0.00	43.86 -2.36 0.00	45.65 -2.86 0.00	47.42 -3.03 0.00	51.20 -3.44 0.00	49.68 -2.95 0.00	42.99 -2.31 0.00	40.19 -1.72 0.00	37.65 -1.69 0.00
GLEN PARK___ 23778	39.82 0.00 0.00	37.16 -0.04 0.00	35.47 -0.14 0.00	34.91 -0.14 0.00	36.30 -0.44 0.00	33.52 -0.51 0.00	36.15 -0.51 0.00	40.33 -0.70 0.00	42.29 -0.82 0.00	44.38 -0.95 0.00	47.06 -0.96 0.00	48.55 -1.09 0.00	47.82 -0.98 0.00	47.41 -0.92 0.00	43.05 -0.88 0.00	45.80 -0.84 0.00	45.53 -0.69 0.00	48.12 -0.39 0.00	50.30 -0.15 0.00	54.75 0.11 0.00	52.52 -0.11 0.00	45.44 0.14 0.00	41.78 -0.13 0.00	39.10 -0.23 0.00
GLENDALE_27_KV_LOAD 356172	41.25 1.43 0.00	38.61 1.41 0.00	37.00 1.39 0.00	36.49 1.44 0.00	38.32 1.58 0.00	35.73 1.70 0.00	38.53 1.87 0.00	43.12 2.09 0.00	45.44 2.33 0.00	47.83 2.49 0.00	50.47 2.45 0.00	52.27 2.63 0.00	51.48 2.68 0.00	51.04 2.71 0.00	46.52 2.59 0.00	49.30 2.66 0.00	49.08 2.87 0.00	51.71 3.20 0.00	53.73 3.28 0.00	58.25 3.61 0.00	55.95 3.32 0.00	47.70 2.40 0.00	43.96 2.05 0.00	41.11 1.77 0.00
GLENWOOD_IC_1_G5 23712	41.25 1.43 0.00	38.65 1.45 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.25 1.51 0.00	35.70 1.67 0.00	38.61 1.94 0.00	43.38 2.34 -0.02	46.03 2.50 -0.41	53.80 2.63 -5.84	50.68 2.64 -0.02	53.86 2.73 -1.48	54.63 2.73 -3.11	54.91 2.80 -3.77	55.73 2.64 -9.16	53.24 2.75 -3.86	56.07 2.96 -6.89	53.43 3.30 -1.62	53.84 3.38 -0.02	59.33 3.66 -1.03	56.01 3.37 -0.02	53.52 2.58 -5.63	47.55 2.26 -3.38	41.32 1.97 -0.02
GLENWOOD_IC_2_G1 23688	41.06 1.24 0.00	38.42 1.23 0.00	36.78 1.17 0.00	36.28 1.23 0.00	38.21 1.47 0.00	35.53 1.50 0.00	38.42 1.76 0.00	43.07 2.05 0.00	45.37 2.24 -0.02	47.90 2.31 -0.25	50.32 2.30 0.00	52.19 2.48 -0.06	51.37 2.44 -0.13	50.96 2.46 -0.16	46.69 2.37 -0.39	49.23 2.42 -0.17	49.15 2.63 -0.30	51.54 2.96 -0.07	53.53 3.08 0.00	58.02 3.33 -0.04	55.63 3.00 0.00	47.81 2.26 -0.24	43.98 1.93 -0.14	41.03 1.69 0.00
GLENWOOD_IC_3_G1 23689	41.06 1.24 0.00	38.42 1.23 0.00	36.78 1.17 0.00	36.28 1.23 0.00	38.21 1.47 0.00	35.53 1.50 0.00	38.42 1.76 0.00	43.07 2.05 0.00	45.37 2.24 -0.02	47.90 2.31 -0.25	50.32 2.30 0.00	52.19 2.48 -0.06	51.37 2.44 -0.13	50.96 2.46 -0.16	46.69 2.37 -0.39	49.23 2.42 -0.17	49.15 2.63 -0.30	51.54 2.96 -0.07	53.53 3.08 0.00	58.02 3.33 -0.04	55.63 3.00 0.00	47.81 2.26 -0.24	43.98 1.93 -0.14	41.03 1.69 0.00
GLENWOOD___4 23550	41.25 1.43 0.00	38.65 1.45 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.25 1.51 0.00	35.70 1.67 0.00	38.61 1.94 0.00	43.38 2.34 -0.02	46.03 2.50 -0.41	53.80 2.63 -5.84	50.68 2.64 -0.02	53.86 2.73 -1.48	54.63 2.73 -3.11	54.91 2.80 -3.77	55.73 2.64 -9.16	53.24 2.75 -3.86	56.07 2.96 -6.89	53.43 3.30 -1.62	53.84 3.38 -0.02	59.33 3.66 -1.03	56.01 3.37 -0.02	53.52 2.58 -5.63	47.55 2.26 -3.38	41.32 1.97 -0.02
GLENWOOD___5 23614	41.25 1.43 0.00	38.65 1.45 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.25 1.51 0.00	35.70 1.67 0.00	38.61 1.94 0.00	43.38 2.34 -0.02	46.03 2.50 -0.41	53.80 2.63 -5.84	50.68 2.64 -0.02	53.86 2.73 -1.48	54.63 2.73 -3.11	54.91 2.80 -3.77	55.73 2.64 -9.16	53.24 2.75 -3.86	56.07 2.96 -6.89	53.43 3.30 -1.62	53.84 3.38 -0.02	59.33 3.66 -1.03	56.01 3.37 -0.02	53.52 2.58 -5.63	47.55 2.26 -3.38	41.32 1.97 -0.02
GLOBAL GREEN_PORT_GT1 23814	40.90 1.08 0.00	38.35 1.15 0.00	36.43 0.82 0.00	35.89 0.84 0.00	37.77 1.03 0.00	35.12 1.09 0.00	38.35 1.69 0.00	43.41 2.38 -0.01	45.81 2.46 -0.24	51.15 2.45 -3.37	49.75 1.73 -0.01	52.83 2.33 -0.86	52.88 2.29 -1.80	52.74 2.22 -2.18	51.42 2.20 -5.29	51.10 2.24 -2.23	52.60 2.40 -3.98	52.36 2.91 -0.94	53.13 2.67 -0.01	58.40 3.17 -0.59	55.37 2.74 -0.01	50.54 1.99 -3.25	45.58 1.72 -1.95	41.08 1.73 -0.01
GLOBE___DSASP 323697	38.82 -1.00 0.00	36.19 -1.00 0.00	34.22 -1.39 0.00	33.47 -1.58 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.49 -1.17 0.00	39.55 -1.48 0.00	41.39 -1.72 0.00	43.57 -1.77 0.00	46.15 -1.87 0.00	47.51 -2.13 0.00	46.74 -2.05 0.00	46.30 -2.03 0.00	42.13 -1.80 0.00	44.68 -1.96 0.00	43.68 -2.54 0.00	44.92 -3.59 0.00	46.77 -3.68 0.00	50.38 -4.26 0.00	49.16 -3.47 0.00	43.17 -2.13 0.00	40.90 -1.01 0.00	38.51 -0.83 0.00
GOETHSLN___LBMP 323567	40.78 0.96 0.00	38.16 0.97 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.36 1.33 0.00	38.13 1.47 0.00	42.79 1.76 0.00	44.96 1.85 0.00	47.37 2.04 0.00	49.99 1.97 0.00	51.73 2.08 0.00	50.94 2.15 0.00	50.51 2.18 0.00	46.04 2.11 0.00	48.78 2.15 0.00	48.58 2.36 0.00	51.18 2.67 0.00	53.17 2.72 0.00	57.70 3.06 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.54 1.63 0.00	40.67 1.34 0.00
GOLAH___69_KV_TB 1_2 80279	39.42 -0.40 0.00	36.71 -0.48 0.00	34.90 -0.71 0.00	34.24 -0.81 0.00	35.86 -0.88 0.00	33.42 -0.61 0.00	36.26 -0.40 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.95 -0.69 0.00	48.16 -0.63 0.00	47.71 -0.63 0.00	43.40 -0.53 0.00	46.08 -0.56 0.00	45.25 -0.97 0.00	46.91 -1.60 0.00	48.93 -1.51 0.00	52.95 -1.69 0.00	51.42 -1.21 0.00	44.71 -0.59 0.00	41.95 0.04 0.00	39.46 0.12 0.00



GOODYEAR_LAKE_HYD 323669	41.17 1.35 0.00	38.46 1.26 0.00	36.86 1.25 0.00	36.35 1.30 0.00	38.14 1.40 0.00	35.26 1.23 0.00	38.06 1.39 0.00	42.58 1.56 0.00	44.88 1.77 0.00	47.19 1.86 0.00	49.99 1.97 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.41 2.08 0.00	45.82 1.89 0.00	48.64 2.01 0.00	48.25 2.03 0.00	50.74 2.23 0.00	52.82 2.37 0.00	57.27 2.62 0.00	55.00 2.37 0.00	47.34 2.04 0.00	43.67 1.76 0.00	40.95 1.61 0.00
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	40.10 0.28 0.00	37.46 0.26 0.00	35.75 0.14 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.17 0.14 0.00	36.96 0.29 0.00	41.35 0.33 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.45 0.43 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.06 0.42 0.00	46.54 0.32 0.00	48.75 0.24 0.00	50.80 0.35 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.80 0.50 0.00	42.50 0.59 0.00	39.97 0.63 0.00
GOUDEY___7 23579	40.10 0.28 0.00	37.46 0.26 0.00	35.75 0.14 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.17 0.14 0.00	36.96 0.29 0.00	41.35 0.33 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.45 0.43 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.06 0.42 0.00	46.54 0.32 0.00	48.75 0.24 0.00	50.80 0.35 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.80 0.50 0.00	42.50 0.59 0.00	39.97 0.63 0.00
GOUDEY___8 23580	40.10 0.28 0.00	37.46 0.26 0.00	35.75 0.14 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.17 0.14 0.00	36.96 0.29 0.00	41.35 0.33 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.45 0.43 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.06 0.42 0.00	46.54 0.32 0.00	48.75 0.24 0.00	50.80 0.35 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.80 0.50 0.00	42.50 0.59 0.00	39.97 0.63 0.00
GOWANUS_GT1_1 24077	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_2 24078	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_3 24079	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_4 24080	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_5 24084	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_6 24111	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_7 24112	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT1_8 24113	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT2_1 24114	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_2 24115	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_3 24116	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63



GOWANUS_GT2_4 24117	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_5 24118	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_6 24119	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_7 24120	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT2_8 24121	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_1 24122	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_2 24123	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_3 24124	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_4 24125	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_5 24126	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_6 24127	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_7 24128	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT3_8 24129	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
GOWANUS_GT4_1 24130	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_2 24131	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62



GOWANUS_GT4_3 24132	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_4 24133	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_5 24134	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_6 24135	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_7 24136	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GOWANUS_GT4_8 24137	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GREENBSH_115KV_TB3 55895	40.26 0.44 0.00	37.64 0.45 0.00	36.18 0.57 0.00	35.72 0.67 0.00	37.62 0.88 0.00	34.95 0.92 0.00	37.32 0.66 0.00	41.68 0.66 0.00	43.76 0.65 0.00	45.92 0.59 0.00	48.55 0.53 0.00	50.29 0.65 0.00	49.48 0.68 0.00	49.06 0.73 0.00	44.63 0.70 0.00	47.38 0.75 0.00	47.10 0.88 0.00	49.58 1.07 0.00	51.51 1.06 0.00	55.79 1.15 0.00	53.58 0.95 0.00	45.89 0.59 0.00	42.29 0.38 0.00	39.69 0.35 0.00
GREENIDGE_115KV_TB5 80291	40.22 0.40 0.00	37.49 0.30 0.00	35.65 0.04 0.00	34.94 -0.11 0.00	36.60 -0.15 0.00	34.00 -0.03 0.00	36.85 0.18 0.00	41.27 0.25 0.00	43.28 0.17 0.00	45.65 0.32 0.00	48.35 0.34 0.00	49.94 0.30 0.00	49.09 0.29 0.00	48.48 0.14 0.00	44.15 0.22 0.00	47.01 0.37 0.00	46.45 0.23 0.00	48.61 0.10 0.00	50.70 0.25 0.00	54.42 -0.22 0.00	52.58 -0.05 0.00	45.89 0.59 0.00	42.70 0.80 0.00	40.16 0.83 0.00
GREENIDGE___3 23582	40.22 0.40 0.00	37.49 0.30 0.00	35.65 0.04 0.00	34.94 -0.11 0.00	36.60 -0.15 0.00	34.00 -0.03 0.00	36.85 0.18 0.00	41.27 0.25 0.00	43.28 0.17 0.00	45.65 0.32 0.00	48.35 0.34 0.00	49.94 0.30 0.00	49.09 0.29 0.00	48.48 0.14 0.00	44.15 0.22 0.00	47.01 0.37 0.00	46.45 0.23 0.00	48.61 0.10 0.00	50.70 0.25 0.00	54.42 -0.22 0.00	52.58 -0.05 0.00	45.89 0.59 0.00	42.70 0.80 0.00	40.16 0.83 0.00
GREENIDGE___4 23583	40.22 0.40 0.00	37.49 0.30 0.00	35.65 0.04 0.00	34.95 -0.10 0.00	36.63 -0.11 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.27 0.25 0.00	43.28 0.17 0.00	45.65 0.32 0.00	48.36 0.34 0.00	49.89 0.25 0.00	49.09 0.29 0.00	48.48 0.15 0.00	44.15 0.22 0.00	47.01 0.37 0.00	46.45 0.23 0.00	48.66 0.15 0.00	50.70 0.25 0.00	54.43 -0.22 0.00	53.00 0.37 0.00	45.89 0.59 0.00	42.70 0.79 0.00	40.16 0.83 0.00
GREENLWN_69_KV_BK 3 55738	41.33 1.51 0.00	38.72 1.53 0.00	36.93 1.32 0.00	36.45 1.40 0.00	38.18 1.43 0.00	35.73 1.70 0.00	38.75 2.09 0.00	43.66 2.63 -0.01	46.11 2.76 -0.24	51.64 2.86 -3.45	50.76 2.74 -0.01	53.35 2.83 -0.88	53.41 2.78 -1.84	53.41 2.85 -2.23	52.07 2.72 -5.41	51.76 2.84 -2.28	53.39 3.10 -4.07	53.01 3.54 -0.96	54.04 3.58 -0.01	59.13 3.88 -0.61	56.22 3.58 -0.01	51.44 2.81 -3.33	46.38 2.47 -2.00	41.55 2.20 -0.01
GREENWD_138_KV_38B11_REV_LBMP_J 345004	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62
GRISSOM___SOLAR 323813	42.05 2.23 0.00	39.28 2.08 0.00	37.67 2.06 0.00	37.15 2.10 0.00	39.02 2.28 0.00	36.14 2.11 0.00	38.97 2.31 0.00	43.61 2.59 0.00	45.96 2.84 0.00	48.37 3.04 0.00	50.95 2.93 0.00	52.67 3.03 0.00	51.87 3.08 0.00	51.33 3.00 0.00	46.61 2.68 0.00	49.58 2.94 0.00	49.32 3.10 0.00	52.10 3.59 0.00	54.28 3.83 0.00	58.96 4.32 0.00	56.63 4.00 0.00	48.56 3.26 0.00	44.63 2.72 0.00	41.78 2.44 0.00
GROVEVILLE___HYD 323602	40.93 1.11 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.46 1.43 0.00	38.17 1.50 0.00	42.71 1.68 0.00	45.09 1.98 0.00	47.37 2.04 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.13 2.20 0.00	48.92 2.29 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.37 2.74 0.00	47.34 2.04 0.00	43.63 1.72 0.00	40.87 1.53 0.00
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00



HAMLTNNY_34_KV_TB 80303	40.02 0.20 0.00	37.38 0.19 0.00	35.68 0.07 0.00	35.08 0.04 0.00	36.78 0.04 0.00	34.13 0.10 0.00	36.88 0.22 0.00	41.31 0.29 0.00	43.41 0.30 0.00	45.79 0.45 0.00	48.50 0.48 0.00	50.19 0.55 0.00	49.38 0.59 0.00	48.87 0.53 0.00	44.41 0.48 0.00	47.20 0.56 0.00	46.68 0.46 0.00	48.90 0.39 0.00	50.85 0.40 0.00	55.03 0.38 0.00	52.95 0.32 0.00	45.71 0.41 0.00	42.33 0.42 0.00	39.73 0.39 0.00
HAMPSHIRE___PAPER_HYD 323593	38.91 -0.91 0.00	36.34 -0.85 0.00	34.75 -0.85 0.00	34.18 -0.87 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.39 -1.95 0.00	46.00 -2.01 0.00	47.46 -2.18 0.00	46.60 -2.19 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.71 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
HARDSCRABBLE_WT_PWR 323673	38.83 -0.99 0.00	35.97 -1.23 0.00	34.01 -1.60 0.00	33.09 -1.96 0.00	34.39 -2.35 0.00	31.85 -2.18 0.00	34.21 -2.46 0.00	38.11 -2.91 0.00	40.01 -3.10 0.00	42.12 -3.22 0.00	44.71 -3.31 0.00	46.26 -3.38 0.00	45.57 -3.22 0.00	45.29 -3.04 0.00	41.16 -2.77 0.00	43.75 -2.89 0.00	43.49 -2.73 0.00	45.79 -2.72 0.00	47.27 -3.18 0.00	51.37 -3.28 0.00	49.47 -3.16 0.00	42.72 -2.58 0.00	39.56 -2.35 0.00	37.25 -2.09 0.00
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	40.74 0.92 0.00	38.13 0.93 0.00	36.54 0.93 0.00	36.07 1.02 0.00	37.88 1.14 0.00	35.22 1.19 0.00	37.95 1.28 0.00	42.50 1.48 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.80 1.78 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.55 1.91 0.00	48.30 2.08 0.00	50.89 2.38 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.00 2.37 0.00	47.02 1.72 0.00	43.38 1.47 0.00	40.60 1.26 0.00
HARSNRAD_115KV_TB1 81005	38.90 -0.92 0.00	36.27 -0.93 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.64 -1.03 0.00	40.00 -1.03 0.00	41.82 -1.29 0.00	44.06 -1.27 0.00	46.67 -1.34 0.00	48.05 -1.59 0.00	47.28 -1.51 0.00	46.79 -1.55 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.60 -2.91 0.00	47.52 -2.93 0.00	51.20 -3.44 0.00	49.95 -2.68 0.00	43.85 -1.45 0.00	41.49 -0.42 0.00	39.18 -0.16 0.00
HARZA MOOSE___RIVER 24016	40.14 0.32 0.00	37.46 0.26 0.00	35.82 0.21 0.00	35.26 0.21 0.00	36.63 -0.11 0.00	33.86 -0.17 0.00	36.48 -0.18 0.00	40.78 -0.25 0.00	42.85 -0.26 0.00	45.02 -0.32 0.00	47.73 -0.29 0.00	49.29 -0.35 0.00	48.50 -0.29 0.00	48.04 -0.29 0.00	43.67 -0.26 0.00	46.40 -0.23 0.00	46.08 -0.14 0.00	48.46 -0.05 0.00	50.50 0.05 0.00	54.81 0.16 0.00	52.63 0.00 0.00	45.39 0.09 0.00	41.87 -0.04 0.00	39.26 -0.08 0.00
HDSNBRDG_115KV_BRDG_TB1 355580	39.70 -0.12 0.00	37.08 -0.11 0.00	35.43 -0.18 0.00	34.84 -0.21 0.00	36.52 -0.22 0.00	33.90 -0.14 0.00	36.59 -0.07 0.00	40.98 -0.04 0.00	43.07 -0.04 0.00	45.38 0.05 0.00	48.11 0.10 0.00	49.79 0.15 0.00	48.99 0.20 0.00	48.43 0.10 0.00	44.06 0.13 0.00	46.82 0.19 0.00	46.31 0.09 0.00	48.51 0.00 0.00	50.45 0.00 0.00	54.59 -0.05 0.00	52.58 -0.05 0.00	45.35 0.05 0.00	41.99 0.08 0.00	39.42 0.08 0.00
HELLGATE_13_KV_LD 55870	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.18 1.43 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	41.09 1.27 0.00	38.46 1.26 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.18 1.43 0.00	35.60 1.57 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.18 2.16 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.57 0.00
HEMPSTEAD____ 23647	41.13 1.31 0.00	38.53 1.34 0.00	36.78 1.17 0.00	36.31 1.26 0.00	38.25 1.51 0.00	35.57 1.53 0.00	38.57 1.91 0.00	43.33 2.30 -0.01	45.92 2.46 -0.36	52.91 2.54 -5.04	50.53 2.50 -0.01	53.50 2.58 -1.28	54.06 2.58 -2.68	54.19 2.61 -3.25	54.29 2.46 -7.90	52.53 2.56 -3.32	54.94 2.77 -5.94	53.02 3.11 -1.40	53.69 3.23 -0.01	59.03 3.50 -0.89	55.80 3.16 -0.01	52.65 2.49 -4.86	47.00 2.18 -2.91	41.28 1.93 -0.01
HEWLETT_69_KV_BK3 55828	41.45 1.63 0.00	38.83 1.64 0.00	37.03 1.42 0.00	36.56 1.51 0.00	38.29 1.54 0.00	35.80 1.77 0.00	38.79 2.13 0.00	43.66 2.63 -0.01	46.17 2.67 -0.39	53.56 2.77 -5.46	50.82 2.79 -0.01	53.86 2.83 -1.39	54.48 2.78 -2.91	54.71 2.85 -3.53	55.22 2.72 -8.56	53.09 2.84 -3.61	55.71 3.05 -6.45	53.47 3.44 -1.52	54.04 3.58 -0.01	59.43 3.83 -0.96	56.22 3.58 -0.01	53.33 2.76 -5.27	47.50 2.43 -3.16	41.59 2.24 -0.01
HICKLING___1 23621	40.10 0.28 0.00	37.38 0.19 0.00	35.54 -0.07 0.00	34.84 -0.21 0.00	36.45 -0.29 0.00	33.86 -0.17 0.00	36.70 0.04 0.00	40.98 -0.04 0.00	42.98 -0.13 0.00	45.33 0.00 0.00	48.07 0.05 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.19 -0.15 0.00	43.89 -0.04 0.00	46.68 0.05 0.00	46.08 -0.14 0.00	48.17 -0.34 0.00	50.25 -0.20 0.00	54.37 -0.27 0.00	52.58 -0.05 0.00	45.71 0.41 0.00	42.58 0.67 0.00	40.16 0.83 0.00
HICKLING___2 23622	40.10 0.28 0.00	37.38 0.19 0.00	35.54 -0.07 0.00	34.84 -0.21 0.00	36.45 -0.29 0.00	33.86 -0.17 0.00	36.70 0.04 0.00	40.98 -0.04 0.00	42.98 -0.13 0.00	45.33 0.00 0.00	48.07 0.05 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.19 -0.15 0.00	43.89 -0.04 0.00	46.68 0.05 0.00	46.08 -0.14 0.00	48.17 -0.34 0.00	50.25 -0.20 0.00	54.37 -0.27 0.00	52.58 -0.05 0.00	45.71 0.41 0.00	42.58 0.67 0.00	40.16 0.83 0.00
HIGH FALLS___HY 23754	40.78 0.96 0.00	38.16 0.97 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.88 1.77 0.00	47.15 1.81 0.00	49.80 1.78 0.00	51.58 1.94 0.00	50.74 1.95 0.00	50.32 1.98 0.00	45.86 1.93 0.00	48.64 2.01 0.00	48.48 2.26 0.00	51.08 2.57 0.00	53.12 2.67 0.00	57.59 2.95 0.00	55.26 2.63 0.00	47.20 1.90 0.00	43.54 1.63 0.00	40.79 1.46 0.00
HIGH_RIVER___SOLAR 323847	41.21 1.39 0.00	38.50 1.30 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.32 1.58 0.00	35.49 1.46 0.00	38.24 1.58 0.00	42.75 1.72 0.00	45.01 1.89 0.00	47.15 1.82 0.00	49.74 1.73 0.00	51.43 1.85 0.00	50.65 1.84 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.51 1.87 0.00	48.25 2.03 0.00	50.93 2.42 0.00	53.07 2.62 0.00	57.59 2.95 0.00	55.31 2.68 0.00	47.48 2.17 0.00	43.71 1.80 0.00	40.91 1.58 0.00



HILLBURN___GT 23639	40.69 0.87 0.00	38.09 0.89 0.00	36.53 0.92 0.00	36.03 0.98 0.00	37.95 1.21 0.00	35.22 1.19 0.00	38.02 1.36 0.00	42.54 1.52 0.00	44.84 1.73 0.00	47.15 1.82 0.00	49.84 1.82 0.00	51.57 1.93 0.00	50.75 1.95 0.00	50.27 1.94 0.00	45.82 1.89 0.00	48.55 1.91 0.00	48.30 2.08 0.00	50.84 2.33 0.00	52.92 2.47 0.00	57.37 2.73 0.00	55.05 2.42 0.00	47.07 1.76 0.00	43.37 1.47 0.00	40.60 1.26 0.00
HILLSIDE_115KV_TB1 80332	39.62 -0.20 0.00	36.94 -0.26 0.00	35.15 -0.46 0.00	34.49 -0.56 0.00	36.12 -0.62 0.00	33.56 -0.48 0.00	36.37 -0.29 0.00	40.61 -0.41 0.00	42.59 -0.52 0.00	44.88 -0.45 0.00	47.59 -0.43 0.00	49.04 -0.60 0.00	48.21 -0.59 0.00	47.66 -0.68 0.00	43.40 -0.53 0.00	46.12 -0.51 0.00	45.57 -0.65 0.00	47.64 -0.87 0.00	49.69 -0.76 0.00	53.82 -0.82 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.03 0.13 0.00	39.61 0.28 0.00
HISHELDN_WT_PWR 323625	39.02 -0.80 0.00	36.19 -1.00 0.00	34.26 -1.35 0.00	33.47 -1.58 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.42 -1.60 0.00	41.17 -1.94 0.00	43.47 -1.86 0.00	46.05 -1.97 0.00	47.46 -2.18 0.00	46.79 -2.00 0.00	46.31 -2.03 0.00	42.22 -1.71 0.00	45.14 -1.49 0.00	44.37 -1.85 0.00	46.13 -2.38 0.00	48.08 -2.37 0.00	51.91 -2.73 0.00	50.63 -2.00 0.00	44.30 -1.00 0.00	41.70 -0.21 0.00	39.38 0.04 0.00
HOLTSVILLE_IC_1 23690	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
HOLTSVILLE_IC_10 23699	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.31 2.58 -3.39	50.43 2.40 -0.01	52.98 2.48 -0.86	52.99 2.39 -1.81	52.94 2.42 -2.19	51.66 2.41 -5.32	51.39 2.52 -2.24	53.00 2.77 -4.00	52.70 3.25 -0.94	53.69 3.23 -0.01	58.79 3.55 -0.60	55.90 3.26 -0.01	51.15 2.58 -3.27	46.13 2.26 -1.96	41.31 1.97 -0.01
HOLTSVILLE_IC_2 23691	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
HOLTSVILLE_IC_3 23692	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
HOLTSVILLE_IC_4 23693	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
HOLTSVILLE_IC_5 23694	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
HOLTSVILLE_IC_6 23695	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.31 2.58 -3.39	50.43 2.40 -0.01	52.98 2.48 -0.86	52.99 2.39 -1.81	52.94 2.42 -2.19	51.66 2.41 -5.32	51.39 2.52 -2.24	53.00 2.77 -4.00	52.70 3.25 -0.94	53.69 3.23 -0.01	58.79 3.55 -0.60	55.90 3.26 -0.01	51.15 2.58 -3.27	46.13 2.26 -1.96	41.31 1.97 -0.01
HOLTSVILLE_IC_7 23696	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.31 2.58 -3.39	50.43 2.40 -0.01	52.98 2.48 -0.86	52.99 2.39 -1.81	52.94 2.42 -2.19	51.66 2.41 -5.32	51.39 2.52 -2.24	53.00 2.77 -4.00	52.70 3.25 -0.94	53.69 3.23 -0.01	58.79 3.55 -0.60	55.90 3.26 -0.01	51.15 2.58 -3.27	46.13 2.26 -1.96	41.31 1.97 -0.01
HOLTSVILLE_IC_8 23697	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.31 2.58 -3.39	50.43 2.40 -0.01	52.98 2.48 -0.86	52.99 2.39 -1.81	52.94 2.42 -2.19	51.66 2.41 -5.32	51.39 2.52 -2.24	53.00 2.77 -4.00	52.70 3.25 -0.94	53.69 3.23 -0.01	58.79 3.55 -0.60	55.90 3.26 -0.01	51.15 2.58 -3.27	46.13 2.26 -1.96	41.31 1.97 -0.01
HOLTSVILLE_IC_9 23698	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.31 2.58 -3.39	50.43 2.40 -0.01	52.98 2.48 -0.86	52.99 2.39 -1.81	52.94 2.42 -2.19	51.66 2.41 -5.32	51.39 2.52 -2.24	53.00 2.77 -4.00	52.70 3.25 -0.94	53.69 3.23 -0.01	58.79 3.55 -0.60	55.90 3.26 -0.01	51.15 2.58 -3.27	46.13 2.26 -1.96	41.31 1.97 -0.01
HOMER_HL_115KV_TB2 355744	39.62 -0.20 0.00	36.90 -0.30 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.71 -1.03 0.00	33.25 -0.78 0.00	36.26 -0.40 0.00	40.49 -0.53 0.00	42.38 -0.73 0.00	44.65 -0.68 0.00	47.35 -0.67 0.00	48.65 -0.99 0.00	47.82 -0.98 0.00	47.37 -0.97 0.00	43.23 -0.70 0.00	45.80 -0.84 0.00	45.06 -1.16 0.00	46.81 -1.70 0.00	48.93 -1.51 0.00	52.95 -1.69 0.00	51.58 -1.05 0.00	45.12 -0.18 0.00	42.37 0.46 0.00	40.05 0.71 0.00
HOWARD_WT_PWR 323690	40.10 0.28 0.00	37.23 0.04 0.00	35.25 -0.36 0.00	34.42 -0.63 0.00	35.93 -0.81 0.00	33.45 -0.58 0.00	36.04 -0.62 0.00	40.24 -0.78 0.00	42.08 -1.04 0.00	44.43 -0.91 0.00	47.01 -1.01 0.00	48.50 -1.14 0.00	47.82 -0.98 0.00	47.17 -1.16 0.00	43.01 -0.92 0.00	46.03 -0.61 0.00	45.43 -0.79 0.00	47.59 -0.92 0.00	49.74 -0.71 0.00	53.93 -0.71 0.00	52.47 -0.16 0.00	45.75 0.45 0.00	42.83 0.92 0.00	40.36 1.02 0.00



HQ_GEN_CEDARS 23644	39.90 0.08 0.00	37.31 0.11 0.00	35.68 0.07 0.00	35.05 0.00 0.00	36.60 -0.15 0.00	33.76 -0.27 0.00	36.30 -0.37 0.00	40.57 -0.45 0.00	42.59 -0.52 0.00	44.74 -0.59 0.00	47.49 -0.53 0.00	48.95 -0.69 0.00	48.06 -0.73 0.00	47.66 -0.68 0.00	43.14 -0.79 0.00	45.80 -0.84 0.00	45.39 -0.83 0.00	47.59 -0.92 0.00	49.49 -0.96 0.00	53.60 -1.04 0.00	51.84 -0.79 0.00	44.71 -0.59 0.00	41.41 -0.50 0.00	38.94 -0.39 0.00
HQ_GEN_CEDARS_PROXY 323590	39.90 0.08 0.00	37.31 0.11 0.00	35.68 0.07 0.00	35.05 0.00 0.00	34.72 -0.15 1.88	34.22 -0.27 -0.46	37.72 -0.37 -1.42	40.57 -0.45 0.00	43.79 -0.52 -1.20	43.55 -0.59 1.20	47.49 -0.53 0.00	48.99 -0.65 0.00	48.06 -0.73 0.00	47.66 -0.68 0.00	43.14 -0.79 0.00	45.80 -0.84 0.00	45.39 -0.83 0.00	47.59 -0.92 0.00	49.49 -0.96 0.00	53.60 -1.04 0.00	51.84 -0.79 0.00	44.71 -0.59 0.00	41.41 -0.50 0.00	38.94 -0.39 0.00
HQ_GEN_IMPORT 323601	39.86 0.04 0.00	37.23 0.04 0.00	35.65 0.04 0.00	35.05 0.00 0.00	34.79 -0.07 1.88	34.36 -0.14 -0.46	37.94 -0.15 -1.42	40.82 -0.20 0.00	44.05 -0.26 -1.20	43.87 -0.27 1.20	47.78 -0.24 0.00	49.34 -0.30 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.53 -0.40 0.00	46.22 -0.42 0.00	45.80 -0.42 0.00	48.02 -0.49 0.00	49.94 -0.50 0.00	54.15 -0.49 0.00	52.21 -0.42 0.00	44.99 -0.31 0.00	41.66 -0.25 0.00	39.10 -0.23 0.00
HQ_GEN_WHEEL 23651	39.86 0.04 0.00	37.23 0.04 0.00	35.65 0.04 0.00	35.05 0.00 0.00	34.79 -0.07 1.88	34.36 -0.14 -0.46	37.94 -0.15 -1.42	40.82 -0.20 0.00	44.05 -0.26 -1.20	43.87 -0.27 1.20	47.78 -0.24 0.00	49.34 -0.30 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.53 -0.40 0.00	46.22 -0.42 0.00	45.80 -0.42 0.00	48.02 -0.49 0.00	49.94 -0.50 0.00	54.15 -0.49 0.00	52.21 -0.42 0.00	44.99 -0.31 0.00	41.66 -0.25 0.00	39.10 -0.23 0.00
HUDSON_AVE_GT_3 23810	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.09 3.44 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
HUDSON_AVE_GT_4 23540	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.09 3.44 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
HUDSON_AVE_GT_5 23657	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.09 3.44 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
HUDSON_AVE_10 24168	40.93 1.11 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.03 1.29 0.00	35.46 1.43 0.00	38.24 1.58 0.00	42.87 1.85 0.00	45.14 2.03 0.00	47.51 2.18 0.00	50.13 2.11 0.00	51.97 2.33 0.00	51.14 2.34 0.00	50.75 2.42 0.00	46.22 2.28 0.00	48.97 2.33 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.37 2.93 0.00	57.98 3.33 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.71 1.80 0.00	40.83 1.49 0.00
HUDSON___115KV_TB 4 355613	40.89 1.08 0.00	38.24 1.04 0.00	36.75 1.14 0.00	36.28 1.23 0.00	38.21 1.47 0.00	35.43 1.40 0.00	37.87 1.21 0.00	42.25 1.23 0.00	44.45 1.34 0.00	46.60 1.27 0.00	49.17 1.15 0.00	50.93 1.29 0.00	50.11 1.32 0.00	49.64 1.31 0.00	45.20 1.27 0.00	47.99 1.35 0.00	47.84 1.62 0.00	50.45 1.94 0.00	52.47 2.02 0.00	56.88 2.24 0.00	54.58 1.95 0.00	46.75 1.45 0.00	43.08 1.17 0.00	40.40 1.06 0.00
HUNTER MOUNT___DRP 323613	41.05 1.23 0.00	38.42 1.23 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.62 0.00	35.53 1.50 0.00	37.98 1.32 0.00	42.38 1.35 0.00	44.58 1.47 0.00	46.74 1.41 0.00	49.36 1.34 0.00	51.08 1.44 0.00	50.26 1.46 0.00	49.78 1.45 0.00	45.34 1.41 0.00	48.18 1.54 0.00	47.98 1.76 0.00	50.64 2.13 0.00	52.72 2.27 0.00	57.05 2.40 0.00	54.73 2.11 0.00	46.89 1.59 0.00	43.21 1.30 0.00	40.60 1.26 0.00
HUNTINGTON_RES_REC 323705	41.21 1.39 0.00	38.61 1.41 0.00	36.78 1.17 0.00	36.31 1.26 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.71 2.05 0.00	43.62 2.59 -0.01	46.07 2.72 -0.24	51.51 2.77 -3.41	50.67 2.64 -0.01	53.23 2.73 -0.87	53.29 2.68 -1.81	53.29 2.75 -2.20	51.91 2.64 -5.34	51.64 2.75 -2.25	53.24 3.00 -4.02	52.95 3.49 -0.95	53.94 3.48 -0.01	59.07 3.82 -0.60	56.11 3.47 -0.01	51.35 2.76 -3.28	46.31 2.43 -1.97	41.47 2.12 -0.01
HUNTLEY___63 23557	39.42 -0.40 0.00	36.75 -0.45 0.00	34.72 -0.89 0.00	33.96 -1.09 0.00	35.49 -1.25 0.00	33.15 -0.88 0.00	36.08 -0.59 0.00	40.41 -0.62 0.00	42.25 -0.86 0.00	44.52 -0.82 0.00	47.15 -0.86 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.10 -0.83 0.00	45.71 -0.93 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.93 -2.52 0.00	51.64 -3.01 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.91 0.00 0.00	39.53 0.20 0.00
HUNTLEY___64 23558	39.42 -0.40 0.00	36.75 -0.45 0.00	34.72 -0.89 0.00	33.96 -1.09 0.00	35.49 -1.25 0.00	33.15 -0.88 0.00	36.08 -0.59 0.00	40.41 -0.62 0.00	42.25 -0.86 0.00	44.52 -0.82 0.00	47.15 -0.86 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.10 -0.83 0.00	45.71 -0.93 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.93 -2.52 0.00	51.64 -3.01 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.91 0.00 0.00	39.53 0.20 0.00
HUNTLEY___65 23559	39.42 -0.40 0.00	36.75 -0.45 0.00	34.72 -0.89 0.00	33.96 -1.09 0.00	35.49 -1.25 0.00	33.15 -0.88 0.00	36.08 -0.59 0.00	40.41 -0.62 0.00	42.25 -0.86 0.00	44.52 -0.82 0.00	47.15 -0.86 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.10 -0.83 0.00	45.71 -0.93 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.93 -2.52 0.00	51.64 -3.01 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.91 0.00 0.00	39.53 0.20 0.00
HUNTLEY___66 23560	39.42 -0.40 0.00	36.75 -0.45 0.00	34.72 -0.89 0.00	33.96 -1.09 0.00	35.49 -1.25 0.00	33.15 -0.88 0.00	36.08 -0.59 0.00	40.41 -0.62 0.00	42.25 -0.86 0.00	44.52 -0.82 0.00	47.15 -0.86 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.10 -0.83 0.00	45.71 -0.93 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.93 -2.52 0.00	51.64 -3.01 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.91 0.00 0.00	39.53 0.20 0.00



HUNTLEY___67 23561	39.10 -0.72 0.00	36.45 -0.74 0.00	34.47 -1.14 0.00	33.72 -1.33 0.00	35.24 -1.51 0.00	32.91 -1.12 0.00	35.89 -0.77 0.00	40.24 -0.78 0.00	42.12 -0.99 0.00	44.34 -1.00 0.00	46.96 -1.06 0.00	48.40 -1.24 0.00	47.62 -1.17 0.00	47.13 -1.21 0.00	42.92 -1.01 0.00	45.52 -1.12 0.00	44.56 -1.66 0.00	45.89 -2.62 0.00	47.82 -2.62 0.00	51.58 -3.06 0.00	50.31 -2.32 0.00	44.17 -1.13 0.00	41.74 -0.17 0.00	39.34 0.00 0.00
HUNTLEY___68 23562	39.10 -0.72 0.00	36.45 -0.74 0.00	34.47 -1.14 0.00	33.72 -1.33 0.00	35.24 -1.51 0.00	32.91 -1.12 0.00	35.89 -0.77 0.00	40.24 -0.78 0.00	42.12 -0.99 0.00	44.34 -1.00 0.00	46.96 -1.06 0.00	48.40 -1.24 0.00	47.62 -1.17 0.00	47.13 -1.21 0.00	42.92 -1.01 0.00	45.52 -1.12 0.00	44.56 -1.66 0.00	45.89 -2.62 0.00	47.82 -2.62 0.00	51.58 -3.06 0.00	50.31 -2.32 0.00	44.17 -1.13 0.00	41.74 -0.17 0.00	39.34 0.00 0.00
HYLAND___LFGE 323620	41.13 1.31 0.00	38.24 1.04 0.00	36.14 0.53 0.00	35.44 0.39 0.00	37.07 0.33 0.00	34.54 0.51 0.00	37.29 0.62 0.00	41.84 0.82 0.00	43.45 0.34 0.00	45.70 0.36 0.00	48.02 0.00 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	47.90 -0.44 0.00	43.63 -0.31 0.00	46.54 -0.09 0.00	45.94 -0.28 0.00	48.36 -0.15 0.00	50.85 0.40 0.00	55.35 0.71 0.00	54.05 1.42 0.00	46.89 1.58 0.00	43.92 2.01 0.00	41.15 1.81 0.00
INDECK___CORINTH 23802	41.53 1.71 0.00	38.79 1.60 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.69 1.95 0.00	35.83 1.80 0.00	38.64 1.98 0.00	43.24 2.21 0.00	45.65 2.54 0.00	48.15 2.81 0.00	50.90 2.88 0.00	52.72 3.08 0.00	51.87 3.08 0.00	51.28 2.95 0.00	46.66 2.72 0.00	49.53 2.89 0.00	49.18 2.96 0.00	51.76 3.25 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	48.02 2.72 0.00	44.09 2.18 0.00	41.26 1.93 0.00
INDECK___ILION 23567	38.86 -0.96 0.00	36.01 -1.19 0.00	34.04 -1.57 0.00	33.12 -1.93 0.00	34.43 -2.31 0.00	31.89 -2.14 0.00	34.21 -2.46 0.00	38.15 -2.87 0.00	40.05 -3.06 0.00	42.16 -3.17 0.00	44.80 -3.22 0.00	46.36 -3.28 0.00	45.67 -3.12 0.00	45.39 -2.95 0.00	41.21 -2.72 0.00	43.84 -2.80 0.00	43.58 -2.63 0.00	45.89 -2.62 0.00	47.32 -3.13 0.00	51.47 -3.17 0.00	49.58 -3.05 0.00	42.81 -2.49 0.00	39.65 -2.26 0.00	37.33 -2.01 0.00
INDECK___OLEAN 23982	39.62 -0.20 0.00	36.90 -0.30 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.79 -0.96 0.00	33.38 -0.65 0.00	36.22 -0.44 0.00	40.57 -0.45 0.00	42.38 -0.73 0.00	44.66 -0.68 0.00	47.30 -0.72 0.00	48.50 -1.14 0.00	47.86 -0.93 0.00	47.37 -0.97 0.00	43.23 -0.70 0.00	45.80 -0.84 0.00	45.07 -1.15 0.00	46.86 -1.65 0.00	48.94 -1.51 0.00	52.95 -1.69 0.00	51.63 -1.00 0.00	45.12 -0.18 0.00	42.37 0.46 0.00	40.01 0.67 0.00
INDECK___OSWEGO 23783	39.26 -0.56 0.00	36.67 -0.52 0.00	35.04 -0.57 0.00	34.49 -0.56 0.00	36.15 -0.59 0.00	33.56 -0.48 0.00	36.18 -0.48 0.00	40.53 -0.49 0.00	42.60 -0.52 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	49.14 -0.50 0.00	48.31 -0.49 0.00	47.85 -0.48 0.00	43.49 -0.44 0.00	46.22 -0.42 0.00	45.76 -0.46 0.00	47.98 -0.53 0.00	49.89 -0.55 0.00	54.04 -0.60 0.00	52.00 -0.63 0.00	44.85 -0.45 0.00	41.49 -0.42 0.00	38.94 -0.39 0.00
INDECK___YERKES 23781	39.46 -0.36 0.00	36.79 -0.41 0.00	34.75 -0.85 0.00	34.00 -1.05 0.00	35.64 -1.10 0.00	33.38 -0.65 0.00	35.96 -0.70 0.00	40.53 -0.49 0.00	42.29 -0.82 0.00	44.56 -0.77 0.00	47.16 -0.86 0.00	48.50 -1.14 0.00	47.82 -0.98 0.00	47.37 -0.97 0.00	43.14 -0.79 0.00	45.75 -0.89 0.00	44.74 -1.48 0.00	46.23 -2.28 0.00	47.98 -2.47 0.00	51.69 -2.95 0.00	50.47 -2.16 0.00	44.35 -0.95 0.00	41.99 0.08 0.00	39.57 0.24 0.00
INDIAN POINT_GT_1 24139	40.70 0.88 0.00	38.09 0.89 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.84 1.72 0.00	47.15 1.81 0.00	49.80 1.78 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.27 1.93 0.00	45.78 1.85 0.00	48.55 1.91 0.00	48.35 2.13 0.00	50.93 2.43 0.00	52.92 2.47 0.00	57.38 2.73 0.00	55.10 2.47 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.60 1.26 0.00
INDIAN POINT_GT_2 23659	40.70 0.88 0.00	38.09 0.89 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.84 1.72 0.00	47.15 1.81 0.00	49.80 1.78 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.27 1.93 0.00	45.78 1.85 0.00	48.55 1.91 0.00	48.35 2.13 0.00	50.93 2.43 0.00	52.92 2.47 0.00	57.38 2.73 0.00	55.10 2.47 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.60 1.26 0.00
INDIAN POINT_GT_3 24019	40.70 0.88 0.00	38.09 0.89 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.84 1.72 0.00	47.15 1.81 0.00	49.80 1.78 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.27 1.93 0.00	45.78 1.85 0.00	48.55 1.91 0.00	48.35 2.13 0.00	50.93 2.43 0.00	52.92 2.47 0.00	57.38 2.73 0.00	55.10 2.47 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.60 1.26 0.00
INDIAN POINT___2 23530	40.62 0.80 0.00	38.01 0.82 0.00	36.46 0.85 0.00	35.96 0.91 0.00	37.84 1.10 0.00	35.12 1.09 0.00	37.91 1.25 0.00	42.42 1.40 0.00	44.71 1.60 0.00	47.01 1.68 0.00	49.65 1.63 0.00	51.38 1.74 0.00	50.55 1.75 0.00	50.12 1.79 0.00	45.64 1.71 0.00	48.36 1.73 0.00	48.16 1.94 0.00	50.69 2.18 0.00	52.77 2.32 0.00	57.21 2.57 0.00	54.89 2.26 0.00	46.93 1.63 0.00	43.25 1.34 0.00	40.48 1.14 0.00
INDIAN POINT___3 23531	40.74 0.92 0.00	38.13 0.93 0.00	36.57 0.96 0.00	36.07 1.02 0.00	37.92 1.18 0.00	35.33 1.29 0.00	38.02 1.36 0.00	42.62 1.60 0.00	44.88 1.77 0.00	47.19 1.86 0.00	49.84 1.82 0.00	51.58 1.94 0.00	50.74 1.95 0.00	50.32 1.98 0.00	45.86 1.93 0.00	48.60 1.96 0.00	48.39 2.17 0.00	50.98 2.47 0.00	52.97 2.52 0.00	57.48 2.84 0.00	55.16 2.53 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.64 1.30 0.00
INGHAM_C_115KV_TB7 356103	38.63 -1.19 0.00	35.75 -1.45 0.00	33.83 -1.78 0.00	32.91 -2.14 0.00	34.21 -2.54 0.00	31.68 -2.35 0.00	33.99 -2.68 0.00	37.91 -3.12 0.00	39.79 -3.32 0.00	41.84 -3.49 0.00	44.47 -3.55 0.00	45.97 -3.67 0.00	45.33 -3.46 0.00	45.05 -3.29 0.00	40.90 -3.03 0.00	43.51 -3.12 0.00	43.26 -2.96 0.00	45.55 -2.96 0.00	46.97 -3.48 0.00	51.09 -3.55 0.00	49.21 -3.42 0.00	42.49 -2.81 0.00	39.35 -2.56 0.00	37.06 -2.28 0.00
IP CORINTH___1 23988	41.53 1.71 0.00	38.80 1.60 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.69 1.95 0.00	35.87 1.84 0.00	38.61 1.94 0.00	43.28 2.26 0.00	45.65 2.54 0.00	48.15 2.81 0.00	50.90 2.88 0.00	52.72 3.08 0.00	51.87 3.07 0.00	51.28 2.95 0.00	46.65 2.72 0.00	49.53 2.89 0.00	49.18 2.96 0.00	51.81 3.30 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	48.02 2.72 0.00	44.09 2.18 0.00	41.26 1.93 0.00



IP__TICONDEROGA 23804	42.49 2.67 0.00	39.65 2.45 0.00	38.14 2.53 0.00	37.57 2.52 0.00	39.57 2.83 0.00	36.58 2.55 0.00	39.45 2.79 0.00	44.18 3.16 0.00	46.60 3.49 0.00	49.32 3.99 0.00	52.05 4.03 0.00	53.96 4.32 0.00	53.04 4.25 0.00	52.35 4.01 0.00	47.62 3.69 0.00	50.56 3.92 0.00	50.24 4.02 0.00	53.12 4.61 0.00	55.19 4.74 0.00	60.05 5.41 0.00	57.63 5.00 0.00	49.29 3.99 0.00	45.14 3.23 0.00	42.13 2.79 0.00
ISLIP_RES_REC 323679	41.13 1.31 0.00	38.57 1.38 0.00	36.71 1.11 0.00	36.28 1.23 0.00	38.17 1.43 0.00	35.53 1.50 0.00	38.71 2.05 0.00	43.70 2.67 -0.01	46.11 2.76 -0.24	51.51 2.77 -3.41	50.62 2.59 -0.01	53.19 2.68 -0.87	53.24 2.63 -1.81	53.14 2.61 -2.20	51.91 2.64 -5.34	51.59 2.70 -2.25	53.24 3.00 -4.02	52.95 3.49 -0.95	53.89 3.43 -0.01	59.07 3.82 -0.60	56.17 3.53 -0.01	51.35 2.76 -3.29	46.31 2.43 -1.97	41.47 2.12 -0.01
JAMAICA__27_KV_LOAD 355505	40.93 1.11 0.00	38.27 1.08 0.00	36.68 1.07 0.00	36.14 1.09 0.00	37.96 1.21 0.00	35.43 1.40 0.00	38.17 1.50 0.00	42.87 1.85 0.00	45.14 2.03 0.00	47.51 2.18 0.00	50.13 2.11 0.00	51.97 2.33 0.00	51.14 2.34 0.00	50.75 2.42 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.09 3.44 0.00	55.68 3.05 0.00	47.48 2.17 0.00	43.79 1.89 0.00	40.87 1.53 0.00
JANIS__SOLAR 323808	41.69 1.87 0.00	38.94 1.75 0.00	37.10 1.50 0.00	36.42 1.37 0.00	38.10 1.36 0.00	35.29 1.26 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.71 1.60 0.00	46.96 1.63 0.00	49.65 1.63 0.00	51.28 1.64 0.00	50.35 1.56 0.00	49.83 1.50 0.00	45.34 1.41 0.00	48.31 1.68 0.00	47.88 1.66 0.00	50.40 1.89 0.00	52.57 2.12 0.00	56.99 2.35 0.00	54.79 2.16 0.00	47.43 2.13 0.00	43.84 1.93 0.00	41.15 1.81 0.00
JARVIS____ 23743	39.90 0.08 0.00	37.27 0.07 0.00	35.68 0.07 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.13 0.10 0.00	36.74 0.07 0.00	41.11 0.08 0.00	43.20 0.09 0.00	45.43 0.09 0.00	48.11 0.10 0.00	49.74 0.10 0.00	48.94 0.15 0.00	48.48 0.15 0.00	44.06 0.13 0.00	46.78 0.14 0.00	46.40 0.19 0.00	48.75 0.24 0.00	50.70 0.25 0.00	54.92 0.27 0.00	52.84 0.21 0.00	45.44 0.14 0.00	41.99 0.08 0.00	39.42 0.08 0.00
JENNISON__1 23625	41.73 1.91 0.00	38.94 1.75 0.00	37.18 1.57 0.00	36.56 1.51 0.00	38.29 1.54 0.00	35.39 1.36 0.00	38.24 1.58 0.00	42.75 1.72 0.00	44.96 1.85 0.00	47.28 1.95 0.00	50.13 2.11 0.00	51.82 2.18 0.00	50.89 2.10 0.00	50.46 2.13 0.00	45.91 1.98 0.00	48.78 2.15 0.00	48.30 2.08 0.00	50.69 2.18 0.00	52.82 2.37 0.00	57.21 2.57 0.00	55.00 2.37 0.00	47.57 2.27 0.00	43.96 2.05 0.00	41.26 1.93 0.00
JENNISON__2 23626	41.73 1.91 0.00	38.94 1.75 0.00	37.18 1.57 0.00	36.56 1.51 0.00	38.29 1.54 0.00	35.39 1.36 0.00	38.24 1.58 0.00	42.75 1.72 0.00	44.96 1.85 0.00	47.28 1.95 0.00	50.13 2.11 0.00	51.82 2.18 0.00	50.89 2.10 0.00	50.46 2.13 0.00	45.91 1.98 0.00	48.78 2.15 0.00	48.30 2.08 0.00	50.69 2.18 0.00	52.82 2.37 0.00	57.21 2.57 0.00	55.00 2.37 0.00	47.57 2.27 0.00	43.96 2.05 0.00	41.26 1.93 0.00
JERICHO_RISE_WT_PWR 323719	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.79 -0.54 0.00	47.68 -0.33 0.00	48.95 -0.70 0.00	47.67 -1.12 0.00	47.03 -1.30 0.00	42.52 -1.41 0.00	45.10 -1.54 0.00	44.65 -1.57 0.00	46.86 -1.65 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.21 -1.09 0.00	40.90 -1.01 0.00	38.31 -1.02 0.00
KATONAH__115KV_46KV_TB4 355592	40.97 1.15 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.50 1.46 0.00	38.20 1.54 0.00	42.79 1.76 0.00	45.18 2.07 0.00	47.51 2.18 0.00	50.13 2.11 0.00	51.97 2.33 0.00	51.14 2.34 0.00	50.75 2.42 0.00	46.17 2.24 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.32 2.88 0.00	57.81 3.17 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.71 1.80 0.00	40.87 1.53 0.00
KCE_NY_1 323755	41.37 1.55 0.00	38.64 1.45 0.00	37.14 1.53 0.00	36.63 1.58 0.00	38.58 1.84 0.00	35.73 1.70 0.00	38.49 1.83 0.00	43.07 2.05 0.00	45.39 2.28 0.00	47.74 2.40 0.00	50.47 2.45 0.00	52.32 2.68 0.00	51.43 2.63 0.00	50.94 2.61 0.00	46.30 2.37 0.00	49.15 2.52 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.65 2.35 0.00	43.84 1.93 0.00	41.07 1.73 0.00
KCE_NY_6_ESR 323823	39.58 -0.24 0.00	36.90 -0.30 0.00	34.90 -0.71 0.00	34.11 -0.94 0.00	35.71 -1.03 0.00	33.45 -0.58 0.00	36.18 -0.48 0.00	40.78 -0.24 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.44 -0.57 0.00	48.80 -0.84 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.62 -1.89 0.00	48.48 -1.97 0.00	52.30 -2.35 0.00	51.05 -1.58 0.00	44.85 -0.45 0.00	42.41 0.50 0.00	39.93 0.59 0.00
KEDC_PORT_JEFF_GT2 24210	41.01 1.19 0.00	38.46 1.27 0.00	36.61 1.00 0.00	36.17 1.12 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.30 2.58 -3.38	50.43 2.40 -0.01	53.03 2.53 -0.86	53.03 2.44 -1.80	52.98 2.46 -2.19	51.70 2.46 -5.31	51.44 2.56 -2.23	53.03 2.82 -3.99	52.75 3.30 -0.94	53.73 3.28 -0.01	58.84 3.61 -0.60	55.90 3.26 -0.01	51.19 2.63 -3.26	46.17 2.30 -1.96	41.31 1.97 -0.01
KEDC_PORT_JEFF_GT3 24211	41.01 1.19 0.00	38.46 1.27 0.00	36.61 1.00 0.00	36.17 1.12 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.94 2.59 -0.24	51.30 2.58 -3.38	50.43 2.40 -0.01	53.03 2.53 -0.86	53.03 2.44 -1.80	52.98 2.46 -2.19	51.70 2.46 -5.31	51.44 2.56 -2.23	53.03 2.82 -3.99	52.75 3.30 -0.94	53.73 3.28 -0.01	58.84 3.61 -0.60	55.90 3.26 -0.01	51.19 2.63 -3.26	46.17 2.30 -1.96	41.31 1.97 -0.01
KEDC_GLWD_GT4 24219	41.25 1.43 0.00	38.64 1.45 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.40 1.65 0.00	35.67 1.63 0.00	38.64 1.98 0.00	43.38 2.34 -0.02	46.07 2.54 -0.41	53.80 2.63 -5.84	50.67 2.64 -0.02	53.90 2.78 -1.48	54.68 2.78 -3.11	54.91 2.80 -3.77	55.73 2.64 -9.16	53.24 2.75 -3.86	56.07 2.96 -6.89	53.38 3.25 -1.62	53.84 3.38 -0.02	59.33 3.66 -1.03	56.02 3.37 -0.02	53.51 2.58 -5.63	47.51 2.22 -3.38	41.32 1.97 -0.02
KEDC_GLWD_GT5 24220	41.25 1.43 0.00	38.64 1.45 0.00	36.96 1.35 0.00	36.45 1.40 0.00	38.40 1.65 0.00	35.67 1.63 0.00	38.64 1.98 0.00	43.38 2.34 -0.02	46.07 2.54 -0.41	53.80 2.63 -5.84	50.67 2.64 -0.02	53.90 2.78 -1.48	54.68 2.78 -3.11	54.91 2.80 -3.77	55.73 2.64 -9.16	53.24 2.75 -3.86	56.07 2.96 -6.89	53.38 3.25 -1.62	53.84 3.38 -0.02	59.33 3.66 -1.03	56.02 3.37 -0.02	53.51 2.58 -5.63	47.51 2.22 -3.38	41.32 1.97 -0.02



KENSICO____ 23655	40.89 1.08 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.07 1.32 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.83 1.81 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.08 2.15 0.00	48.88 2.24 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.38 2.08 0.00	43.63 1.72 0.00	40.79 1.46 0.00
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	40.82 1.00 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.96 1.21 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.50 1.48 0.00	44.84 1.72 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.60 1.96 0.00	48.39 2.17 0.00	51.03 2.52 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.21 2.58 0.00	47.20 1.90 0.00	43.54 1.63 0.00	40.75 1.42 0.00
KIAC_JFK_GT1 23816	40.70 0.88 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.00 0.95 0.00	37.77 1.03 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.66 1.64 0.00	44.88 1.77 0.00	47.24 1.90 0.00	49.80 1.78 0.00	51.63 1.99 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.58 2.36 0.00	51.18 2.67 0.00	53.17 2.72 0.00	57.70 3.06 0.00	55.37 2.74 0.00	47.16 1.86 0.00	43.54 1.63 0.00	40.67 1.34 0.00
KIAC_JFK_GT2 23817	40.70 0.88 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.00 0.95 0.00	37.77 1.03 0.00	35.26 1.23 0.00	37.98 1.32 0.00	42.66 1.64 0.00	44.88 1.77 0.00	47.24 1.90 0.00	49.80 1.78 0.00	51.63 1.99 0.00	50.84 2.05 0.00	50.46 2.13 0.00	46.00 2.06 0.00	48.74 2.10 0.00	48.58 2.36 0.00	51.18 2.67 0.00	53.17 2.72 0.00	57.70 3.06 0.00	55.37 2.74 0.00	47.16 1.86 0.00	43.54 1.63 0.00	40.67 1.34 0.00
KIAC_JFK____ 323774	40.69 0.87 0.00	38.09 0.89 0.00	36.50 0.89 0.00	35.96 0.91 0.00	37.88 1.14 0.00	35.22 1.19 0.00	38.02 1.36 0.00	42.62 1.60 0.00	44.92 1.81 0.00	47.24 1.90 0.00	49.84 1.82 0.00	51.73 2.08 0.00	50.89 2.10 0.00	50.46 2.12 0.00	46.00 2.07 0.00	48.74 2.10 0.00	48.58 2.36 0.00	51.13 2.62 0.00	53.17 2.72 0.00	57.70 3.06 0.00	55.31 2.68 0.00	47.16 1.86 0.00	43.54 1.63 0.00	40.68 1.34 0.00
KINTIGH____ 23543	38.90 -0.92 0.00	36.27 -0.93 0.00	34.36 -1.25 0.00	33.68 -1.37 0.00	35.20 -1.54 0.00	32.88 -1.16 0.00	35.78 -0.88 0.00	40.16 -0.86 0.00	42.03 -1.08 0.00	44.29 -1.04 0.00	46.91 -1.10 0.00	48.35 -1.29 0.00	47.57 -1.22 0.00	47.08 -1.26 0.00	42.83 -1.10 0.00	45.47 -1.17 0.00	44.56 -1.66 0.00	46.04 -2.47 0.00	47.98 -2.47 0.00	51.75 -2.90 0.00	50.31 -2.32 0.00	43.99 -1.31 0.00	41.45 -0.46 0.00	38.98 -0.35 0.00
KNTFSRNC_46_KV_46KV_LOAD 80397	41.25 1.43 0.00	38.50 1.30 0.00	36.64 1.03 0.00	35.86 0.81 0.00	37.44 0.70 0.00	34.54 0.51 0.00	37.14 0.48 0.00	41.52 0.49 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.64 0.62 0.00	49.84 0.20 0.00	48.55 -0.24 0.00	47.95 -0.39 0.00	43.27 -0.66 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.77 -0.87 0.00	52.16 -0.47 0.00	45.12 -0.18 0.00	41.74 -0.17 0.00	39.10 -0.24 0.00
LACHUTE____HYDRO 323717	42.49 2.67 0.00	39.65 2.45 0.00	38.14 2.53 0.00	37.57 2.53 0.00	39.57 2.83 0.00	36.55 2.52 0.00	39.45 2.78 0.00	44.14 3.12 0.00	46.60 3.49 0.00	49.32 3.99 0.00	52.05 4.03 0.00	53.96 4.32 0.00	53.04 4.24 0.00	52.34 4.01 0.00	47.62 3.69 0.00	50.56 3.92 0.00	50.24 4.02 0.00	53.07 4.56 0.00	55.19 4.74 0.00	60.05 5.41 0.00	57.63 5.00 0.00	49.29 3.99 0.00	45.09 3.18 0.00	42.13 2.79 0.00
LAWRNCV_115KV_TB1 80681	39.22 -0.60 0.00	36.64 -0.56 0.00	35.08 -0.53 0.00	34.45 -0.60 0.00	35.90 -0.85 0.00	33.08 -0.95 0.00	35.56 -1.10 0.00	39.75 -1.27 0.00	41.69 -1.42 0.00	43.79 -1.54 0.00	46.53 -1.49 0.00	47.90 -1.74 0.00	46.99 -1.81 0.00	46.64 -1.69 0.00	42.17 -1.76 0.00	44.82 -1.82 0.00	44.42 -1.80 0.00	46.67 -1.84 0.00	48.53 -1.92 0.00	52.62 -2.02 0.00	50.84 -1.79 0.00	43.85 -1.45 0.00	40.57 -1.34 0.00	38.12 -1.22 0.00
LEDERLE____ 23769	40.86 1.04 0.00	38.24 1.04 0.00	36.64 1.03 0.00	36.14 1.09 0.00	37.99 1.25 0.00	35.43 1.40 0.00	38.17 1.50 0.00	42.75 1.72 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.13 2.11 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.48 2.26 0.00	51.08 2.57 0.00	53.12 2.67 0.00	57.59 2.95 0.00	55.26 2.63 0.00	47.25 1.95 0.00	43.54 1.63 0.00	40.75 1.42 0.00
LIGHTHSE_115KV_TB6 355974	39.30 -0.52 0.00	36.71 -0.48 0.00	35.08 -0.53 0.00	34.49 -0.56 0.00	36.08 -0.66 0.00	33.42 -0.61 0.00	36.08 -0.59 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.61 -0.73 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.73 0.00	43.27 -0.66 0.00	46.03 -0.61 0.00	45.62 -0.60 0.00	47.93 -0.58 0.00	49.89 -0.55 0.00	54.15 -0.49 0.00	52.05 -0.58 0.00	44.89 -0.41 0.00	41.49 -0.42 0.00	38.90 -0.43 0.00
LINDEN COGEN____ 23786	40.77 0.95 0.00	38.16 0.97 0.00	36.61 1.00 0.00	36.07 1.02 0.00	37.99 1.25 0.00	35.33 1.29 0.00	38.17 1.50 0.00	42.75 1.72 0.00	44.96 1.85 0.00	47.38 2.04 0.00	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.00 2.07 0.00	48.78 2.15 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.12 2.67 0.00	57.70 3.06 0.00	55.26 2.63 0.00	47.20 1.90 0.00	43.46 1.55 0.00	40.68 1.34 0.00
LINDHRST_69_KV_BK1 356055	41.37 1.55 0.00	38.80 1.60 0.00	36.96 1.35 0.00	36.49 1.44 0.00	38.14 1.40 0.00	35.77 1.74 0.00	38.83 2.16 0.00	43.78 2.75 -0.01	46.27 2.89 -0.27	52.06 2.95 -3.78	50.86 2.83 -0.01	53.43 2.83 -0.96	53.54 2.73 -2.01	53.63 2.85 -2.44	52.63 2.77 -5.93	52.02 2.89 -2.50	53.82 3.14 -4.46	53.20 3.64 -1.05	54.09 3.63 -0.01	59.30 3.99 -0.67	56.32 3.68 -0.01	51.89 2.94 -3.65	46.69 2.60 -2.19	41.67 2.32 -0.01
LIPA_MISC_IPP 23656	40.58 0.76 0.00	38.05 0.86 0.00	36.21 0.61 0.00	35.82 0.77 0.00	37.37 0.62 0.00	35.12 1.09 0.00	38.24 1.58 0.00	43.21 2.17 -0.01	45.46 2.11 -0.24	50.79 2.09 -3.37	49.80 1.78 -0.01	52.33 1.84 -0.86	52.30 1.71 -1.79	52.30 1.79 -2.18	51.06 1.85 -5.29	50.87 2.01 -2.23	52.42 2.22 -3.98	52.21 2.77 -0.94	53.08 2.62 -0.01	58.19 2.95 -0.59	55.32 2.68 -0.01	50.64 2.08 -3.25	45.66 1.80 -1.95	40.88 1.53 -0.01
LISF____SOLAR 323691	40.66 0.84 0.00	38.09 0.89 0.00	36.28 0.67 0.00	35.86 0.81 0.00	37.74 0.99 0.00	35.12 1.09 0.00	38.31 1.65 0.00	43.25 2.21 -0.01	45.55 2.20 -0.24	50.84 2.13 -3.38	49.90 1.87 -0.01	52.49 1.99 -0.86	52.49 1.90 -1.80	52.45 1.94 -2.18	51.20 1.98 -5.29	50.92 2.05 -2.23	52.51 2.31 -3.98	52.26 2.81 -0.94	53.18 2.72 -0.01	58.30 3.06 -0.59	55.37 2.74 -0.01	50.73 2.17 -3.26	45.70 1.84 -1.95	40.96 1.61 -0.01



LITTLE FALLS___HYD 24013	38.63 -1.19 0.00	35.75 -1.45 0.00	33.83 -1.78 0.00	32.91 -2.14 0.00	34.21 -2.54 0.00	31.68 -2.35 0.00	33.99 -2.68 0.00	37.91 -3.12 0.00	39.79 -3.32 0.00	41.84 -3.49 0.00	44.47 -3.55 0.00	45.97 -3.67 0.00	45.33 -3.46 0.00	45.05 -3.29 0.00	40.90 -3.03 0.00	43.51 -3.12 0.00	43.26 -2.96 0.00	45.55 -2.96 0.00	46.97 -3.48 0.00	51.09 -3.55 0.00	49.21 -3.42 0.00	42.49 -2.81 0.00	39.35 -2.56 0.00	37.06 -2.28 0.00
LITTLRIV_115KV_TB1 356100	39.66 -0.16 0.00	37.05 -0.15 0.00	35.47 -0.14 0.00	34.84 -0.21 0.00	36.30 -0.44 0.00	33.42 -0.61 0.00	35.93 -0.73 0.00	40.12 -0.90 0.00	42.03 -1.08 0.00	44.11 -1.22 0.00	46.82 -1.20 0.00	48.25 -1.39 0.00	47.33 -1.46 0.00	46.98 -1.35 0.00	42.53 -1.41 0.00	45.19 -1.45 0.00	44.83 -1.39 0.00	47.15 -1.36 0.00	49.09 -1.36 0.00	53.22 -1.42 0.00	51.47 -1.16 0.00	44.39 -0.91 0.00	41.03 -0.88 0.00	38.55 -0.79 0.00
LI_NEWBRDGE___DRP 323616	40.93 1.11 0.00	38.35 1.15 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.81 1.07 0.00	35.39 1.36 0.00	38.35 1.69 0.00	43.17 2.13 -0.01	45.53 2.20 -0.22	50.74 2.27 -3.14	50.14 2.11 -0.01	52.62 2.18 -0.80	52.56 2.10 -1.67	52.53 2.18 -2.03	51.00 2.15 -4.92	50.95 2.24 -2.07	52.37 2.45 -3.70	52.24 2.86 -0.87	53.38 2.93 -0.01	58.31 3.11 -0.55	55.48 2.84 -0.01	50.55 2.22 -3.03	45.69 1.97 -1.81	41.08 1.73 -0.01
LOCKPORT_115KV_TB60_63_64 80432	38.90 -0.92 0.00	36.27 -0.93 0.00	34.29 -1.32 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.67 -0.99 0.00	40.00 -1.03 0.00	41.86 -1.25 0.00	44.06 -1.27 0.00	46.67 -1.34 0.00	48.05 -1.59 0.00	47.28 -1.51 0.00	46.84 -1.50 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.28 -1.94 0.00	45.60 -2.91 0.00	47.47 -2.98 0.00	51.20 -3.44 0.00	49.95 -2.68 0.00	43.85 -1.45 0.00	41.49 -0.42 0.00	39.18 -0.16 0.00
LOCKPORT___CC1 323769	38.91 -0.91 0.00	36.27 -0.93 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.13 -1.62 0.00	32.94 -1.09 0.00	35.53 -1.14 0.00	40.08 -0.94 0.00	41.82 -1.29 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	47.95 -1.69 0.00	47.28 -1.51 0.00	46.78 -1.55 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.75 -2.76 0.00	47.47 -2.98 0.00	51.20 -3.44 0.00	50.00 -2.63 0.00	43.85 -1.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
LOCKPORT___CC2 323770	38.91 -0.91 0.00	36.27 -0.93 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.13 -1.62 0.00	32.94 -1.09 0.00	35.53 -1.14 0.00	40.08 -0.94 0.00	41.82 -1.29 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	47.95 -1.69 0.00	47.28 -1.51 0.00	46.78 -1.55 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.75 -2.76 0.00	47.47 -2.98 0.00	51.20 -3.44 0.00	50.00 -2.63 0.00	43.85 -1.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
LOCKPORT___CC3 323771	38.91 -0.91 0.00	36.27 -0.93 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.13 -1.62 0.00	32.94 -1.09 0.00	35.53 -1.14 0.00	40.08 -0.94 0.00	41.82 -1.29 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	47.95 -1.69 0.00	47.28 -1.51 0.00	46.78 -1.55 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.75 -2.76 0.00	47.47 -2.98 0.00	51.20 -3.44 0.00	50.00 -2.63 0.00	43.85 -1.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
LONG_LAKE_PHOENIX 24014	39.38 -0.44 0.00	36.79 -0.41 0.00	35.15 -0.46 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.59 -0.44 0.00	36.26 -0.40 0.00	40.61 -0.41 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.68 -0.34 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	48.00 -0.34 0.00	43.67 -0.26 0.00	46.36 -0.28 0.00	45.90 -0.32 0.00	48.12 -0.39 0.00	50.04 -0.40 0.00	54.15 -0.49 0.00	52.16 -0.47 0.00	44.94 -0.36 0.00	41.62 -0.29 0.00	39.06 -0.28 0.00
LOVETT___3 23632	40.70 0.88 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.30 2.08 0.00	50.89 2.38 0.00	52.87 2.42 0.00	57.38 2.73 0.00	55.05 2.42 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.56 1.22 0.00
LOVETT___4 23642	40.70 0.88 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.30 2.08 0.00	50.89 2.38 0.00	52.87 2.42 0.00	57.38 2.73 0.00	55.05 2.42 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.56 1.22 0.00
LOVETT___5 23593	40.70 0.88 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.30 2.08 0.00	50.89 2.38 0.00	52.87 2.42 0.00	57.38 2.73 0.00	55.05 2.42 0.00	47.07 1.77 0.00	43.38 1.47 0.00	40.56 1.22 0.00
LOWER RAQUET___HYD 24057	38.98 -0.84 0.00	36.45 -0.74 0.00	34.86 -0.75 0.00	34.25 -0.80 0.00	35.68 -1.07 0.00	32.88 -1.16 0.00	35.34 -1.32 0.00	39.51 -1.52 0.00	41.39 -1.73 0.00	43.52 -1.81 0.00	46.19 -1.82 0.00	47.60 -2.04 0.00	46.70 -2.10 0.00	46.31 -2.03 0.00	41.91 -2.02 0.00	44.49 -2.14 0.00	44.14 -2.08 0.00	46.33 -2.18 0.00	48.23 -2.22 0.00	52.30 -2.35 0.00	50.52 -2.11 0.00	43.58 -1.72 0.00	40.27 -1.64 0.00	37.84 -1.49 0.00
LOWER___HUDSON 24059	40.82 1.00 0.00	38.13 0.93 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.58 1.56 0.00	44.84 1.73 0.00	46.96 1.63 0.00	49.70 1.68 0.00	51.48 1.84 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.45 1.82 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.67 2.22 0.00	56.99 2.35 0.00	54.74 2.11 0.00	46.93 1.63 0.00	43.16 1.26 0.00	40.48 1.14 0.00
LOWVILLE_115KV_TB2 356335	39.90 0.08 0.00	37.23 0.04 0.00	35.61 0.00 0.00	35.05 0.00 0.00	36.19 -0.55 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.24 -0.78 0.00	42.25 -0.86 0.00	44.34 -1.00 0.00	47.01 -1.01 0.00	48.55 -1.09 0.00	47.72 -1.07 0.00	47.32 -1.02 0.00	42.96 -0.97 0.00	45.71 -0.93 0.00	45.39 -0.83 0.00	47.83 -0.68 0.00	49.89 -0.55 0.00	54.15 -0.49 0.00	52.05 -0.58 0.00	44.89 -0.41 0.00	41.36 -0.54 0.00	38.79 -0.55 0.00
LUTHERFT_115KV_GLOB_FND_222 355753	41.33 1.51 0.00	38.65 1.45 0.00	37.10 1.50 0.00	36.59 1.54 0.00	38.54 1.80 0.00	35.73 1.70 0.00	38.46 1.80 0.00	43.03 2.01 0.00	45.35 2.24 0.00	47.74 2.40 0.00	50.47 2.45 0.00	52.27 2.63 0.00	51.43 2.63 0.00	50.90 2.56 0.00	46.26 2.33 0.00	49.11 2.47 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.37 2.93 0.00	57.87 3.22 0.00	55.58 2.95 0.00	47.66 2.36 0.00	43.79 1.89 0.00	41.03 1.69 0.00



LUTHERNY_35_KV_BK2 355980	41.37 1.55 0.00	38.65 1.45 0.00	37.14 1.53 0.00	36.63 1.58 0.00	38.58 1.84 0.00	35.73 1.70 0.00	38.50 1.83 0.00	43.08 2.05 0.00	45.40 2.28 0.00	47.74 2.40 0.00	50.47 2.45 0.00	52.27 2.63 0.00	51.48 2.68 0.00	50.94 2.61 0.00	46.30 2.37 0.00	49.16 2.52 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.63 3.00 0.00	47.66 2.36 0.00	43.84 1.93 0.00	41.07 1.73 0.00
LWR___OSWEGATCHIE_HYD 23850	38.90 -0.92 0.00	36.34 -0.86 0.00	34.75 -0.85 0.00	34.17 -0.88 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.38 -1.95 0.00	46.00 -2.02 0.00	47.46 -2.18 0.00	46.60 -2.20 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.72 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
LYONS_FALL_HYD 23570	40.14 0.32 0.00	37.46 0.26 0.00	35.82 0.21 0.00	35.26 0.21 0.00	36.63 -0.11 0.00	33.86 -0.17 0.00	36.48 -0.18 0.00	40.78 -0.24 0.00	42.85 -0.26 0.00	45.02 -0.32 0.00	47.73 -0.29 0.00	49.30 -0.35 0.00	48.50 -0.29 0.00	48.05 -0.29 0.00	43.67 -0.26 0.00	46.41 -0.23 0.00	46.08 -0.14 0.00	48.46 -0.05 0.00	50.50 0.05 0.00	54.81 0.16 0.00	52.63 0.00 0.00	45.39 0.09 0.00	41.87 -0.04 0.00	39.26 -0.08 0.00
MADISON___COUNTY_LFGE 323628	40.70 0.88 0.00	38.01 0.82 0.00	36.32 0.71 0.00	35.75 0.70 0.00	37.44 0.70 0.00	34.64 0.61 0.00	37.36 0.70 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.20 0.86 0.00	48.98 0.96 0.00	50.68 1.04 0.00	49.82 1.02 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.71 1.07 0.00	47.28 1.06 0.00	49.63 1.12 0.00	51.66 1.21 0.00	56.01 1.37 0.00	53.84 1.21 0.00	46.43 1.13 0.00	42.87 0.96 0.00	40.20 0.87 0.00
MALONE___115KV_TB1 356076	40.58 0.76 0.00	37.87 0.67 0.00	36.11 0.50 0.00	35.37 0.32 0.00	36.85 0.11 0.00	34.00 -0.03 0.00	36.55 -0.11 0.00	40.86 -0.16 0.00	42.77 -0.34 0.00	45.02 -0.32 0.00	47.92 -0.10 0.00	49.19 -0.45 0.00	47.96 -0.83 0.00	47.46 -0.87 0.00	42.83 -1.10 0.00	45.47 -1.17 0.00	45.06 -1.16 0.00	47.30 -1.21 0.00	49.14 -1.31 0.00	53.22 -1.42 0.00	51.63 -1.00 0.00	44.62 -0.68 0.00	41.28 -0.63 0.00	38.67 -0.67 0.00
MAPLEWOD_115KV_TB3 80458	40.58 0.76 0.00	37.98 0.78 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.92 1.18 0.00	35.22 1.19 0.00	37.73 1.06 0.00	42.13 1.11 0.00	44.32 1.21 0.00	46.51 1.18 0.00	49.17 1.15 0.00	50.93 1.29 0.00	50.11 1.32 0.00	49.64 1.31 0.00	45.16 1.23 0.00	47.94 1.31 0.00	47.65 1.43 0.00	50.16 1.65 0.00	52.16 1.72 0.00	56.45 1.80 0.00	54.21 1.58 0.00	46.48 1.18 0.00	42.79 0.88 0.00	40.12 0.79 0.00
MAPLE_RIDGE_WT_1 323574	39.74 -0.08 0.00	37.01 -0.19 0.00	35.32 -0.29 0.00	34.67 -0.38 0.00	36.15 -0.59 0.00	33.32 -0.72 0.00	35.75 -0.92 0.00	39.92 -1.11 0.00	41.82 -1.29 0.00	43.93 -1.41 0.00	46.58 -1.44 0.00	48.10 -1.54 0.00	47.23 -1.56 0.00	46.78 -1.55 0.00	42.48 -1.45 0.00	45.10 -1.54 0.00	44.70 -1.52 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.95 -1.69 0.00	51.05 -1.58 0.00	44.08 -1.22 0.00	40.90 -1.01 0.00	38.55 -0.79 0.00
MAPLE_RIDGE_WT_2 323611	39.74 -0.08 0.00	37.01 -0.19 0.00	35.32 -0.29 0.00	34.67 -0.38 0.00	36.15 -0.59 0.00	33.32 -0.72 0.00	35.75 -0.92 0.00	39.92 -1.11 0.00	41.82 -1.29 0.00	43.93 -1.41 0.00	46.58 -1.44 0.00	48.10 -1.54 0.00	47.23 -1.56 0.00	46.78 -1.55 0.00	42.48 -1.45 0.00	45.10 -1.54 0.00	44.70 -1.52 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.95 -1.69 0.00	51.05 -1.58 0.00	44.08 -1.22 0.00	40.90 -1.01 0.00	38.55 -0.79 0.00
MARBLE_RIVER_WT_PWR 323696	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.74 0.00 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.69 -0.33 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.68 -0.33 0.00	48.95 -0.70 0.00	47.67 -1.12 0.00	47.03 -1.30 0.00	42.57 -1.36 0.00	45.14 -1.49 0.00	44.74 -1.48 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.84 -1.80 0.00	51.16 -1.47 0.00	44.26 -1.04 0.00	40.95 -0.96 0.00	38.39 -0.94 0.00
MARSHVLE_115KV_TB1 80742	42.37 2.55 0.00	39.54 2.34 0.00	37.92 2.31 0.00	37.40 2.35 0.00	39.28 2.54 0.00	36.35 2.31 0.00	39.19 2.53 0.00	43.85 2.83 0.00	46.21 3.10 0.00	48.60 3.26 0.00	51.19 3.17 0.00	52.82 3.18 0.00	52.11 3.32 0.00	51.52 3.19 0.00	46.74 2.81 0.00	49.76 3.12 0.00	49.64 3.42 0.00	52.49 3.98 0.00	54.69 4.24 0.00	59.45 4.81 0.00	57.10 4.47 0.00	49.02 3.71 0.00	45.05 3.14 0.00	42.13 2.79 0.00
MARSH_HILL_WT_PWR 323713	40.06 0.24 0.00	37.20 0.00 0.00	35.25 -0.36 0.00	34.42 -0.63 0.00	35.97 -0.77 0.00	33.49 -0.55 0.00	36.07 -0.59 0.00	40.33 -0.70 0.00	42.12 -0.99 0.00	44.47 -0.86 0.00	47.10 -0.91 0.00	48.55 -1.09 0.00	47.86 -0.93 0.00	47.22 -1.11 0.00	43.05 -0.88 0.00	46.03 -0.61 0.00	45.43 -0.79 0.00	47.59 -0.92 0.00	49.74 -0.71 0.00	53.93 -0.71 0.00	52.42 -0.21 0.00	45.71 0.41 0.00	42.79 0.88 0.00	40.32 0.98 0.00
MCINTYRE_115KV_TB2 80467	40.18 0.36 0.00	37.53 0.33 0.00	35.93 0.32 0.00	35.30 0.25 0.00	36.78 0.04 0.00	33.90 -0.14 0.00	36.41 -0.26 0.00	40.65 -0.37 0.00	42.51 -0.60 0.00	44.56 -0.77 0.00	47.30 -0.72 0.00	48.75 -0.89 0.00	47.82 -0.98 0.00	47.51 -0.82 0.00	43.01 -0.92 0.00	45.71 -0.93 0.00	45.39 -0.83 0.00	47.73 -0.78 0.00	49.74 -0.71 0.00	53.99 -0.66 0.00	52.16 -0.47 0.00	45.03 -0.27 0.00	41.62 -0.29 0.00	39.14 -0.20 0.00
MECO_____69_KV_BK1 80468	42.69 2.87 0.00	39.80 2.60 0.00	38.21 2.60 0.00	37.64 2.59 0.00	39.57 2.83 0.00	36.62 2.59 0.00	39.49 2.82 0.00	44.18 3.16 0.00	46.60 3.49 0.00	49.05 3.72 0.00	51.67 3.65 0.00	53.41 3.77 0.00	52.50 3.71 0.00	51.96 3.63 0.00	47.18 3.25 0.00	50.23 3.59 0.00	50.01 3.79 0.00	52.88 4.37 0.00	55.09 4.64 0.00	59.94 5.30 0.00	57.58 4.95 0.00	49.38 4.08 0.00	45.34 3.44 0.00	42.41 3.07 0.00
MENANDS___115KV_TB5 355628	40.42 0.60 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.86 0.81 0.00	37.81 1.07 0.00	35.12 1.09 0.00	37.58 0.92 0.00	41.97 0.94 0.00	44.10 0.99 0.00	46.24 0.91 0.00	48.88 0.86 0.00	50.63 0.99 0.00	49.87 1.07 0.00	49.40 1.06 0.00	44.94 1.01 0.00	47.71 1.07 0.00	47.42 1.20 0.00	49.92 1.41 0.00	51.86 1.41 0.00	56.12 1.48 0.00	53.95 1.32 0.00	46.21 0.91 0.00	42.54 0.63 0.00	39.93 0.59 0.00
MG INDUSTRY___DRP 24185	40.58 0.76 0.00	37.94 0.74 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.12 1.09 0.00	37.65 0.99 0.00	42.05 1.03 0.00	44.19 1.08 0.00	46.38 1.04 0.00	49.03 1.01 0.00	50.73 1.09 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.51 1.29 0.00	49.96 1.46 0.00	51.96 1.51 0.00	56.28 1.64 0.00	54.10 1.47 0.00	46.39 1.09 0.00	42.75 0.84 0.00	40.12 0.79 0.00



MID___OSWEGATCHIE_HYD 23849	38.90 -0.92 0.00	36.34 -0.86 0.00	34.75 -0.85 0.00	34.17 -0.88 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.38 -1.95 0.00	46.00 -2.02 0.00	47.46 -2.18 0.00	46.60 -2.20 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.72 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
MID___RAQUETTE_HYD 23851	38.98 -0.84 0.00	36.45 -0.74 0.00	34.86 -0.75 0.00	34.24 -0.81 0.00	35.68 -1.07 0.00	32.88 -1.16 0.00	35.34 -1.32 0.00	39.51 -1.52 0.00	41.39 -1.72 0.00	43.52 -1.81 0.00	46.19 -1.82 0.00	47.61 -2.04 0.00	46.69 -2.10 0.00	46.30 -2.03 0.00	41.91 -2.02 0.00	44.49 -2.15 0.00	44.14 -2.08 0.00	46.37 -2.13 0.00	48.23 -2.22 0.00	52.29 -2.35 0.00	50.52 -2.11 0.00	43.58 -1.72 0.00	40.32 -1.59 0.00	37.84 -1.49 0.00
MILLIKEN___1 23584	40.66 0.84 0.00	37.98 0.78 0.00	36.25 0.64 0.00	35.61 0.56 0.00	37.33 0.59 0.00	34.61 0.58 0.00	37.40 0.73 0.00	41.89 0.86 0.00	44.02 0.91 0.00	46.38 1.04 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.87 1.07 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.76 1.12 0.00	47.28 1.06 0.00	49.58 1.07 0.00	51.66 1.21 0.00	55.90 1.26 0.00	53.79 1.16 0.00	46.48 1.18 0.00	43.00 1.09 0.00	40.36 1.02 0.00
MILLIKEN___2 23585	40.66 0.84 0.00	37.98 0.78 0.00	36.25 0.64 0.00	35.61 0.56 0.00	37.33 0.59 0.00	34.61 0.58 0.00	37.40 0.73 0.00	41.89 0.86 0.00	44.02 0.91 0.00	46.38 1.04 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.87 1.07 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.76 1.12 0.00	47.28 1.06 0.00	49.58 1.07 0.00	51.66 1.21 0.00	55.90 1.26 0.00	53.79 1.16 0.00	46.48 1.18 0.00	43.00 1.09 0.00	40.36 1.02 0.00
MILLIKEN___DIESEL 23629	40.66 0.84 0.00	37.98 0.78 0.00	36.25 0.64 0.00	35.61 0.56 0.00	37.33 0.59 0.00	34.61 0.58 0.00	37.40 0.73 0.00	41.89 0.86 0.00	44.02 0.91 0.00	46.38 1.04 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.87 1.07 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.76 1.12 0.00	47.28 1.06 0.00	49.58 1.07 0.00	51.66 1.21 0.00	55.90 1.26 0.00	53.79 1.16 0.00	46.48 1.18 0.00	43.00 1.09 0.00	40.36 1.02 0.00
MILLSEAT___LFGE 323607	39.70 -0.12 0.00	37.01 -0.19 0.00	34.93 -0.68 0.00	34.25 -0.80 0.00	35.90 -0.84 0.00	33.59 -0.44 0.00	36.22 -0.44 0.00	40.90 -0.12 0.00	42.68 -0.43 0.00	45.02 -0.32 0.00	47.68 -0.33 0.00	49.05 -0.59 0.00	48.31 -0.49 0.00	47.80 -0.53 0.00	43.53 -0.40 0.00	46.26 -0.37 0.00	45.30 -0.92 0.00	46.86 -1.65 0.00	48.68 -1.77 0.00	52.57 -2.08 0.00	51.37 -1.26 0.00	44.85 -0.45 0.00	42.37 0.46 0.00	39.77 0.43 0.00
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.96 1.21 0.00	35.36 1.33 0.00	38.09 1.43 0.00	42.66 1.64 0.00	44.96 1.85 0.00	47.24 1.90 0.00	49.94 1.92 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.41 2.08 0.00	45.95 2.02 0.00	48.69 2.05 0.00	48.48 2.26 0.00	51.08 2.57 0.00	53.07 2.62 0.00	57.54 2.90 0.00	55.26 2.63 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.67 1.34 0.00
MILLWOOD_13_KV_LOAD 356217	40.86 1.04 0.00	38.27 1.08 0.00	36.68 1.07 0.00	36.21 1.16 0.00	38.03 1.29 0.00	35.43 1.40 0.00	38.13 1.47 0.00	42.71 1.68 0.00	45.01 1.90 0.00	47.33 1.99 0.00	49.99 1.97 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.58 2.36 0.00	51.18 2.67 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.29 1.99 0.00	43.58 1.68 0.00	40.75 1.42 0.00
MODEL_CITY_ENERGY 24167	38.54 -1.28 0.00	35.97 -1.23 0.00	33.97 -1.64 0.00	33.26 -1.79 0.00	34.87 -1.87 0.00	32.70 -1.33 0.00	35.23 -1.43 0.00	39.75 -1.27 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.56 -2.08 0.00	46.89 -1.90 0.00	46.40 -1.93 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.86 -2.36 0.00	45.31 -3.20 0.00	47.02 -3.43 0.00	50.66 -3.99 0.00	49.47 -3.16 0.00	43.40 -1.90 0.00	41.11 -0.80 0.00	38.71 -0.63 0.00
MODERN_LFGE___ 323580	38.54 -1.28 0.00	35.97 -1.23 0.00	33.97 -1.64 0.00	33.26 -1.79 0.00	34.87 -1.87 0.00	32.70 -1.33 0.00	35.23 -1.43 0.00	39.75 -1.27 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.56 -2.08 0.00	46.89 -1.90 0.00	46.40 -1.93 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.86 -2.36 0.00	45.31 -3.20 0.00	47.02 -3.43 0.00	50.66 -3.99 0.00	49.47 -3.16 0.00	43.40 -1.90 0.00	41.11 -0.80 0.00	38.71 -0.63 0.00
MOHAWK_PAPER___DRP 24187	40.58 0.76 0.00	37.98 0.78 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.92 1.18 0.00	35.22 1.19 0.00	37.73 1.06 0.00	42.13 1.11 0.00	44.32 1.21 0.00	46.51 1.18 0.00	49.17 1.15 0.00	50.93 1.29 0.00	50.11 1.32 0.00	49.64 1.31 0.00	45.16 1.23 0.00	47.94 1.31 0.00	47.65 1.43 0.00	50.16 1.65 0.00	52.16 1.72 0.00	56.45 1.80 0.00	54.21 1.58 0.00	46.48 1.18 0.00	42.79 0.88 0.00	40.12 0.79 0.00
MOHICAN___35_KV_115KV_LD 80490	41.65 1.83 0.00	38.91 1.71 0.00	37.35 1.74 0.00	36.84 1.79 0.00	38.80 2.06 0.00	35.94 1.91 0.00	38.72 2.05 0.00	43.36 2.34 0.00	45.74 2.63 0.00	48.24 2.90 0.00	51.00 2.98 0.00	52.82 3.18 0.00	51.96 3.17 0.00	51.38 3.05 0.00	46.74 2.81 0.00	49.62 2.98 0.00	49.27 3.05 0.00	51.90 3.40 0.00	53.93 3.48 0.00	58.52 3.88 0.00	56.21 3.58 0.00	48.11 2.81 0.00	44.17 2.26 0.00	41.34 2.01 0.00
MONGAUP___HYD 23641	40.77 0.95 0.00	38.16 0.97 0.00	36.57 0.96 0.00	36.07 1.02 0.00	37.95 1.21 0.00	35.15 1.12 0.00	37.91 1.25 0.00	42.38 1.35 0.00	44.36 1.25 0.00	46.56 1.22 0.00	49.17 1.15 0.00	50.93 1.29 0.00	50.11 1.32 0.00	49.64 1.31 0.00	45.25 1.32 0.00	47.99 1.35 0.00	47.84 1.62 0.00	50.50 1.99 0.00	52.57 2.12 0.00	56.99 2.35 0.00	54.63 2.00 0.00	46.75 1.45 0.00	43.37 1.47 0.00	40.68 1.34 0.00
MONTAUK___DIESEL 23721	40.66 0.84 0.00	38.13 0.93 0.00	36.21 0.61 0.00	35.68 0.63 0.00	37.18 0.44 0.00	34.92 0.88 0.00	37.98 1.32 0.00	43.08 2.05 -0.01	45.46 2.11 -0.24	50.79 2.09 -3.37	49.23 1.20 -0.01	52.33 1.84 -0.86	52.35 1.76 -1.80	52.20 1.69 -2.18	50.98 1.76 -5.29	50.68 1.82 -2.23	52.09 1.89 -3.98	51.87 2.43 -0.94	52.53 2.07 -0.01	57.75 2.51 -0.59	54.80 2.16 -0.01	50.00 1.45 -3.25	45.12 1.26 -1.95	40.76 1.42 -0.01
MOONROAD_115KV_HARTFLD_TB1-2 355988	39.86 0.04 0.00	36.79 -0.41 0.00	34.65 -0.96 0.00	33.82 -1.23 0.00	35.02 -1.73 0.00	32.53 -1.50 0.00	35.56 -1.10 0.00	39.79 -1.23 0.00	41.56 -1.55 0.00	43.93 -1.41 0.00	46.53 -1.49 0.00	48.00 -1.64 0.00	47.38 -1.42 0.00	47.17 -1.16 0.00	43.23 -0.70 0.00	46.17 -0.47 0.00	45.57 -0.65 0.00	46.96 -1.55 0.00	49.04 -1.41 0.00	53.17 -1.48 0.00	52.16 -0.47 0.00	45.89 0.59 0.00	43.33 1.42 0.00	40.91 1.57 0.00



MORRIS_RIDGE___SOLAR 323848	39.42 -0.40 0.00	36.64 -0.56 0.00	34.72 -0.89 0.00	33.93 -1.12 0.00	35.49 -1.25 0.00	33.08 -0.95 0.00	35.67 -0.99 0.00	39.83 -1.19 0.00	41.65 -1.47 0.00	43.93 -1.41 0.00	46.53 -1.49 0.00	47.95 -1.69 0.00	47.23 -1.56 0.00	46.64 -1.69 0.00	42.52 -1.41 0.00	45.47 -1.16 0.00	44.83 -1.39 0.00	46.81 -1.70 0.00	48.83 -1.62 0.00	52.84 -1.80 0.00	51.42 -1.21 0.00	44.85 -0.45 0.00	42.08 0.17 0.00	39.69 0.35 0.00
MORTIMER_115KV_TB3 55949	39.50 -0.32 0.00	36.79 -0.41 0.00	34.90 -0.71 0.00	34.28 -0.77 0.00	35.86 -0.88 0.00	33.39 -0.65 0.00	36.26 -0.40 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.78 -0.24 0.00	49.29 -0.35 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.62 -0.31 0.00	46.36 -0.28 0.00	45.57 -0.65 0.00	47.30 -1.21 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.63 -1.00 0.00	44.80 -0.50 0.00	41.99 0.08 0.00	39.38 0.04 0.00
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
MUNSVILLE_WIND_PWR 323609	42.96 3.15 0.00	40.10 2.90 0.00	38.17 2.57 0.00	37.43 2.38 0.00	39.10 2.35 0.00	36.07 2.04 0.00	38.90 2.24 0.00	43.44 2.42 0.00	45.61 2.50 0.00	47.83 2.49 0.00	50.61 2.59 0.00	52.27 2.63 0.00	51.33 2.54 0.00	50.99 2.66 0.00	46.30 2.37 0.00	49.34 2.70 0.00	48.76 2.54 0.00	51.27 2.76 0.00	53.53 3.08 0.00	58.03 3.39 0.00	55.68 3.05 0.00	48.38 3.08 0.00	44.67 2.77 0.00	41.97 2.64 0.00
N SALMON___HYD 24042	40.57 0.75 0.00	37.87 0.67 0.00	36.11 0.50 0.00	35.36 0.31 0.00	36.85 0.11 0.00	34.00 -0.03 0.00	36.55 -0.11 0.00	40.86 -0.16 0.00	42.76 -0.35 0.00	45.02 -0.32 0.00	47.92 -0.10 0.00	49.19 -0.45 0.00	47.96 -0.83 0.00	47.46 -0.87 0.00	42.83 -1.10 0.00	45.47 -1.16 0.00	45.07 -1.15 0.00	47.30 -1.21 0.00	49.14 -1.31 0.00	53.22 -1.42 0.00	51.63 -1.00 0.00	44.62 -0.68 0.00	41.28 -0.63 0.00	38.67 -0.67 0.00
N.AKRON__115KV_KNAPP 355671	39.62 -0.20 0.00	36.90 -0.30 0.00	34.86 -0.75 0.00	34.17 -0.88 0.00	35.68 -1.07 0.00	33.32 -0.71 0.00	36.26 -0.40 0.00	40.74 -0.29 0.00	42.59 -0.52 0.00	44.93 -0.41 0.00	47.59 -0.43 0.00	49.00 -0.65 0.00	48.21 -0.59 0.00	47.71 -0.63 0.00	43.40 -0.53 0.00	46.12 -0.51 0.00	45.16 -1.06 0.00	46.62 -1.89 0.00	48.58 -1.87 0.00	52.40 -2.24 0.00	51.16 -1.47 0.00	44.71 -0.59 0.00	42.24 0.34 0.00	39.81 0.47 0.00
N.BELMOR_69_KV_BK1 55787	41.29 1.47 0.00	38.68 1.49 0.00	36.89 1.28 0.00	36.42 1.37 0.00	38.14 1.40 0.00	35.70 1.67 0.00	38.64 1.98 0.00	43.54 2.50 -0.01	46.03 2.59 -0.33	52.71 2.67 -4.70	50.67 2.64 -0.01	53.51 2.68 -1.19	53.93 2.63 -2.50	54.07 2.71 -3.03	53.89 2.59 -7.37	52.44 2.70 -3.10	54.67 2.91 -5.54	53.16 3.35 -1.31	53.89 3.43 -0.01	59.19 3.72 -0.83	56.06 3.42 -0.01	52.50 2.67 -4.53	47.01 2.39 -2.72	41.47 2.12 -0.01
N.E_GEN_SANDY PD 24062	40.62 0.80 0.00	37.98 0.78 0.00	36.50 0.89 0.00	36.03 0.98 0.00	36.22 1.36 1.88	35.85 1.36 -0.46	39.55 1.47 -1.42	42.62 1.60 0.00	46.03 1.73 -1.20	45.73 1.59 1.20	49.60 1.58 0.00	51.38 1.74 0.00	50.50 1.71 0.00	50.17 1.84 0.00	45.60 1.67 0.00	48.41 1.77 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.72 2.27 0.00	56.99 2.35 0.00	54.74 2.11 0.00	46.89 1.58 0.00	43.12 1.22 0.00	40.40 1.06 0.00
N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	40.74 0.92 0.00	38.13 0.93 0.00	36.54 0.93 0.00	36.07 1.02 0.00	37.88 1.14 0.00	35.29 1.26 0.00	38.02 1.36 0.00	42.58 1.56 0.00	44.88 1.77 0.00	47.19 1.86 0.00	49.84 1.82 0.00	51.58 1.94 0.00	50.74 1.95 0.00	50.32 1.98 0.00	45.86 1.93 0.00	48.60 1.96 0.00	48.35 2.13 0.00	50.93 2.43 0.00	52.92 2.47 0.00	57.43 2.79 0.00	55.10 2.47 0.00	47.11 1.81 0.00	43.42 1.51 0.00	40.64 1.30 0.00
N.QUEENS_27_KV_LOAD 356247	40.78 0.96 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.10 1.05 0.00	37.92 1.18 0.00	35.39 1.36 0.00	38.17 1.50 0.00	42.71 1.68 0.00	44.96 1.85 0.00	47.33 1.99 0.00	49.94 1.92 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.64 1.30 0.00
N.TROY___115KV_TB1 355778	40.82 1.00 0.00	38.13 0.93 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.14 1.40 0.00	35.43 1.40 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.84 1.72 0.00	46.97 1.63 0.00	49.70 1.68 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.46 1.82 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.67 2.22 0.00	56.99 2.35 0.00	54.79 2.16 0.00	46.93 1.63 0.00	43.17 1.26 0.00	40.48 1.14 0.00
NARROWS_GT1_1 24228	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_2 24229	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_3 24230	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_4 24231	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63



NARROWS_GT1_5 24232	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_6 24233	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_7 24234	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT1_8 24235	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_1 24236	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_2 24237	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_3 24238	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_4 24239	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_5 24240	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_6 24241	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_7 24242	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NARROWS_GT2_8 24243	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	41.05 1.23 0.00	38.42 1.23 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.36 1.62 0.00	35.53 1.50 0.00	37.98 1.32 0.00	42.38 1.35 0.00	44.58 1.47 0.00	46.74 1.41 0.00	49.36 1.34 0.00	51.08 1.44 0.00	50.26 1.46 0.00	49.78 1.45 0.00	45.34 1.41 0.00	48.18 1.54 0.00	47.98 1.76 0.00	50.64 2.13 0.00	52.72 2.27 0.00	57.05 2.40 0.00	54.73 2.11 0.00	46.89 1.59 0.00	43.21 1.30 0.00	40.60 1.26 0.00
NCHELSEA_115KV_TR2 355582	40.89 1.08 0.00	38.31 1.12 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.10 1.36 0.00	35.43 1.40 0.00	38.13 1.47 0.00	42.66 1.64 0.00	45.05 1.94 0.00	47.33 1.99 0.00	50.04 2.02 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.56 2.22 0.00	46.04 2.11 0.00	48.83 2.19 0.00	48.62 2.40 0.00	51.23 2.72 0.00	53.22 2.77 0.00	57.70 3.06 0.00	55.31 2.68 0.00	47.29 1.99 0.00	43.58 1.68 0.00	40.83 1.49 0.00
NEG CAPITAL___MECHNVIL 23645	41.37 1.55 0.00	38.64 1.45 0.00	37.14 1.53 0.00	36.63 1.58 0.00	38.58 1.84 0.00	35.77 1.73 0.00	38.53 1.87 0.00	43.12 2.09 0.00	45.44 2.33 0.00	47.78 2.45 0.00	50.51 2.50 0.00	52.37 2.73 0.00	51.47 2.68 0.00	50.99 2.66 0.00	46.35 2.41 0.00	49.20 2.56 0.00	48.90 2.68 0.00	51.42 2.91 0.00	53.47 3.03 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.70 2.40 0.00	43.84 1.93 0.00	41.07 1.73 0.00



NEG CENTRAL_HIGH_ACRES 23767	38.94 -0.88 0.00	36.34 -0.85 0.00	34.51 -1.10 0.00	33.89 -1.16 0.00	35.53 -1.21 0.00	33.08 -0.95 0.00	35.71 -0.95 0.00	40.24 -0.78 0.00	42.16 -0.95 0.00	44.52 -0.81 0.00	47.20 -0.82 0.00	48.75 -0.89 0.00	47.96 -0.83 0.00	47.46 -0.87 0.00	43.18 -0.75 0.00	45.84 -0.79 0.00	45.16 -1.06 0.00	47.01 -1.50 0.00	48.83 -1.62 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.26 -1.04 0.00	41.36 -0.55 0.00	38.79 -0.55 0.00
NEG CENTRAL___DRP 24199	40.06 0.24 0.00	37.38 0.19 0.00	35.61 0.00 0.00	34.98 -0.07 0.00	36.63 -0.11 0.00	34.03 0.00 0.00	36.85 0.18 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.65 0.32 0.00	48.40 0.38 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.62 0.29 0.00	44.24 0.31 0.00	47.06 0.42 0.00	46.50 0.28 0.00	48.70 0.19 0.00	50.75 0.30 0.00	54.75 0.11 0.00	52.79 0.16 0.00	45.75 0.45 0.00	42.50 0.59 0.00	39.89 0.55 0.00
NEG CENTRAL___INDECK 23768	40.74 0.92 0.00	37.87 0.67 0.00	35.86 0.25 0.00	35.12 0.07 0.00	36.78 0.04 0.00	34.27 0.24 0.00	36.99 0.33 0.00	41.56 0.53 0.00	43.33 0.22 0.00	45.65 0.32 0.00	48.26 0.24 0.00	49.69 0.05 0.00	48.89 0.10 0.00	48.29 -0.05 0.00	43.93 0.00 0.00	46.87 0.23 0.00	46.17 -0.05 0.00	48.32 -0.19 0.00	50.55 0.10 0.00	54.81 0.16 0.00	53.42 0.79 0.00	46.34 1.04 0.00	43.42 1.51 0.00	40.75 1.41 0.00
NEG CENTRAL___SENECA 23627	40.22 0.40 0.00	37.49 0.30 0.00	35.68 0.07 0.00	35.01 -0.04 0.00	36.67 -0.07 0.00	34.03 0.00 0.00	36.92 0.26 0.00	41.31 0.29 0.00	43.37 0.26 0.00	45.74 0.41 0.00	48.50 0.48 0.00	50.09 0.45 0.00	49.23 0.44 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.15 0.51 0.00	46.54 0.32 0.00	48.70 0.19 0.00	50.75 0.30 0.00	54.70 0.05 0.00	52.79 0.16 0.00	45.93 0.63 0.00	42.70 0.80 0.00	40.12 0.79 0.00
NEG CENTRAL___STATE_STREET 24147	40.10 0.28 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.08 0.04 0.00	36.78 0.04 0.00	34.13 0.10 0.00	36.92 0.26 0.00	41.39 0.37 0.00	43.50 0.39 0.00	45.88 0.54 0.00	48.59 0.58 0.00	50.24 0.60 0.00	49.43 0.63 0.00	48.91 0.58 0.00	44.50 0.57 0.00	47.29 0.65 0.00	46.82 0.60 0.00	49.04 0.53 0.00	51.00 0.55 0.00	55.13 0.49 0.00	53.10 0.47 0.00	45.84 0.54 0.00	42.50 0.59 0.00	39.85 0.51 0.00
NEG MILLWOOD___DRP 24198	41.05 1.23 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.25 1.51 0.00	35.56 1.53 0.00	38.24 1.58 0.00	42.79 1.76 0.00	45.27 2.16 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.16 2.52 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.48 3.03 0.00	57.98 3.33 0.00	55.68 3.05 0.00	47.57 2.27 0.00	43.79 1.89 0.00	40.99 1.65 0.00
NEG NORTH_FLCN_SEA 23793	40.97 1.15 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.61 0.56 0.00	37.18 0.44 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.11 0.00 0.00	45.38 0.05 0.00	48.26 0.24 0.00	49.54 -0.10 0.00	48.21 -0.59 0.00	47.56 -0.77 0.00	42.96 -0.97 0.00	45.61 -1.03 0.00	45.16 -1.06 0.00	47.39 -1.12 0.00	49.29 -1.16 0.00	53.39 -1.26 0.00	51.73 -0.89 0.00	44.76 -0.54 0.00	41.41 -0.50 0.00	38.83 -0.51 0.00
NEG NORTH_KES_CHATEGAY 23792	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.41 -0.26 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.79 -0.54 0.00	47.68 -0.34 0.00	48.95 -0.69 0.00	47.67 -1.12 0.00	47.03 -1.31 0.00	42.53 -1.41 0.00	45.10 -1.54 0.00	44.65 -1.57 0.00	46.86 -1.65 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.21 -1.09 0.00	40.90 -1.01 0.00	38.31 -1.02 0.00
NEG NORTH___ALICE_FALLS 23915	41.25 1.43 0.00	38.50 1.30 0.00	36.64 1.03 0.00	35.86 0.81 0.00	37.44 0.70 0.00	34.54 0.51 0.00	37.14 0.48 0.00	41.52 0.49 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.64 0.62 0.00	49.84 0.20 0.00	48.55 -0.24 0.00	47.95 -0.39 0.00	43.27 -0.66 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.77 -0.87 0.00	52.16 -0.47 0.00	45.12 -0.18 0.00	41.74 -0.17 0.00	39.10 -0.24 0.00
NEG NORTH___LWR_SARANAC 23913	41.25 1.43 0.00	38.50 1.30 0.00	36.64 1.03 0.00	35.86 0.81 0.00	37.44 0.70 0.00	34.54 0.51 0.00	37.14 0.48 0.00	41.52 0.49 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.64 0.62 0.00	49.84 0.20 0.00	48.55 -0.24 0.00	47.95 -0.39 0.00	43.27 -0.66 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.77 -0.87 0.00	52.16 -0.47 0.00	45.12 -0.18 0.00	41.74 -0.17 0.00	39.10 -0.24 0.00
NEG NORTH___PLATTSBURG 23628	41.25 1.43 0.00	38.50 1.30 0.00	36.64 1.03 0.00	35.86 0.81 0.00	37.44 0.70 0.00	34.54 0.51 0.00	37.14 0.48 0.00	41.52 0.49 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.64 0.62 0.00	49.84 0.20 0.00	48.55 -0.24 0.00	47.95 -0.39 0.00	43.27 -0.66 0.00	45.89 -0.75 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.64 -0.81 0.00	53.77 -0.88 0.00	52.21 -0.42 0.00	45.12 -0.18 0.00	41.74 -0.17 0.00	39.10 -0.23 0.00
NEG WEST_LEA_LOCKPORT 23791	38.90 -0.92 0.00	36.27 -0.93 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.64 -1.03 0.00	40.00 -1.03 0.00	41.82 -1.29 0.00	44.06 -1.27 0.00	46.67 -1.34 0.00	48.05 -1.59 0.00	47.28 -1.51 0.00	46.79 -1.55 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.60 -2.91 0.00	47.52 -2.93 0.00	51.20 -3.44 0.00	49.95 -2.68 0.00	43.85 -1.45 0.00	41.49 -0.42 0.00	39.18 -0.16 0.00
NEG WEST___LANCASTER 23811	39.50 -0.32 0.00	36.82 -0.37 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.64 -1.10 0.00	33.22 -0.82 0.00	36.22 -0.44 0.00	40.57 -0.45 0.00	42.46 -0.65 0.00	44.74 -0.59 0.00	47.39 -0.62 0.00	48.75 -0.89 0.00	47.96 -0.83 0.00	47.51 -0.82 0.00	43.32 -0.62 0.00	45.89 -0.75 0.00	45.06 -1.16 0.00	46.62 -1.89 0.00	48.63 -1.82 0.00	52.57 -2.08 0.00	51.21 -1.42 0.00	44.89 -0.41 0.00	42.24 0.34 0.00	39.85 0.51 0.00
NEG_PENN_ALLEGHNY 23528	40.10 0.28 0.00	37.46 0.26 0.00	35.75 0.14 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.20 0.17 0.00	36.92 0.26 0.00	41.35 0.33 0.00	43.41 0.30 0.00	45.74 0.41 0.00	48.45 0.43 0.00	50.09 0.45 0.00	49.28 0.49 0.00	48.72 0.38 0.00	44.33 0.39 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.85 0.40 0.00	55.03 0.39 0.00	53.05 0.42 0.00	45.80 0.50 0.00	42.45 0.54 0.00	39.93 0.59 0.00
NEG___GEN_MONROE 24207	39.42 -0.40 0.00	36.71 -0.48 0.00	34.90 -0.71 0.00	34.24 -0.81 0.00	35.86 -0.88 0.00	33.42 -0.61 0.00	36.26 -0.40 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.95 -0.69 0.00	48.16 -0.63 0.00	47.71 -0.63 0.00	43.40 -0.53 0.00	46.08 -0.56 0.00	45.25 -0.97 0.00	46.91 -1.60 0.00	48.93 -1.51 0.00	52.95 -1.69 0.00	51.42 -1.21 0.00	44.71 -0.59 0.00	41.95 0.04 0.00	39.46 0.12 0.00



NEPA___ENERGY 23901	39.70 -0.12 0.00	36.94 -0.26 0.00	34.97 -0.64 0.00	34.21 -0.84 0.00	35.71 -1.03 0.00	33.28 -0.75 0.00	36.30 -0.37 0.00	40.61 -0.41 0.00	42.51 -0.60 0.00	44.74 -0.59 0.00	47.44 -0.58 0.00	48.80 -0.84 0.00	47.96 -0.83 0.00	47.51 -0.82 0.00	43.36 -0.57 0.00	46.03 -0.61 0.00	45.25 -0.97 0.00	46.91 -1.60 0.00	49.04 -1.41 0.00	53.06 -1.58 0.00	51.68 -0.95 0.00	45.26 -0.05 0.00	42.54 0.63 0.00	40.20 0.87 0.00
NEVERSink___HYD 23608	40.62 0.80 0.00	37.98 0.78 0.00	36.43 0.82 0.00	35.93 0.88 0.00	37.77 1.03 0.00	35.02 0.99 0.00	37.76 1.10 0.00	42.21 1.19 0.00	44.53 1.42 0.00	46.78 1.45 0.00	49.46 1.44 0.00	51.28 1.64 0.00	50.45 1.66 0.00	49.98 1.64 0.00	45.51 1.58 0.00	48.31 1.68 0.00	48.07 1.85 0.00	50.64 2.13 0.00	52.72 2.27 0.00	57.10 2.46 0.00	54.74 2.11 0.00	46.84 1.54 0.00	43.21 1.30 0.00	40.52 1.18 0.00
NEWKRMKL_115KV_TB1 55635	40.34 0.52 0.00	37.72 0.52 0.00	36.25 0.64 0.00	35.79 0.74 0.00	37.70 0.96 0.00	34.99 0.95 0.00	37.36 0.70 0.00	41.72 0.70 0.00	43.80 0.69 0.00	46.01 0.68 0.00	48.64 0.62 0.00	50.39 0.74 0.00	49.62 0.83 0.00	49.16 0.82 0.00	44.72 0.79 0.00	47.48 0.84 0.00	47.19 0.97 0.00	49.63 1.12 0.00	51.61 1.16 0.00	55.85 1.20 0.00	53.63 1.00 0.00	45.98 0.68 0.00	42.37 0.46 0.00	39.73 0.39 0.00
NEWTON___FALLS_HYD 23847	38.90 -0.92 0.00	36.34 -0.86 0.00	34.75 -0.85 0.00	34.17 -0.88 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.38 -1.95 0.00	46.00 -2.02 0.00	47.46 -2.18 0.00	46.60 -2.20 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.72 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
NGRID_A1_DSASP 323792	38.91 -0.91 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.16 -1.58 0.00	33.01 -1.02 0.00	35.42 -1.25 0.00	39.79 -1.23 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.60 -2.04 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.81 -2.41 0.00	45.21 -3.30 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.32 -3.31 0.00	43.31 -1.99 0.00	41.07 -0.84 0.00	38.82 -0.51 0.00
NGRID_A2_DSASP 323793	38.91 -0.91 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.16 -1.58 0.00	33.01 -1.02 0.00	35.42 -1.25 0.00	39.79 -1.23 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.60 -2.04 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.81 -2.41 0.00	45.21 -3.30 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.32 -3.31 0.00	43.31 -1.99 0.00	41.07 -0.84 0.00	38.82 -0.51 0.00
NGRID_A4_DSASP 323807	38.91 -0.91 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.16 -1.58 0.00	33.01 -1.02 0.00	35.42 -1.25 0.00	39.79 -1.23 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.60 -2.04 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.81 -2.41 0.00	45.21 -3.30 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.32 -3.31 0.00	43.31 -1.99 0.00	41.07 -0.84 0.00	38.82 -0.51 0.00
NIAGARA_115E_LBMP 323715	38.35 -1.47 0.00	35.78 -1.41 0.00	33.83 -1.78 0.00	33.09 -1.96 0.00	34.69 -2.06 0.00	32.57 -1.46 0.00	35.09 -1.58 0.00	39.59 -1.44 0.00	41.30 -1.81 0.00	43.47 -1.86 0.00	46.00 -2.01 0.00	47.31 -2.33 0.00	46.65 -2.15 0.00	46.16 -2.17 0.00	42.04 -1.89 0.00	44.59 -2.05 0.00	43.59 -2.63 0.00	45.02 -3.49 0.00	46.77 -3.68 0.00	50.38 -4.26 0.00	49.15 -3.48 0.00	43.17 -2.13 0.00	40.90 -1.01 0.00	38.51 -0.83 0.00
NIAGARA_115W_LBMP 323714	38.83 -0.99 0.00	36.19 -1.00 0.00	34.22 -1.39 0.00	33.47 -1.58 0.00	35.09 -1.65 0.00	32.94 -1.09 0.00	35.31 -1.36 0.00	39.67 -1.35 0.00	41.39 -1.73 0.00	43.57 -1.77 0.00	46.10 -1.92 0.00	47.41 -2.23 0.00	46.75 -2.05 0.00	46.26 -2.08 0.00	42.13 -1.80 0.00	44.68 -1.96 0.00	43.68 -2.54 0.00	45.07 -3.44 0.00	46.77 -3.68 0.00	50.38 -4.26 0.00	49.15 -3.48 0.00	43.17 -2.13 0.00	40.90 -1.01 0.00	38.71 -0.63 0.00
NIAGARA_230_LBMP 323716	38.71 -1.11 0.00	36.04 -1.15 0.00	34.08 -1.53 0.00	33.37 -1.68 0.00	34.98 -1.76 0.00	32.84 -1.19 0.00	35.45 -1.21 0.00	40.00 -1.02 0.00	41.73 -1.38 0.00	43.93 -1.41 0.00	46.48 -1.54 0.00	47.86 -1.79 0.00	47.13 -1.66 0.00	46.64 -1.69 0.00	42.48 -1.45 0.00	45.05 -1.59 0.00	44.05 -2.17 0.00	45.50 -3.01 0.00	47.27 -3.18 0.00	50.93 -3.72 0.00	49.68 -2.95 0.00	43.58 -1.72 0.00	41.24 -0.67 0.00	38.82 -0.51 0.00
NIAGARA___115KV_198_GIBSON 55903	38.82 -1.00 0.00	36.19 -1.00 0.00	34.22 -1.39 0.00	33.47 -1.58 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.49 -1.17 0.00	39.55 -1.48 0.00	41.39 -1.72 0.00	43.57 -1.77 0.00	46.15 -1.87 0.00	47.51 -2.13 0.00	46.74 -2.05 0.00	46.30 -2.03 0.00	42.13 -1.80 0.00	44.68 -1.96 0.00	43.68 -2.54 0.00	44.92 -3.59 0.00	46.77 -3.68 0.00	50.38 -4.26 0.00	49.16 -3.47 0.00	43.17 -2.13 0.00	40.90 -1.01 0.00	38.51 -0.83 0.00
NIAGARA____ 23760	38.71 -1.11 0.00	36.04 -1.15 0.00	34.08 -1.53 0.00	33.37 -1.68 0.00	34.98 -1.76 0.00	32.84 -1.19 0.00	35.45 -1.21 0.00	40.00 -1.02 0.00	41.73 -1.38 0.00	43.93 -1.41 0.00	46.48 -1.54 0.00	47.86 -1.79 0.00	47.13 -1.66 0.00	46.64 -1.69 0.00	42.48 -1.45 0.00	45.05 -1.59 0.00	44.05 -2.17 0.00	45.50 -3.01 0.00	47.27 -3.18 0.00	50.93 -3.72 0.00	49.68 -2.95 0.00	43.58 -1.72 0.00	41.24 -0.67 0.00	38.82 -0.51 0.00
NINE_MILE_1 23575	39.14 -0.68 0.00	36.53 -0.67 0.00	34.93 -0.68 0.00	34.35 -0.70 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.61 -0.73 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.27 -0.66 0.00	45.98 -0.65 0.00	45.48 -0.74 0.00	47.68 -0.82 0.00	49.59 -0.86 0.00	53.66 -0.98 0.00	51.73 -0.90 0.00	44.57 -0.73 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00
NINE_MILE_2 23744	39.10 -0.72 0.00	36.53 -0.67 0.00	34.93 -0.68 0.00	34.35 -0.70 0.00	36.01 -0.73 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.38 -0.73 0.00	44.61 -0.73 0.00	47.25 -0.77 0.00	48.90 -0.74 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.27 -0.66 0.00	45.94 -0.70 0.00	45.48 -0.74 0.00	47.68 -0.82 0.00	49.59 -0.86 0.00	53.66 -0.98 0.00	51.73 -0.90 0.00	44.57 -0.73 0.00	41.32 -0.59 0.00	38.75 -0.59 0.00
NM_CAPITAL___DRP 24208	40.34 0.52 0.00	37.75 0.56 0.00	36.29 0.68 0.00	35.82 0.77 0.00	37.74 0.99 0.00	35.05 1.02 0.00	37.51 0.84 0.00	41.84 0.82 0.00	43.97 0.86 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.53 0.89 0.00	49.72 0.93 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00



NM_CENTRAL___DRP 24181	39.74 -0.08 0.00	37.12 -0.07 0.00	35.47 -0.14 0.00	34.87 -0.18 0.00	36.56 -0.18 0.00	33.93 -0.10 0.00	36.63 -0.04 0.00	41.02 0.00 0.00	43.11 0.00 0.00	45.42 0.09 0.00	48.16 0.14 0.00	49.84 0.20 0.00	49.04 0.24 0.00	48.53 0.19 0.00	44.11 0.18 0.00	46.87 0.23 0.00	46.36 0.14 0.00	48.56 0.05 0.00	50.50 0.05 0.00	54.70 0.05 0.00	52.63 0.00 0.00	45.39 0.09 0.00	42.03 0.13 0.00	39.46 0.12 0.00
NM_FRONTIER___DRP 24179	38.82 -1.00 0.00	36.19 -1.00 0.00	34.22 -1.39 0.00	33.47 -1.58 0.00	35.02 -1.73 0.00	32.74 -1.29 0.00	35.49 -1.17 0.00	39.55 -1.48 0.00	41.39 -1.72 0.00	43.57 -1.77 0.00	46.15 -1.87 0.00	47.51 -2.13 0.00	46.74 -2.05 0.00	46.30 -2.03 0.00	42.13 -1.80 0.00	44.68 -1.96 0.00	43.68 -2.54 0.00	44.92 -3.59 0.00	46.77 -3.68 0.00	50.38 -4.26 0.00	49.16 -3.47 0.00	43.17 -2.13 0.00	40.90 -1.01 0.00	38.51 -0.83 0.00
NM_ST_REGIS___HYD 24053	39.42 -0.40 0.00	36.82 -0.37 0.00	35.22 -0.39 0.00	34.56 -0.49 0.00	36.01 -0.73 0.00	33.18 -0.85 0.00	35.67 -0.99 0.00	39.88 -1.15 0.00	41.77 -1.34 0.00	43.93 -1.41 0.00	46.63 -1.39 0.00	48.00 -1.64 0.00	46.99 -1.81 0.00	46.59 -1.74 0.00	42.13 -1.80 0.00	44.73 -1.91 0.00	44.37 -1.85 0.00	46.57 -1.94 0.00	48.43 -2.02 0.00	52.51 -2.13 0.00	50.79 -1.84 0.00	43.85 -1.45 0.00	40.53 -1.38 0.00	38.08 -1.26 0.00
NORTHPORT___1 23551	40.69 0.87 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.93 0.88 0.00	37.84 1.10 0.00	35.26 1.22 0.00	38.35 1.69 0.00	43.16 2.13 -0.01	45.59 2.24 -0.24	50.83 2.18 -3.32	49.95 1.92 -0.01	52.27 1.78 -0.84	52.27 1.71 -1.77	52.27 1.79 -2.15	50.99 1.84 -5.21	50.70 1.87 -2.19	52.27 2.13 -3.92	52.05 2.62 -0.92	52.98 2.52 -0.01	57.90 2.68 -0.58	55.16 2.53 -0.01	50.55 2.04 -3.21	45.72 1.89 -1.92	41.00 1.65 -0.01
NORTHPORT___2 23552	40.69 0.87 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.93 0.88 0.00	37.84 1.10 0.00	35.26 1.22 0.00	38.35 1.69 0.00	43.16 2.13 -0.01	45.59 2.24 -0.24	50.83 2.18 -3.32	49.95 1.92 -0.01	52.27 1.78 -0.84	52.27 1.71 -1.77	52.27 1.79 -2.15	50.99 1.84 -5.21	50.70 1.87 -2.19	52.27 2.13 -3.92	52.05 2.62 -0.92	52.98 2.52 -0.01	57.90 2.68 -0.58	55.16 2.53 -0.01	50.55 2.04 -3.21	45.72 1.89 -1.92	41.00 1.65 -0.01
NORTHPORT___3 23553	41.37 1.55 0.00	38.76 1.56 0.00	36.96 1.35 0.00	36.49 1.44 0.00	38.40 1.65 0.00	35.73 1.70 0.00	38.83 2.16 0.00	43.66 2.63 -0.01	46.15 2.80 -0.24	51.55 2.86 -3.35	50.81 2.78 -0.01	53.37 2.88 -0.85	53.41 2.83 -1.79	53.40 2.90 -2.17	51.96 2.77 -5.26	51.70 2.85 -2.21	53.28 3.10 -3.96	52.94 3.49 -0.93	54.04 3.58 -0.01	59.11 3.88 -0.59	56.17 3.53 -0.01	51.35 2.81 -3.24	46.32 2.47 -1.94	41.55 2.20 -0.01
NORTHPORT___4 23650	41.37 1.55 0.00	38.76 1.56 0.00	36.96 1.35 0.00	36.49 1.44 0.00	38.40 1.65 0.00	35.73 1.70 0.00	38.83 2.16 0.00	43.66 2.63 -0.01	46.15 2.80 -0.24	51.55 2.86 -3.35	50.81 2.78 -0.01	53.37 2.88 -0.85	53.41 2.83 -1.79	53.40 2.90 -2.17	51.96 2.77 -5.26	51.70 2.85 -2.21	53.28 3.10 -3.96	52.94 3.49 -0.93	54.04 3.58 -0.01	59.11 3.88 -0.59	56.17 3.53 -0.01	51.35 2.81 -3.24	46.32 2.47 -1.94	41.55 2.20 -0.01
NORTHPORT___IC 23718	40.70 0.88 0.00	38.20 1.00 0.00	36.39 0.78 0.00	35.96 0.91 0.00	37.59 0.85 0.00	35.29 1.26 0.00	38.31 1.65 0.00	43.17 2.13 -0.01	45.55 2.20 -0.24	50.83 2.18 -3.32	49.90 1.87 -0.01	52.17 1.69 -0.84	52.12 1.56 -1.77	52.12 1.64 -2.15	50.90 1.76 -5.21	50.70 1.87 -2.19	52.27 2.13 -3.92	52.05 2.62 -0.92	52.98 2.52 -0.01	57.91 2.68 -0.58	55.16 2.53 -0.01	50.55 2.04 -3.21	45.72 1.89 -1.92	41.00 1.65 -0.01
NORTH___COUNTRY_ESR 323785	40.50 0.68 0.00	37.72 0.52 0.00	35.93 0.32 0.00	35.19 0.14 0.00	36.71 -0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.79 -0.54 0.00	47.68 -0.33 0.00	48.95 -0.70 0.00	47.67 -1.12 0.00	47.03 -1.30 0.00	42.52 -1.41 0.00	45.10 -1.54 0.00	44.65 -1.57 0.00	46.86 -1.65 0.00	48.73 -1.72 0.00	52.73 -1.91 0.00	51.10 -1.53 0.00	44.21 -1.09 0.00	40.90 -1.01 0.00	38.31 -1.02 0.00
NPX_GEN_1385_PROXY 323591	40.10 0.28 0.00	37.90 0.70 0.00	36.14 0.53 0.00	35.68 0.63 0.00	35.71 0.85 1.88	35.72 1.22 -0.46	39.84 1.76 -1.42	43.12 2.09 -0.01	46.74 2.20 -1.43	49.23 1.77 -2.13	49.56 1.54 -0.01	51.53 1.04 -0.84	51.20 0.63 -1.77	51.21 0.73 -2.15	50.02 0.88 -5.21	49.67 0.84 -2.19	51.67 1.52 -3.92	51.95 2.52 -0.92	52.58 2.12 -0.01	57.09 1.86 -0.58	55.01 2.37 -0.01	50.23 1.72 -3.21	45.38 1.55 -1.92	40.68 1.34 -0.01
NPX_GEN_CSC 323557	40.34 0.52 0.00	37.79 0.59 0.00	36.00 0.39 0.00	35.54 0.49 0.00	35.56 0.70 1.88	35.31 0.82 -0.46	39.55 1.47 -1.42	43.00 1.97 -0.01	46.40 1.85 -1.43	49.33 1.82 -2.18	49.52 1.49 -0.01	52.13 1.64 -0.86	52.15 1.56 -1.79	52.10 1.59 -2.18	50.89 1.67 -5.29	50.59 1.73 -2.23	52.18 1.99 -3.98	51.87 2.42 -0.94	52.78 2.32 -0.01	57.86 2.62 -0.59	54.95 2.31 -0.01	50.32 1.76 -3.25	45.37 1.51 -1.95	40.60 1.26 -0.01
NSINS_S_GLNS_FALLS 23858	41.65 1.83 0.00	38.91 1.71 0.00	37.39 1.78 0.00	36.87 1.82 0.00	38.84 2.09 0.00	35.97 1.94 0.00	38.75 2.09 0.00	43.40 2.38 0.00	45.78 2.67 0.00	48.33 2.99 0.00	51.04 3.03 0.00	52.92 3.28 0.00	52.01 3.22 0.00	51.48 3.14 0.00	46.79 2.86 0.00	49.67 3.03 0.00	49.32 3.10 0.00	51.95 3.44 0.00	53.98 3.53 0.00	58.58 3.93 0.00	56.26 3.63 0.00	48.15 2.85 0.00	44.21 2.30 0.00	41.38 2.05 0.00
NUCOR_STEEL___DRP 24197	40.22 0.40 0.00	37.53 0.33 0.00	35.82 0.21 0.00	35.23 0.18 0.00	36.93 0.18 0.00	34.24 0.20 0.00	37.03 0.37 0.00	41.48 0.45 0.00	43.63 0.52 0.00	45.97 0.63 0.00	48.69 0.67 0.00	50.39 0.74 0.00	49.52 0.73 0.00	49.01 0.68 0.00	44.59 0.66 0.00	47.38 0.75 0.00	46.87 0.65 0.00	49.09 0.58 0.00	51.05 0.61 0.00	55.24 0.60 0.00	53.21 0.58 0.00	45.93 0.63 0.00	42.58 0.67 0.00	39.93 0.59 0.00
NUMBER_THREE_WT_PWR 323818	39.86 0.04 0.00	37.20 0.00 0.00	35.54 -0.07 0.00	34.98 -0.07 0.00	36.12 -0.62 0.00	33.35 -0.68 0.00	35.93 -0.73 0.00	40.16 -0.86 0.00	42.16 -0.95 0.00	44.25 -1.09 0.00	46.92 -1.10 0.00	48.40 -1.24 0.00	47.62 -1.17 0.00	47.22 -1.11 0.00	42.88 -1.05 0.00	45.61 -1.03 0.00	45.30 -0.92 0.00	47.73 -0.78 0.00	49.79 -0.66 0.00	54.04 -0.60 0.00	51.94 -0.69 0.00	44.80 -0.50 0.00	41.28 -0.63 0.00	38.67 -0.67 0.00
NYISO_LBMP_REFERENCE 24008	39.82 0.00 0.00	37.20 0.00 0.00	35.61 0.00 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.03 0.00 0.00	36.66 0.00 0.00	41.02 0.00 0.00	43.11 0.00 0.00	45.33 0.00 0.00	48.02 0.00 0.00	49.64 0.00 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.93 0.00 0.00	46.64 0.00 0.00	46.22 0.00 0.00	48.51 0.00 0.00	50.45 0.00 0.00	54.64 0.00 0.00	52.63 0.00 0.00	45.30 0.00 0.00	41.91 0.00 0.00	39.34 0.00 0.00



NYPA_BRENTWD____GT 24164	41.21 1.39 0.00	38.64 1.45 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.75 2.09 0.00	43.66 2.63 -0.01	46.12 2.76 -0.24	51.53 2.77 -3.43	50.62 2.59 -0.01	53.14 2.63 -0.87	53.15 2.54 -1.83	53.11 2.56 -2.21	51.85 2.55 -5.38	51.56 2.66 -2.26	53.18 2.91 -4.05	52.86 3.39 -0.95	53.84 3.38 -0.01	58.91 3.66 -0.60	56.06 3.42 -0.01	51.33 2.72 -3.31	46.32 2.43 -1.98	41.51 2.16 -0.01
NYPA_GOWANUS____GT5 24156	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NYPA_GOWANUS____GT6 24157	46.45 1.63 -5.00	38.80 1.60 -0.01	37.18 1.57 -0.01	36.67 1.61 -0.01	38.62 1.87 -0.01	35.88 1.84 -0.01	38.76 2.09 -0.01	43.33 2.30 -0.01	54.00 2.50 -8.39	54.75 2.67 -6.74	54.07 2.64 -3.41	56.88 2.93 -4.31	56.87 2.93 -5.15	58.03 2.90 -6.79	56.74 2.77 -10.04	57.33 2.85 -7.84	57.07 3.05 -7.80	58.03 3.34 -6.17	57.99 3.43 -4.11	58.47 3.82 -0.01	58.01 3.47 -1.91	54.75 2.63 -6.83	54.73 2.26 -10.56	53.94 1.97 -12.63
NYPA_HARLEM__RVR__GT1 24160	40.77 0.95 0.01	38.19 1.00 0.01	36.60 1.00 0.01	36.09 1.05 0.01	37.98 1.25 0.01	35.32 1.29 0.01	38.16 1.50 0.01	42.66 1.64 0.01	44.96 1.85 0.01	47.27 1.95 0.01	49.93 1.92 0.01	51.77 2.13 0.01	50.93 2.14 0.01	50.50 2.18 0.01	46.03 2.11 0.01	48.78 2.15 0.01	48.57 2.36 0.01	51.12 2.62 0.01	53.11 2.67 0.01	57.58 2.95 0.01	55.25 2.63 0.01	47.15 1.86 0.01	43.45 1.55 0.01	40.63 1.30 0.01
NYPA_HARLEM__RVR__GT2 24161	40.77 0.95 0.01	38.19 1.00 0.01	36.60 1.00 0.01	36.09 1.05 0.01	37.98 1.25 0.01	35.32 1.29 0.01	38.16 1.50 0.01	42.66 1.64 0.01	44.96 1.85 0.01	47.27 1.95 0.01	49.93 1.92 0.01	51.77 2.13 0.01	50.93 2.14 0.01	50.50 2.18 0.01	46.03 2.11 0.01	48.78 2.15 0.01	48.57 2.36 0.01	51.12 2.62 0.01	53.11 2.67 0.01	57.58 2.95 0.01	55.25 2.63 0.01	47.15 1.86 0.01	43.45 1.55 0.01	40.63 1.30 0.01
NYPA_KENT____GT 24152	38.80 1.47 2.49	38.65 1.45 0.00	37.04 1.43 0.00	36.52 1.47 0.00	38.47 1.73 0.00	35.74 1.70 0.00	38.61 1.94 0.00	43.16 2.13 0.00	58.01 2.33 -12.57	57.93 2.49 -10.11	55.57 2.45 -5.10	58.82 2.73 -6.45	59.24 2.73 -7.72	61.23 2.71 -10.19	41.51 2.59 5.02	61.05 2.66 -11.76	60.77 2.87 -11.69	60.91 3.15 -9.25	59.84 3.23 -6.16	58.25 3.61 0.00	58.74 3.26 -2.85	57.93 2.40 -10.23	59.79 2.05 -15.83	60.09 1.81 -18.94
NYPA_POUCH1____GT 24155	46.41 1.59 -5.00	38.77 1.56 -0.01	37.15 1.53 -0.01	36.64 1.58 -0.01	38.59 1.84 -0.01	35.84 1.80 -0.01	38.72 2.05 -0.01	43.25 2.21 -0.01	53.91 2.41 -8.39	54.66 2.58 -6.74	53.97 2.54 -3.41	56.68 2.73 -4.31	56.72 2.78 -5.15	57.88 2.75 -6.79	56.61 2.64 -10.04	57.14 2.66 -7.84	56.93 2.91 -7.80	57.88 3.20 -6.17	57.84 3.28 -4.11	58.26 3.61 -0.01	57.85 3.32 -1.91	54.66 2.54 -6.83	54.65 2.18 -10.56	53.90 1.93 -12.63
NYPA_VERNON____GT2 24162	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.60 1.57 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.64 2.31 0.00	50.28 2.26 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.99 1.65 0.00
NYPA_VERNON____GT3 24163	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.60 1.57 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.64 2.31 0.00	50.28 2.26 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.99 1.65 0.00
NYPA__ASTORIA_CC1 323568	41.09 1.27 0.00	38.46 1.27 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	42.91 1.89 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.46 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.58 0.00
NYPA__ASTORIA_CC2 323569	41.09 1.27 0.00	38.46 1.27 0.00	36.89 1.28 0.00	36.35 1.30 0.00	38.29 1.54 0.00	35.57 1.53 0.00	38.42 1.76 0.00	42.91 1.89 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.46 0.00	46.30 2.37 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.75 1.84 0.00	40.91 1.58 0.00
NYPA__HOLTSVILL 23794	40.85 1.03 0.00	38.28 1.08 0.00	36.46 0.85 0.00	36.03 0.98 0.00	37.92 1.18 0.00	35.29 1.26 0.00	38.46 1.80 0.00	43.33 2.30 -0.01	45.72 2.37 -0.24	51.06 2.36 -3.37	50.14 2.11 -0.01	52.68 2.18 -0.86	52.73 2.14 -1.79	52.69 2.18 -2.17	51.41 2.20 -5.28	51.10 2.24 -2.22	52.69 2.49 -3.97	52.41 2.96 -0.94	53.38 2.92 -0.01	58.46 3.22 -0.59	55.58 2.95 -0.01	50.86 2.31 -3.25	45.91 2.05 -1.95	41.12 1.77 -0.01
NYPA__HELLGATE_GT1 24158	40.77 0.95 0.01	38.19 1.00 0.01	36.60 1.00 0.01	36.09 1.05 0.01	37.98 1.25 0.01	35.32 1.29 0.01	38.16 1.50 0.01	42.66 1.64 0.01	44.96 1.85 0.01	47.27 1.95 0.01	49.93 1.92 0.01	51.77 2.13 0.01	50.93 2.14 0.01	50.50 2.18 0.01	46.03 2.11 0.01	48.78 2.15 0.01	48.57 2.36 0.01	51.12 2.62 0.01	53.11 2.67 0.01	57.58 2.95 0.01	55.25 2.63 0.01	47.15 1.86 0.01	43.45 1.55 0.01	40.63 1.30 0.01
NYPA__HELLGATE_GT2 24159	40.77 0.95 0.01	38.19 1.00 0.01	36.60 1.00 0.01	36.09 1.05 0.01	37.98 1.25 0.01	35.32 1.29 0.01	38.16 1.50 0.01	42.66 1.64 0.01	44.96 1.85 0.01	47.27 1.95 0.01	49.93 1.92 0.01	51.77 2.13 0.01	50.93 2.14 0.01	50.50 2.18 0.01	46.03 2.11 0.01	48.78 2.15 0.01	48.57 2.36 0.01	51.12 2.62 0.01	53.11 2.67 0.01	57.58 2.95 0.01	55.25 2.63 0.01	47.15 1.86 0.01	43.45 1.55 0.01	40.63 1.30 0.01
NYS_BARGE__HYD 23848	38.91 -0.91 0.00	36.27 -0.93 0.00	34.29 -1.32 0.00	33.54 -1.51 0.00	35.16 -1.58 0.00	32.98 -1.06 0.00	35.53 -1.14 0.00	40.08 -0.94 0.00	41.86 -1.25 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	48.00 -1.64 0.00	47.28 -1.51 0.00	46.83 -1.50 0.00	42.61 -1.32 0.00	45.24 -1.40 0.00	44.28 -1.94 0.00	45.75 -2.76 0.00	47.47 -2.98 0.00	51.20 -3.44 0.00	50.00 -2.63 0.00	43.85 -1.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00



OAK ORCHARD___HYD 24046	39.50 -0.32 0.00	36.79 -0.41 0.00	34.90 -0.71 0.00	34.28 -0.77 0.00	35.93 -0.81 0.00	33.52 -0.51 0.00	36.18 -0.48 0.00	40.78 -0.24 0.00	42.72 -0.39 0.00	45.06 -0.27 0.00	47.73 -0.29 0.00	49.24 -0.40 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.67 -0.26 0.00	46.36 -0.28 0.00	45.57 -0.65 0.00	47.40 -1.11 0.00	49.24 -1.21 0.00	53.17 -1.47 0.00	51.68 -0.95 0.00	44.80 -0.50 0.00	42.03 0.13 0.00	39.38 0.04 0.00
OAKDALE___35_KV_LOAD 356122	40.06 0.24 0.00	37.38 0.19 0.00	35.72 0.11 0.00	35.12 0.07 0.00	36.82 0.07 0.00	34.13 0.10 0.00	36.92 0.26 0.00	41.27 0.25 0.00	43.37 0.26 0.00	45.65 0.32 0.00	48.35 0.34 0.00	49.99 0.35 0.00	49.13 0.34 0.00	48.62 0.29 0.00	44.24 0.31 0.00	46.96 0.33 0.00	46.50 0.28 0.00	48.70 0.19 0.00	50.75 0.30 0.00	54.92 0.27 0.00	52.95 0.32 0.00	45.71 0.41 0.00	42.41 0.50 0.00	39.85 0.51 0.00
OCC_CHEM___DRP 24175	38.90 -0.92 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.56 -1.10 0.00	39.71 -1.31 0.00	41.52 -1.60 0.00	43.70 -1.63 0.00	46.29 -1.73 0.00	47.65 -1.99 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.82 -2.40 0.00	45.07 -3.44 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
OH_GEN_PROXY 24063	38.71 -1.11 0.00	36.04 -1.15 0.00	34.08 -1.53 0.00	33.40 -1.65 0.00	33.10 -1.76 1.88	33.30 -1.19 -0.46	36.91 -1.17 -1.42	40.00 -1.02 0.00	42.97 -1.34 -1.20	42.78 -1.36 1.20	46.53 -1.49 0.00	47.86 -1.79 0.00	47.18 -1.61 0.00	46.69 -1.64 0.00	42.48 -1.45 0.00	45.10 -1.54 0.00	44.09 -2.13 0.00	45.60 -2.91 0.00	47.42 -3.03 0.00	51.09 -3.55 0.00	49.79 -2.84 0.00	43.63 -1.68 0.00	41.28 -0.63 0.00	38.87 -0.47 0.00
OLIN_CORP_DRP 24177	38.43 -1.39 0.00	35.86 -1.34 0.00	33.90 -1.71 0.00	33.16 -1.89 0.00	34.61 -2.13 0.00	32.43 -1.60 0.00	35.27 -1.39 0.00	39.59 -1.44 0.00	41.39 -1.72 0.00	43.61 -1.72 0.00	46.15 -1.87 0.00	47.56 -2.08 0.00	46.79 -2.00 0.00	46.30 -2.03 0.00	42.13 -1.80 0.00	44.73 -1.91 0.00	43.72 -2.50 0.00	45.02 -3.49 0.00	46.87 -3.58 0.00	50.49 -4.15 0.00	49.26 -3.37 0.00	43.26 -2.04 0.00	40.99 -0.92 0.00	38.75 -0.59 0.00
OLIN_CORP_DSASP 323712	38.91 -0.91 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.16 -1.58 0.00	33.01 -1.02 0.00	35.42 -1.25 0.00	39.79 -1.23 0.00	41.52 -1.59 0.00	43.70 -1.63 0.00	46.24 -1.78 0.00	47.60 -2.04 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.81 -2.41 0.00	45.21 -3.30 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.32 -3.31 0.00	43.31 -1.99 0.00	41.07 -0.84 0.00	38.82 -0.51 0.00
ONEIDA_HERK_LFGE 323681	40.30 0.48 0.00	37.61 0.41 0.00	36.00 0.39 0.00	35.44 0.39 0.00	36.89 0.15 0.00	34.13 0.10 0.00	36.77 0.11 0.00	41.11 0.08 0.00	43.20 0.09 0.00	45.43 0.09 0.00	48.16 0.14 0.00	49.79 0.15 0.00	48.94 0.15 0.00	48.53 0.19 0.00	44.11 0.18 0.00	46.83 0.19 0.00	46.45 0.23 0.00	48.90 0.39 0.00	50.90 0.45 0.00	55.19 0.55 0.00	53.05 0.42 0.00	45.71 0.41 0.00	42.20 0.30 0.00	39.54 0.20 0.00
ONEIDA___115KV_TB4 55905	40.70 0.88 0.00	38.01 0.82 0.00	36.32 0.71 0.00	35.75 0.70 0.00	37.44 0.70 0.00	34.64 0.61 0.00	37.36 0.70 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.20 0.86 0.00	48.98 0.96 0.00	50.68 1.04 0.00	49.82 1.02 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.71 1.07 0.00	47.28 1.06 0.00	49.63 1.12 0.00	51.66 1.21 0.00	56.01 1.37 0.00	53.84 1.21 0.00	46.43 1.13 0.00	42.87 0.96 0.00	40.20 0.87 0.00
ONONDAGA_REF_OCCRA 23987	39.86 0.04 0.00	37.23 0.04 0.00	35.57 -0.04 0.00	34.98 -0.07 0.00	36.67 -0.07 0.00	34.00 -0.03 0.00	36.74 0.07 0.00	41.15 0.12 0.00	43.24 0.13 0.00	45.56 0.23 0.00	48.26 0.24 0.00	49.99 0.35 0.00	49.13 0.34 0.00	48.62 0.29 0.00	44.24 0.31 0.00	46.96 0.33 0.00	46.50 0.28 0.00	48.75 0.24 0.00	50.70 0.25 0.00	54.86 0.22 0.00	52.84 0.21 0.00	45.57 0.27 0.00	42.16 0.25 0.00	39.57 0.24 0.00
ONONDAGA___COGEN 23986	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00
ONTARIO___LFGE 23819	40.22 0.40 0.00	37.49 0.30 0.00	35.68 0.07 0.00	35.01 -0.04 0.00	36.67 -0.07 0.00	34.13 0.10 0.00	36.88 0.22 0.00	41.35 0.33 0.00	43.37 0.26 0.00	45.74 0.41 0.00	48.45 0.43 0.00	50.04 0.40 0.00	49.23 0.44 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.15 0.51 0.00	46.55 0.33 0.00	48.75 0.24 0.00	50.75 0.30 0.00	54.70 0.05 0.00	53.05 0.42 0.00	45.89 0.59 0.00	42.70 0.79 0.00	40.12 0.79 0.00
ORANGEVILLE_WT_PWR 323706	39.10 -0.72 0.00	36.27 -0.93 0.00	34.33 -1.28 0.00	33.54 -1.51 0.00	35.09 -1.65 0.00	32.77 -1.26 0.00	35.31 -1.36 0.00	39.42 -1.60 0.00	41.17 -1.94 0.00	43.52 -1.81 0.00	46.10 -1.92 0.00	47.51 -2.13 0.00	46.84 -1.95 0.00	46.31 -2.03 0.00	42.22 -1.71 0.00	45.19 -1.45 0.00	44.42 -1.80 0.00	46.28 -2.23 0.00	48.23 -2.22 0.00	52.13 -2.51 0.00	50.79 -1.84 0.00	44.44 -0.86 0.00	41.78 -0.13 0.00	39.46 0.12 0.00
ORANGEVILLE___ESR 323794	39.10 -0.72 0.00	36.27 -0.93 0.00	34.33 -1.28 0.00	33.54 -1.51 0.00	35.09 -1.65 0.00	32.77 -1.26 0.00	35.31 -1.36 0.00	39.42 -1.60 0.00	41.17 -1.94 0.00	43.52 -1.81 0.00	46.10 -1.92 0.00	47.51 -2.13 0.00	46.84 -1.95 0.00	46.31 -2.03 0.00	42.22 -1.71 0.00	45.19 -1.45 0.00	44.42 -1.80 0.00	46.28 -2.23 0.00	48.23 -2.22 0.00	52.13 -2.51 0.00	50.79 -1.84 0.00	44.44 -0.86 0.00	41.78 -0.13 0.00	39.46 0.12 0.00
OSWEGATCHIE___HYD 24044	38.91 -0.91 0.00	36.34 -0.85 0.00	34.75 -0.85 0.00	34.18 -0.87 0.00	35.49 -1.25 0.00	32.74 -1.29 0.00	35.23 -1.43 0.00	39.34 -1.68 0.00	41.30 -1.81 0.00	43.39 -1.95 0.00	46.00 -2.01 0.00	47.46 -2.18 0.00	46.60 -2.19 0.00	46.21 -2.13 0.00	41.91 -2.02 0.00	44.54 -2.10 0.00	44.19 -2.03 0.00	46.52 -1.99 0.00	48.48 -1.97 0.00	52.62 -2.02 0.00	50.68 -1.95 0.00	43.71 -1.59 0.00	40.36 -1.55 0.00	37.84 -1.49 0.00
OSWEGO___5 23606	39.34 -0.48 0.00	36.71 -0.48 0.00	35.11 -0.50 0.00	34.53 -0.52 0.00	36.19 -0.55 0.00	33.59 -0.44 0.00	36.22 -0.44 0.00	40.57 -0.45 0.00	42.64 -0.47 0.00	44.88 -0.45 0.00	47.54 -0.48 0.00	49.14 -0.50 0.00	48.35 -0.44 0.00	47.85 -0.48 0.00	43.49 -0.44 0.00	46.22 -0.42 0.00	45.76 -0.46 0.00	47.93 -0.58 0.00	49.85 -0.60 0.00	53.99 -0.65 0.00	52.00 -0.63 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	38.98 -0.35 0.00



OSWEGO___6 23613	39.34 -0.48 0.00	36.71 -0.48 0.00	35.11 -0.50 0.00	34.53 -0.52 0.00	36.19 -0.55 0.00	33.59 -0.44 0.00	36.22 -0.44 0.00	40.57 -0.45 0.00	42.64 -0.47 0.00	44.88 -0.45 0.00	47.54 -0.48 0.00	49.14 -0.50 0.00	48.35 -0.44 0.00	47.85 -0.48 0.00	43.49 -0.44 0.00	46.22 -0.42 0.00	45.76 -0.46 0.00	47.93 -0.58 0.00	49.85 -0.60 0.00	53.99 -0.65 0.00	52.00 -0.63 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	38.98 -0.35 0.00
OUTOKUMPU-AB___DRP 24206	39.42 -0.40 0.00	36.75 -0.45 0.00	34.72 -0.89 0.00	33.96 -1.09 0.00	35.49 -1.25 0.00	33.15 -0.88 0.00	36.08 -0.59 0.00	40.41 -0.62 0.00	42.25 -0.86 0.00	44.52 -0.82 0.00	47.15 -0.86 0.00	48.55 -1.09 0.00	47.77 -1.02 0.00	47.37 -0.97 0.00	43.10 -0.83 0.00	45.71 -0.93 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.93 -2.52 0.00	51.64 -3.01 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.91 0.00 0.00	39.53 0.20 0.00
OXBOW___BTM 323836	39.10 -0.72 0.00	36.45 -0.74 0.00	34.47 -1.14 0.00	33.72 -1.33 0.00	35.35 -1.40 0.00	33.15 -0.89 0.00	35.64 -1.03 0.00	40.08 -0.94 0.00	41.86 -1.25 0.00	44.07 -1.27 0.00	46.62 -1.39 0.00	48.00 -1.64 0.00	47.33 -1.46 0.00	46.83 -1.50 0.00	42.66 -1.28 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.65 -2.86 0.00	47.37 -3.08 0.00	51.04 -3.61 0.00	49.84 -2.79 0.00	43.76 -1.54 0.00	41.49 -0.42 0.00	39.14 -0.20 0.00
OXBOW____ 24026	39.10 -0.72 0.00	36.45 -0.74 0.00	34.47 -1.14 0.00	33.72 -1.33 0.00	35.24 -1.51 0.00	32.94 -1.09 0.00	35.78 -0.88 0.00	40.00 -1.03 0.00	41.86 -1.25 0.00	44.06 -1.27 0.00	46.67 -1.34 0.00	48.05 -1.59 0.00	47.28 -1.51 0.00	46.88 -1.45 0.00	42.66 -1.27 0.00	45.24 -1.40 0.00	44.23 -1.99 0.00	45.50 -3.01 0.00	47.37 -3.08 0.00	51.04 -3.61 0.00	49.79 -2.84 0.00	43.76 -1.54 0.00	41.45 -0.46 0.00	39.06 -0.28 0.00
OXY_CHEM_DSASP 323612	38.90 -0.92 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.56 -1.10 0.00	39.71 -1.31 0.00	41.52 -1.60 0.00	43.70 -1.63 0.00	46.29 -1.73 0.00	47.65 -1.99 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.82 -2.40 0.00	45.07 -3.44 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
OZONE_PARK_ESR 323760	41.25 1.43 0.00	38.57 1.38 0.00	37.00 1.39 0.00	36.49 1.44 0.00	38.32 1.58 0.00	35.73 1.70 0.00	38.53 1.87 0.00	43.20 2.17 0.00	45.48 2.37 0.00	47.92 2.58 0.00	50.56 2.54 0.00	52.37 2.73 0.00	51.53 2.73 0.00	51.14 2.80 0.00	46.61 2.68 0.00	49.39 2.75 0.00	49.18 2.96 0.00	51.81 3.30 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	47.79 2.49 0.00	44.05 2.14 0.00	41.19 1.85 0.00
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	38.90 -0.92 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.56 -1.10 0.00	39.71 -1.31 0.00	41.52 -1.60 0.00	43.70 -1.63 0.00	46.29 -1.73 0.00	47.65 -1.99 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.82 -2.40 0.00	45.07 -3.44 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
PACKARD__115KV_DUPONT_184 80571	38.90 -0.92 0.00	36.23 -0.97 0.00	34.26 -1.35 0.00	33.54 -1.51 0.00	35.05 -1.69 0.00	32.77 -1.26 0.00	35.56 -1.10 0.00	39.71 -1.31 0.00	41.52 -1.60 0.00	43.70 -1.63 0.00	46.29 -1.73 0.00	47.65 -1.99 0.00	46.89 -1.90 0.00	46.45 -1.89 0.00	42.26 -1.67 0.00	44.82 -1.82 0.00	43.82 -2.40 0.00	45.07 -3.44 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	41.03 -0.88 0.00	38.63 -0.71 0.00
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	40.89 1.08 0.00	38.27 1.08 0.00	36.71 1.10 0.00	36.21 1.16 0.00	38.03 1.29 0.00	35.43 1.40 0.00	38.20 1.54 0.00	42.75 1.72 0.00	45.01 1.90 0.00	47.37 2.04 0.00	49.94 1.92 0.00	51.78 2.13 0.00	50.94 2.15 0.00	50.56 2.22 0.00	46.08 2.15 0.00	48.78 2.15 0.00	48.58 2.36 0.00	51.23 2.72 0.00	53.17 2.72 0.00	57.65 3.01 0.00	55.37 2.74 0.00	47.20 1.90 0.00	43.54 1.63 0.00	40.71 1.38 0.00
PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	41.01 1.19 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.87 1.85 0.00	45.09 1.98 0.00	47.42 2.09 0.00	49.99 1.97 0.00	51.87 2.23 0.00	50.99 2.20 0.00	50.65 2.32 0.00	46.17 2.24 0.00	48.88 2.24 0.00	48.72 2.50 0.00	51.32 2.81 0.00	53.32 2.88 0.00	57.81 3.17 0.00	55.52 2.89 0.00	47.34 2.04 0.00	43.71 1.80 0.00	40.91 1.57 0.00
PATROON__115KV_TB1 80586	40.42 0.60 0.00	37.79 0.60 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.77 1.03 0.00	35.05 1.02 0.00	37.47 0.81 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.58 0.94 0.00	49.77 0.98 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00
PATTRSNVILLE___SOLAR 323815	41.09 1.27 0.00	38.39 1.19 0.00	36.86 1.25 0.00	36.35 1.30 0.00	38.21 1.47 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.62 1.60 0.00	44.88 1.77 0.00	47.10 1.77 0.00	49.74 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.17 1.84 0.00	45.60 1.67 0.00	48.45 1.82 0.00	48.21 1.99 0.00	50.79 2.28 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.10 2.47 0.00	47.29 1.99 0.00	43.54 1.63 0.00	40.79 1.46 0.00
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	39.62 -0.20 0.00	36.90 -0.30 0.00	34.93 -0.68 0.00	34.14 -0.91 0.00	35.68 -1.07 0.00	33.28 -0.75 0.00	36.33 -0.33 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.88 -0.45 0.00	47.54 -0.48 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.16 -1.06 0.00	46.67 -1.84 0.00	48.68 -1.77 0.00	52.51 -2.13 0.00	51.26 -1.37 0.00	44.94 -0.36 0.00	42.37 0.46 0.00	39.97 0.63 0.00
PAWLING_115_KV_BK3_REV_LBMP_H 345028	41.05 1.23 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.25 1.51 0.00	35.56 1.53 0.00	38.24 1.58 0.00	42.79 1.76 0.00	45.27 2.16 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.16 2.52 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.48 3.03 0.00	57.98 3.33 0.00	55.68 3.05 0.00	47.57 2.27 0.00	43.79 1.89 0.00	40.99 1.65 0.00
PEEKSKILL____ 23653	40.69 0.87 0.00	38.09 0.89 0.00	36.53 0.92 0.00	36.03 0.98 0.00	37.95 1.21 0.00	35.22 1.19 0.00	38.02 1.36 0.00	42.54 1.52 0.00	44.84 1.73 0.00	47.15 1.82 0.00	49.80 1.78 0.00	51.57 1.93 0.00	50.75 1.95 0.00	50.27 1.94 0.00	45.82 1.89 0.00	48.55 1.91 0.00	48.35 2.13 0.00	50.89 2.38 0.00	52.92 2.47 0.00	57.37 2.73 0.00	55.05 2.42 0.00	47.07 1.76 0.00	43.37 1.47 0.00	40.60 1.26 0.00



PGE MADISON___WINDPWR 24146	42.96 3.15 0.00	40.10 2.90 0.00	38.17 2.57 0.00	37.43 2.38 0.00	39.10 2.35 0.00	36.07 2.04 0.00	38.90 2.24 0.00	43.44 2.42 0.00	45.61 2.50 0.00	47.83 2.49 0.00	50.61 2.59 0.00	52.27 2.63 0.00	51.33 2.54 0.00	50.99 2.66 0.00	46.30 2.37 0.00	49.34 2.70 0.00	48.76 2.54 0.00	51.27 2.76 0.00	53.53 3.08 0.00	58.03 3.39 0.00	55.68 3.05 0.00	48.38 3.08 0.00	44.67 2.77 0.00	41.97 2.64 0.00
PIERCEFIELD___HYD 23852	38.98 -0.84 0.00	36.45 -0.74 0.00	34.86 -0.75 0.00	34.24 -0.81 0.00	35.68 -1.07 0.00	32.88 -1.16 0.00	35.34 -1.32 0.00	39.51 -1.52 0.00	41.39 -1.72 0.00	43.52 -1.81 0.00	46.19 -1.82 0.00	47.61 -2.04 0.00	46.69 -2.10 0.00	46.30 -2.03 0.00	41.91 -2.02 0.00	44.49 -2.15 0.00	44.14 -2.08 0.00	46.37 -2.13 0.00	48.23 -2.22 0.00	52.29 -2.35 0.00	50.52 -2.11 0.00	43.58 -1.72 0.00	40.32 -1.59 0.00	37.84 -1.49 0.00
PINELAWN_CC_1 323563	41.21 1.39 0.00	38.61 1.41 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.68 2.02 0.00	43.54 2.50 -0.01	46.00 2.63 -0.26	51.73 2.67 -3.72	50.57 2.54 -0.01	53.17 2.58 -0.94	53.26 2.49 -1.98	53.29 2.56 -2.40	52.26 2.50 -5.83	51.70 2.61 -2.45	53.47 2.87 -4.39	52.84 3.30 -1.03	53.84 3.38 -0.01	58.96 3.66 -0.65	56.01 3.37 -0.01	51.60 2.72 -3.59	46.45 2.39 -2.15	41.43 2.08 -0.01
PJM_GEN_HTP_PROXY 323702	40.93 1.11 0.00	38.35 1.15 0.00	36.75 1.14 0.00	36.24 1.19 0.00	36.29 1.43 1.88	35.95 1.46 -0.46	39.77 1.69 -1.42	42.91 1.89 0.00	46.38 2.07 -1.20	46.36 2.22 1.20	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.75 2.42 0.00	46.21 2.28 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.37 2.86 0.00	53.37 2.92 0.00	57.98 3.33 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.71 1.80 0.00	40.87 1.53 0.00
PJM_GEN_KEystone 24065	39.78 -0.04 0.00	37.20 0.00 0.00	35.47 -0.14 0.00	34.88 -0.17 0.00	34.75 -0.11 1.88	34.59 0.10 -0.46	38.30 0.22 -1.42	41.31 0.29 0.00	44.57 0.26 -1.20	44.46 0.32 1.20	48.26 0.24 0.00	49.79 0.15 0.00	48.99 0.20 0.00	48.53 0.19 0.00	44.20 0.27 0.00	46.87 0.23 0.00	46.40 0.19 0.00	48.61 0.10 0.00	50.60 0.15 0.00	54.81 0.16 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.37 0.46 0.00	39.81 0.47 0.00
PJM_GEN_NEPTUNE_PROXY 323594	40.90 1.08 0.00	38.31 1.11 0.00	36.57 0.96 0.00	36.07 1.02 0.00	36.11 1.25 1.88	35.78 1.29 -0.46	39.81 1.72 -1.42	43.12 2.09 -0.01	46.73 2.20 -1.42	49.50 2.22 -1.94	50.14 2.11 -0.01	52.62 2.18 -0.80	52.61 2.14 -1.67	52.58 2.22 -2.03	51.00 2.15 -4.92	50.90 2.19 -2.07	52.37 2.45 -3.70	52.19 2.81 -0.87	53.33 2.87 -0.01	58.31 3.11 -0.55	55.43 2.79 -0.01	50.50 2.17 -3.03	45.65 1.93 -1.81	41.04 1.69 -0.01
PJM_GEN_VFT_PROXY 323633	40.77 0.95 0.00	38.16 0.97 0.00	36.61 1.00 0.00	36.07 1.02 0.00	36.11 1.25 1.88	35.78 1.29 -0.46	39.59 1.50 -1.42	42.75 1.72 0.00	46.16 1.85 -1.20	46.18 2.04 1.20	49.99 1.97 0.00	51.82 2.18 0.00	50.99 2.20 0.00	50.51 2.18 0.00	46.00 2.07 0.00	48.78 2.15 0.00	48.53 2.31 0.00	51.13 2.62 0.00	53.12 2.67 0.00	57.70 3.06 0.00	55.26 2.63 0.00	47.20 1.90 0.00	43.46 1.55 0.00	40.68 1.34 0.00
PLATSBURG_115KV_PMLD1 355749	40.93 1.11 0.00	38.20 1.00 0.00	36.36 0.75 0.00	35.61 0.56 0.00	37.15 0.40 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.07 -0.04 0.00	45.33 0.00 0.00	48.26 0.24 0.00	49.49 -0.15 0.00	48.21 -0.59 0.00	47.56 -0.77 0.00	42.96 -0.97 0.00	45.57 -1.07 0.00	45.16 -1.06 0.00	47.39 -1.12 0.00	49.29 -1.16 0.00	53.33 -1.31 0.00	51.68 -0.95 0.00	44.71 -0.59 0.00	41.41 -0.50 0.00	38.79 -0.55 0.00
PLEASANTVLY___LBMP 24000	40.66 0.84 0.00	38.05 0.86 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.29 1.26 0.00	37.98 1.32 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.01 1.68 0.00	49.70 1.68 0.00	51.43 1.79 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.73 1.80 0.00	48.50 1.87 0.00	48.25 2.03 0.00	50.79 2.28 0.00	52.82 2.37 0.00	57.27 2.62 0.00	54.95 2.32 0.00	47.02 1.72 0.00	43.29 1.38 0.00	40.52 1.18 0.00
PLSNTVLE_13_KV_13.8KVDIST 80602	40.89 1.08 0.00	38.31 1.12 0.00	36.71 1.10 0.00	36.24 1.19 0.00	38.07 1.32 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.79 1.76 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.08 2.15 0.00	48.88 2.24 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.38 2.08 0.00	43.63 1.72 0.00	40.79 1.46 0.00
PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	40.89 1.08 0.00	38.31 1.12 0.00	36.71 1.10 0.00	36.24 1.19 0.00	38.07 1.32 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.79 1.76 0.00	45.09 1.98 0.00	47.42 2.09 0.00	50.08 2.06 0.00	51.87 2.23 0.00	51.04 2.24 0.00	50.61 2.27 0.00	46.08 2.15 0.00	48.88 2.24 0.00	48.67 2.45 0.00	51.27 2.77 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.47 2.84 0.00	47.38 2.08 0.00	43.63 1.72 0.00	40.79 1.46 0.00
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	40.82 1.00 0.00	38.20 1.00 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.03 1.29 0.00	35.39 1.36 0.00	38.09 1.43 0.00	42.62 1.60 0.00	44.96 1.85 0.00	47.19 1.86 0.00	49.89 1.87 0.00	51.68 2.04 0.00	50.84 2.05 0.00	50.41 2.08 0.00	45.95 2.02 0.00	48.74 2.10 0.00	48.48 2.26 0.00	51.08 2.57 0.00	53.12 2.67 0.00	57.54 2.90 0.00	55.21 2.58 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.71 1.38 0.00
POLETTI___ 23519	40.93 1.11 0.00	38.31 1.12 0.00	36.75 1.14 0.00	36.24 1.19 0.00	38.07 1.32 0.00	35.53 1.50 0.00	38.28 1.61 0.00	42.91 1.89 0.00	45.18 2.07 0.00	47.56 2.22 0.00	50.18 2.16 0.00	51.97 2.33 0.00	51.14 2.34 0.00	50.75 2.42 0.00	46.22 2.28 0.00	48.97 2.33 0.00	48.76 2.54 0.00	51.37 2.86 0.00	53.37 2.93 0.00	57.92 3.28 0.00	55.58 2.95 0.00	47.43 2.13 0.00	43.71 1.80 0.00	40.87 1.53 0.00
POMONA___ESR 323819	40.74 0.92 0.00	38.13 0.93 0.00	36.53 0.92 0.00	36.07 1.02 0.00	37.95 1.21 0.00	35.26 1.22 0.00	38.02 1.36 0.00	42.58 1.56 0.00	44.88 1.77 0.00	47.19 1.86 0.00	49.84 1.82 0.00	51.63 1.99 0.00	50.79 2.00 0.00	50.32 1.98 0.00	45.86 1.93 0.00	48.60 1.96 0.00	48.35 2.13 0.00	50.89 2.38 0.00	52.92 2.47 0.00	57.43 2.79 0.00	55.05 2.42 0.00	47.11 1.81 0.00	43.37 1.47 0.00	40.63 1.30 0.00
PORT_JEFF_3 23555	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.89 2.54 -0.24	51.29 2.58 -3.37	50.38 2.35 -0.01	52.93 2.43 -0.86	52.98 2.39 -1.80	52.93 2.42 -2.18	51.64 2.41 -5.29	51.38 2.52 -2.23	52.97 2.77 -3.98	52.70 3.25 -0.94	53.64 3.18 -0.01	58.79 3.55 -0.59	55.85 3.21 -0.01	51.09 2.54 -3.25	46.12 2.26 -1.95	41.31 1.97 -0.01



PORT_JEFF_4 23616	41.01 1.19 0.00	38.42 1.23 0.00	36.61 1.00 0.00	36.14 1.09 0.00	38.06 1.32 0.00	35.43 1.40 0.00	38.60 1.94 0.00	43.54 2.50 -0.01	45.89 2.54 -0.24	51.29 2.58 -3.37	50.38 2.35 -0.01	52.93 2.43 -0.86	52.98 2.39 -1.80	52.93 2.42 -2.18	51.64 2.41 -5.29	51.38 2.52 -2.23	52.97 2.77 -3.98	52.70 3.25 -0.94	53.64 3.18 -0.01	58.79 3.55 -0.59	55.85 3.21 -0.01	51.09 2.54 -3.25	46.12 2.26 -1.95	41.31 1.97 -0.01
PORT_JEFF_IC 23713	41.01 1.19 0.00	38.46 1.26 0.00	36.61 1.00 0.00	36.21 1.16 0.00	37.77 1.03 0.00	35.50 1.46 0.00	38.57 1.91 0.00	43.58 2.54 -0.01	45.94 2.59 -0.24	51.30 2.58 -3.38	50.43 2.40 -0.01	52.93 2.43 -0.86	52.94 2.34 -1.80	52.89 2.37 -2.19	51.65 2.42 -5.31	51.44 2.57 -2.23	53.03 2.82 -3.99	52.80 3.35 -0.94	53.74 3.28 -0.01	58.85 3.61 -0.60	55.95 3.32 -0.01	51.15 2.58 -3.26	46.17 2.30 -1.96	41.31 1.97 -0.01
PPL PILGRIM_ST_GT1 24216	41.21 1.39 0.00	38.64 1.45 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.75 2.09 0.00	43.66 2.63 -0.01	46.12 2.76 -0.24	51.53 2.77 -3.43	50.62 2.59 -0.01	53.14 2.63 -0.87	53.15 2.54 -1.83	53.11 2.56 -2.21	51.85 2.55 -5.38	51.56 2.66 -2.26	53.18 2.91 -4.05	52.86 3.39 -0.95	53.84 3.38 -0.01	58.91 3.66 -0.60	56.06 3.42 -0.01	51.33 2.72 -3.31	46.32 2.43 -1.98	41.51 2.16 -0.01
PPL PILGRIM_ST_GT2 24217	41.21 1.39 0.00	38.64 1.45 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.25 1.51 0.00	35.60 1.57 0.00	38.75 2.09 0.00	43.66 2.63 -0.01	46.12 2.76 -0.24	51.53 2.77 -3.43	50.62 2.59 -0.01	53.14 2.63 -0.87	53.15 2.54 -1.83	53.11 2.56 -2.21	51.85 2.55 -5.38	51.56 2.66 -2.26	53.18 2.91 -4.05	52.86 3.39 -0.95	53.84 3.38 -0.01	58.91 3.66 -0.60	56.06 3.42 -0.01	51.33 2.72 -3.31	46.32 2.43 -1.98	41.51 2.16 -0.01
PPL_SHRM_GT3 24213	40.38 0.56 0.00	37.83 0.63 0.00	36.04 0.43 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.88 0.85 0.00	38.13 1.47 0.00	43.04 2.01 -0.01	45.25 1.89 -0.24	50.53 1.82 -3.38	49.56 1.54 -0.01	52.13 1.64 -0.86	52.20 1.61 -1.80	52.11 1.59 -2.18	50.94 1.71 -5.30	50.64 1.77 -2.23	52.24 2.03 -3.99	51.92 2.47 -0.94	52.83 2.37 -0.01	57.97 2.73 -0.59	55.06 2.42 -0.01	50.42 1.86 -3.26	45.41 1.55 -1.95	40.68 1.34 -0.01
PPL_SHRM_GT4 24214	40.38 0.56 0.00	37.83 0.63 0.00	36.04 0.43 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.88 0.85 0.00	38.13 1.47 0.00	43.04 2.01 -0.01	45.25 1.89 -0.24	50.53 1.82 -3.38	49.56 1.54 -0.01	52.13 1.64 -0.86	52.20 1.61 -1.80	52.11 1.59 -2.18	50.94 1.71 -5.30	50.64 1.77 -2.23	52.24 2.03 -3.99	51.92 2.47 -0.94	52.83 2.37 -0.01	57.97 2.73 -0.59	55.06 2.42 -0.01	50.42 1.86 -3.26	45.41 1.55 -1.95	40.68 1.34 -0.01
PROJECT___ORANGE 1 24174	39.78 -0.04 0.00	37.16 -0.04 0.00	35.50 -0.11 0.00	34.91 -0.14 0.00	36.60 -0.15 0.00	33.93 -0.10 0.00	36.66 0.00 0.00	41.07 0.04 0.00	43.15 0.04 0.00	45.47 0.14 0.00	48.21 0.19 0.00	49.89 0.25 0.00	49.09 0.29 0.00	48.58 0.24 0.00	44.15 0.22 0.00	46.92 0.28 0.00	46.40 0.18 0.00	48.61 0.10 0.00	50.55 0.10 0.00	54.70 0.05 0.00	52.68 0.05 0.00	45.44 0.14 0.00	42.08 0.17 0.00	39.49 0.16 0.00
PROJECT___ORANGE 2 24166	39.78 -0.04 0.00	37.16 -0.04 0.00	35.50 -0.11 0.00	34.91 -0.14 0.00	36.60 -0.15 0.00	33.93 -0.10 0.00	36.66 0.00 0.00	41.07 0.04 0.00	43.15 0.04 0.00	45.47 0.14 0.00	48.21 0.19 0.00	49.89 0.25 0.00	49.09 0.29 0.00	48.58 0.24 0.00	44.15 0.22 0.00	46.92 0.28 0.00	46.40 0.18 0.00	48.61 0.10 0.00	50.55 0.10 0.00	54.70 0.05 0.00	52.68 0.05 0.00	45.44 0.14 0.00	42.08 0.17 0.00	39.49 0.16 0.00
PUCKETT___SOLAR 323809	40.74 0.92 0.00	38.01 0.82 0.00	36.32 0.71 0.00	35.71 0.66 0.00	37.41 0.66 0.00	34.71 0.68 0.00	37.47 0.81 0.00	41.93 0.90 0.00	44.06 0.95 0.00	46.33 1.00 0.00	49.07 1.06 0.00	50.68 1.04 0.00	49.87 1.07 0.00	49.30 0.97 0.00	44.90 0.97 0.00	47.66 1.02 0.00	47.23 1.02 0.00	49.53 1.02 0.00	51.61 1.16 0.00	55.90 1.26 0.00	53.84 1.21 0.00	46.48 1.18 0.00	43.08 1.17 0.00	40.48 1.14 0.00
PYRITES___HYD 24023	39.90 0.08 0.00	37.31 0.11 0.00	35.68 0.07 0.00	35.05 0.00 0.00	36.52 -0.22 0.00	33.62 -0.41 0.00	36.15 -0.51 0.00	40.33 -0.70 0.00	42.25 -0.86 0.00	44.29 -1.04 0.00	47.01 -1.01 0.00	48.45 -1.19 0.00	47.52 -1.27 0.00	47.22 -1.11 0.00	42.74 -1.19 0.00	45.43 -1.21 0.00	45.06 -1.16 0.00	47.39 -1.12 0.00	49.39 -1.06 0.00	53.55 -1.09 0.00	51.79 -0.84 0.00	44.67 -0.63 0.00	41.28 -0.63 0.00	38.83 -0.51 0.00
QUAKERRD_115KV_BK1 80622	38.78 -1.04 0.00	36.15 -1.04 0.00	34.33 -1.28 0.00	33.72 -1.33 0.00	35.31 -1.43 0.00	32.84 -1.19 0.00	35.64 -1.03 0.00	40.00 -1.03 0.00	41.99 -1.12 0.00	44.25 -1.09 0.00	46.96 -1.06 0.00	48.45 -1.19 0.00	47.67 -1.12 0.00	47.17 -1.16 0.00	42.92 -1.01 0.00	45.61 -1.03 0.00	44.88 -1.34 0.00	46.67 -1.84 0.00	48.58 -1.87 0.00	52.46 -2.19 0.00	50.84 -1.79 0.00	44.03 -1.27 0.00	41.15 -0.75 0.00	38.59 -0.75 0.00
QUENSBRY_115KV_TB8 356137	41.69 1.87 0.00	38.94 1.75 0.00	37.43 1.82 0.00	36.87 1.82 0.00	38.84 2.09 0.00	35.97 1.94 0.00	38.75 2.09 0.00	43.40 2.38 0.00	45.83 2.72 0.00	48.37 3.04 0.00	51.14 3.12 0.00	52.97 3.33 0.00	52.11 3.32 0.00	51.52 3.19 0.00	46.83 2.90 0.00	49.72 3.08 0.00	49.36 3.14 0.00	52.05 3.54 0.00	54.08 3.63 0.00	58.69 4.04 0.00	56.31 3.68 0.00	48.25 2.94 0.00	44.26 2.35 0.00	41.38 2.05 0.00
RAMAPO___LBMP 323565	40.58 0.76 0.00	37.98 0.78 0.00	36.43 0.82 0.00	35.93 0.88 0.00	37.77 1.03 0.00	35.16 1.12 0.00	37.87 1.21 0.00	42.42 1.39 0.00	44.66 1.55 0.00	46.97 1.63 0.00	49.65 1.63 0.00	51.33 1.69 0.00	50.50 1.71 0.00	50.07 1.74 0.00	45.60 1.67 0.00	48.36 1.73 0.00	48.11 1.89 0.00	50.69 2.18 0.00	52.72 2.27 0.00	57.16 2.51 0.00	54.89 2.26 0.00	46.93 1.63 0.00	43.25 1.34 0.00	40.48 1.14 0.00
RANKINE____ 23646	39.58 -0.24 0.00	36.86 -0.33 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.60 -1.14 0.00	33.25 -0.78 0.00	36.30 -0.37 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.47 -2.04 0.00	48.43 -2.02 0.00	52.24 -2.40 0.00	51.00 -1.63 0.00	44.80 -0.50 0.00	42.33 0.42 0.00	39.93 0.59 0.00
RAVENSWOOD_GT2_1 24244	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00



RAVENSWOOD_GT2_2 24245	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT2_3 24246	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.48 2.17 0.00	43.79 1.89 0.00	40.91 1.57 0.00
RAVENSWOOD_GT2_4 24247	41.01 1.19 0.00	38.39 1.19 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.80 2.47 0.00	46.30 2.37 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.48 2.17 0.00	43.79 1.89 0.00	40.91 1.57 0.00
RAVENSWOOD_GT3_1 24248	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT3_2 24249	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT3_3 24250	41.05 1.23 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.18 1.43 0.00	35.60 1.57 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.12 2.48 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.53 3.08 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.84 1.93 0.00	40.95 1.61 0.00
RAVENSWOOD_GT3_4 24251	41.05 1.23 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.18 1.43 0.00	35.60 1.57 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.12 2.48 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.53 3.08 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.84 1.93 0.00	40.95 1.61 0.00
RAVENSWOOD_GT_1 23729	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.21 1.47 0.00	35.63 1.60 0.00	38.42 1.76 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
RAVENSWOOD_GT_10 24258	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_11 24259	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_4 24252	40.97 1.15 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.10 1.36 0.00	35.53 1.50 0.00	38.28 1.61 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_5 24254	40.97 1.15 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.10 1.36 0.00	35.53 1.50 0.00	38.28 1.61 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_6 24253	40.97 1.15 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.10 1.36 0.00	35.53 1.50 0.00	38.28 1.61 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_7 24255	40.97 1.15 0.00	38.35 1.15 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.10 1.36 0.00	35.53 1.50 0.00	38.28 1.61 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.02 2.38 0.00	48.81 2.59 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00



RAVENSWOOD_GT_9 24257	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.23 2.21 0.00	52.02 2.38 0.00	51.18 2.39 0.00	50.80 2.47 0.00	46.26 2.33 0.00	49.06 2.43 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.57 0.00
RAVENSWOOD___1 23533	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.60 1.57 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.99 1.65 0.00
RAVENSWOOD___2 23534	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.60 1.57 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.99 1.65 0.00
RAVENSWOOD___3 23535	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.17 0.00	36.31 1.26 0.00	38.21 1.47 0.00	35.53 1.50 0.00	38.35 1.69 0.00	42.95 1.93 0.00	45.22 2.11 0.00	47.60 2.27 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.80 2.46 0.00	46.30 2.37 0.00	49.06 2.42 0.00	48.85 2.63 0.00	51.42 2.91 0.00	53.42 2.98 0.00	57.98 3.33 0.00	55.63 3.00 0.00	47.48 2.17 0.00	43.75 1.84 0.00	40.91 1.58 0.00
RAVENSWOOD___4 23820	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.32 1.58 0.00	35.60 1.57 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.27 2.15 0.00	47.64 2.31 0.00	50.28 2.26 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.35 2.41 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.47 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.80 1.89 0.00	40.99 1.65 0.00
RCPL_TRUST___DRP 24196	41.13 1.31 0.00	38.50 1.30 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.25 1.51 0.00	35.67 1.63 0.00	38.46 1.80 0.00	43.16 2.13 0.00	45.44 2.33 0.00	47.87 2.54 0.00	50.52 2.50 0.00	52.32 2.68 0.00	51.48 2.68 0.00	51.09 2.76 0.00	46.52 2.59 0.00	49.30 2.66 0.00	49.08 2.87 0.00	51.71 3.20 0.00	53.73 3.28 0.00	58.30 3.66 0.00	55.89 3.26 0.00	47.70 2.40 0.00	43.96 2.05 0.00	41.07 1.73 0.00
RED___ROCHESTER 323720	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.12 -0.62 0.00	33.69 -0.34 0.00	36.37 -0.29 0.00	41.02 0.00 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.07 0.05 0.00	49.54 -0.10 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.73 -0.78 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.05 -0.58 0.00	45.12 -0.18 0.00	42.28 0.38 0.00	39.61 0.28 0.00
REGAN___SOLAR 323812	42.41 2.59 0.00	39.58 2.38 0.00	37.96 2.35 0.00	37.43 2.38 0.00	39.35 2.61 0.00	36.41 2.38 0.00	39.27 2.60 0.00	43.94 2.91 0.00	46.30 3.19 0.00	48.78 3.44 0.00	51.38 3.36 0.00	53.11 3.47 0.00	52.21 3.41 0.00	51.67 3.33 0.00	46.96 3.03 0.00	49.95 3.31 0.00	49.73 3.51 0.00	52.53 4.02 0.00	54.73 4.29 0.00	59.50 4.86 0.00	57.16 4.53 0.00	49.02 3.72 0.00	45.01 3.10 0.00	42.13 2.79 0.00
RENSSELAER___COGEN 23796	40.26 0.44 0.00	37.64 0.45 0.00	36.18 0.57 0.00	35.71 0.66 0.00	37.62 0.88 0.00	34.92 0.88 0.00	37.36 0.69 0.00	41.64 0.62 0.00	43.76 0.65 0.00	45.92 0.59 0.00	48.55 0.53 0.00	50.28 0.64 0.00	49.48 0.68 0.00	49.06 0.73 0.00	44.63 0.70 0.00	47.38 0.74 0.00	47.10 0.88 0.00	49.53 1.02 0.00	51.51 1.06 0.00	55.79 1.15 0.00	53.52 0.89 0.00	45.89 0.59 0.00	42.28 0.38 0.00	39.69 0.35 0.00
REPUBLIC_115KV_BARTNBRK 55605	42.73 2.91 0.00	39.87 2.68 0.00	38.35 2.74 0.00	37.75 2.70 0.00	39.76 3.01 0.00	36.75 2.72 0.00	39.63 2.97 0.00	44.43 3.40 0.00	46.90 3.79 0.00	49.69 4.35 0.00	52.44 4.42 0.00	54.31 4.67 0.00	53.43 4.64 0.00	52.68 4.35 0.00	47.93 4.00 0.00	50.88 4.24 0.00	50.56 4.34 0.00	53.46 4.95 0.00	55.54 5.10 0.00	60.44 5.79 0.00	58.00 5.37 0.00	49.60 4.30 0.00	45.34 3.44 0.00	42.37 3.03 0.00
REVERE_CPPR_DRP 24186	40.93 1.11 0.00	38.20 1.00 0.00	36.54 0.93 0.00	35.96 0.91 0.00	37.55 0.81 0.00	34.75 0.71 0.00	37.43 0.77 0.00	41.84 0.82 0.00	44.02 0.91 0.00	46.29 0.95 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.45 1.11 0.00	44.99 1.05 0.00	47.80 1.17 0.00	47.37 1.16 0.00	49.77 1.26 0.00	51.81 1.36 0.00	56.17 1.53 0.00	54.00 1.37 0.00	46.57 1.27 0.00	43.00 1.09 0.00	40.28 0.94 0.00
REYNOLDS_115KV_TB3 80639	40.42 0.60 0.00	37.83 0.63 0.00	36.36 0.75 0.00	35.86 0.81 0.00	37.81 1.07 0.00	35.16 1.12 0.00	37.62 0.95 0.00	42.01 0.98 0.00	44.19 1.08 0.00	46.29 0.95 0.00	48.93 0.91 0.00	50.73 1.09 0.00	49.92 1.12 0.00	49.49 1.16 0.00	44.99 1.05 0.00	47.76 1.12 0.00	47.47 1.25 0.00	49.96 1.46 0.00	51.91 1.46 0.00	56.17 1.53 0.00	54.00 1.37 0.00	46.25 0.95 0.00	42.58 0.67 0.00	39.97 0.63 0.00
RIVERBAY____ 323610	41.01 1.19 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.31 1.26 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.87 1.85 0.00	45.09 1.98 0.00	47.42 2.09 0.00	49.99 1.97 0.00	51.87 2.23 0.00	50.99 2.20 0.00	50.65 2.32 0.00	46.17 2.24 0.00	48.88 2.24 0.00	48.72 2.50 0.00	51.32 2.81 0.00	53.32 2.88 0.00	57.81 3.17 0.00	55.52 2.89 0.00	47.34 2.04 0.00	43.71 1.80 0.00	40.91 1.57 0.00
RIVERSDE_115KV_TB3 55908	40.34 0.52 0.00	37.75 0.56 0.00	36.29 0.68 0.00	35.82 0.77 0.00	37.74 0.99 0.00	35.05 1.02 0.00	37.51 0.84 0.00	41.84 0.82 0.00	43.97 0.86 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.53 0.89 0.00	49.72 0.93 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00
ROARING___BROOK_WT_PWR 323790	39.74 -0.08 0.00	37.01 -0.19 0.00	35.32 -0.29 0.00	34.67 -0.38 0.00	36.15 -0.59 0.00	33.32 -0.72 0.00	35.75 -0.92 0.00	39.92 -1.11 0.00	41.82 -1.29 0.00	43.93 -1.41 0.00	46.58 -1.44 0.00	48.10 -1.54 0.00	47.23 -1.56 0.00	46.78 -1.55 0.00	42.48 -1.45 0.00	45.10 -1.54 0.00	44.70 -1.52 0.00	46.96 -1.55 0.00	48.83 -1.62 0.00	52.95 -1.69 0.00	51.05 -1.58 0.00	44.08 -1.22 0.00	40.90 -1.01 0.00	38.55 -0.79 0.00



ROCHESRG_115KV_T4 355643	39.34 -0.48 0.00	36.67 -0.52 0.00	34.83 -0.78 0.00	34.17 -0.88 0.00	35.79 -0.96 0.00	33.32 -0.71 0.00	36.19 -0.48 0.00	40.61 -0.41 0.00	42.59 -0.52 0.00	44.88 -0.45 0.00	47.59 -0.43 0.00	49.09 -0.55 0.00	48.31 -0.49 0.00	47.80 -0.53 0.00	43.49 -0.44 0.00	46.22 -0.42 0.00	45.43 -0.79 0.00	47.15 -1.36 0.00	49.09 -1.36 0.00	53.00 -1.64 0.00	51.42 -1.21 0.00	44.67 -0.63 0.00	41.87 -0.04 0.00	39.26 -0.08 0.00
ROCHESTER_9_IC 23652	39.54 -0.28 0.00	36.86 -0.33 0.00	34.97 -0.64 0.00	34.31 -0.74 0.00	35.93 -0.81 0.00	33.45 -0.58 0.00	36.33 -0.33 0.00	40.82 -0.21 0.00	42.77 -0.34 0.00	45.11 -0.23 0.00	47.87 -0.14 0.00	49.39 -0.25 0.00	48.55 -0.24 0.00	48.09 -0.24 0.00	43.76 -0.18 0.00	46.45 -0.19 0.00	45.66 -0.55 0.00	47.39 -1.12 0.00	49.34 -1.11 0.00	53.28 -1.37 0.00	51.73 -0.89 0.00	44.89 -0.41 0.00	42.08 0.17 0.00	39.46 0.12 0.00
ROCKVIEW_13_KV_LD 356306	41.01 1.19 0.00	38.42 1.23 0.00	36.82 1.21 0.00	36.35 1.30 0.00	38.18 1.43 0.00	35.56 1.53 0.00	38.31 1.65 0.00	42.95 1.93 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.32 2.30 0.00	52.12 2.48 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.53 3.08 0.00	58.09 3.44 0.00	55.73 3.11 0.00	47.61 2.31 0.00	43.84 1.93 0.00	40.95 1.61 0.00
ROME____115KV_TB2 80656	40.93 1.11 0.00	38.20 1.00 0.00	36.54 0.93 0.00	35.96 0.91 0.00	37.55 0.81 0.00	34.75 0.71 0.00	37.43 0.77 0.00	41.84 0.82 0.00	44.02 0.91 0.00	46.29 0.95 0.00	49.08 1.06 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.45 1.11 0.00	44.99 1.05 0.00	47.80 1.17 0.00	47.37 1.16 0.00	49.77 1.26 0.00	51.81 1.36 0.00	56.17 1.53 0.00	54.00 1.37 0.00	46.57 1.27 0.00	43.00 1.09 0.00	40.28 0.94 0.00
ROSETON___1 23587	40.62 0.80 0.00	38.01 0.82 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.15 1.12 0.00	37.95 1.28 0.00	42.46 1.44 0.00	44.71 1.60 0.00	46.96 1.63 0.00	49.65 1.63 0.00	51.38 1.74 0.00	50.55 1.75 0.00	50.12 1.79 0.00	45.64 1.71 0.00	48.41 1.77 0.00	48.16 1.94 0.00	50.69 2.18 0.00	52.72 2.27 0.00	57.16 2.51 0.00	54.84 2.21 0.00	46.93 1.63 0.00	43.25 1.34 0.00	40.48 1.14 0.00
ROSETON___2 23588	40.62 0.80 0.00	38.01 0.82 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.15 1.12 0.00	37.95 1.28 0.00	42.46 1.44 0.00	44.71 1.60 0.00	46.96 1.63 0.00	49.65 1.63 0.00	51.38 1.74 0.00	50.55 1.75 0.00	50.12 1.79 0.00	45.64 1.71 0.00	48.41 1.77 0.00	48.16 1.94 0.00	50.69 2.18 0.00	52.72 2.27 0.00	57.16 2.51 0.00	54.84 2.21 0.00	46.93 1.63 0.00	43.25 1.34 0.00	40.48 1.14 0.00
ROTRRDAM_115KV_TB3 80664	40.70 0.88 0.00	38.01 0.82 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.12 1.09 0.00	37.80 1.14 0.00	42.30 1.27 0.00	44.49 1.38 0.00	46.74 1.41 0.00	49.41 1.39 0.00	51.13 1.49 0.00	50.31 1.51 0.00	49.88 1.55 0.00	45.34 1.41 0.00	48.13 1.49 0.00	47.84 1.62 0.00	50.30 1.79 0.00	52.31 1.87 0.00	56.72 2.08 0.00	54.52 1.89 0.00	46.75 1.45 0.00	43.08 1.17 0.00	40.40 1.06 0.00
RUSSELL___1 23602	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
RUSSELL___2 23532	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
RUSSELL___3 23549	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
RUSSELL___4 23556	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
RUSSELL___STATION 23914	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
S SALMON___HYD 24043	39.30 -0.52 0.00	36.71 -0.48 0.00	35.08 -0.53 0.00	34.49 -0.56 0.00	36.08 -0.66 0.00	33.45 -0.58 0.00	36.07 -0.59 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.61 -0.73 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.72 0.00	43.27 -0.66 0.00	46.03 -0.61 0.00	45.62 -0.60 0.00	47.93 -0.58 0.00	49.89 -0.55 0.00	54.15 -0.49 0.00	52.05 -0.58 0.00	44.89 -0.41 0.00	41.49 -0.42 0.00	38.91 -0.43 0.00
S.PERRY__115KV_TB1 80734	40.74 0.92 0.00	37.87 0.67 0.00	35.86 0.25 0.00	35.12 0.07 0.00	36.71 -0.04 0.00	34.13 0.10 0.00	37.07 0.40 0.00	41.48 0.45 0.00	43.33 0.22 0.00	45.65 0.32 0.00	48.26 0.24 0.00	49.74 0.10 0.00	48.89 0.10 0.00	48.29 -0.05 0.00	43.93 0.00 0.00	46.87 0.23 0.00	46.17 -0.05 0.00	48.22 -0.29 0.00	50.55 0.10 0.00	54.81 0.16 0.00	53.37 0.74 0.00	46.34 1.04 0.00	43.42 1.51 0.00	40.75 1.42 0.00
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	39.22 -0.60 0.00	36.53 -0.67 0.00	34.54 -1.07 0.00	33.79 -1.26 0.00	35.31 -1.43 0.00	33.01 -1.02 0.00	36.00 -0.66 0.00	40.37 -0.66 0.00	42.21 -0.91 0.00	44.47 -0.86 0.00	47.11 -0.91 0.00	48.50 -1.14 0.00	47.72 -1.07 0.00	47.27 -1.06 0.00	43.05 -0.88 0.00	45.66 -0.98 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.98 -2.47 0.00	51.69 -2.95 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.87 -0.04 0.00	39.46 0.12 0.00



SAWYER___23_KV_LOAD 55526	39.22 -0.60 0.00	36.53 -0.67 0.00	34.54 -1.07 0.00	33.79 -1.26 0.00	35.31 -1.43 0.00	33.01 -1.02 0.00	36.00 -0.66 0.00	40.37 -0.66 0.00	42.21 -0.91 0.00	44.47 -0.86 0.00	47.11 -0.91 0.00	48.50 -1.14 0.00	47.72 -1.07 0.00	47.27 -1.06 0.00	43.05 -0.88 0.00	45.66 -0.98 0.00	44.69 -1.53 0.00	46.04 -2.47 0.00	47.98 -2.47 0.00	51.69 -2.95 0.00	50.42 -2.21 0.00	44.30 -1.00 0.00	41.87 -0.04 0.00	39.46 0.12 0.00
SELKIRK___I 23801	40.57 0.75 0.00	37.94 0.74 0.00	36.46 0.85 0.00	36.00 0.95 0.00	37.88 1.14 0.00	35.09 1.06 0.00	37.65 0.99 0.00	42.01 0.98 0.00	44.14 1.03 0.00	46.38 1.04 0.00	49.03 1.01 0.00	50.78 1.14 0.00	49.92 1.12 0.00	49.49 1.16 0.00	45.03 1.10 0.00	47.80 1.17 0.00	47.51 1.29 0.00	49.96 1.45 0.00	51.96 1.51 0.00	56.28 1.64 0.00	54.05 1.42 0.00	46.39 1.09 0.00	42.75 0.84 0.00	40.12 0.79 0.00
SELKIRK___II 23799	40.34 0.52 0.00	37.72 0.52 0.00	36.25 0.64 0.00	35.79 0.74 0.00	37.66 0.92 0.00	34.92 0.88 0.00	37.47 0.81 0.00	41.80 0.78 0.00	43.97 0.86 0.00	46.15 0.82 0.00	48.78 0.77 0.00	50.54 0.89 0.00	49.67 0.88 0.00	49.25 0.92 0.00	44.81 0.88 0.00	47.57 0.93 0.00	47.28 1.06 0.00	49.72 1.21 0.00	51.71 1.26 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.49 0.59 0.00	39.89 0.55 0.00
SENECA OSWGO___HYD 24041	39.38 -0.44 0.00	36.79 -0.41 0.00	35.15 -0.46 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.63 -0.41 0.00	36.26 -0.40 0.00	40.65 -0.37 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.68 -0.33 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	48.00 -0.34 0.00	43.67 -0.26 0.00	46.36 -0.28 0.00	45.90 -0.32 0.00	48.12 -0.39 0.00	50.04 -0.41 0.00	54.15 -0.49 0.00	52.15 -0.47 0.00	44.94 -0.36 0.00	41.62 -0.29 0.00	39.06 -0.27 0.00
SENECA___115KV_TB3 355854	39.62 -0.20 0.00	36.94 -0.26 0.00	34.90 -0.71 0.00	34.14 -0.91 0.00	35.68 -1.07 0.00	33.28 -0.75 0.00	36.33 -0.33 0.00	40.74 -0.29 0.00	42.59 -0.52 0.00	44.88 -0.45 0.00	47.54 -0.48 0.00	49.00 -0.65 0.00	48.21 -0.59 0.00	47.75 -0.58 0.00	43.49 -0.44 0.00	46.12 -0.51 0.00	45.16 -1.06 0.00	46.57 -1.94 0.00	48.53 -1.92 0.00	52.35 -2.30 0.00	51.10 -1.53 0.00	44.89 -0.41 0.00	42.41 0.50 0.00	39.97 0.63 0.00
SENECA___ENERGY 23797	39.78 -0.04 0.00	37.12 -0.07 0.00	35.36 -0.25 0.00	34.73 -0.32 0.00	36.41 -0.33 0.00	33.86 -0.17 0.00	36.55 -0.11 0.00	41.02 0.00 0.00	43.02 -0.09 0.00	45.38 0.05 0.00	48.07 0.05 0.00	49.64 0.00 0.00	48.84 0.05 0.00	48.33 0.00 0.00	43.93 0.00 0.00	46.73 0.09 0.00	46.22 0.00 0.00	48.41 -0.10 0.00	50.40 -0.05 0.00	54.43 -0.22 0.00	52.63 0.00 0.00	45.48 0.18 0.00	42.24 0.33 0.00	39.65 0.31 0.00
SHOEMAKER___GT 23640	40.50 0.68 0.00	37.87 0.67 0.00	36.32 0.71 0.00	35.82 0.77 0.00	37.70 0.95 0.00	34.95 0.92 0.00	37.69 1.03 0.00	42.17 1.15 0.00	44.36 1.25 0.00	46.60 1.27 0.00	49.27 1.25 0.00	51.03 1.39 0.00	50.21 1.42 0.00	49.74 1.40 0.00	45.29 1.36 0.00	48.04 1.40 0.00	47.79 1.57 0.00	50.31 1.80 0.00	52.36 1.92 0.00	56.77 2.13 0.00	54.47 1.84 0.00	46.66 1.36 0.00	43.00 1.09 0.00	40.32 0.98 0.00
SHOEMAKR_138KV_BK 111 55601	40.46 0.64 0.00	37.87 0.67 0.00	36.32 0.71 0.00	35.82 0.77 0.00	37.66 0.92 0.00	34.99 0.95 0.00	37.65 0.99 0.00	42.17 1.15 0.00	44.36 1.25 0.00	46.65 1.31 0.00	49.32 1.30 0.00	51.03 1.39 0.00	50.21 1.41 0.00	49.74 1.40 0.00	45.29 1.36 0.00	48.04 1.40 0.00	47.79 1.57 0.00	50.35 1.84 0.00	52.37 1.92 0.00	56.77 2.13 0.00	54.47 1.84 0.00	46.66 1.36 0.00	43.04 1.13 0.00	40.32 0.98 0.00
SHOREHAM_IC_1 23715	40.38 0.56 0.00	37.83 0.63 0.00	36.04 0.43 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.88 0.85 0.00	38.13 1.47 0.00	43.04 2.01 -0.01	45.25 1.89 -0.24	50.53 1.82 -3.38	49.56 1.54 -0.01	52.13 1.64 -0.86	52.20 1.61 -1.80	52.11 1.59 -2.18	50.94 1.71 -5.30	50.64 1.77 -2.23	52.24 2.03 -3.99	51.92 2.47 -0.94	52.83 2.37 -0.01	57.97 2.73 -0.59	55.06 2.42 -0.01	50.42 1.86 -3.26	45.41 1.55 -1.95	40.68 1.34 -0.01
SHOREHAM_IC_2 23716	40.38 0.56 0.00	37.83 0.63 0.00	36.04 0.43 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.88 0.85 0.00	38.13 1.47 0.00	43.04 2.01 -0.01	45.25 1.89 -0.24	50.53 1.82 -3.38	49.56 1.54 -0.01	52.13 1.64 -0.86	52.20 1.61 -1.80	52.11 1.59 -2.18	50.94 1.71 -5.30	50.64 1.77 -2.23	52.24 2.03 -3.99	51.92 2.47 -0.94	52.83 2.37 -0.01	57.97 2.73 -0.59	55.06 2.42 -0.01	50.42 1.86 -3.26	45.41 1.55 -1.95	40.68 1.34 -0.01
SISSONVILLE____ 23735	38.98 -0.84 0.00	36.45 -0.74 0.00	34.86 -0.75 0.00	34.24 -0.81 0.00	35.68 -1.07 0.00	32.88 -1.16 0.00	35.34 -1.32 0.00	39.51 -1.52 0.00	41.39 -1.72 0.00	43.52 -1.81 0.00	46.19 -1.82 0.00	47.61 -2.04 0.00	46.69 -2.10 0.00	46.30 -2.03 0.00	41.91 -2.02 0.00	44.49 -2.15 0.00	44.14 -2.08 0.00	46.37 -2.13 0.00	48.23 -2.22 0.00	52.29 -2.35 0.00	50.52 -2.11 0.00	43.58 -1.72 0.00	40.32 -1.59 0.00	37.84 -1.49 0.00
SITHE_IND_GS1 24169	39.14 -0.68 0.00	36.56 -0.63 0.00	34.93 -0.68 0.00	34.38 -0.67 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.66 -0.68 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.72 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.59 -0.86 0.00	53.71 -0.93 0.00	51.73 -0.90 0.00	44.62 -0.68 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00
SITHE_IND_GS2 24170	39.14 -0.68 0.00	36.56 -0.63 0.00	34.93 -0.68 0.00	34.38 -0.67 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.66 -0.68 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.72 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.59 -0.86 0.00	53.71 -0.93 0.00	51.73 -0.90 0.00	44.62 -0.68 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00
SITHE_IND_GS3 24171	39.14 -0.68 0.00	36.56 -0.63 0.00	34.93 -0.68 0.00	34.38 -0.67 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.66 -0.68 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.72 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.59 -0.86 0.00	53.71 -0.93 0.00	51.73 -0.90 0.00	44.62 -0.68 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00
SITHE_IND_GS4 24172	39.14 -0.68 0.00	36.56 -0.63 0.00	34.93 -0.68 0.00	34.38 -0.67 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.04 -0.62 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.66 -0.68 0.00	47.30 -0.72 0.00	48.90 -0.74 0.00	48.11 -0.68 0.00	47.61 -0.72 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.73 -0.78 0.00	49.59 -0.86 0.00	53.71 -0.93 0.00	51.73 -0.90 0.00	44.62 -0.68 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00



SITHE___BATAVIA 24024	40.06 0.24 0.00	37.31 0.11 0.00	35.25 -0.36 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.86 -0.17 0.00	36.55 -0.11 0.00	41.27 0.25 0.00	43.11 0.00 0.00	45.47 0.14 0.00	48.16 0.14 0.00	49.49 -0.15 0.00	48.74 -0.05 0.00	48.24 -0.10 0.00	43.93 0.00 0.00	46.68 0.05 0.00	45.76 -0.46 0.00	47.44 -1.07 0.00	49.29 -1.16 0.00	53.22 -1.42 0.00	52.00 -0.63 0.00	45.30 0.00 0.00	42.75 0.84 0.00	40.08 0.75 0.00
SITHE___INDEPEND 23800	39.14 -0.68 0.00	36.56 -0.63 0.00	34.93 -0.68 0.00	34.38 -0.67 0.00	36.04 -0.70 0.00	33.42 -0.61 0.00	36.08 -0.59 0.00	40.37 -0.66 0.00	42.42 -0.69 0.00	44.65 -0.68 0.00	47.30 -0.72 0.00	48.95 -0.69 0.00	48.11 -0.68 0.00	47.61 -0.73 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.68 -0.82 0.00	49.59 -0.86 0.00	53.71 -0.93 0.00	51.73 -0.89 0.00	44.62 -0.68 0.00	41.32 -0.59 0.00	38.79 -0.55 0.00
SITHE___MASSENA 23902	40.02 0.20 0.00	37.38 0.19 0.00	35.79 0.18 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.86 -0.17 0.00	36.41 -0.25 0.00	40.69 -0.33 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.63 -0.39 0.00	49.14 -0.50 0.00	48.21 -0.58 0.00	47.80 -0.53 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.77 -0.88 0.00	52.00 -0.63 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
SITHE___OGDNSBRG 24021	40.14 0.32 0.00	37.53 0.33 0.00	35.89 0.28 0.00	35.26 0.21 0.00	36.78 0.04 0.00	33.90 -0.14 0.00	36.44 -0.22 0.00	40.65 -0.37 0.00	42.55 -0.56 0.00	44.61 -0.73 0.00	47.35 -0.67 0.00	48.80 -0.84 0.00	47.91 -0.88 0.00	47.56 -0.77 0.00	43.05 -0.88 0.00	45.75 -0.89 0.00	45.39 -0.83 0.00	47.73 -0.78 0.00	49.74 -0.71 0.00	53.99 -0.66 0.00	52.16 -0.47 0.00	44.98 -0.32 0.00	41.62 -0.29 0.00	39.10 -0.24 0.00
SITHE___STERLING 23777	40.69 0.87 0.00	38.01 0.82 0.00	36.32 0.71 0.00	35.75 0.70 0.00	37.44 0.70 0.00	34.65 0.61 0.00	37.36 0.69 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.19 0.86 0.00	48.98 0.96 0.00	50.68 1.04 0.00	49.82 1.03 0.00	49.35 1.02 0.00	44.90 0.97 0.00	47.71 1.07 0.00	47.28 1.06 0.00	49.67 1.16 0.00	51.66 1.21 0.00	56.01 1.37 0.00	53.84 1.21 0.00	46.43 1.13 0.00	42.87 0.96 0.00	40.20 0.86 0.00
SLEIGHT__34_KV_TB1 80719	39.50 -0.32 0.00	36.82 -0.37 0.00	35.00 -0.61 0.00	34.38 -0.67 0.00	36.01 -0.73 0.00	33.49 -0.54 0.00	36.30 -0.37 0.00	40.78 -0.25 0.00	42.81 -0.30 0.00	45.20 -0.14 0.00	47.92 -0.10 0.00	49.54 -0.10 0.00	48.70 -0.10 0.00	48.19 -0.15 0.00	43.80 -0.13 0.00	46.59 -0.05 0.00	45.90 -0.32 0.00	47.83 -0.68 0.00	49.74 -0.71 0.00	53.71 -0.93 0.00	51.95 -0.68 0.00	44.98 -0.32 0.00	41.95 0.04 0.00	39.30 -0.04 0.00
SOUTH CAIRO___GT 23612	41.37 1.55 0.00	38.68 1.49 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.62 1.87 0.00	35.73 1.70 0.00	38.20 1.54 0.00	42.58 1.56 0.00	44.88 1.77 0.00	47.01 1.68 0.00	49.60 1.58 0.00	51.38 1.74 0.00	50.50 1.71 0.00	50.03 1.69 0.00	45.60 1.67 0.00	48.46 1.82 0.00	48.35 2.13 0.00	51.08 2.57 0.00	53.17 2.72 0.00	57.59 2.95 0.00	55.16 2.53 0.00	47.25 1.95 0.00	43.58 1.68 0.00	40.91 1.57 0.00
SOUTH HAMPTN___IC 23720	40.74 0.92 0.00	38.20 1.00 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.74 0.99 0.00	35.12 1.09 0.00	38.35 1.69 0.00	43.33 2.30 -0.01	45.63 2.28 -0.24	50.97 2.27 -3.37	49.90 1.87 -0.01	52.68 2.18 -0.86	52.69 2.10 -1.80	52.59 2.08 -2.18	51.33 2.11 -5.29	51.01 2.15 -2.23	52.60 2.40 -3.98	52.31 2.86 -0.94	53.18 2.72 -0.01	58.35 3.11 -0.59	55.37 2.74 -0.01	50.64 2.08 -3.25	45.66 1.80 -1.95	41.00 1.65 -0.01
SOUTHDOW_115KV_TB1 355954	40.50 0.68 0.00	37.53 0.33 0.00	35.43 -0.18 0.00	34.59 -0.46 0.00	35.93 -0.81 0.00	33.42 -0.61 0.00	36.55 -0.11 0.00	40.94 -0.08 0.00	42.81 -0.30 0.00	45.20 -0.14 0.00	47.87 -0.14 0.00	49.34 -0.30 0.00	48.60 -0.20 0.00	48.29 -0.05 0.00	44.19 0.26 0.00	47.01 0.37 0.00	46.27 0.05 0.00	47.78 -0.73 0.00	49.84 -0.61 0.00	53.93 -0.71 0.00	52.84 0.21 0.00	46.48 1.18 0.00	43.79 1.89 0.00	41.38 2.05 0.00
SOUTHOLD_69_KV_BK 2 55809	40.89 1.08 0.00	38.35 1.15 0.00	36.43 0.82 0.00	35.93 0.88 0.00	37.44 0.70 0.00	35.16 1.12 0.00	38.31 1.65 0.00	43.41 2.38 -0.01	45.81 2.46 -0.24	51.15 2.45 -3.37	49.76 1.73 -0.01	52.78 2.28 -0.86	52.74 2.15 -1.80	52.64 2.13 -2.18	51.33 2.11 -5.29	51.10 2.24 -2.23	52.56 2.36 -3.98	52.36 2.91 -0.94	53.13 2.67 -0.01	58.41 3.17 -0.59	55.38 2.74 -0.01	50.55 1.99 -3.25	45.58 1.72 -1.95	41.08 1.73 -0.01
SOUTHOLD___IC 23719	40.90 1.08 0.00	38.35 1.15 0.00	36.43 0.82 0.00	35.89 0.84 0.00	37.77 1.03 0.00	35.12 1.09 0.00	38.35 1.69 0.00	43.41 2.38 -0.01	45.81 2.46 -0.24	51.15 2.45 -3.37	49.75 1.73 -0.01	52.83 2.33 -0.86	52.88 2.29 -1.80	52.74 2.22 -2.18	51.42 2.20 -5.29	51.10 2.24 -2.23	52.60 2.40 -3.98	52.36 2.91 -0.94	53.13 2.67 -0.01	58.40 3.17 -0.59	55.37 2.74 -0.01	50.54 1.99 -3.25	45.58 1.72 -1.95	41.08 1.73 -0.01
SOUTH_FORK_WT_PWR 323839	40.57 0.75 0.00	38.09 0.89 0.00	36.18 0.57 0.00	35.58 0.53 0.00	37.48 0.73 0.00	34.78 0.75 0.00	37.95 1.28 0.00	42.96 1.93 -0.01	45.38 2.03 -0.24	50.70 1.99 -3.37	49.08 1.06 -0.01	52.34 1.84 -0.86	52.34 1.75 -1.80	52.20 1.69 -2.18	50.93 1.71 -5.29	50.59 1.73 -2.23	52.00 1.80 -3.98	51.73 2.28 -0.94	52.37 1.92 -0.01	57.58 2.35 -0.59	54.59 1.95 -0.01	49.87 1.31 -3.25	44.95 1.09 -1.95	40.68 1.34 -0.01
SPIERFLS_115KV_TB 1 80737	41.53 1.71 0.00	38.80 1.60 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.69 1.95 0.00	35.87 1.84 0.00	38.61 1.94 0.00	43.28 2.26 0.00	45.65 2.54 0.00	48.15 2.81 0.00	50.90 2.88 0.00	52.72 3.08 0.00	51.87 3.07 0.00	51.28 2.95 0.00	46.65 2.72 0.00	49.53 2.89 0.00	49.18 2.96 0.00	51.81 3.30 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	48.02 2.72 0.00	44.09 2.18 0.00	41.26 1.93 0.00
ST LAWRENCE____ 23600	39.78 -0.04 0.00	37.16 -0.04 0.00	35.57 -0.04 0.00	34.95 -0.10 0.00	36.52 -0.22 0.00	33.73 -0.31 0.00	36.30 -0.37 0.00	40.57 -0.45 0.00	42.60 -0.52 0.00	44.79 -0.54 0.00	47.49 -0.53 0.00	48.99 -0.65 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.18 -0.75 0.00	45.84 -0.79 0.00	45.39 -0.83 0.00	47.64 -0.87 0.00	49.54 -0.91 0.00	53.66 -0.98 0.00	51.79 -0.84 0.00	44.67 -0.63 0.00	41.36 -0.55 0.00	38.87 -0.47 0.00
STATE_CA_115KV_115_LB 55624	40.42 0.60 0.00	37.83 0.63 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.77 1.03 0.00	35.05 1.02 0.00	37.47 0.81 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.58 0.94 0.00	49.77 0.98 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00



STATE_ST_34_KV_LOAD 55959	40.10 0.28 0.00	37.42 0.22 0.00	35.72 0.11 0.00	35.08 0.04 0.00	36.78 0.04 0.00	34.13 0.10 0.00	36.92 0.26 0.00	41.39 0.37 0.00	43.50 0.39 0.00	45.88 0.54 0.00	48.59 0.58 0.00	50.24 0.60 0.00	49.43 0.63 0.00	48.91 0.58 0.00	44.50 0.57 0.00	47.29 0.65 0.00	46.82 0.60 0.00	49.04 0.53 0.00	51.00 0.55 0.00	55.13 0.49 0.00	53.10 0.47 0.00	45.84 0.54 0.00	42.50 0.59 0.00	39.85 0.51 0.00
STATION 5_MISC_HYD 23604	39.54 -0.28 0.00	36.86 -0.34 0.00	34.97 -0.64 0.00	34.31 -0.74 0.00	35.97 -0.77 0.00	33.56 -0.48 0.00	36.26 -0.40 0.00	40.86 -0.16 0.00	42.76 -0.35 0.00	45.11 -0.23 0.00	47.83 -0.19 0.00	49.34 -0.30 0.00	48.55 -0.24 0.00	48.09 -0.24 0.00	43.76 -0.18 0.00	46.45 -0.19 0.00	45.67 -0.55 0.00	47.49 -1.02 0.00	49.34 -1.11 0.00	53.28 -1.36 0.00	51.79 -0.84 0.00	44.89 -0.41 0.00	42.08 0.17 0.00	39.46 0.12 0.00
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	40.06 0.24 0.00	37.34 0.15 0.00	35.50 -0.11 0.00	34.87 -0.18 0.00	36.52 -0.22 0.00	33.93 -0.10 0.00	36.77 0.11 0.00	41.27 0.25 0.00	43.33 0.22 0.00	45.74 0.41 0.00	48.55 0.53 0.00	50.09 0.45 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.15 0.51 0.00	46.50 0.28 0.00	48.46 -0.05 0.00	50.45 0.00 0.00	54.48 -0.16 0.00	52.73 0.11 0.00	45.62 0.32 0.00	42.54 0.63 0.00	39.85 0.51 0.00
STA_56_34_KV_BUS2_REV_LBMP_B 345033	39.34 -0.48 0.00	36.67 -0.52 0.00	34.79 -0.82 0.00	34.17 -0.88 0.00	35.79 -0.96 0.00	33.28 -0.75 0.00	36.15 -0.51 0.00	40.61 -0.41 0.00	42.59 -0.52 0.00	44.93 -0.41 0.00	47.63 -0.38 0.00	49.14 -0.50 0.00	48.35 -0.44 0.00	47.90 -0.44 0.00	43.54 -0.40 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.25 -1.26 0.00	49.19 -1.26 0.00	53.11 -1.53 0.00	51.52 -1.11 0.00	44.71 -0.59 0.00	41.82 -0.08 0.00	39.22 -0.12 0.00
STA_56___34_KV_BUS2 355983	39.34 -0.48 0.00	36.67 -0.52 0.00	34.79 -0.82 0.00	34.17 -0.88 0.00	35.79 -0.96 0.00	33.28 -0.75 0.00	36.15 -0.51 0.00	40.61 -0.41 0.00	42.59 -0.52 0.00	44.93 -0.41 0.00	47.63 -0.38 0.00	49.14 -0.50 0.00	48.35 -0.44 0.00	47.90 -0.44 0.00	43.54 -0.40 0.00	46.26 -0.37 0.00	45.48 -0.74 0.00	47.25 -1.26 0.00	49.19 -1.26 0.00	53.11 -1.53 0.00	51.52 -1.11 0.00	44.71 -0.59 0.00	41.82 -0.08 0.00	39.22 -0.12 0.00
STA_67___115KV_BK2 355882	39.46 -0.36 0.00	36.79 -0.41 0.00	34.90 -0.71 0.00	34.28 -0.77 0.00	35.86 -0.88 0.00	33.39 -0.65 0.00	36.26 -0.40 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.78 -0.24 0.00	49.24 -0.40 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.62 -0.31 0.00	46.36 -0.28 0.00	45.57 -0.65 0.00	47.30 -1.21 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.63 -1.00 0.00	44.80 -0.50 0.00	41.99 0.08 0.00	39.38 0.04 0.00
STA_7___115KV_9TRANS 80674	39.74 -0.08 0.00	37.01 -0.19 0.00	35.11 -0.50 0.00	34.45 -0.60 0.00	36.08 -0.66 0.00	33.56 -0.48 0.00	36.44 -0.22 0.00	40.98 -0.04 0.00	42.94 -0.17 0.00	45.33 0.00 0.00	48.11 0.10 0.00	49.59 -0.05 0.00	48.79 0.00 0.00	48.33 0.00 0.00	43.97 0.04 0.00	46.68 0.05 0.00	45.90 -0.32 0.00	47.64 -0.87 0.00	49.59 -0.86 0.00	53.55 -1.09 0.00	52.00 -0.63 0.00	45.12 -0.18 0.00	42.29 0.38 0.00	39.61 0.28 0.00
STA_82___115KV_TB1 80780	39.46 -0.36 0.00	36.79 -0.41 0.00	34.90 -0.71 0.00	34.28 -0.77 0.00	35.86 -0.88 0.00	33.39 -0.65 0.00	36.26 -0.40 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.78 -0.24 0.00	49.24 -0.40 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.62 -0.31 0.00	46.36 -0.28 0.00	45.57 -0.65 0.00	47.30 -1.21 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.63 -1.00 0.00	44.80 -0.50 0.00	41.99 0.08 0.00	39.38 0.04 0.00
STEEL___WIND 323596	39.58 -0.24 0.00	36.90 -0.30 0.00	34.90 -0.71 0.00	34.11 -0.94 0.00	35.71 -1.03 0.00	33.45 -0.58 0.00	36.18 -0.48 0.00	40.78 -0.24 0.00	42.55 -0.56 0.00	44.84 -0.50 0.00	47.44 -0.57 0.00	48.80 -0.84 0.00	48.11 -0.68 0.00	47.66 -0.68 0.00	43.45 -0.48 0.00	46.03 -0.61 0.00	45.11 -1.11 0.00	46.62 -1.89 0.00	48.48 -1.97 0.00	52.30 -2.35 0.00	51.05 -1.58 0.00	44.85 -0.45 0.00	42.41 0.50 0.00	39.93 0.59 0.00
STEPHTWN_115KV_BK_2 55603	40.62 0.80 0.00	38.01 0.82 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.96 1.21 0.00	35.22 1.19 0.00	37.65 0.99 0.00	42.05 1.03 0.00	44.23 1.12 0.00	46.47 1.13 0.00	49.12 1.10 0.00	50.88 1.24 0.00	50.06 1.27 0.00	49.59 1.26 0.00	45.12 1.19 0.00	47.90 1.26 0.00	47.61 1.39 0.00	50.11 1.60 0.00	52.11 1.66 0.00	56.45 1.80 0.00	54.21 1.58 0.00	46.39 1.09 0.00	42.75 0.84 0.00	40.08 0.75 0.00
STEUBEN_REC_LFGE 323667	40.34 0.52 0.00	37.46 0.26 0.00	35.47 -0.14 0.00	34.63 -0.42 0.00	36.12 -0.62 0.00	33.56 -0.48 0.00	36.37 -0.29 0.00	40.57 -0.45 0.00	42.42 -0.69 0.00	44.84 -0.50 0.00	47.49 -0.53 0.00	49.04 -0.60 0.00	48.26 -0.54 0.00	47.66 -0.68 0.00	43.40 -0.53 0.00	46.40 -0.23 0.00	45.76 -0.46 0.00	47.83 -0.68 0.00	50.10 -0.35 0.00	54.21 -0.44 0.00	52.63 0.00 0.00	46.03 0.72 0.00	43.04 1.13 0.00	40.60 1.26 0.00
STILLWATER___SOLAR 323814	41.29 1.47 0.00	38.57 1.38 0.00	37.07 1.46 0.00	36.56 1.51 0.00	38.51 1.76 0.00	35.67 1.63 0.00	38.46 1.80 0.00	42.99 1.97 0.00	45.31 2.20 0.00	47.65 2.31 0.00	50.37 2.35 0.00	52.17 2.53 0.00	51.33 2.54 0.00	50.85 2.51 0.00	46.21 2.28 0.00	49.06 2.42 0.00	48.71 2.49 0.00	51.27 2.76 0.00	53.32 2.87 0.00	57.81 3.17 0.00	55.52 2.89 0.00	47.56 2.26 0.00	43.75 1.84 0.00	40.99 1.65 0.00
STONY___BROOK 24151	41.09 1.27 0.00	38.50 1.30 0.00	36.68 1.07 0.00	36.20 1.15 0.00	38.14 1.40 0.00	35.49 1.46 0.00	38.64 1.98 0.00	43.62 2.59 -0.01	46.02 2.67 -0.24	51.44 2.72 -3.39	50.57 2.54 -0.01	53.13 2.63 -0.86	53.18 2.58 -1.80	53.13 2.61 -2.19	51.84 2.59 -5.31	51.53 2.66 -2.24	53.18 2.96 -4.00	52.90 3.44 -0.94	53.84 3.38 -0.01	58.96 3.72 -0.60	56.06 3.42 -0.01	51.29 2.72 -3.27	46.21 2.35 -1.96	41.39 2.04 -0.01
STURGEON_POOL_HYD 23609	40.66 0.84 0.00	38.05 0.86 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.22 1.19 0.00	37.91 1.25 0.00	42.46 1.44 0.00	44.75 1.64 0.00	47.01 1.68 0.00	49.65 1.63 0.00	51.43 1.79 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.73 1.80 0.00	48.50 1.87 0.00	48.30 2.08 0.00	50.84 2.33 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.00 2.37 0.00	47.02 1.72 0.00	43.38 1.47 0.00	40.60 1.26 0.00
ST_LAW_115_BK7_LBMP 345037	39.78 -0.04 0.00	37.12 -0.07 0.00	35.54 -0.07 0.00	34.91 -0.14 0.00	36.49 -0.26 0.00	33.69 -0.34 0.00	36.26 -0.40 0.00	40.53 -0.49 0.00	42.55 -0.56 0.00	44.74 -0.59 0.00	47.44 -0.57 0.00	48.95 -0.70 0.00	48.01 -0.78 0.00	47.56 -0.78 0.00	43.14 -0.79 0.00	45.80 -0.84 0.00	45.34 -0.88 0.00	47.59 -0.92 0.00	49.44 -1.01 0.00	53.60 -1.04 0.00	51.73 -0.90 0.00	44.57 -0.73 0.00	41.32 -0.59 0.00	38.82 -0.51 0.00



ST_LAW_115_BK8_LBMP 345038	39.78 -0.04 0.00	37.12 -0.07 0.00	35.54 -0.07 0.00	34.91 -0.14 0.00	36.49 -0.26 0.00	33.69 -0.34 0.00	36.26 -0.40 0.00	40.53 -0.49 0.00	42.55 -0.56 0.00	44.74 -0.59 0.00	47.44 -0.57 0.00	48.95 -0.70 0.00	48.01 -0.78 0.00	47.56 -0.78 0.00	43.14 -0.79 0.00	45.80 -0.84 0.00	45.34 -0.88 0.00	47.59 -0.92 0.00	49.44 -1.01 0.00	53.60 -1.04 0.00	51.73 -0.90 0.00	44.57 -0.73 0.00	41.32 -0.59 0.00	38.82 -0.51 0.00
ST_LAW_230_BK5_LBMP 345035	39.78 -0.04 0.00	37.16 -0.04 0.00	35.57 -0.04 0.00	34.95 -0.10 0.00	36.52 -0.22 0.00	33.73 -0.31 0.00	36.30 -0.37 0.00	40.57 -0.45 0.00	42.60 -0.52 0.00	44.79 -0.54 0.00	47.49 -0.53 0.00	48.99 -0.65 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.18 -0.75 0.00	45.84 -0.79 0.00	45.39 -0.83 0.00	47.64 -0.87 0.00	49.54 -0.91 0.00	53.66 -0.98 0.00	51.79 -0.84 0.00	44.67 -0.63 0.00	41.36 -0.55 0.00	38.87 -0.47 0.00
ST_LAW_230_BK6_LBMP 345036	39.78 -0.04 0.00	37.16 -0.04 0.00	35.57 -0.04 0.00	34.95 -0.10 0.00	36.52 -0.22 0.00	33.73 -0.31 0.00	36.30 -0.37 0.00	40.57 -0.45 0.00	42.60 -0.52 0.00	44.79 -0.54 0.00	47.49 -0.53 0.00	48.99 -0.65 0.00	48.06 -0.73 0.00	47.61 -0.72 0.00	43.18 -0.75 0.00	45.84 -0.79 0.00	45.39 -0.83 0.00	47.64 -0.87 0.00	49.54 -0.91 0.00	53.66 -0.98 0.00	51.79 -0.84 0.00	44.67 -0.63 0.00	41.36 -0.55 0.00	38.87 -0.47 0.00
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	40.54 0.72 0.00	37.94 0.74 0.00	36.39 0.78 0.00	35.89 0.84 0.00	37.74 0.99 0.00	35.09 1.05 0.00	37.76 1.10 0.00	42.30 1.27 0.00	44.58 1.47 0.00	46.83 1.50 0.00	49.51 1.49 0.00	51.23 1.59 0.00	50.40 1.61 0.00	49.98 1.64 0.00	45.51 1.58 0.00	48.27 1.63 0.00	48.02 1.80 0.00	50.60 2.09 0.00	52.57 2.12 0.00	56.99 2.35 0.00	54.73 2.11 0.00	46.80 1.49 0.00	43.17 1.26 0.00	40.40 1.06 0.00
SWANROAD_115KV_TB1 355699	38.47 -1.35 0.00	35.89 -1.30 0.00	33.90 -1.71 0.00	33.19 -1.86 0.00	34.65 -2.09 0.00	32.43 -1.60 0.00	35.27 -1.39 0.00	39.59 -1.44 0.00	41.39 -1.72 0.00	43.61 -1.72 0.00	46.15 -1.87 0.00	47.56 -2.08 0.00	46.79 -2.00 0.00	46.30 -2.03 0.00	42.17 -1.76 0.00	44.73 -1.91 0.00	43.72 -2.50 0.00	45.02 -3.49 0.00	46.92 -3.53 0.00	50.54 -4.10 0.00	49.31 -3.32 0.00	43.31 -1.99 0.00	40.99 -0.92 0.00	38.79 -0.55 0.00
SYNERGY___BIOGAS 323694	40.06 0.24 0.00	37.31 0.11 0.00	35.25 -0.36 0.00	34.56 -0.49 0.00	36.23 -0.51 0.00	33.86 -0.17 0.00	36.55 -0.11 0.00	41.27 0.25 0.00	43.11 0.00 0.00	45.47 0.14 0.00	48.16 0.14 0.00	49.49 -0.15 0.00	48.74 -0.05 0.00	48.24 -0.10 0.00	43.93 0.00 0.00	46.68 0.05 0.00	45.76 -0.46 0.00	47.44 -1.07 0.00	49.29 -1.16 0.00	53.22 -1.42 0.00	52.00 -0.63 0.00	45.30 0.00 0.00	42.75 0.84 0.00	40.08 0.75 0.00
SYRACUSE___ENERGY_ST1 323597	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00
SYRACUSE___ENERGY_ST2 323598	39.94 0.12 0.00	37.31 0.11 0.00	35.65 0.04 0.00	35.05 0.00 0.00	36.74 0.00 0.00	34.07 0.03 0.00	36.81 0.15 0.00	41.23 0.21 0.00	43.33 0.22 0.00	45.70 0.36 0.00	48.40 0.38 0.00	50.14 0.50 0.00	49.28 0.49 0.00	48.77 0.43 0.00	44.37 0.44 0.00	47.10 0.47 0.00	46.59 0.37 0.00	48.85 0.34 0.00	50.80 0.35 0.00	54.97 0.33 0.00	52.89 0.26 0.00	45.62 0.32 0.00	42.24 0.34 0.00	39.65 0.31 0.00
SYRACUSE___POWER 24017	39.86 0.04 0.00	37.23 0.04 0.00	35.57 -0.04 0.00	34.98 -0.07 0.00	36.67 -0.07 0.00	34.00 -0.03 0.00	36.74 0.07 0.00	41.11 0.08 0.00	43.24 0.13 0.00	45.56 0.23 0.00	48.26 0.24 0.00	49.99 0.35 0.00	49.13 0.34 0.00	48.62 0.29 0.00	44.19 0.26 0.00	46.96 0.33 0.00	46.50 0.28 0.00	48.70 0.19 0.00	50.65 0.20 0.00	54.86 0.22 0.00	52.79 0.16 0.00	45.53 0.23 0.00	42.16 0.25 0.00	39.57 0.24 0.00
TALLMAN___138KV_BK151 55660	40.66 0.84 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.85 1.10 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.80 1.78 0.00	51.53 1.89 0.00	50.70 1.90 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.25 2.03 0.00	50.84 2.33 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.05 2.42 0.00	47.02 1.72 0.00	43.33 1.42 0.00	40.56 1.22 0.00
TEALLAVE_115KV_TB7 355573	39.74 -0.08 0.00	37.12 -0.07 0.00	35.47 -0.14 0.00	34.87 -0.18 0.00	36.56 -0.18 0.00	33.93 -0.10 0.00	36.63 -0.04 0.00	41.02 0.00 0.00	43.11 0.00 0.00	45.42 0.09 0.00	48.16 0.14 0.00	49.84 0.20 0.00	49.04 0.24 0.00	48.53 0.19 0.00	44.11 0.18 0.00	46.87 0.23 0.00	46.36 0.14 0.00	48.56 0.05 0.00	50.50 0.05 0.00	54.70 0.05 0.00	52.63 0.00 0.00	45.39 0.09 0.00	42.03 0.13 0.00	39.46 0.12 0.00
TELGRAPH_34_KV_EAST 80808	39.34 -0.48 0.00	36.67 -0.52 0.00	34.65 -0.96 0.00	33.93 -1.12 0.00	35.46 -1.29 0.00	33.11 -0.92 0.00	36.04 -0.62 0.00	40.45 -0.57 0.00	42.33 -0.78 0.00	44.61 -0.73 0.00	47.25 -0.77 0.00	48.65 -0.99 0.00	47.87 -0.93 0.00	47.42 -0.92 0.00	43.14 -0.79 0.00	45.85 -0.79 0.00	44.83 -1.39 0.00	46.23 -2.28 0.00	48.18 -2.27 0.00	51.97 -2.68 0.00	50.68 -1.95 0.00	44.39 -0.91 0.00	41.95 0.04 0.00	39.53 0.20 0.00
TEMPLE___115KV_TB 2 55572	39.78 -0.04 0.00	37.16 -0.04 0.00	35.50 -0.11 0.00	34.91 -0.14 0.00	36.60 -0.15 0.00	33.93 -0.10 0.00	36.66 0.00 0.00	41.07 0.04 0.00	43.15 0.04 0.00	45.47 0.14 0.00	48.21 0.19 0.00	49.89 0.25 0.00	49.09 0.29 0.00	48.58 0.24 0.00	44.15 0.22 0.00	46.92 0.28 0.00	46.40 0.18 0.00	48.61 0.10 0.00	50.55 0.10 0.00	54.70 0.05 0.00	52.68 0.05 0.00	45.44 0.14 0.00	42.08 0.17 0.00	39.49 0.16 0.00
TIANA____69_KV_BK 1 55817	40.70 0.88 0.00	38.16 0.97 0.00	36.32 0.71 0.00	35.89 0.84 0.00	37.40 0.66 0.00	35.19 1.16 0.00	38.35 1.69 0.00	43.37 2.34 -0.01	45.63 2.28 -0.24	50.97 2.27 -3.37	49.95 1.92 -0.01	52.58 2.08 -0.86	52.59 2.00 -1.80	52.49 1.98 -2.18	51.24 2.02 -5.29	51.06 2.19 -2.23	52.60 2.40 -3.98	52.41 2.96 -0.94	53.23 2.77 -0.01	58.41 3.17 -0.59	55.48 2.84 -0.01	50.73 2.17 -3.25	45.75 1.89 -1.95	41.00 1.65 -0.01
TILDEN___115KV_TB1 80814	39.86 0.04 0.00	37.23 0.04 0.00	35.57 -0.04 0.00	34.98 -0.07 0.00	36.67 -0.07 0.00	34.00 -0.03 0.00	36.74 0.07 0.00	41.11 0.08 0.00	43.24 0.13 0.00	45.56 0.23 0.00	48.26 0.24 0.00	49.99 0.35 0.00	49.13 0.34 0.00	48.62 0.29 0.00	44.19 0.26 0.00	46.96 0.33 0.00	46.50 0.28 0.00	48.70 0.19 0.00	50.65 0.20 0.00	54.86 0.22 0.00	52.79 0.16 0.00	45.53 0.23 0.00	42.16 0.25 0.00	39.57 0.24 0.00



TRIGEN___CC 323695	41.09 1.27 0.00	38.50 1.30 0.00	36.75 1.14 0.00	36.28 1.23 0.00	37.99 1.25 0.00	35.53 1.50 0.00	38.50 1.83 0.00	43.30 2.26 -0.02	45.86 2.33 -0.42	53.70 2.40 -5.96	50.39 2.35 -0.02	53.54 2.38 -1.52	54.31 2.34 -3.17	54.60 2.42 -3.85	55.61 2.33 -9.35	53.00 2.43 -3.94	55.89 2.63 -7.04	53.17 3.01 -1.66	53.59 3.13 -0.02	59.03 3.33 -1.05	55.70 3.05 -0.02	53.41 2.36 -5.75	47.41 2.05 -3.45	41.20 1.85 -0.02
TRINITY___115KV___4 BK 55933	40.30 0.48 0.00	37.72 0.52 0.00	36.25 0.64 0.00	35.75 0.70 0.00	37.66 0.92 0.00	34.99 0.95 0.00	37.40 0.73 0.00	41.72 0.70 0.00	43.84 0.73 0.00	46.01 0.68 0.00	48.64 0.62 0.00	50.39 0.74 0.00	49.57 0.78 0.00	49.16 0.82 0.00	44.72 0.79 0.00	47.43 0.79 0.00	47.14 0.92 0.00	49.63 1.12 0.00	51.61 1.16 0.00	55.85 1.20 0.00	53.63 1.00 0.00	45.98 0.68 0.00	42.33 0.42 0.00	39.73 0.39 0.00
UNION___PROCESSING_DRP 323587	39.50 -0.32 0.00	36.79 -0.41 0.00	34.90 -0.71 0.00	34.28 -0.77 0.00	35.86 -0.88 0.00	33.39 -0.65 0.00	36.26 -0.40 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	45.02 -0.32 0.00	47.78 -0.24 0.00	49.29 -0.35 0.00	48.45 -0.34 0.00	48.00 -0.34 0.00	43.62 -0.31 0.00	46.36 -0.28 0.00	45.57 -0.65 0.00	47.30 -1.21 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.63 -1.00 0.00	44.80 -0.50 0.00	41.99 0.08 0.00	39.38 0.04 0.00
UPPER HUDSON___HYD 24058	41.53 1.71 0.00	38.79 1.60 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.69 1.95 0.00	35.83 1.80 0.00	38.64 1.98 0.00	43.24 2.21 0.00	45.65 2.54 0.00	48.15 2.81 0.00	50.90 2.88 0.00	52.72 3.08 0.00	51.87 3.08 0.00	51.28 2.95 0.00	46.66 2.72 0.00	49.53 2.89 0.00	49.18 2.96 0.00	51.76 3.25 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	48.02 2.72 0.00	44.09 2.18 0.00	41.26 1.93 0.00
UPPER RAQUET___HYD 24056	38.98 -0.84 0.00	36.45 -0.74 0.00	34.86 -0.75 0.00	34.25 -0.80 0.00	35.68 -1.07 0.00	32.88 -1.16 0.00	35.34 -1.32 0.00	39.51 -1.52 0.00	41.39 -1.73 0.00	43.52 -1.81 0.00	46.19 -1.82 0.00	47.60 -2.04 0.00	46.70 -2.10 0.00	46.31 -2.03 0.00	41.91 -2.02 0.00	44.49 -2.14 0.00	44.14 -2.08 0.00	46.33 -2.18 0.00	48.23 -2.22 0.00	52.30 -2.35 0.00	50.52 -2.11 0.00	43.58 -1.72 0.00	40.27 -1.64 0.00	37.84 -1.49 0.00
VALLEY44_115KV_TB2 355964	39.58 -0.24 0.00	36.86 -0.33 0.00	34.93 -0.68 0.00	34.17 -0.88 0.00	35.71 -1.03 0.00	33.25 -0.78 0.00	36.26 -0.40 0.00	40.53 -0.49 0.00	42.42 -0.69 0.00	44.65 -0.68 0.00	47.35 -0.67 0.00	48.65 -0.99 0.00	47.82 -0.98 0.00	47.37 -0.97 0.00	43.23 -0.70 0.00	45.75 -0.89 0.00	45.02 -1.20 0.00	46.76 -1.75 0.00	48.88 -1.56 0.00	52.89 -1.75 0.00	51.52 -1.11 0.00	45.03 -0.27 0.00	42.24 0.34 0.00	39.97 0.63 0.00
VALLEY___115KV_TB 1-4 80826	39.14 -0.68 0.00	36.34 -0.86 0.00	34.47 -1.14 0.00	33.65 -1.40 0.00	35.05 -1.69 0.00	32.50 -1.53 0.00	34.87 -1.80 0.00	38.93 -2.09 0.00	40.87 -2.24 0.00	43.02 -2.31 0.00	45.62 -2.40 0.00	47.21 -2.43 0.00	46.50 -2.29 0.00	46.21 -2.13 0.00	41.95 -1.98 0.00	44.63 -2.01 0.00	44.32 -1.89 0.00	46.62 -1.89 0.00	48.18 -2.27 0.00	52.35 -2.30 0.00	50.37 -2.26 0.00	43.49 -1.81 0.00	40.23 -1.68 0.00	37.88 -1.46 0.00
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	41.53 1.71 0.00	38.80 1.60 0.00	37.18 1.57 0.00	36.70 1.65 0.00	38.51 1.76 0.00	35.56 1.53 0.00	38.39 1.72 0.00	42.95 1.93 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.52 2.50 0.00	52.32 2.68 0.00	51.43 2.63 0.00	51.04 2.71 0.00	46.39 2.46 0.00	49.20 2.57 0.00	48.76 2.54 0.00	51.23 2.72 0.00	53.27 2.83 0.00	57.76 3.11 0.00	55.42 2.79 0.00	47.75 2.45 0.00	44.05 2.14 0.00	41.26 1.93 0.00
VISCHER___FERRY HYD 24020	40.82 1.00 0.00	38.13 0.93 0.00	36.64 1.03 0.00	36.17 1.12 0.00	38.14 1.40 0.00	35.39 1.36 0.00	38.13 1.47 0.00	42.58 1.56 0.00	44.84 1.73 0.00	46.96 1.63 0.00	49.70 1.68 0.00	51.48 1.84 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.64 1.71 0.00	48.45 1.82 0.00	48.16 1.94 0.00	50.64 2.13 0.00	52.67 2.22 0.00	56.99 2.35 0.00	54.74 2.11 0.00	46.93 1.63 0.00	43.16 1.26 0.00	40.48 1.14 0.00
V_A_10_SYNC_DSASP 323832	38.91 -0.91 0.00	36.27 -0.93 0.00	34.36 -1.25 0.00	33.68 -1.37 0.00	35.27 -1.47 0.00	33.04 -0.99 0.00	35.71 -0.95 0.00	40.24 -0.78 0.00	42.08 -1.04 0.00	44.29 -1.04 0.00	46.92 -1.10 0.00	48.30 -1.34 0.00	47.58 -1.22 0.00	47.08 -1.26 0.00	42.83 -1.10 0.00	45.47 -1.16 0.00	44.56 -1.66 0.00	46.18 -2.33 0.00	47.98 -2.47 0.00	51.75 -2.90 0.00	50.37 -2.26 0.00	43.99 -1.32 0.00	41.49 -0.42 0.00	38.98 -0.35 0.00
V_CMM_10_SYNC_DSASP 323787	39.94 0.12 0.00	37.31 0.11 0.00	35.72 0.11 0.00	35.08 0.04 0.00	36.67 -0.07 0.00	33.83 -0.20 0.00	36.41 -0.25 0.00	40.69 -0.33 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.68 -0.33 0.00	49.14 -0.50 0.00	48.21 -0.58 0.00	47.80 -0.53 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.77 -0.88 0.00	52.00 -0.63 0.00	44.80 -0.50 0.00	41.49 -0.42 0.00	39.02 -0.32 0.00
V_CMP_10_SYNC_DSASP 323788	40.93 1.11 0.00	38.20 1.00 0.00	36.36 0.75 0.00	35.61 0.56 0.00	37.15 0.40 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.07 -0.04 0.00	45.33 0.00 0.00	48.26 0.24 0.00	49.49 -0.15 0.00	48.21 -0.58 0.00	47.56 -0.78 0.00	42.96 -0.97 0.00	45.57 -1.07 0.00	45.16 -1.06 0.00	47.40 -1.11 0.00	49.29 -1.16 0.00	53.33 -1.31 0.00	51.68 -0.95 0.00	44.71 -0.59 0.00	41.41 -0.50 0.00	38.79 -0.55 0.00
V_D_10_SYNC_DSASP 323841	40.02 0.20 0.00	37.38 0.19 0.00	35.79 0.18 0.00	35.16 0.11 0.00	36.71 -0.04 0.00	33.86 -0.17 0.00	36.44 -0.22 0.00	40.74 -0.29 0.00	42.72 -0.39 0.00	44.93 -0.41 0.00	47.68 -0.33 0.00	49.14 -0.50 0.00	48.21 -0.58 0.00	47.85 -0.48 0.00	43.32 -0.62 0.00	45.98 -0.65 0.00	45.53 -0.69 0.00	47.78 -0.73 0.00	49.64 -0.81 0.00	53.83 -0.82 0.00	52.05 -0.58 0.00	44.85 -0.45 0.00	41.53 -0.38 0.00	39.06 -0.27 0.00
V_E_10_SYNC_DSASP 323830	42.96 3.15 0.00	40.10 2.90 0.00	38.17 2.57 0.00	37.43 2.38 0.00	39.10 2.35 0.00	36.07 2.04 0.00	38.90 2.24 0.00	43.44 2.42 0.00	45.61 2.50 0.00	47.83 2.49 0.00	50.61 2.59 0.00	52.27 2.63 0.00	51.33 2.54 0.00	50.99 2.66 0.00	46.30 2.37 0.00	49.34 2.70 0.00	48.76 2.54 0.00	51.27 2.76 0.00	53.53 3.08 0.00	58.03 3.39 0.00	55.68 3.05 0.00	48.38 3.08 0.00	44.67 2.77 0.00	41.97 2.64 0.00
V_F_30_NSYNC___DSASP 323816	41.33 1.51 0.00	38.64 1.45 0.00	37.10 1.50 0.00	36.59 1.54 0.00	38.54 1.80 0.00	35.70 1.67 0.00	38.46 1.80 0.00	43.03 2.01 0.00	45.35 2.24 0.00	47.74 2.40 0.00	50.47 2.45 0.00	52.27 2.63 0.00	51.38 2.58 0.00	50.89 2.56 0.00	46.26 2.33 0.00	49.15 2.52 0.00	48.81 2.59 0.00	51.32 2.81 0.00	53.37 2.92 0.00	57.87 3.22 0.00	55.58 2.95 0.00	47.65 2.35 0.00	43.80 1.89 0.00	41.03 1.69 0.00



V_F_30_SYNC_DSASP 323786	40.42 0.60 0.00	37.79 0.60 0.00	36.32 0.71 0.00	35.86 0.81 0.00	37.77 1.03 0.00	35.05 1.02 0.00	37.47 0.81 0.00	41.80 0.78 0.00	43.93 0.82 0.00	46.15 0.82 0.00	48.79 0.77 0.00	50.58 0.94 0.00	49.77 0.98 0.00	49.30 0.97 0.00	44.85 0.92 0.00	47.62 0.98 0.00	47.33 1.11 0.00	49.77 1.26 0.00	51.76 1.31 0.00	56.01 1.37 0.00	53.79 1.16 0.00	46.12 0.82 0.00	42.45 0.54 0.00	39.85 0.51 0.00
V_XM_10_SYNC_DSASP 323789	40.93 1.11 0.00	38.20 1.00 0.00	36.36 0.75 0.00	35.61 0.56 0.00	37.15 0.40 0.00	34.30 0.27 0.00	36.88 0.22 0.00	41.19 0.16 0.00	43.07 -0.04 0.00	45.33 0.00 0.00	48.26 0.24 0.00	49.49 -0.15 0.00	48.21 -0.58 0.00	47.56 -0.78 0.00	42.96 -0.97 0.00	45.57 -1.07 0.00	45.16 -1.06 0.00	47.40 -1.11 0.00	49.29 -1.16 0.00	53.33 -1.31 0.00	51.68 -0.95 0.00	44.71 -0.59 0.00	41.41 -0.50 0.00	38.79 -0.55 0.00
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	40.82 1.00 0.00	38.20 1.00 0.00	36.61 1.00 0.00	36.14 1.09 0.00	37.96 1.21 0.00	35.46 1.43 0.00	38.20 1.54 0.00	42.79 1.76 0.00	45.09 1.98 0.00	47.47 2.13 0.00	50.18 2.16 0.00	51.92 2.28 0.00	51.09 2.29 0.00	50.61 2.27 0.00	46.13 2.20 0.00	48.92 2.29 0.00	48.44 2.22 0.00	51.03 2.52 0.00	53.02 2.57 0.00	57.54 2.90 0.00	55.21 2.58 0.00	47.20 1.90 0.00	43.50 1.59 0.00	40.71 1.38 0.00
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	41.01 1.19 0.00	38.39 1.19 0.00	36.78 1.18 0.00	36.28 1.23 0.00	38.14 1.40 0.00	35.56 1.53 0.00	38.35 1.69 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.23 2.44 0.00	50.85 2.51 0.00	46.30 2.37 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.47 2.96 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.91 1.57 0.00
W50THST__13_KV_LOAD 356117	41.17 1.35 0.00	38.53 1.34 0.00	36.93 1.32 0.00	36.42 1.37 0.00	38.29 1.54 0.00	35.70 1.67 0.00	38.50 1.83 0.00	43.20 2.17 0.00	45.48 2.37 0.00	47.87 2.54 0.00	50.52 2.50 0.00	52.37 2.73 0.00	51.53 2.73 0.00	51.09 2.76 0.00	46.57 2.64 0.00	49.34 2.70 0.00	49.13 2.91 0.00	51.76 3.25 0.00	53.73 3.28 0.00	58.30 3.66 0.00	55.95 3.32 0.00	47.70 2.40 0.00	43.96 2.05 0.00	41.11 1.77 0.00
WADING RIVER_IC_1 23522	40.30 0.48 0.00	37.79 0.59 0.00	35.97 0.36 0.00	35.54 0.49 0.00	37.41 0.66 0.00	34.82 0.78 0.00	38.09 1.43 0.00	43.00 1.97 -0.01	45.16 1.81 -0.24	50.47 1.77 -3.37	49.52 1.49 -0.01	52.09 1.59 -0.86	52.15 1.56 -1.79	52.10 1.59 -2.18	50.89 1.67 -5.29	50.54 1.68 -2.23	52.14 1.94 -3.98	51.87 2.42 -0.94	52.78 2.32 -0.01	57.86 2.62 -0.59	54.95 2.31 -0.01	50.32 1.76 -3.25	45.32 1.47 -1.95	40.60 1.26 -0.01
WADING RIVER_IC_2 23547	40.30 0.48 0.00	37.79 0.59 0.00	35.97 0.36 0.00	35.54 0.49 0.00	37.41 0.66 0.00	34.82 0.78 0.00	38.09 1.43 0.00	43.00 1.97 -0.01	45.16 1.81 -0.24	50.47 1.77 -3.37	49.52 1.49 -0.01	52.09 1.59 -0.86	52.15 1.56 -1.79	52.10 1.59 -2.18	50.89 1.67 -5.29	50.54 1.68 -2.23	52.14 1.94 -3.98	51.87 2.42 -0.94	52.78 2.32 -0.01	57.86 2.62 -0.59	54.95 2.31 -0.01	50.32 1.76 -3.25	45.32 1.47 -1.95	40.60 1.26 -0.01
WADING RIVER_IC_3 23601	40.30 0.48 0.00	37.79 0.59 0.00	35.97 0.36 0.00	35.54 0.49 0.00	37.41 0.66 0.00	34.82 0.78 0.00	38.09 1.43 0.00	43.00 1.97 -0.01	45.16 1.81 -0.24	50.47 1.77 -3.37	49.52 1.49 -0.01	52.09 1.59 -0.86	52.15 1.56 -1.79	52.10 1.59 -2.18	50.89 1.67 -5.29	50.54 1.68 -2.23	52.14 1.94 -3.98	51.87 2.42 -0.94	52.78 2.32 -0.01	57.86 2.62 -0.59	54.95 2.31 -0.01	50.32 1.76 -3.25	45.32 1.47 -1.95	40.60 1.26 -0.01
WALDENNY_12_KV_BK2 80841	39.58 -0.24 0.00	36.86 -0.33 0.00	34.86 -0.75 0.00	34.10 -0.95 0.00	35.64 -1.10 0.00	33.25 -0.78 0.00	36.30 -0.37 0.00	40.70 -0.33 0.00	42.59 -0.52 0.00	44.88 -0.45 0.00	47.54 -0.48 0.00	48.95 -0.69 0.00	48.16 -0.63 0.00	47.75 -0.58 0.00	43.49 -0.44 0.00	46.08 -0.56 0.00	45.11 -1.11 0.00	46.52 -1.99 0.00	48.43 -2.02 0.00	52.24 -2.40 0.00	51.00 -1.63 0.00	44.80 -0.50 0.00	42.33 0.42 0.00	39.93 0.59 0.00
WALDEN__HYDRO 24148	40.70 0.88 0.00	38.09 0.89 0.00	36.54 0.93 0.00	36.03 0.98 0.00	37.88 1.14 0.00	35.22 1.19 0.00	37.91 1.25 0.00	42.46 1.44 0.00	44.75 1.64 0.00	47.01 1.68 0.00	49.65 1.63 0.00	51.43 1.79 0.00	50.60 1.81 0.00	50.17 1.84 0.00	45.69 1.76 0.00	48.46 1.82 0.00	48.25 2.03 0.00	50.84 2.33 0.00	52.82 2.37 0.00	57.27 2.62 0.00	54.95 2.32 0.00	46.98 1.68 0.00	43.33 1.42 0.00	40.60 1.26 0.00
WARRENSBURG____ 23737	41.53 1.71 0.00	38.80 1.60 0.00	37.28 1.67 0.00	36.77 1.72 0.00	38.69 1.95 0.00	35.87 1.84 0.00	38.61 1.94 0.00	43.28 2.26 0.00	45.65 2.54 0.00	48.15 2.81 0.00	50.90 2.88 0.00	52.72 3.08 0.00	51.87 3.07 0.00	51.28 2.95 0.00	46.65 2.72 0.00	49.53 2.89 0.00	49.18 2.96 0.00	51.81 3.30 0.00	53.83 3.38 0.00	58.41 3.77 0.00	56.05 3.42 0.00	48.02 2.72 0.00	44.09 2.18 0.00	41.26 1.93 0.00
WATERSIDE____6 8 9 23538	41.13 1.31 0.00	38.50 1.30 0.00	36.89 1.28 0.00	36.38 1.33 0.00	38.21 1.47 0.00	35.63 1.60 0.00	38.42 1.76 0.00	42.99 1.97 0.00	45.27 2.16 0.00	47.65 2.31 0.00	50.28 2.26 0.00	52.07 2.43 0.00	51.28 2.49 0.00	50.85 2.51 0.00	46.35 2.42 0.00	49.11 2.47 0.00	48.90 2.68 0.00	51.52 3.01 0.00	53.48 3.03 0.00	58.03 3.39 0.00	55.68 3.05 0.00	47.52 2.22 0.00	43.79 1.89 0.00	40.95 1.61 0.00
WATKINRD_115KV_LN8_ILLION 55919	38.86 -0.96 0.00	36.01 -1.19 0.00	34.04 -1.57 0.00	33.12 -1.93 0.00	34.43 -2.31 0.00	31.89 -2.14 0.00	34.21 -2.46 0.00	38.15 -2.87 0.00	40.05 -3.06 0.00	42.16 -3.17 0.00	44.80 -3.22 0.00	46.36 -3.28 0.00	45.67 -3.12 0.00	45.39 -2.95 0.00	41.21 -2.72 0.00	43.84 -2.80 0.00	43.58 -2.63 0.00	45.89 -2.62 0.00	47.32 -3.13 0.00	51.47 -3.17 0.00	49.58 -3.05 0.00	42.81 -2.49 0.00	39.65 -2.26 0.00	37.33 -2.01 0.00
WATSON__69_KV_BK 1 55734	41.45 1.63 0.00	38.83 1.64 0.00	37.00 1.39 0.00	36.52 1.47 0.00	38.14 1.40 0.00	35.80 1.77 0.00	38.90 2.24 0.00	43.95 2.91 -0.01	46.38 3.02 -0.25	51.90 3.08 -3.48	50.96 2.93 -0.01	53.50 2.98 -0.89	53.48 2.83 -1.85	53.48 2.90 -2.25	52.25 2.86 -5.46	51.97 3.03 -2.30	53.61 3.28 -4.11	53.31 3.83 -0.97	54.24 3.78 -0.01	59.46 4.21 -0.61	56.53 3.89 -0.01	51.79 3.13 -3.36	46.69 2.77 -2.02	41.75 2.40 -0.01
WDELAWARE__HYD 323627	40.45 0.64 0.00	37.87 0.67 0.00	36.32 0.71 0.00	35.82 0.77 0.00	37.66 0.92 0.00	34.92 0.88 0.00	37.65 0.99 0.00	42.09 1.06 0.00	44.40 1.29 0.00	46.65 1.32 0.00	49.32 1.30 0.00	51.13 1.49 0.00	50.26 1.46 0.00	49.83 1.50 0.00	45.38 1.45 0.00	48.13 1.49 0.00	47.93 1.71 0.00	50.50 1.99 0.00	52.57 2.12 0.00	56.94 2.29 0.00	54.58 1.95 0.00	46.71 1.41 0.00	43.08 1.17 0.00	40.40 1.06 0.00



WEST BABYLON___IC 23714	41.45 1.63 0.00	38.87 1.67 0.00	37.00 1.39 0.00	36.56 1.51 0.00	38.21 1.47 0.00	35.84 1.80 0.00	38.90 2.24 0.00	43.86 2.83 -0.01	46.35 2.97 -0.26	52.09 3.04 -3.72	50.96 2.93 -0.01	53.52 2.93 -0.95	53.60 2.83 -1.98	53.64 2.90 -2.40	52.62 2.86 -5.84	52.08 2.98 -2.46	53.85 3.24 -4.39	53.28 3.74 -1.04	54.24 3.78 -0.01	59.45 4.15 -0.65	56.48 3.84 -0.01	51.97 3.08 -3.59	46.79 2.72 -2.15	41.75 2.40 -0.01
WEST CANADA___HYD 24049	39.90 0.08 0.00	37.27 0.07 0.00	35.68 0.07 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.13 0.10 0.00	36.74 0.07 0.00	41.11 0.08 0.00	43.20 0.09 0.00	45.43 0.09 0.00	48.11 0.10 0.00	49.74 0.10 0.00	48.94 0.15 0.00	48.48 0.15 0.00	44.06 0.13 0.00	46.78 0.14 0.00	46.40 0.19 0.00	48.75 0.24 0.00	50.70 0.25 0.00	54.92 0.27 0.00	52.84 0.21 0.00	45.44 0.14 0.00	41.99 0.08 0.00	39.42 0.08 0.00
WESTERN_NY_WIND 24143	40.06 0.24 0.00	37.31 0.11 0.00	35.22 -0.39 0.00	34.52 -0.53 0.00	36.08 -0.66 0.00	33.66 -0.37 0.00	36.63 -0.04 0.00	41.15 0.12 0.00	43.07 -0.04 0.00	45.42 0.09 0.00	48.16 0.14 0.00	49.54 -0.10 0.00	48.70 -0.10 0.00	48.19 -0.15 0.00	43.89 -0.04 0.00	46.64 0.00 0.00	45.71 -0.51 0.00	47.25 -1.26 0.00	49.24 -1.21 0.00	53.17 -1.48 0.00	51.89 -0.74 0.00	45.26 -0.05 0.00	42.66 0.75 0.00	40.12 0.79 0.00
WESTOVER___LESR 323668	40.10 0.28 0.00	37.46 0.26 0.00	35.75 0.14 0.00	35.16 0.11 0.00	36.85 0.11 0.00	34.17 0.14 0.00	36.96 0.29 0.00	41.35 0.33 0.00	43.41 0.30 0.00	45.70 0.36 0.00	48.45 0.43 0.00	50.04 0.40 0.00	49.18 0.39 0.00	48.67 0.34 0.00	44.28 0.35 0.00	47.06 0.42 0.00	46.54 0.32 0.00	48.75 0.24 0.00	50.80 0.35 0.00	54.97 0.33 0.00	53.00 0.37 0.00	45.80 0.50 0.00	42.50 0.59 0.00	39.97 0.63 0.00
WETHRSFD_WT_PWR 323626	39.14 -0.68 0.00	36.30 -0.89 0.00	34.36 -1.25 0.00	33.58 -1.47 0.00	35.13 -1.62 0.00	32.81 -1.22 0.00	35.31 -1.36 0.00	39.47 -1.56 0.00	41.22 -1.90 0.00	43.52 -1.81 0.00	46.10 -1.92 0.00	47.51 -2.13 0.00	46.89 -1.90 0.00	46.35 -1.98 0.00	42.26 -1.67 0.00	45.19 -1.45 0.00	44.46 -1.76 0.00	46.28 -2.23 0.00	48.28 -2.17 0.00	52.19 -2.46 0.00	50.84 -1.79 0.00	44.44 -0.86 0.00	41.82 -0.08 0.00	39.50 0.16 0.00
WHAVSTOR_138KV_BK127 55557	40.66 0.84 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.85 1.10 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.25 2.03 0.00	50.84 2.33 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.05 2.42 0.00	47.02 1.72 0.00	43.33 1.42 0.00	40.56 1.22 0.00
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	40.66 0.84 0.00	38.09 0.89 0.00	36.50 0.89 0.00	36.03 0.98 0.00	37.85 1.10 0.00	35.26 1.23 0.00	37.95 1.28 0.00	42.54 1.52 0.00	44.79 1.68 0.00	47.10 1.77 0.00	49.75 1.73 0.00	51.48 1.84 0.00	50.65 1.85 0.00	50.22 1.89 0.00	45.78 1.85 0.00	48.50 1.87 0.00	48.25 2.03 0.00	50.84 2.33 0.00	52.87 2.42 0.00	57.32 2.68 0.00	55.05 2.42 0.00	47.02 1.72 0.00	43.33 1.42 0.00	40.56 1.22 0.00
WHITEHAL_115KV_TB1 80871	41.97 2.15 0.00	39.20 2.01 0.00	37.67 2.07 0.00	37.12 2.07 0.00	39.09 2.35 0.00	36.21 2.18 0.00	39.01 2.35 0.00	43.69 2.67 0.00	46.09 2.97 0.00	48.69 3.35 0.00	51.38 3.36 0.00	53.21 3.57 0.00	52.35 3.56 0.00	51.72 3.38 0.00	47.05 3.12 0.00	49.95 3.31 0.00	49.64 3.42 0.00	52.44 3.93 0.00	54.48 4.04 0.00	59.23 4.59 0.00	56.84 4.21 0.00	48.65 3.35 0.00	44.59 2.68 0.00	41.66 2.32 0.00
WHITEPLN_13_KV_LOAD 356215	41.25 1.43 0.00	38.68 1.49 0.00	37.07 1.46 0.00	36.56 1.51 0.00	38.40 1.65 0.00	35.73 1.70 0.00	38.50 1.83 0.00	43.16 2.13 0.00	45.48 2.37 0.00	47.87 2.54 0.00	50.61 2.59 0.00	52.47 2.83 0.00	51.62 2.83 0.00	51.19 2.85 0.00	46.61 2.68 0.00	49.44 2.80 0.00	49.27 3.05 0.00	51.90 3.40 0.00	53.93 3.48 0.00	58.47 3.83 0.00	56.10 3.47 0.00	47.93 2.63 0.00	44.13 2.22 0.00	41.23 1.89 0.00
WM_FLOYD_69_KV_BK2 356380	40.74 0.92 0.00	38.20 1.00 0.00	36.36 0.75 0.00	35.96 0.91 0.00	37.48 0.73 0.00	35.26 1.23 0.00	38.39 1.72 0.00	43.37 2.34 -0.01	45.64 2.28 -0.24	50.98 2.27 -3.38	50.00 1.97 -0.01	52.53 2.04 -0.86	52.49 1.90 -1.80	52.50 1.98 -2.18	51.25 2.02 -5.30	51.06 2.19 -2.23	52.66 2.45 -3.99	52.41 2.96 -0.94	53.33 2.88 -0.01	58.46 3.22 -0.59	55.59 2.95 -0.01	50.82 2.27 -3.26	45.83 1.97 -1.95	41.04 1.69 -0.01
WOODARD__115KV_TB2 355635	39.70 -0.12 0.00	37.08 -0.11 0.00	35.43 -0.18 0.00	34.84 -0.21 0.00	36.56 -0.18 0.00	33.90 -0.14 0.00	36.59 -0.07 0.00	40.98 -0.04 0.00	43.07 -0.04 0.00	45.38 0.05 0.00	48.11 0.10 0.00	49.79 0.15 0.00	48.99 0.20 0.00	48.48 0.14 0.00	44.06 0.13 0.00	46.82 0.19 0.00	46.31 0.09 0.00	48.56 0.05 0.00	50.45 0.00 0.00	54.64 0.00 0.00	52.58 -0.05 0.00	45.35 0.05 0.00	41.99 0.08 0.00	39.42 0.08 0.00
YORK___WARBASSE 23770	46.44 1.63 -4.99	38.80 1.60 0.00	37.18 1.57 0.00	36.66 1.61 0.00	38.51 1.76 0.00	35.90 1.87 0.00	38.72 2.05 0.00	43.32 2.30 0.00	53.99 2.50 -8.38	54.75 2.67 -6.74	54.06 2.64 -3.40	56.77 2.83 -4.30	56.82 2.88 -5.14	58.03 2.90 -6.79	56.74 2.77 -10.04	57.32 2.84 -7.84	57.06 3.05 -7.79	58.07 3.40 -6.16	57.98 3.43 -4.11	58.47 3.83 0.00	58.00 3.47 -1.90	54.70 2.58 -6.82	54.72 2.26 -10.55	53.93 1.97 -12.62