

Monthly Runoff Water Balance

Dewey Area



POWERTECH (USA) INC.

1984-1998 Estimated Monthly Water Balance for Evap Pond – Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1984	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1984	35.00	0.00	0	0.00	0.28	1.23	0.00	-0.95	0.00E+00
Mar	1984	35.00	0.26	0.01	0.09	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.09	1.07	9.63	3.59	3.3	52.41	-42.49	5.14E-05
May	1984	35.00	24.94	0.95	8.55	2.93	4.4	54.16	-47.08	5.14E-05
Jun	1984	35.00	5.25	0.2	1.80	1.91	5.76	52.41	-54.46	5.14E-05
Jul	1984	35.00	9.71	0.37	3.33	2.38	7.08	54.16	-55.53	5.14E-05
Aug	1984	35.00	9.45	0.36	3.24	1.68	6.95	54.16	-56.19	5.14E-05
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	52.41	-57.51	5.14E-05
Oct	1984	35.00	0.53	0.02	0.18	0.63	3.74	54.16	-57.09	5.14E-05
Nov	1984	35.00	4.46	0.17	1.53	0.57	2.02	52.41	-52.33	5.14E-05
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	52.41	-36.27	5.14E-05
May	1985	35.00	2.63	0.1	0.90	1.05	4.4	54.16	-56.61	5.14E-05
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	52.41	-56.60	5.14E-05
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	54.16	-59.23	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	54.16	-60.61	5.14E-05
Sep	1985	35.00	12.34	0.47	4.23	1.99	5.5	52.41	-51.69	5.14E-05
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	54.16	-56.86	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	52.41	-54.21	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	52.41	-41.37	5.14E-05
May	1986	35.00	8.40	0.32	2.88	1.07	4.4	54.16	-54.61	5.14E-05
Jun	1986	35.00	76.13	2.9	26.10	4.87	5.76	52.41	-27.20	5.14E-05
Jul	1986	35.00	6.83	0.26	2.34	1.63	7.08	54.16	-57.27	5.14E-05
Aug	1986	35.00	6.83	0.26	2.34	1.19	6.95	54.16	-57.58	5.14E-05
Sep	1986	35.00	36.23	1.38	12.42	3.52	5.5	52.41	-41.97	5.14E-05
Oct	1986	35.00	55.39	2.11	18.99	3.88	3.74	54.16	-35.03	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.86	2.02	52.41	-52.85	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	52.41	-51.99	5.14E-05
May	1987	35.00	26.78	1.02	9.18	2.97	4.4	54.16	-46.41	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	54.16	-54.13	5.14E-05
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	54.16	-59.26	5.14E-05
Sep	1987	35.00	2.63	0.1	0.90	0.76	5.5	52.41	-56.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	54.16	-57.39	5.14E-05
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	52.41	-51.83	5.14E-05
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	54.16	-48.99	5.14E-05
Jun	1988	35.00	42.00	1.6	14.40	2.78	5.76	52.41	-40.99	5.14E-05
Jul	1988	35.00	28.61	1.09	9.81	2.18	7.08	54.16	-49.25	5.14E-05
Aug	1988	35.00	27.83	1.06	9.54	1.87	6.95	54.16	-49.70	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-56.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	52.41	-53.82	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	52.41	-50.35	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	54.16	-56.07	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-56.25	5.14E-05
Jul	1989	35.00	26.51	1.01	9.09	2.21	7.08	54.16	-49.94	5.14E-05
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	54.16	-54.70	5.14E-05
Sep	1989	35.00	64.58	2.46	22.14	3.94	5.5	52.41	-31.83	5.14E-05
Oct	1989	35.00	2.89	0.11	0.99	1.07	3.74	54.16	-55.84	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	52.41	-54.20	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00



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Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	52.41	-49.62	5.14E-05
May	1990	35.00	56.18	2.14	19.26	4.45	4.4	54.16	-34.85	5.14E-05
Jun	1990	35.00	8.66	0.33	2.97	1.22	5.76	52.41	-53.98	5.14E-05
Jul	1990	35.00	54.60	2.08	18.72	3.84	7.08	54.16	-38.68	5.14E-05
Aug	1990	35.00	5.25	0.2	1.80	0.86	6.95	54.16	-58.45	5.14E-05
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	52.41	-43.37	5.14E-05
Oct	1990	35.00	1.84	0.07	0.63	0.89	3.74	54.16	-56.38	5.14E-05
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	52.41	-50.97	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	56.44	2.15	19.35	4.91	4.4	54.16	-34.30	5.14E-05
Jun	1991	35.00	39.11	1.49	13.41	3.16	5.76	52.41	-41.60	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.36	7.08	54.16	-60.79	5.14E-05
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	54.16	-54.82	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.62	5.14E-05
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	54.16	-55.33	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	52.41	-53.83	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.71	5.14E-05
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	54.16	-45.27	5.14E-05
Jun	1992	35.00	13.39	0.51	4.59	1.88	5.76	52.41	-51.70	5.14E-05
Jul	1992	35.00	45.15	1.72	15.48	3.92	7.08	54.16	-41.84	5.14E-05
Aug	1992	35.00	14.70	0.56	5.04	1.74	6.95	54.16	-54.33	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	54.16	-56.75	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	52.41	-54.23	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.78	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.91	0.53	8.35	1.71	3.3	52.41	-45.65	5.14E-05
May	1993	35.00	16.80	0.64	5.76	1.98	4.4	54.16	-50.82	5.14E-05
Jun	1993	35.00	101.85	3.88	34.92	6.14	5.76	52.41	-17.11	5.14E-05
Jul	1993	35.00	28.61	1.09	9.81	2.67	7.08	54.16	-48.76	5.14E-05
Aug	1993	35.00	20.21	0.77	6.93	1.82	6.95	54.16	-52.36	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-56.19	5.14E-05
Oct	1993	35.00	12.60	0.48	4.32	1.48	3.74	54.16	-52.10	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	52.41	-53.71	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	52.41	-50.67	5.14E-05
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	54.16	-53.13	5.14E-05
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.28	0.62	5.58	2.04	7.08	54.16	-53.62	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	54.16	-60.30	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	54.16	-51.30	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	52.41	-54.13	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.59	1.47	13.23	4.42	4.4	54.16	-40.91	5.14E-05
Jun	1995	35.00	39.64	1.51	13.59	3.09	5.76	52.41	-41.49	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	54.16	-59.72	5.14E-05
Aug	1995	35.00	1.58	0.06	0.54	0.55	6.95	54.16	-60.02	5.14E-05
Sep	1995	35.00	53.81	2.05	18.45	3.61	5.5	52.41	-35.85	5.14E-05
Oct	1995	35.00	5.51	0.21	1.89	1.43	3.74	54.16	-54.58	5.14E-05
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	52.41	-52.81	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	52.41	-42.81	5.14E-05

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May	1996	35.00	35.44	1.35	12.15	3.69	4.4	54.16	-42.72	5.14E-05
Jun	1996	35.00	17.59	0.67	6.03	1.85	5.76	52.41	-50.29	5.14E-05
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	54.16	-60.51	5.14E-05
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	54.16	-47.14	5.14E-05
Sep	1996	35.00	6.56	0.25	2.25	1.37	5.5	52.41	-54.29	5.14E-05
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	54.16	-53.59	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	52.41	-53.93	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	52.41	-47.79	5.14E-05
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	54.16	-46.36	5.14E-05
Jun	1997	35.00	34.13	1.3	11.70	3.17	5.76	52.41	-43.30	5.14E-05
Jul	1997	35.00	67.73	2.58	23.22	4.61	7.08	54.16	-33.41	5.14E-05
Aug	1997	35.00	5.51	0.21	1.89	1.05	6.95	54.16	-58.17	5.14E-05
Sep	1997	35.00	2.36	0.09	0.81	0.73	5.5	52.41	-56.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	54.16	-56.84	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	52.41	-53.28	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	19.43	0.74	7.20	2.02	1.98	0.00	7.24	0.00E+00
Apr	1998	35.00	0.00	0	7.24	0.27	3.3	52.41	-48.20	5.14E-05
May	1998	35.00	31.24	1.19	10.71	3.58	4.4	54.16	-44.27	5.14E-05
Jun	1998	35.00	51.71	1.97	17.73	3.36	5.76	52.41	-37.08	5.14E-05
Jul	1998	35.00	45.41	1.73	15.57	3.38	7.08	54.16	-42.29	5.14E-05
Aug	1998	35.00	29.40	1.12	10.08	2.36	6.95	54.16	-48.67	5.14E-05
Sep	1998	35.00	33.60	1.28	11.52	2.08	5.5	52.41	-44.31	5.14E-05
Oct	1998	35.00	44.63	1.7	15.30	4.16	3.74	54.16	-38.44	5.14E-05
Nov	1998	35.00	8.66	0.33	2.97	1.42	2.02	52.41	-50.04	5.14E-05
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
				5.22 (Avg. annual)		16.88 (Avg. annual)	43.98 (Avg. annual)		7.24 (Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.

Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Dewey test pits.

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	52.41	-36.27	5.14E-05
May	1985	35.00	2.63	0.1	0.90	1.05	4.4	54.16	-56.61	5.14E-05
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	52.41	-56.60	5.14E-05
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	54.16	-59.23	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	54.16	-60.61	5.14E-05
Sep	1985	35.00	12.34	0.47	4.23	1.99	5.5	52.41	-51.69	5.14E-05
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	54.16	-56.86	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	52.41	-54.21	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	52.41	-41.37	5.14E-05
May	1986	35.00	8.40	0.32	2.88	1.07	4.4	54.16	-54.61	5.14E-05
Jun	1986	35.00	75.86	2.89	26.01	4.87	5.76	52.41	-27.29	5.14E-05
Jul	1986	35.00	6.30	0.24	2.16	1.63	7.08	54.16	-57.45	5.14E-05
Aug	1986	35.00	6.83	0.26	2.34	1.19	6.95	54.16	-57.58	5.14E-05
Sep	1986	35.00	36.23	1.38	12.42	3.52	5.5	52.41	-41.97	5.14E-05
Oct	1986	35.00	55.39	2.11	18.99	3.88	3.74	54.16	-35.03	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.86	2.02	52.41	-52.85	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	52.41	-51.99	5.14E-05
May	1987	35.00	22.05	0.84	7.56	2.97	4.4	54.16	-48.03	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	54.16	-54.13	5.14E-05
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	54.16	-59.26	5.14E-05
Sep	1987	35.00	2.63	0.1	0.90	0.76	5.5	52.41	-56.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	54.16	-57.39	5.14E-05
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	52.41	-51.83	5.14E-05
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	54.16	-48.99	5.14E-05
Jun	1988	35.00	42.00	1.6	14.40	2.78	5.76	52.41	-40.99	5.14E-05
Jul	1988	35.00	28.61	1.09	9.81	2.18	7.08	54.16	-49.25	5.14E-05
Aug	1988	35.00	27.83	1.06	9.54	1.87	6.95	54.16	-49.70	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-56.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	52.41	-53.82	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	52.41	-50.35	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	54.16	-56.07	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-56.25	5.14E-05
Jul	1989	35.00	26.51	1.01	9.09	2.21	7.08	54.16	-49.94	5.14E-05
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	54.16	-54.70	5.14E-05
Sep	1989	35.00	64.58	2.46	22.14	3.94	5.5	52.41	-31.83	5.14E-05
Oct	1989	35.00	2.89	0.11	0.99	1.07	3.74	54.16	-55.84	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	52.41	-54.20	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	52.41	-49.62	5.14E-05
May	1990	35.00	56.18	2.14	19.26	4.45	4.4	54.16	-34.85	5.14E-05
Jun	1990	35.00	6.56	0.25	2.25	1.22	5.76	52.41	-54.70	5.14E-05
Jul	1990	35.00	54.60	2.08	18.72	3.84	7.08	54.16	-38.68	5.14E-05
Aug	1990	35.00	5.25	0.2	1.80	0.86	6.95	54.16	-58.45	5.14E-05
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	52.41	-43.37	5.14E-05
Oct	1990	35.00	1.84	0.07	0.63	0.89	3.74	54.16	-56.38	5.14E-05
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	52.41	-50.97	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00



POWERTECH (USA) INC.

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	56.44	2.15	19.35	4.91	4.4	54.16	-34.30	5.14E-05
Jun	1991	35.00	39.11	1.49	13.41	3.16	5.76	52.41	-41.60	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.36	7.08	54.16	-60.79	5.14E-05
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	54.16	-54.82	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.62	5.14E-05
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	54.16	-55.33	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	52.41	-53.83	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.71	5.14E-05
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	54.16	-45.27	5.14E-05
Jun	1992	35.00	13.39	0.51	4.59	1.88	5.76	52.41	-51.70	5.14E-05
Jul	1992	35.00	45.15	1.72	15.48	3.92	7.08	54.16	-41.84	5.14E-05
Aug	1992	35.00	14.70	0.56	5.04	1.74	6.95	54.16	-54.33	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	54.16	-56.75	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	52.41	-54.23	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.78	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.91	0.53	8.35	1.71	3.3	52.41	-45.65	5.14E-05
May	1993	35.00	16.80	0.64	5.76	1.98	4.4	54.16	-50.82	5.14E-05
Jun	1993	35.00	101.85	3.88	34.92	6.14	5.76	52.41	-17.11	5.14E-05
Jul	1993	35.00	28.61	1.09	9.81	2.67	7.08	54.16	-48.76	5.14E-05
Aug	1993	35.00	20.21	0.77	6.93	1.82	6.95	54.16	-52.36	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-56.19	5.14E-05
Oct	1993	35.00	12.60	0.48	4.32	1.48	3.74	54.16	-52.10	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	52.41	-53.71	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	52.41	-50.67	5.14E-05
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	54.16	-53.13	5.14E-05
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.28	0.62	5.58	2.04	7.08	54.16	-53.62	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	54.16	-60.30	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	54.16	-51.30	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	52.41	-54.13	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.59	1.47	13.23	4.42	4.4	54.16	-40.91	5.14E-05
Jun	1995	35.00	39.64	1.51	13.59	3.09	5.76	52.41	-41.49	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	54.16	-59.72	5.14E-05
Aug	1995	35.00	1.58	0.06	0.54	0.55	6.95	54.16	-60.02	5.14E-05
Sep	1995	35.00	53.81	2.05	18.45	3.61	5.5	52.41	-35.85	5.14E-05
Oct	1995	35.00	5.51	0.21	1.89	1.43	3.74	54.16	-54.58	5.14E-05
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	52.41	-52.81	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	52.41	-42.81	5.14E-05
May	1996	35.00	35.44	1.35	12.15	3.69	4.4	54.16	-42.72	5.14E-05
Jun	1996	35.00	17.59	0.67	6.03	1.85	5.76	52.41	-50.29	5.14E-05
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	54.16	-60.51	5.14E-05
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	54.16	-47.14	5.14E-05
Sep	1996	35.00	6.56	0.25	2.25	1.37	5.5	52.41	-54.29	5.14E-05
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	54.16	-53.59	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	52.41	-53.93	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	52.41	-47.79	5.14E-05

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	54.16	-46.36	5.14E-05
Jun	1997	35.00	34.13	1.3	11.70	3.17	5.76	52.41	-43.30	5.14E-05
Jul	1997	35.00	67.73	2.58	23.22	4.61	7.08	54.16	-33.41	5.14E-05
Aug	1997	35.00	5.51	0.21	1.89	1.05	6.95	54.16	-58.17	5.14E-05
Sep	1997	35.00	2.36	0.09	0.81	0.73	5.5	52.41	-56.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	54.16	-56.84	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	52.41	-53.28	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	19.43	0.74	7.20	2.02	1.98	0.00	7.24	0.00E+00
Apr	1998	35.00	0.00	0	7.24	0.27	3.3	52.41	-48.20	5.14E-05
May	1998	35.00	31.24	1.19	10.71	3.58	4.4	54.16	-44.27	5.14E-05
Jun	1998	35.00	51.71	1.97	17.73	3.36	5.76	52.41	-37.08	5.14E-05
Jul	1998	35.00	45.41	1.73	15.57	3.38	7.08	54.16	-42.29	5.14E-05
Aug	1998	35.00	29.40	1.12	10.08	2.36	6.95	54.16	-48.67	5.14E-05
Sep	1998	35.00	33.60	1.28	11.52	2.08	5.5	52.41	-44.31	5.14E-05
Oct	1998	35.00	44.63	1.7	15.30	4.16	3.74	54.16	-38.44	5.14E-05
Nov	1998	35.00	8.66	0.33	2.97	1.42	2.02	52.41	-50.04	5.14E-05
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	52.41	-42.95	5.14E-05
May	1999	35.00	2.36	0.09	0.81	1.17	4.4	54.16	-56.58	5.14E-05
Jun	1999	35.00	85.31	3.25	29.25	5.57	5.76	52.41	-23.35	5.14E-05
Jul	1999	35.00	4.99	0.19	1.71	0.98	7.08	54.16	-58.55	5.14E-05
Aug	1999	35.00	31.50	1.2	10.80	1.96	6.95	54.16	-48.35	5.14E-05
Sep	1999	35.00	20.48	0.78	7.02	1.79	5.5	52.41	-49.10	5.14E-05
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	54.16	-57.86	5.14E-05
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	52.41	-53.60	5.14E-05
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
				5.42 (Avg. annual)		16.98 (Avg. annual)	43.98 (Avg. annual)		7.24 (Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Dewey test pits.



POWERTECH (USA) INC.

1986-2000 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1986	35.00	0.00	0	0.00	0.07	0.92	0.00	-0.85	0.00E+00
Feb	1986	35.00	0.00	0	0.00	1.06	1.23	0.00	-0.17	0.00E+00
Mar	1986	35.00	0.00	0	0.00	0.52	1.98	0.00	-1.46	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	52.41	-41.37	5.14E-05
May	1986	35.00	8.40	0.32	2.88	1.07	4.4	54.16	-54.61	5.14E-05
Jun	1986	35.00	66.15	2.52	22.68	4.87	5.76	52.41	-30.62	5.14E-05
Jul	1986	35.00	5.25	0.2	1.80	1.63	7.08	54.16	-57.81	5.14E-05
Aug	1986	35.00	6.83	0.26	2.34	1.19	6.95	54.16	-57.58	5.14E-05
Sep	1986	35.00	32.03	1.22	10.98	3.52	5.5	52.41	-43.41	5.14E-05
Oct	1986	35.00	55.39	2.11	18.99	3.88	3.74	54.16	-35.03	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.86	2.02	52.41	-52.85	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	52.41	-51.99	5.14E-05
May	1987	35.00	22.05	0.84	7.56	2.97	4.4	54.16	-48.03	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	54.16	-54.13	5.14E-05
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	54.16	-59.26	5.14E-05
Sep	1987	35.00	2.63	0.1	0.90	0.76	5.5	52.41	-56.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	54.16	-57.39	5.14E-05
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	52.41	-51.83	5.14E-05
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	54.16	-48.99	5.14E-05
Jun	1988	35.00	42.00	1.6	14.40	2.78	5.76	52.41	-40.99	5.14E-05
Jul	1988	35.00	28.61	1.09	9.81	2.18	7.08	54.16	-49.25	5.14E-05
Aug	1988	35.00	27.83	1.06	9.54	1.87	6.95	54.16	-49.70	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-56.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	52.41	-53.82	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	52.41	-50.35	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	54.16	-56.07	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-56.25	5.14E-05
Jul	1989	35.00	26.51	1.01	9.09	2.21	7.08	54.16	-49.94	5.14E-05
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	54.16	-54.70	5.14E-05
Sep	1989	35.00	64.58	2.46	22.14	3.94	5.5	52.41	-31.83	5.14E-05
Oct	1989	35.00	2.89	0.11	0.99	1.07	3.74	54.16	-55.84	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	52.41	-54.20	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	52.41	-49.62	5.14E-05
May	1990	35.00	56.18	2.14	19.26	4.45	4.4	54.16	-34.85	5.14E-05
Jun	1990	35.00	6.56	0.25	2.25	1.22	5.76	52.41	-54.70	5.14E-05
Jul	1990	35.00	54.34	2.07	18.63	3.84	7.08	54.16	-38.77	5.14E-05
Aug	1990	35.00	5.25	0.2	1.80	0.86	6.95	54.16	-58.45	5.14E-05
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	52.41	-43.37	5.14E-05
Oct	1990	35.00	1.84	0.07	0.63	0.89	3.74	54.16	-56.38	5.14E-05
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	52.41	-50.97	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	56.44	2.15	19.35	4.91	4.4	54.16	-34.30	5.14E-05
Jun	1991	35.00	39.11	1.49	13.41	3.16	5.76	52.41	-41.60	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.36	7.08	54.16	-60.79	5.14E-05
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	54.16	-54.82	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.62	5.14E-05
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	54.16	-55.33	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	52.41	-53.83	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00



1986-2000 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.71	5.14E-05
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	54.16	-45.27	5.14E-05
Jun	1992	35.00	13.39	0.51	4.59	1.88	5.76	52.41	-51.70	5.14E-05
Jul	1992	35.00	45.15	1.72	15.48	3.92	7.08	54.16	-41.84	5.14E-05
Aug	1992	35.00	14.70	0.56	5.04	1.74	6.95	54.16	-54.33	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	54.16	-56.75	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	52.41	-54.23	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.78	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.91	0.53	8.35	1.71	3.3	52.41	-45.65	5.14E-05
May	1993	35.00	16.80	0.64	5.76	1.98	4.4	54.16	-50.82	5.14E-05
Jun	1993	35.00	101.85	3.88	34.92	6.14	5.76	52.41	-17.11	5.14E-05
Jul	1993	35.00	28.61	1.09	9.81	2.67	7.08	54.16	-48.76	5.14E-05
Aug	1993	35.00	20.21	0.77	6.93	1.82	6.95	54.16	-52.36	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-56.19	5.14E-05
Oct	1993	35.00	12.60	0.48	4.32	1.48	3.74	54.16	-52.10	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	52.41	-53.71	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	52.41	-50.67	5.14E-05
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	54.16	-53.13	5.14E-05
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.28	0.62	5.58	2.04	7.08	54.16	-53.62	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	54.16	-60.30	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	54.16	-51.30	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	52.41	-54.13	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.59	1.47	13.23	4.42	4.4	54.16	-40.91	5.14E-05
Jun	1995	35.00	39.64	1.51	13.59	3.09	5.76	52.41	-41.49	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	54.16	-59.72	5.14E-05
Aug	1995	35.00	1.58	0.06	0.54	0.55	6.95	54.16	-60.02	5.14E-05
Sep	1995	35.00	53.81	2.05	18.45	3.61	5.5	52.41	-35.85	5.14E-05
Oct	1995	35.00	5.51	0.21	1.89	1.43	3.74	54.16	-54.58	5.14E-05
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	52.41	-52.81	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	52.41	-42.81	5.14E-05
May	1996	35.00	35.44	1.35	12.15	3.69	4.4	54.16	-42.72	5.14E-05
Jun	1996	35.00	17.59	0.67	6.03	1.85	5.76	52.41	-50.29	5.14E-05
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	54.16	-60.51	5.14E-05
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	54.16	-47.14	5.14E-05
Sep	1996	35.00	6.56	0.25	2.25	1.37	5.5	52.41	-54.29	5.14E-05
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	54.16	-53.59	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	52.41	-53.93	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	52.41	-47.79	5.14E-05
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	54.16	-46.36	5.14E-05
Jun	1997	35.00	34.13	1.3	11.70	3.17	5.76	52.41	-43.30	5.14E-05
Jul	1997	35.00	67.73	2.58	23.22	4.61	7.08	54.16	-33.41	5.14E-05
Aug	1997	35.00	5.51	0.21	1.89	1.05	6.95	54.16	-58.17	5.14E-05
Sep	1997	35.00	2.36	0.09	0.81	0.73	5.5	52.41	-56.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	54.16	-56.84	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	52.41	-53.28	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	19.43	0.74	7.20	2.02	1.98	0.00	7.24	0.00E+00
Apr	1998	35.00	0.00	0	7.24	0.27	3.3	52.41	-48.20	5.14E-05

1986-2000 Estimated Monthly Water Balance for Evap Pond – Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1998	35.00	31.24	1.19	10.71	3.58	4.4	54.16	-44.27	5.14E-05
Jun	1998	35.00	51.71	1.97	17.73	3.36	5.76	52.41	-37.08	5.14E-05
Jul	1998	35.00	45.41	1.73	15.57	3.38	7.08	54.16	-42.29	5.14E-05
Aug	1998	35.00	29.40	1.12	10.08	2.36	6.95	54.16	-48.67	5.14E-05
Sep	1998	35.00	33.60	1.28	11.52	2.08	5.5	52.41	-44.31	5.14E-05
Oct	1998	35.00	44.63	1.7	15.30	4.16	3.74	54.16	-38.44	5.14E-05
Nov	1998	35.00	8.66	0.33	2.97	1.42	2.02	52.41	-50.04	5.14E-05
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	52.41	-42.95	5.14E-05
May	1999	35.00	2.36	0.09	0.81	1.17	4.4	54.16	-56.58	5.14E-05
Jun	1999	35.00	85.31	3.25	29.25	5.57	5.76	52.41	-23.35	5.14E-05
Jul	1999	35.00	4.99	0.19	1.71	0.98	7.08	54.16	-58.55	5.14E-05
Aug	1999	35.00	31.50	1.2	10.80	1.96	6.95	54.16	-48.35	5.14E-05
Sep	1999	35.00	20.48	0.78	7.02	1.79	5.5	52.41	-49.10	5.14E-05
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	54.16	-57.86	5.14E-05
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	52.41	-53.60	5.14E-05
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.16	0.92	0.00	-0.76	0.00E+00
Feb	2000	35.00	0.26	0.01	0.09	1.09	1.23	0.00	-0.05	0.00E+00
Mar	2000	35.00	8.14	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	69.56	2.65	26.14	4.74	3.3	52.41	-24.83	5.14E-05
May	2000	35.00	0.53	0.02	0.18	0.78	4.4	54.16	-57.60	5.14E-05
Jun	2000	35.00	0.00	0	0.00	0.43	5.76	52.41	-57.74	5.14E-05
Jul	2000	35.00	16.54	0.63	5.67	2.24	7.08	54.16	-53.33	5.14E-05
Aug	2000	35.00	1.58	0.06	0.54	0.69	6.95	54.16	-59.88	5.14E-05
Sep	2000	35.00	4.46	0.17	1.53	1.03	5.5	52.41	-55.35	5.14E-05
Oct	2000	35.00	2.89	0.11	0.99	1.08	3.74	54.16	-55.83	5.14E-05
Nov	2000	35.00	0.00	0	0.00	0.43	2.02	52.41	-54.00	5.14E-05
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
				5.48		17.06	43.98		7.24	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Dewey test pits.

1988-2002 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	1988	35.00	0.00	0	0.00	0.24	0.92	0.00	-0.68	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	54.16	-48.99	5.14E-05
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	52.41	-41.53	5.14E-05
Jul	1988	35.00	22.05	0.84	7.56	2.18	7.08	54.16	-51.50	5.14E-05
Aug	1988	35.00	27.83	1.06	9.54	1.87	6.95	54.16	-49.70	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-56.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	52.41	-53.82	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	52.41	-50.35	5.14E-05
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	54.16	-56.07	5.14E-05
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	52.41	-56.25	5.14E-05
Jul	1989	35.00	20.21	0.77	6.93	2.21	7.08	54.16	-52.10	5.14E-05
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	54.16	-54.70	5.14E-05
Sep	1989	35.00	64.58	2.46	22.14	3.94	5.5	52.41	-31.83	5.14E-05
Oct	1989	35.00	2.89	0.11	0.99	1.07	3.74	54.16	-55.84	5.14E-05
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	52.41	-54.20	5.14E-05
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	52.41	-49.62	5.14E-05
May	1990	35.00	53.03	2.02	18.18	4.45	4.4	54.16	-35.93	5.14E-05
Jun	1990	35.00	6.56	0.25	2.25	1.22	5.76	52.41	-54.70	5.14E-05
Jul	1990	35.00	54.34	2.07	18.63	3.84	7.08	54.16	-38.77	5.14E-05
Aug	1990	35.00	4.99	0.19	1.71	0.86	6.95	54.16	-58.54	5.14E-05
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	52.41	-43.37	5.14E-05
Oct	1990	35.00	1.84	0.07	0.63	0.89	3.74	54.16	-56.38	5.14E-05
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	52.41	-50.97	5.14E-05
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	52.41	-52.60	5.14E-05
May	1991	35.00	56.44	2.15	19.35	4.91	4.4	54.16	-34.30	5.14E-05
Jun	1991	35.00	39.11	1.49	13.41	3.16	5.76	52.41	-41.60	5.14E-05
Jul	1991	35.00	0.26	0.01	0.09	0.36	7.08	54.16	-60.79	5.14E-05
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	54.16	-54.82	5.14E-05
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	52.41	-57.62	5.14E-05
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	54.16	-55.33	5.14E-05
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	52.41	-53.83	5.14E-05
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	52.41	-53.71	5.14E-05
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	54.16	-45.27	5.14E-05
Jun	1992	35.00	13.39	0.51	4.59	1.88	5.76	52.41	-51.70	5.14E-05
Jul	1992	35.00	45.15	1.72	15.48	3.92	7.08	54.16	-41.84	5.14E-05
Aug	1992	35.00	9.19	0.35	3.15	1.74	6.95	54.16	-56.22	5.14E-05
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	52.41	-57.83	5.14E-05
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	54.16	-56.75	5.14E-05
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	52.41	-54.23	5.14E-05
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	5.78	0.22	1.98	3.58	1.98	0.00	3.58	0.00E+00
Apr	1993	35.00	13.91	0.53	8.35	1.71	3.3	52.41	-45.65	5.14E-05
May	1993	35.00	16.80	0.64	5.76	1.98	4.4	54.16	-50.82	5.14E-05
Jun	1993	35.00	101.85	3.88	34.92	6.14	5.76	52.41	-17.11	5.14E-05
Jul	1993	35.00	28.61	1.09	9.81	2.67	7.08	54.16	-48.76	5.14E-05
Aug	1993	35.00	20.21	0.77	6.93	1.82	6.95	54.16	-52.36	5.14E-05
Sep	1993	35.00	2.10	0.08	0.72	1	5.5	52.41	-56.19	5.14E-05
Oct	1993	35.00	12.60	0.48	4.32	1.48	3.74	54.16	-52.10	5.14E-05
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	52.41	-53.71	5.14E-05
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00

1988-2002 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	52.41	-50.67	5.14E-05
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	54.16	-53.13	5.14E-05
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	52.41	-54.79	5.14E-05
Jul	1994	35.00	16.28	0.62	5.58	2.04	7.08	54.16	-53.62	5.14E-05
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	54.16	-60.30	5.14E-05
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	52.41	-57.59	5.14E-05
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	54.16	-51.30	5.14E-05
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	52.41	-54.13	5.14E-05
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	52.41	-53.90	5.14E-05
May	1995	35.00	38.59	1.47	13.23	4.42	4.4	54.16	-40.91	5.14E-05
Jun	1995	35.00	39.64	1.51	13.59	3.09	5.76	52.41	-41.49	5.14E-05
Jul	1995	35.00	1.31	0.05	0.45	1.07	7.08	54.16	-59.72	5.14E-05
Aug	1995	35.00	1.58	0.06	0.54	0.55	6.95	54.16	-60.02	5.14E-05
Sep	1995	35.00	53.81	2.05	18.45	3.61	5.5	52.41	-35.85	5.14E-05
Oct	1995	35.00	5.51	0.21	1.89	1.43	3.74	54.16	-54.58	5.14E-05
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	52.41	-52.81	5.14E-05
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	-52.41	-42.81	5.14E-05
May	1996	35.00	35.44	1.35	12.15	3.69	4.4	54.16	-42.72	5.14E-05
Jun	1996	35.00	17.59	0.67	6.03	1.85	5.76	52.41	-50.29	5.14E-05
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	54.16	-60.51	5.14E-05
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	54.16	-47.14	5.14E-05
Sep	1996	35.00	6.56	0.25	2.25	1.37	5.5	52.41	-54.29	5.14E-05
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	54.16	-53.59	5.14E-05
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	52.41	-53.93	5.14E-05
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	52.41	-47.79	5.14E-05
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	54.16	-46.36	5.14E-05
Jun	1997	35.00	34.13	1.3	11.70	3.17	5.76	52.41	-43.30	5.14E-05
Jul	1997	35.00	67.73	2.58	23.22	4.61	7.08	54.16	-33.41	5.14E-05
Aug	1997	35.00	5.51	0.21	1.89	1.05	6.95	54.16	-58.17	5.14E-05
Sep	1997	35.00	2.36	0.09	0.81	0.73	5.5	52.41	-56.37	5.14E-05
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	54.16	-56.84	5.14E-05
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	52.41	-53.28	5.14E-05
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	19.43	0.74	7.20	2.02	1.98	0.00	7.24	0.00E+00
Apr	1998	35.00	0.00	0	7.24	0.27	3.3	52.41	-48.20	5.14E-05
May	1998	35.00	31.24	1.19	10.71	3.58	4.4	54.16	-44.27	5.14E-05
Jun	1998	35.00	51.71	1.97	17.73	3.36	5.76	52.41	-37.08	5.14E-05
Jul	1998	35.00	45.41	1.73	15.57	3.38	7.08	54.16	-42.29	5.14E-05
Aug	1998	35.00	29.40	1.12	10.08	2.36	6.95	54.16	-48.67	5.14E-05
Sep	1998	35.00	33.60	1.28	11.52	2.08	5.5	52.41	-44.31	5.14E-05
Oct	1998	35.00	44.63	1.7	15.30	4.16	3.74	54.16	-38.44	5.14E-05
Nov	1998	35.00	8.66	0.33	2.97	1.42	2.02	52.41	-50.04	5.14E-05
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	52.41	-42.95	5.14E-05
May	1999	35.00	2.36	0.09	0.81	1.17	4.4	54.16	-56.58	5.14E-05
Jun	1999	35.00	85.31	3.25	29.25	5.57	5.76	52.41	-23.35	5.14E-05
Jul	1999	35.00	4.99	0.19	1.71	0.98	7.08	54.16	-58.55	5.14E-05
Aug	1999	35.00	31.50	1.2	10.80	1.96	6.95	54.16	-48.35	5.14E-05
Sep	1999	35.00	20.48	0.78	7.02	1.79	5.5	52.41	-49.10	5.14E-05
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	54.16	-57.86	5.14E-05
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	52.41	-53.60	5.14E-05
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.16	0.92	0.00	-0.76	0.00E+00
Feb	2000	35.00	0.26	0.01	0.09	1.09	1.23	0.00	-0.05	0.00E+00
Mar	2000	35.00	8.14	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	69.56	2.65	26.14	4.74	3.3	52.41	-24.83	5.14E-05

1988-2002 Estimated Monthly Water Balance for Evap Pond – Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	2000	35.00	0.53	0.02	0.18	0.78	4.4	54.16	-57.60	5.14E-05
Jun	2000	35.00	0.00	0	0.00	0.43	5.76	52.41	-57.74	5.14E-05
Jul	2000	35.00	16.54	0.63	5.67	2.24	7.08	54.16	-53.33	5.14E-05
Aug	2000	35.00	1.58	0.06	0.54	0.69	6.95	54.16	-59.88	5.14E-05
Sep	2000	35.00	4.46	0.17	1.53	1.03	5.5	52.41	-55.35	5.14E-05
Oct	2000	35.00	2.89	0.11	0.99	1.08	3.74	54.16	-55.83	5.14E-05
Nov	2000	35.00	0.00	0	0.00	0.43	2.02	52.41	-54.00	5.14E-05
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
Jan	2001	35.00	0.00	0	0.00	0.06	0.92	0.00	-0.86	0.00E+00
Feb	2001	35.00	0.00	0	0.00	0.58	1.23	0.00	-0.65	0.00E+00
Mar	2001	35.00	0.00	0	0.00	0.95	1.98	0.00	-1.03	0.00E+00
Apr	2001	35.00	19.69	0.75	6.75	2.46	3.3	52.41	-46.50	5.14E-05
May	2001	35.00	10.76	0.41	3.69	1.67	4.4	54.16	-53.20	5.14E-05
Jun	2001	35.00	38.06	1.45	13.05	3.22	5.76	52.41	-41.90	5.14E-05
Jul	2001	35.00	90.56	3.45	31.05	4.96	7.08	54.16	-25.23	5.14E-05
Aug	2001	35.00	6.83	0.26	2.34	1.26	6.95	54.16	-57.51	5.14E-05
Sep	2001	35.00	0.00	0	0.00	0.33	5.5	52.41	-57.58	5.14E-05
Oct	2001	35.00	6.30	0.24	2.16	1.18	3.74	54.16	-54.56	5.14E-05
Nov	2001	35.00	5.78	0.22	1.98	1.3	2.02	52.41	-51.15	5.14E-05
Dec	2001	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.99	0.19	1.71	1.69	3.3	52.41	-52.31	5.14E-05
May	2002	35.00	6.04	0.23	2.07	1.68	4.4	54.16	-54.81	5.14E-05
Jun	2002	35.00	6.04	0.23	2.07	1.23	5.76	52.41	-54.87	5.14E-05
Jul	2002	35.00	1.58	0.06	0.54	0.74	7.08	54.16	-59.96	5.14E-05
Aug	2002	35.00	31.24	1.19	10.71	2.38	6.95	54.16	-48.02	5.14E-05
Sep	2002	35.00	27.83	1.06	9.54	2.47	5.5	52.41	-45.90	5.14E-05
Oct	2002	35.00	2.63	0.1	0.90	0.82	3.74	54.16	-56.18	5.14E-05
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.02	52.41	-54.01	5.14E-05
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
				5.40		16.82	43.98		7.24	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Dewey test pits.



POWERTECH (USA) INC.

2002-1988 Estimated Monthly Water Balance for Evap Pond – Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.99	0.19	1.71	1.69	3.3	52.41	-52.31	5.14E-05
May	2002	35.00	6.04	0.23	2.07	1.68	4.4	54.16	-54.81	5.14E-05
Jun	2002	35.00	6.04	0.23	2.07	1.23	5.76	52.41	-54.87	5.14E-05
Jul	2002	35.00	1.58	0.06	0.54	0.74	7.08	54.16	-59.96	5.14E-05
Aug	2002	35.00	30.98	1.18	10.62	2.38	6.95	54.16	-48.11	5.14E-05
Sep	2002	35.00	16.80	0.64	5.76	2.47	5.5	52.41	-49.68	5.14E-05
Oct	2002	35.00	2.63	0.1	0.90	0.82	3.74	54.16	-56.18	5.14E-05
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.02	52.41	-54.01	5.14E-05
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2003	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2003	35.00	0.00	0	0.00	0.43	1.23	0.00	-0.80	0.00E+00
Mar	2003	35.00	13.65	0.52	4.68	1.92	1.98	0.00	4.62	0.00E+00
Apr	2003	35.00	15.49	0.59	9.93	1.96	3.3	52.41	-43.82	5.14E-05
May	2003	35.00	12.34	0.47	4.23	1.95	4.4	54.16	-52.38	5.14E-05
Jun	2003	35.00	14.18	0.54	4.86	2.8	5.76	52.41	-50.51	5.14E-05
Jul	2003	35.00	0.00	0	0.00	0.05	7.08	54.16	-61.19	5.14E-05
Aug	2003	35.00	21.26	0.81	7.29	1.89	6.95	54.16	-51.93	5.14E-05
Sep	2003	35.00	10.76	0.41	3.69	1.58	5.5	52.41	-52.64	5.14E-05
Oct	2003	35.00	0.53	0.02	0.18	0.6	3.74	54.16	-57.12	5.14E-05
Nov	2003	35.00	0.26	0.01	0.09	0.44	2.02	52.41	-53.90	5.14E-05
Dec	2003	35.00	2.10	0.08	0.72	0.6	1.1	0.00	0.22	0.00E+00
Jan	2004	35.00	0.00	0	0.22	0.3	0.92	0.00	-0.40	0.00E+00
Feb	2004	35.00	0.00	0	0.00	1.3	1.23	0.00	0.07	0.00E+00
Mar	2004	35.00	0.00	0	0.07	0.06	1.98	0.00	-1.85	0.00E+00
Apr	2004	35.00	0.00	0	0.00	0.32	3.3	52.41	-55.39	5.14E-05
May	2004	35.00	1.31	0.05	0.45	0.97	4.4	54.16	-57.14	5.14E-05
Jun	2004	35.00	1.05	0.04	0.36	1.26	5.76	52.41	-56.55	5.14E-05
Jul	2004	35.00	9.45	0.36	3.24	2.21	7.08	54.16	-55.79	5.14E-05
Aug	2004	35.00	1.58	0.06	0.54	0.98	6.95	54.16	-59.59	5.14E-05
Sep	2004	35.00	23.63	0.9	8.10	2.61	5.5	52.41	-47.20	5.14E-05
Oct	2004	35.00	18.11	0.69	6.21	1.89	3.74	54.16	-49.80	5.14E-05
Nov	2004	35.00	0.00	0	0.00	0.2	2.02	52.41	-54.23	5.14E-05
Dec	2004	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2005	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2005	35.00	0.00	0	0.00	0.1	1.23	0.00	-1.13	0.00E+00
Mar	2005	35.00	13.13	0.5	4.50	1.68	1.98	0.00	4.20	0.00E+00
Apr	2005	35.00	27.56	1.05	13.65	2.73	3.3	52.41	-39.33	5.14E-05
May	2005	35.00	16.28	0.62	5.58	2.66	4.4	54.16	-50.32	5.14E-05
Jun	2005	35.00	112.88	4.3	38.70	6.24	5.76	52.41	-13.23	5.14E-05
Jul	2005	35.00	31.76	1.21	10.89	2.07	7.08	54.16	-48.28	5.14E-05
Aug	2005	35.00	22.31	0.85	7.65	1.91	6.95	54.16	-51.55	5.14E-05
Sep	2005	35.00	0.00	0	0.00	0.37	5.5	52.41	-57.54	5.14E-05
Oct	2005	35.00	13.65	0.52	4.68	1.49	3.74	54.16	-51.73	5.14E-05
Nov	2005	35.00	0.00	0	0.00	0.04	2.02	52.41	-54.39	5.14E-05
Dec	2005	35.00	0.00	0	0.00	0.4	1.1	0.00	-0.70	0.00E+00
Jan	2006	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	2006	35.00	0.00	0	0.00	0.51	1.23	0.00	-0.72	0.00E+00
Mar	2006	35.00	0.00	0	0.00	0.93	1.98	0.00	-1.05	0.00E+00
Apr	2006	35.00	6.04	0.23	2.07	1.35	3.3	52.41	-52.29	5.14E-05
May	2006	35.00	18.11	0.69	6.21	2.11	4.4	54.16	-50.24	5.14E-05
Jun	2006	35.00	6.30	0.24	2.16	1.35	5.76	52.41	-54.66	5.14E-05
Jul	2006	35.00	51.71	1.97	17.73	3.15	7.08	54.16	-40.36	5.14E-05
Aug	2006	35.00	9.45	0.36	3.24	1.34	6.95	54.16	-56.53	5.14E-05
Sep	2006	35.00	8.14	0.31	2.79	0.91	5.5	52.41	-54.21	5.14E-05
Oct	2006	35.00	1.58	0.06	0.54	0.69	3.74	54.16	-56.67	5.14E-05
Nov	2006	35.00	0.00	0	0.00	0.26	2.02	52.41	-54.17	5.14E-05
Dec	2006	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
Jan	2007	35.00	0.00	0	0.00	0.14	0.92	0.00	-0.78	0.00E+00
Feb	2007	35.00	0.00	0	0.00	0.44	1.23	0.00	-0.79	0.00E+00
Mar	2007	35.00	26.25	1	9.00	1.74	1.98	0.00	8.76	0.00E+00
Apr	2007	35.00	2.89	0.11	9.75	1.09	3.3	52.41	-44.87	5.14E-05
May	2007	35.00	16.01	0.61	5.49	1.72	4.4	54.16	-51.35	5.14E-05
Jun	2007	35.00	1.31	0.05	0.45	0.67	5.76	52.41	-57.05	5.14E-05
Jul	2007	35.00	55.65	2.12	19.08	3.5	7.08	54.16	-38.66	5.14E-05
Aug	2007	35.00	16.01	0.61	5.49	2.05	6.95	54.16	-53.57	5.14E-05
Sep	2007	35.00	1.31	0.05	0.45	0.83	5.5	52.41	-56.63	5.14E-05
Oct	2007	35.00	13.13	0.5	4.50	1.72	3.74	54.16	-51.68	5.14E-05
Nov	2007	35.00	0.00	0	0.00	0.06	2.02	52.41	-54.37	5.14E-05
Dec	2007	35.00	0.00	0	0.00	0.37	1.1	0.00	-0.73	0.00E+00
Jan	1980	35.00	0.00	0	0.00	0.59	0.92	0.00	-0.33	0.00E+00
Feb	1980	35.00	0.00	0	0.00	0.77	1.23	0.00	-0.46	0.00E+00



PowerTech (USA) Inc.

2002-1988 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
Mar	1980	35.00	0.00	0	0.00	2.82	1.98	0.00	0.84	0.00E+00
Apr	1980	35.00	21.53	0.82	8.22	1.72	3.3	52.41	-45.77	5.14E-05
May	1980	35.00	30.19	1.15	10.35	3.33	4.4	54.16	-44.88	5.14E-05
Jun	1980	35.00	28.35	1.08	9.72	1.99	5.76	52.41	-46.46	5.14E-05
Jul	1980	35.00	3.41	0.13	1.17	0.97	7.08	54.16	-59.10	5.14E-05
Aug	1980	35.00	14.96	0.57	5.13	1.85	6.95	54.16	-54.13	5.14E-05
Sep	1980	35.00	2.10	0.08	0.72	0.39	5.5	52.41	-56.80	5.14E-05
Oct	1980	35.00	5.78	0.22	1.98	1.01	3.74	54.16	-54.91	5.14E-05
Nov	1980	35.00	3.68	0.14	1.26	0.62	2.02	52.41	-52.55	5.14E-05
Dec	1980	35.00	0.00	0	0.00	0.68	1.1	0.00	-0.42	0.00E+00
Jan	1981	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1981	35.00	0.00	0	0.00	0.27	1.23	0.00	-0.96	0.00E+00
Mar	1981	35.00	5.78	0.22	1.98	0.66	1.98	0.00	0.66	0.00E+00
Apr	1981	35.00	1.31	0.05	1.11	0.74	3.3	52.41	-53.86	5.14E-05
May	1981	35.00	27.30	1.04	9.36	3.22	4.4	54.16	-45.98	5.14E-05
Jun	1981	35.00	22.31	0.85	7.65	1.73	5.76	52.41	-48.79	5.14E-05
Jul	1981	35.00	23.36	0.89	8.01	2.54	7.08	54.16	-50.69	5.14E-05
Aug	1981	35.00	6.56	0.25	2.25	1	6.95	54.16	-57.86	5.14E-05
Sep	1981	35.00	0.00	0	0.00	0.16	5.5	52.41	-57.75	5.14E-05
Oct	1981	35.00	34.65	1.32	11.88	2.92	3.74	54.16	-43.10	5.14E-05
Nov	1981	35.00	0.00	0	0.00	0.04	2.02	52.41	-54.39	5.14E-05
Dec	1982	35.00	0.00	0	0.00	0.1	1.1	0.00	-1.00	0.00E+00
Jan	1982	35.00	0.00	0	0.00	0.18	0.92	0.00	-0.74	0.00E+00
Feb	1982	35.00	0.00	0	0.00	0.05	1.23	0.00	-1.18	0.00E+00
Mar	1982	35.00	0.00	0	0.00	1.34	1.98	0.00	-0.64	0.00E+00
Apr	1982	35.00	2.36	0.09	0.81	1	3.3	52.41	-53.90	5.14E-05
May	1982	35.00	43.31	1.65	14.85	4.18	4.4	54.16	-39.53	5.14E-05
Jun	1982	35.00	72.71	2.77	24.93	4.45	5.76	52.41	-28.79	5.14E-05
Jul	1982	35.00	19.69	0.75	6.75	2.2	7.08	54.16	-52.29	5.14E-05
Aug	1982	35.00	43.05	1.64	14.76	3.29	6.95	54.16	-43.06	5.14E-05
Sep	1982	35.00	17.59	0.67	6.03	2.42	5.5	52.41	-49.46	5.14E-05
Oct	1982	35.00	9.45	0.36	3.24	1.27	3.74	54.16	-53.39	5.14E-05
Nov	1982	35.00	12.60	0.48	4.32	1.3	2.02	52.41	-48.81	5.14E-05
Dec	1982	35.00	0.00	0	0.00	0.2	1.1	0.00	-0.90	0.00E+00
Jan	1983	35.00	0.00	0	0.00	0.22	0.92	0.00	-0.70	0.00E+00
Feb	1983	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1983	35.00	4.46	0.17	1.53	0.89	1.98	0.00	0.44	0.00E+00
Apr	1983	35.00	1.05	0.04	0.80	0.75	3.3	52.41	-54.16	5.14E-05
May	1983	35.00	11.29	0.43	3.87	1.95	4.4	54.16	-52.74	5.14E-05
Jun	1983	35.00	52.76	2.01	18.09	4.25	5.76	52.41	-35.83	5.14E-05
Jul	1983	35.00	6.30	0.24	2.16	1.05	7.08	54.16	-58.03	5.14E-05
Aug	1983	35.00	46.73	1.78	16.02	3.31	6.95	54.16	-41.78	5.14E-05
Sep	1983	35.00	0.26	0.01	0.09	0.28	5.5	52.41	-57.54	5.14E-05
Oct	1983	35.00	4.46	0.17	1.53	1.6	3.74	54.16	-54.77	5.14E-05
Nov	1983	35.00	12.60	0.48	4.32	1.6	2.02	52.41	-48.51	5.14E-05
Dec	1983	35.00	0.00	0	0.00	0.05	1.1	0.00	-1.05	0.00E+00
Jan	1984	35.00	0.00	0	0.00	1.37	0.92	0.00	0.45	0.00E+00
Feb	1984	35.00	0.00	0	0.45	0.28	1.23	0.00	-0.50	0.00E+00
Mar	1984	35.00	0.26	0.01	0.09	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	33.34	1.27	11.43	3.59	3.3	52.41	-40.69	5.14E-05
May	1984	35.00	29.66	1.13	10.17	2.93	4.4	54.16	-45.46	5.14E-05
Jun	1984	35.00	21.53	0.82	7.38	1.91	5.76	52.41	-48.88	5.14E-05
Jul	1984	35.00	17.06	0.65	5.85	2.38	7.08	54.16	-53.01	5.14E-05
Aug	1984	35.00	16.28	0.62	5.58	1.68	6.95	54.16	-53.85	5.14E-05
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	52.41	-57.51	5.14E-05
Oct	1984	35.00	0.53	0.02	0.18	0.63	3.74	54.16	-57.09	5.14E-05
Nov	1984	35.00	4.46	0.17	1.53	0.57	2.02	52.41	-52.33	5.14E-05
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	52.41	-36.27	5.14E-05
May	1985	35.00	2.63	0.1	0.90	1.05	4.4	54.16	-56.61	5.14E-05
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	52.41	-56.60	5.14E-05
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	54.16	-59.23	5.14E-05
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	54.16	-60.61	5.14E-05
Sep	1985	35.00	12.60	0.48	4.32	1.99	5.5	52.41	-51.60	5.14E-05
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	54.16	-56.86	5.14E-05
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	52.41	-54.21	5.14E-05
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	52.41	-41.37	5.14E-05



POWERTECH (USA) INC.

2002-1988 Estimated Monthly Water Balance for Evap Pond -- Dewey Site (XD Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Dewey Perm. (cm/sec)
May	1986	35.00	8.40	0.32	2.88	1.07	4.4	54.16	-54.61	5.14E-05
Jun	1986	35.00	76.13	2.9	26.10	4.87	5.76	52.41	-27.20	5.14E-05
Jul	1986	35.00	8.93	0.34	3.06	1.63	7.08	54.16	-56.55	5.14E-05
Aug	1986	35.00	6.83	0.26	2.34	1.19	6.95	54.16	-57.58	5.14E-05
Sep	1986	35.00	38.85	1.48	13.32	3.52	5.5	52.41	-41.07	5.14E-05
Oct	1986	35.00	55.39	2.11	18.99	3.88	3.74	54.16	-35.03	5.14E-05
Nov	1986	35.00	2.10	0.08	0.72	0.86	2.02	52.41	-52.85	5.14E-05
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	52.41	-51.99	5.14E-05
May	1987	35.00	26.78	1.02	9.18	2.97	4.4	54.16	-46.41	5.14E-05
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	52.41	-57.31	5.14E-05
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	54.16	-54.13	5.14E-05
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	54.16	-59.26	5.14E-05
Sep	1987	35.00	2.63	0.1	0.90	0.76	5.5	52.41	-56.25	5.14E-05
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	54.16	-57.39	5.14E-05
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	52.41	-51.83	5.14E-05
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	52.41	-54.54	5.14E-05
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	54.16	-48.99	5.14E-05
Jun	1988	35.00	42.00	1.6	14.40	2.78	5.76	52.41	-40.99	5.14E-05
Jul	1988	35.00	28.61	1.09	9.81	2.18	7.08	54.16	-49.25	5.14E-05
Aug	1988	35.00	27.83	1.06	9.54	1.87	6.95	54.16	-49.70	5.14E-05
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	52.41	-56.71	5.14E-05
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	54.16	-57.81	5.14E-05
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	52.41	-53.82	5.14E-05
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
				4.78		15.62	43.98		8.76	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.

Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Dewey test pits.

Monthly Runoff Water Balance

Burdock Area



1984-1998 Estimated Monthly Water Balance for Evap Pond – Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1984	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1984	35.00	0.00	0	0.00	0.28	1.23	0.00	-0.95	0.00E+00
Mar	1984	35.00	0.26	0.01	0.09	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.09	1.07	9.63	3.59	3.3	8.11	1.81	7.95E-06
May	1984	35.00	24.94	0.95	10.36	2.93	4.4	8.38	0.50	7.95E-06
Jun	1984	35.00	5.25	0.2	2.30	1.91	5.76	8.11	-9.66	7.95E-06
Jul	1984	35.00	9.71	0.37	3.33	2.38	7.08	8.38	-9.75	7.95E-06
Aug	1984	35.00	8.66	0.33	2.97	1.68	6.95	8.38	-10.68	7.95E-06
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	8.11	-13.21	7.95E-06
Oct	1984	35.00	0.53	0.02	0.18	0.63	3.74	8.38	-11.31	7.95E-06
Nov	1984	35.00	4.46	0.17	1.53	0.57	2.02	8.11	-8.03	7.95E-06
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	8.11	8.03	7.95E-06
May	1985	35.00	2.63	0.1	8.93	1.05	4.4	8.38	-2.81	7.95E-06
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	8.11	-12.30	7.95E-06
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	8.38	-13.45	7.95E-06
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	8.38	-14.83	7.95E-06
Sep	1985	35.00	12.34	0.47	4.23	1.99	5.5	8.11	-7.39	7.95E-06
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	8.38	-11.08	7.95E-06
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	8.11	-9.91	7.95E-06
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	8.11	2.93	7.95E-06
May	1986	35.00	8.40	0.32	5.81	1.07	4.4	8.38	-5.91	7.95E-06
Jun	1986	35.00	68.51	2.61	23.49	4.87	5.76	8.11	14.49	7.95E-06
Jul	1986	35.00	5.25	0.2	16.29	1.63	7.08	8.38	2.45	7.95E-06
Aug	1986	35.00	6.83	0.26	4.79	1.19	6.95	8.38	-9.35	7.95E-06
Sep	1986	35.00	18.11	0.69	6.21	3.52	5.5	8.11	-3.88	7.95E-06
Oct	1986	35.00	50.93	1.94	17.46	3.88	3.74	8.38	9.22	7.95E-06
Nov	1986	35.00	2.10	0.08	9.94	0.86	2.02	8.11	0.66	7.95E-06
Dec	1986	35.00	0.00	0	0.66	0.09	1.1	0.00	-0.35	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	8.11	-7.69	7.95E-06
May	1987	35.00	25.20	0.96	8.64	2.97	4.4	8.38	-1.17	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	8.38	-8.35	7.95E-06
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-06
Sep	1987	35.00	1.84	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.38	-11.61	7.95E-06
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	8.11	-7.53	7.95E-06
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	8.38	-3.21	7.95E-06
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	8.11	2.77	7.95E-06
Jul	1988	35.00	23.36	0.89	10.78	2.18	7.08	8.38	-2.51	7.95E-06
Aug	1988	35.00	25.46	0.97	8.73	1.87	6.95	8.38	-4.73	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	8.11	-9.52	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	8.11	-6.05	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.38	-10.29	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-11.95	7.95E-06
Jul	1989	35.00	19.16	0.73	6.57	2.21	7.08	8.38	-6.68	7.95E-06
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	8.38	-8.92	7.95E-06
Sep	1989	35.00	55.65	2.12	19.08	3.94	5.5	8.11	9.41	7.95E-06
Oct	1989	35.00	2.89	0.11	10.40	1.07	3.74	8.38	-0.66	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	8.11	-9.90	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00

1984-1998 Estimated Monthly Water Balance for Evap Pond – Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	8.11	-5.32	7.95E-06
May	1990	35.00	61.69	2.35	21.15	4.45	4.4	8.38	12.82	7.95E-06
Jun	1990	35.00	3.15	0.12	13.90	1.22	5.76	8.11	1.24	7.95E-06
Jul	1990	35.00	46.99	1.79	17.35	3.84	7.08	8.38	5.73	7.95E-06
Aug	1990	35.00	4.99	0.19	7.44	0.86	6.95	8.38	-7.03	7.95E-06
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	8.11	0.93	7.95E-06
Oct	1990	35.00	1.84	0.07	1.56	0.89	3.74	8.38	-9.68	7.95E-06
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	8.11	-6.67	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.30	7.95E-06
May	1991	35.00	63.53	2.42	21.78	4.91	4.4	8.38	13.91	7.95E-06
Jun	1991	35.00	33.34	1.27	25.34	3.16	5.76	8.11	14.62	7.95E-06
Jul	1991	35.00	0.26	0.01	14.71	0.36	7.08	8.38	-0.39	7.95E-06
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	8.38	-9.04	7.95E-06
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-06
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	8.38	-9.55	7.95E-06
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	8.11	-9.53	7.95E-06
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-9.41	7.95E-06
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	8.38	0.51	7.95E-06
Jun	1992	35.00	11.29	0.43	4.38	1.88	5.76	8.11	-7.62	7.95E-06
Jul	1992	35.00	20.21	0.77	6.93	3.92	7.08	8.38	-4.61	7.95E-06
Aug	1992	35.00	8.40	0.32	2.88	1.74	6.95	8.38	-10.71	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	8.38	-10.97	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	8.11	-9.93	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.61	0.29	2.61	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.19	0.35	7.36	1.71	3.3	8.11	-2.34	7.95E-06
May	1993	35.00	13.39	0.51	4.59	1.98	4.4	8.38	-6.21	7.95E-06
Jun	1993	35.00	99.75	3.8	34.20	6.14	5.76	8.11	26.47	7.95E-06
Jul	1993	35.00	22.58	0.86	34.21	2.67	7.08	8.38	21.41	7.95E-06
Aug	1993	35.00	12.60	0.48	25.73	1.82	6.95	8.38	12.22	7.95E-06
Sep	1993	35.00	2.10	0.08	12.94	1	5.5	8.11	0.33	7.95E-06
Oct	1993	35.00	12.60	0.48	4.65	1.48	3.74	8.38	-6.00	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	8.11	-9.41	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	8.11	-6.37	7.95E-06
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	8.38	-7.35	7.95E-06
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	8.11	-10.49	7.95E-06
Jul	1994	35.00	12.08	0.46	4.14	2.04	7.08	8.38	-9.28	7.95E-06
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	8.38	-14.52	7.95E-06
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-06
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	8.38	-5.52	7.95E-06
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	8.11	-9.83	7.95E-06
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-9.60	7.95E-06
May	1995	35.00	41.48	1.58	14.22	4.42	4.4	8.38	5.86	7.95E-06
Jun	1995	35.00	24.68	0.94	14.32	3.09	5.76	8.11	3.53	7.95E-06
Jul	1995	35.00	0.79	0.03	3.80	1.07	7.08	8.38	-10.59	7.95E-06
Aug	1995	35.00	0.26	0.01	0.09	0.55	6.95	8.38	-14.69	7.95E-06
Sep	1995	35.00	49.88	1.9	17.10	3.61	5.5	8.11	7.10	7.95E-06
Oct	1995	35.00	5.51	0.21	8.99	1.43	3.74	8.38	-1.71	7.95E-06
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	8.11	-8.51	7.95E-06
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	8.11	1.49	7.95E-06

1984-1998 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1996	35.00	41.48	1.58	15.71	3.69	4.4	8.38	6.61	7.95E-06
Jun	1996	35.00	9.19	0.35	9.76	1.85	5.76	8.11	-2.26	7.95E-06
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	8.38	-14.73	7.95E-06
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	8.38	-1.36	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	8.38	-7.81	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	8.11	-9.63	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	8.11	-3.49	7.95E-06
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	8.38	-0.58	7.95E-06
Jun	1997	35.00	22.84	0.87	7.83	3.17	5.76	8.11	-2.87	7.95E-06
Jul	1997	35.00	55.39	2.11	18.99	4.61	7.08	8.38	8.14	7.95E-06
Aug	1997	35.00	5.25	0.2	9.94	1.05	6.95	8.38	-4.35	7.95E-06
Sep	1997	35.00	1.84	0.07	0.63	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	8.38	-11.06	7.95E-06
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	8.11	-8.98	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	18.90	0.72	7.02	2.02	1.98	0.00	7.06	0.00E+00
Apr	1998	35.00	0.00	0	7.06	0.27	3.3	8.11	-4.08	7.95E-06
May	1998	35.00	30.71	1.17	10.53	3.58	4.4	8.38	1.33	7.95E-06
Jun	1998	35.00	44.63	1.7	16.63	3.36	5.76	8.11	6.11	7.95E-06
Jul	1998	35.00	38.06	1.45	19.16	3.38	7.08	8.38	7.08	7.95E-06
Aug	1998	35.00	15.23	0.58	12.30	2.36	6.95	8.38	-0.67	7.95E-06
Sep	1998	35.00	32.81	1.25	11.25	2.08	5.5	8.11	-0.28	7.95E-06
Oct	1998	35.00	41.21	1.57	14.13	4.16	3.74	8.38	6.17	7.95E-06
Nov	1998	35.00	5.25	0.2	7.97	1.42	2.02	8.11	-0.75	7.95E-06
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
				4.68		16.88	43.98		26.47	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Burdock test pits.

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	8.11	8.03	7.95E-06
May	1985	35.00	2.63	0.1	8.93	1.05	4.4	8.38	-2.81	7.95E-06
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	8.11	-12.30	7.95E-06
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	8.38	-13.45	7.95E-06
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	8.38	-14.83	7.95E-06
Sep	1985	35.00	12.34	0.47	4.23	1.99	5.5	8.11	-7.39	7.95E-06
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	8.38	-11.08	7.95E-06
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	8.11	-9.91	7.95E-06
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	8.11	2.93	7.95E-06
May	1986	35.00	8.40	0.32	5.81	1.07	4.4	8.38	-5.91	7.95E-06
Jun	1986	35.00	65.89	2.51	22.59	4.87	5.76	8.11	13.59	7.95E-06
Jul	1986	35.00	5.25	0.2	15.39	1.63	7.08	8.38	1.55	7.95E-06
Aug	1986	35.00	6.83	0.26	3.89	1.19	6.95	8.38	-10.25	7.95E-06
Sep	1986	35.00	18.11	0.69	6.21	3.52	5.5	8.11	-3.88	7.95E-06
Oct	1986	35.00	49.09	1.87	16.83	3.88	3.74	8.38	8.59	7.95E-06
Nov	1986	35.00	2.10	0.08	9.31	0.86	2.02	8.11	0.03	7.95E-06
Dec	1986	35.00	0.00	0	0.03	0.09	1.1	0.00	-0.98	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	8.11	-7.69	7.95E-06
May	1987	35.00	25.20	0.96	8.64	2.97	4.4	8.38	-1.17	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	8.38	-8.35	7.95E-06
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-06
Sep	1987	35.00	1.84	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.38	-11.61	7.95E-06
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	8.11	-7.53	7.95E-06
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	8.38	-3.21	7.95E-06
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	8.11	2.77	7.95E-06
Jul	1988	35.00	23.36	0.89	10.78	2.18	7.08	8.38	-2.51	7.95E-06
Aug	1988	35.00	25.46	0.97	8.73	1.87	6.95	8.38	-4.73	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	8.11	-9.52	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	8.11	-6.05	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.38	-10.29	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-11.95	7.95E-06
Jul	1989	35.00	19.16	0.73	6.57	2.21	7.08	8.38	-6.68	7.95E-06
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	8.38	-8.92	7.95E-06
Sep	1989	35.00	55.65	2.12	19.08	3.94	5.5	8.11	9.41	7.95E-06
Oct	1989	35.00	2.89	0.11	10.40	1.07	3.74	8.38	-0.66	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	8.11	-9.90	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	8.11	-5.32	7.95E-06
May	1990	35.00	61.69	2.35	21.15	4.45	4.4	8.38	12.82	7.95E-06
Jun	1990	35.00	3.15	0.12	13.90	1.22	5.76	8.11	1.24	7.95E-06
Jul	1990	35.00	46.99	1.79	17.35	3.84	7.08	8.38	5.73	7.95E-06
Aug	1990	35.00	4.99	0.19	7.44	0.86	6.95	8.38	-7.03	7.95E-06
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	8.11	0.93	7.95E-06
Oct	1990	35.00	1.84	0.07	1.56	0.89	3.74	8.38	-9.68	7.95E-06
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	8.11	-6.67	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00



POWERTECH (USA) INC.

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.30	7.95E-06
May	1991	35.00	63.53	2.42	21.78	4.91	4.4	8.38	13.91	7.95E-06
Jun	1991	35.00	33.34	1.27	25.34	3.16	5.76	8.11	14.62	7.95E-06
Jul	1991	35.00	0.26	0.01	14.71	0.36	7.08	8.38	-0.39	7.95E-06
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	8.38	-9.04	7.95E-06
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-06
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	8.38	-9.55	7.95E-06
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	8.11	-9.53	7.95E-06
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-9.41	7.95E-06
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	8.38	0.51	7.95E-06
Jun	1992	35.00	11.29	0.43	4.38	1.88	5.76	8.11	-7.62	7.95E-06
Jul	1992	35.00	20.21	0.77	6.93	3.92	7.08	8.38	-4.61	7.95E-06
Aug	1992	35.00	8.40	0.32	2.88	1.74	6.95	8.38	-10.71	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	8.38	-10.97	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	8.11	-9.93	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.61	0.29	2.61	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.19	0.35	7.36	1.71	3.3	8.11	-2.34	7.95E-06
May	1993	35.00	13.39	0.51	4.59	1.98	4.4	8.38	-6.21	7.95E-06
Jun	1993	35.00	99.75	3.8	34.20	6.14	5.76	8.11	26.47	7.95E-06
Jul	1993	35.00	22.58	0.86	34.21	2.67	7.08	8.38	21.41	7.95E-06
Aug	1993	35.00	12.60	0.48	25.73	1.82	6.95	8.38	12.22	7.95E-06
Sep	1993	35.00	2.10	0.08	12.94	1	5.5	8.11	0.33	7.95E-06
Oct	1993	35.00	12.60	0.48	4.65	1.48	3.74	8.38	-6.00	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	8.11	-9.41	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	8.11	-6.37	7.95E-06
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	8.38	-7.35	7.95E-06
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	8.11	-10.49	7.95E-06
Jul	1994	35.00	12.08	0.46	4.14	2.04	7.08	8.38	-9.28	7.95E-06
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	8.38	-14.52	7.95E-06
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-06
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	8.38	-5.52	7.95E-06
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	8.11	-9.83	7.95E-06
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-9.60	7.95E-06
May	1995	35.00	41.48	1.58	14.22	4.42	4.4	8.38	5.86	7.95E-06
Jun	1995	35.00	24.68	0.94	14.32	3.09	5.76	8.11	3.53	7.95E-06
Jul	1995	35.00	0.79	0.03	3.80	1.07	7.08	8.38	-10.59	7.95E-06
Aug	1995	35.00	0.26	0.01	0.09	0.55	6.95	8.38	-14.69	7.95E-06
Sep	1995	35.00	49.88	1.9	17.10	3.61	5.5	8.11	7.10	7.95E-06
Oct	1995	35.00	5.51	0.21	8.99	1.43	3.74	8.38	-1.71	7.95E-06
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	8.11	-8.51	7.95E-06
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	8.11	1.49	7.95E-06
May	1996	35.00	41.48	1.58	15.71	3.69	4.4	8.38	6.61	7.95E-06
Jun	1996	35.00	9.19	0.35	9.76	1.85	5.76	8.11	-2.26	7.95E-06
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	8.38	-14.73	7.95E-06
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	8.38	-1.36	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	8.38	-7.81	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	8.11	-9.63	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	8.11	-3.49	7.95E-06

1985-1999 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed. Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	8.38	-0.58	7.95E-06
Jun	1997	35.00	22.84	0.87	7.83	3.17	5.76	8.11	-2.87	7.95E-06
Jul	1997	35.00	55.39	2.11	18.99	4.61	7.08	8.38	8.14	7.95E-06
Aug	1997	35.00	5.25	0.2	9.94	1.05	6.95	8.38	-4.35	7.95E-06
Sep	1997	35.00	1.84	0.07	0.63	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	8.38	-11.06	7.95E-06
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	8.11	-8.98	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	18.90	0.72	7.02	2.02	1.98	0.00	7.06	0.00E+00
Apr	1998	35.00	0.00	0	7.06	0.27	3.3	8.11	-4.08	7.95E-06
May	1998	35.00	30.71	1.17	10.53	3.58	4.4	8.38	1.33	7.95E-06
Jun	1998	35.00	44.63	1.7	16.63	3.36	5.76	8.11	6.11	7.95E-06
Jul	1998	35.00	38.06	1.45	19.16	3.38	7.08	8.38	7.08	7.95E-06
Aug	1998	35.00	15.23	0.58	12.30	2.36	6.95	8.38	-0.67	7.95E-06
Sep	1998	35.00	32.81	1.25	11.25	2.08	5.5	8.11	-0.28	7.95E-06
Oct	1998	35.00	41.21	1.57	14.13	4.16	3.74	8.38	6.17	7.95E-06
Nov	1998	35.00	5.25	0.2	7.97	1.42	2.02	8.11	-0.75	7.95E-06
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	8.11	1.35	7.95E-06
May	1999	35.00	2.36	0.09	2.16	1.17	4.4	8.38	-9.46	7.95E-06
Jun	1999	35.00	71.93	2.74	24.66	5.57	5.76	8.11	16.36	7.95E-06
Jul	1999	35.00	3.15	0.12	17.44	0.98	7.08	8.38	2.95	7.95E-06
Aug	1999	35.00	31.50	1.2	13.75	1.96	6.95	8.38	0.38	7.95E-06
Sep	1999	35.00	10.24	0.39	3.89	1.79	5.5	8.11	-7.93	7.95E-06
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	8.38	-12.08	7.95E-06
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	8.11	-9.30	7.95E-06
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
				4.83 (Avg. annual)		16.98 (Avg. annual)	43.98 (Avg. annual)		26.47 (Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Burdock test pits.



POWERTECH (USA) INC.

1986-2000 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1986	35.00	0.00	0	0.00	0.07	0.92	0.00	-0.85	0.00E+00
Feb	1986	35.00	0.00	0	0.00	1.06	1.23	0.00	-0.17	0.00E+00
Mar	1986	35.00	0.00	0	0.00	0.52	1.98	0.00	-1.46	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	8.11	2.93	7.95E-06
May	1986	35.00	8.40	0.32	5.81	1.07	4.4	8.38	-5.91	7.95E-06
Jun	1986	35.00	65.89	2.51	22.59	4.87	5.76	8.11	13.59	7.95E-06
Jul	1986	35.00	5.25	0.2	15.39	1.63	7.08	8.38	1.55	7.95E-06
Aug	1986	35.00	6.83	0.26	3.89	1.19	6.95	8.38	-10.25	7.95E-06
Sep	1986	35.00	18.11	0.69	6.21	3.52	5.5	8.11	-3.88	7.95E-06
Oct	1986	35.00	42.79	1.63	14.67	3.88	3.74	8.38	6.43	7.95E-06
Nov	1986	35.00	2.10	0.08	7.15	0.86	2.02	8.11	-2.13	7.95E-06
Dec	1986	35.00	0.00	0	0.00	0.09	1.1	0.00	-1.01	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	8.11	-7.69	7.95E-06
May	1987	35.00	23.89	0.91	8.19	2.97	4.4	8.38	-1.62	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	8.38	-8.35	7.95E-06
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-06
Sep	1987	35.00	1.84	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.38	-11.61	7.95E-06
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	8.11	-7.53	7.95E-06
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	8.38	-3.21	7.95E-06
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	8.11	2.77	7.95E-06
Jul	1988	35.00	23.36	0.89	10.78	2.18	7.08	8.38	-2.51	7.95E-06
Aug	1988	35.00	25.46	0.97	8.73	1.87	6.95	8.38	-4.73	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	8.11	-9.52	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	8.11	-6.05	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.38	-10.29	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-11.95	7.95E-06
Jul	1989	35.00	19.16	0.73	6.57	2.21	7.08	8.38	-6.68	7.95E-06
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	8.38	-8.92	7.95E-06
Sep	1989	35.00	55.65	2.12	19.08	3.94	5.5	8.11	9.41	7.95E-06
Oct	1989	35.00	2.89	0.11	10.40	1.07	3.74	8.38	-0.66	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	8.11	-9.90	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	8.11	-5.32	7.95E-06
May	1990	35.00	61.69	2.35	21.15	4.45	4.4	8.38	12.82	7.95E-06
Jun	1990	35.00	3.15	0.12	13.90	1.22	5.76	8.11	1.24	7.95E-06
Jul	1990	35.00	46.99	1.79	17.35	3.84	7.08	8.38	5.73	7.95E-06
Aug	1990	35.00	4.99	0.19	7.44	0.86	6.95	8.38	-7.03	7.95E-06
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	8.11	0.93	7.95E-06
Oct	1990	35.00	1.84	0.07	1.56	0.89	3.74	8.38	-9.68	7.95E-06
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	8.11	-6.67	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.30	7.95E-06
May	1991	35.00	63.53	2.42	21.78	4.91	4.4	8.38	13.91	7.95E-06
Jun	1991	35.00	33.34	1.27	25.34	3.16	5.76	8.11	14.62	7.95E-06
Jul	1991	35.00	0.26	0.01	14.71	0.36	7.08	8.38	-0.39	7.95E-06
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	8.38	-9.04	7.95E-06
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-06
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	8.38	-9.55	7.95E-06
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	8.11	-9.53	7.95E-06
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00

1986-2000 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-9.41	7.95E-06
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	8.38	0.51	7.95E-06
Jun	1992	35.00	11.29	0.43	4.38	1.88	5.76	8.11	-7.62	7.95E-06
Jul	1992	35.00	20.21	0.77	6.93	3.92	7.08	8.38	-4.61	7.95E-06
Aug	1992	35.00	8.40	0.32	2.88	1.74	6.95	8.38	-10.71	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	8.38	-10.97	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	8.11	-9.93	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.61	0.29	2.61	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.19	0.35	7.36	1.71	3.3	8.11	-2.34	7.95E-06
May	1993	35.00	13.39	0.51	4.59	1.98	4.4	8.38	-6.21	7.95E-06
Jun	1993	35.00	99.75	3.8	34.20	6.14	5.76	8.11	26.47	7.95E-06
Jul	1993	35.00	22.58	0.86	34.21	2.67	7.08	8.38	21.41	7.95E-06
Aug	1993	35.00	12.60	0.48	25.73	1.82	6.95	8.38	12.22	7.95E-06
Sep	1993	35.00	2.10	0.08	12.94	1	5.5	8.11	0.33	7.95E-06
Oct	1993	35.00	12.60	0.48	4.65	1.48	3.74	8.38	-6.00	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	8.11	-9.41	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	8.11	-6.37	7.95E-06
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	8.38	-7.35	7.95E-06
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	8.11	-10.49	7.95E-06
Jul	1994	35.00	12.08	0.46	4.14	2.04	7.08	8.38	-9.28	7.95E-06
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	8.38	-14.52	7.95E-06
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-06
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	8.38	-5.52	7.95E-06
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	8.11	-9.83	7.95E-06
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-9.60	7.95E-06
May	1995	35.00	41.48	1.58	14.22	4.42	4.4	8.38	5.86	7.95E-06
Jun	1995	35.00	24.68	0.94	14.32	3.09	5.76	8.11	3.53	7.95E-06
Jul	1995	35.00	0.79	0.03	3.80	1.07	7.08	8.38	-10.59	7.95E-06
Aug	1995	35.00	0.26	0.01	0.09	0.55	6.95	8.38	-14.69	7.95E-06
Sep	1995	35.00	49.88	1.9	17.10	3.61	5.5	8.11	7.10	7.95E-06
Oct	1995	35.00	5.51	0.21	8.99	1.43	3.74	8.38	-1.71	7.95E-06
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	8.11	-8.51	7.95E-06
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	8.11	1.49	7.95E-06
May	1996	35.00	41.48	1.58	15.71	3.69	4.4	8.38	6.61	7.95E-06
Jun	1996	35.00	9.19	0.35	9.76	1.85	5.76	8.11	-2.26	7.95E-06
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	8.38	-14.73	7.95E-06
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	8.38	-1.36	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	8.38	-7.81	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	8.11	-9.63	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	8.11	-3.49	7.95E-06
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	8.38	-0.58	7.95E-06
Jun	1997	35.00	22.84	0.87	7.83	3.17	5.76	8.11	-2.87	7.95E-06
Jul	1997	35.00	55.39	2.11	18.99	4.61	7.08	8.38	8.14	7.95E-06
Aug	1997	35.00	5.25	0.2	9.94	1.05	6.95	8.38	-4.35	7.95E-06
Sep	1997	35.00	1.84	0.07	0.63	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	8.38	-11.06	7.95E-06
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	8.11	-8.98	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	18.90	0.72	7.02	2.02	1.98	0.00	7.06	0.00E+00
Apr	1998	35.00	0.00	0	7.06	0.27	3.3	8.11	-4.08	7.95E-06

1986-2000 Estimated Monthly Water Balance for Evap Pond – Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1998	35.00	30.71	1.17	10.53	3.58	4.4	8.38	1.33	7.95E-06
Jun	1998	35.00	44.63	1.7	16.63	3.36	5.76	8.11	6.11	7.95E-06
Jul	1998	35.00	38.06	1.45	19.16	3.38	7.08	8.38	7.08	7.95E-06
Aug	1998	35.00	15.23	0.58	12.30	2.36	6.95	8.38	-0.67	7.95E-06
Sep	1998	35.00	32.81	1.25	11.25	2.08	5.5	8.11	-0.28	7.95E-06
Oct	1998	35.00	41.21	1.57	14.13	4.16	3.74	8.38	6.17	7.95E-06
Nov	1998	35.00	5.25	0.2	7.97	1.42	2.02	8.11	-0.75	7.95E-06
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	8.11	1.35	7.95E-06
May	1999	35.00	2.36	0.09	2.16	1.17	4.4	8.38	-9.46	7.95E-06
Jun	1999	35.00	71.93	2.74	24.66	5.57	5.76	8.11	16.36	7.95E-06
Jul	1999	35.00	3.15	0.12	17.44	0.98	7.08	8.38	2.95	7.95E-06
Aug	1999	35.00	31.50	1.2	13.75	1.96	6.95	8.38	0.38	7.95E-06
Sep	1999	35.00	10.24	0.39	3.89	1.79	5.5	8.11	-7.93	7.95E-06
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	8.38	-12.08	7.95E-06
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	8.11	-9.30	7.95E-06
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.16	0.92	0.00	-0.76	0.00E+00
Feb	2000	35.00	0.26	0.01	0.09	1.09	1.23	0.00	-0.05	0.00E+00
Mar	2000	35.00	8.14	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	69.56	2.65	26.14	4.74	3.3	8.11	19.47	7.95E-06
May	2000	35.00	0.53	0.02	19.65	0.78	4.4	8.38	7.64	7.95E-06
Jun	2000	35.00	0.00	0	7.64	0.43	5.76	8.11	-5.80	7.95E-06
Jul	2000	35.00	13.13	0.5	4.50	2.24	7.08	8.38	-8.72	7.95E-06
Aug	2000	35.00	1.58	0.06	0.54	0.69	6.95	8.38	-14.10	7.95E-06
Sep	2000	35.00	3.94	0.15	1.35	1.03	5.5	8.11	-11.23	7.95E-06
Oct	2000	35.00	2.89	0.11	0.99	1.08	3.74	8.38	-10.05	7.95E-06
Nov	2000	35.00	0.00	0	0.00	0.43	2.02	8.11	-9.70	7.95E-06
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
				4.89		17.06	43.98		26.47	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Burdock test pits.

1988-2002 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	1988	35.00	0.00	0	0.00	0.24	0.92	0.00	-0.68	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	8.38	-3.21	7.95E-06
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	8.11	2.77	7.95E-06
Jul	1988	35.00	22.05	0.84	10.33	2.18	7.08	8.38	-2.96	7.95E-06
Aug	1988	35.00	25.46	0.97	8.73	1.87	6.95	8.38	-4.73	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	8.11	-9.52	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
Jan	1989	35.00	0.00	0	0.00	0.09	0.92	0.00	-0.83	0.00E+00
Feb	1989	35.00	0.00	0	0.00	0.6	1.23	0.00	-0.63	0.00E+00
Mar	1989	35.00	0.53	0.02	0.18	1.14	1.98	0.00	-0.66	0.00E+00
Apr	1989	35.00	10.76	0.41	3.69	1.67	3.3	8.11	-6.05	7.95E-06
May	1989	35.00	3.15	0.12	1.08	1.41	4.4	8.38	-10.29	7.95E-06
Jun	1989	35.00	2.10	0.08	0.72	1.2	5.76	8.11	-11.95	7.95E-06
Jul	1989	35.00	19.16	0.73	6.57	2.21	7.08	8.38	-6.68	7.95E-06
Aug	1989	35.00	14.44	0.55	4.95	1.46	6.95	8.38	-8.92	7.95E-06
Sep	1989	35.00	52.24	1.99	17.91	3.94	5.5	8.11	8.24	7.95E-06
Oct	1989	35.00	2.89	0.11	9.23	1.07	3.74	8.38	-1.83	7.95E-06
Nov	1989	35.00	0.00	0	0.00	0.23	2.02	8.11	-9.90	7.95E-06
Dec	1989	35.00	0.00	0	0.00	0.56	1.1	0.00	-0.54	0.00E+00
Jan	1990	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1990	35.00	0.00	0	0.00	0.4	1.23	0.00	-0.83	0.00E+00
Mar	1990	35.00	0.79	0.03	0.27	1.17	1.98	0.00	-0.54	0.00E+00
Apr	1990	35.00	11.03	0.42	3.78	2.31	3.3	8.11	-5.32	7.95E-06
May	1990	35.00	61.43	2.34	21.06	4.45	4.4	8.38	12.73	7.95E-06
Jun	1990	35.00	3.15	0.12	13.81	1.22	5.76	8.11	1.15	7.95E-06
Jul	1990	35.00	46.99	1.79	17.26	3.84	7.08	8.38	5.64	7.95E-06
Aug	1990	35.00	4.99	0.19	7.35	0.86	6.95	8.38	-7.12	7.95E-06
Sep	1990	35.00	35.18	1.34	12.06	2.48	5.5	8.11	0.93	7.95E-06
Oct	1990	35.00	1.84	0.07	1.56	0.89	3.74	8.38	-9.68	7.95E-06
Nov	1990	35.00	6.83	0.26	2.34	1.12	2.02	8.11	-6.67	7.95E-06
Dec	1990	35.00	0.79	0.03	0.27	0.32	1.1	0.00	-0.51	0.00E+00
Jan	1991	35.00	0.00	0	0.00	0.15	0.92	0.00	-0.77	0.00E+00
Feb	1991	35.00	0.00	0	0.00	0.9	1.23	0.00	-0.33	0.00E+00
Mar	1991	35.00	0.00	0	0.00	0.35	1.98	0.00	-1.63	0.00E+00
Apr	1991	35.00	4.46	0.17	1.53	1.58	3.3	8.11	-8.30	7.95E-06
May	1991	35.00	63.53	2.42	21.78	4.91	4.4	8.38	13.91	7.95E-06
Jun	1991	35.00	33.34	1.27	25.34	3.16	5.76	8.11	14.62	7.95E-06
Jul	1991	35.00	0.26	0.01	14.71	0.36	7.08	8.38	-0.39	7.95E-06
Aug	1991	35.00	13.91	0.53	4.77	1.52	6.95	8.38	-9.04	7.95E-06
Sep	1991	35.00	0.00	0	0.00	0.29	5.5	8.11	-13.32	7.95E-06
Oct	1991	35.00	4.73	0.18	1.62	0.95	3.74	8.38	-9.55	7.95E-06
Nov	1991	35.00	0.26	0.01	0.09	0.51	2.02	8.11	-9.53	7.95E-06
Dec	1991	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1992	35.00	0.00	0	0.00	0.32	0.92	0.00	-0.60	0.00E+00
Feb	1992	35.00	1.84	0.07	0.63	0.51	1.23	0.00	-0.09	0.00E+00
Mar	1992	35.00	5.78	0.22	1.98	1.07	1.98	0.00	1.07	0.00E+00
Apr	1992	35.00	0.79	0.03	1.34	0.66	3.3	8.11	-9.41	7.95E-06
May	1992	35.00	30.71	1.17	10.53	2.76	4.4	8.38	0.51	7.95E-06
Jun	1992	35.00	11.29	0.43	4.38	1.88	5.76	8.11	-7.62	7.95E-06
Jul	1992	35.00	20.21	0.77	6.93	3.92	7.08	8.38	-4.61	7.95E-06
Aug	1992	35.00	8.40	0.32	2.88	1.74	6.95	8.38	-10.71	7.95E-06
Sep	1992	35.00	0.00	0	0.00	0.08	5.5	8.11	-13.53	7.95E-06
Oct	1992	35.00	1.58	0.06	0.54	0.61	3.74	8.38	-10.97	7.95E-06
Nov	1992	35.00	0.00	0	0.00	0.2	2.02	8.11	-9.93	7.95E-06
Dec	1992	35.00	0.00	0	0.00	0.33	1.1	0.00	-0.77	0.00E+00
Jan	1993	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	1993	35.00	0.00	0	0.00	0.13	1.23	0.00	-1.10	0.00E+00
Mar	1993	35.00	7.61	0.29	2.61	3.58	1.98	0.00	4.21	0.00E+00
Apr	1993	35.00	9.19	0.35	7.36	1.71	3.3	8.11	-2.34	7.95E-06
May	1993	35.00	13.39	0.51	4.59	1.98	4.4	8.38	-6.21	7.95E-06
Jun	1993	35.00	99.75	3.8	34.20	6.14	5.76	8.11	26.47	7.95E-06
Jul	1993	35.00	22.58	0.86	34.21	2.67	7.08	8.38	21.41	7.95E-06
Aug	1993	35.00	12.60	0.48	25.73	1.82	6.95	8.38	12.22	7.95E-06
Sep	1993	35.00	2.10	0.08	12.94	1	5.5	8.11	0.33	7.95E-06
Oct	1993	35.00	12.60	0.48	4.65	1.48	3.74	8.38	-6.00	7.95E-06
Nov	1993	35.00	0.00	0	0.00	0.72	2.02	8.11	-9.41	7.95E-06
Dec	1993	35.00	0.00	0	0.00	0.82	1.1	0.00	-0.28	0.00E+00
Jan	1994	35.00	0.00	0	0.00	0.6	0.92	0.00	-0.32	0.00E+00
Feb	1994	35.00	0.00	0	0.00	0.36	1.23	0.00	-0.87	0.00E+00



1988-2002 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1994	35.00	0.00	0	0.00	0.73	1.98	0.00	-1.25	0.00E+00
Apr	1994	35.00	9.98	0.38	3.42	1.62	3.3	8.11	-6.37	7.95E-06
May	1994	35.00	11.55	0.44	3.96	1.47	4.4	8.38	-7.35	7.95E-06
Jun	1994	35.00	6.30	0.24	2.16	1.22	5.76	8.11	-10.49	7.95E-06
Jul	1994	35.00	12.08	0.46	4.14	2.04	7.08	8.38	-9.28	7.95E-06
Aug	1994	35.00	1.05	0.04	0.36	0.45	6.95	8.38	-14.52	7.95E-06
Sep	1994	35.00	0.00	0	0.00	0.32	5.5	8.11	-13.29	7.95E-06
Oct	1994	35.00	12.86	0.49	4.41	2.19	3.74	8.38	-5.52	7.95E-06
Nov	1994	35.00	0.00	0	0.00	0.3	2.02	8.11	-9.83	7.95E-06
Dec	1994	35.00	0.00	0	0.00	0.71	1.1	0.00	-0.39	0.00E+00
Jan	1995	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1995	35.00	0.00	0	0.00	0.7	1.23	0.00	-0.53	0.00E+00
Mar	1995	35.00	0.00	0	0.00	0.63	1.98	0.00	-1.35	0.00E+00
Apr	1995	35.00	1.31	0.05	0.45	1.36	3.3	8.11	-9.60	7.95E-06
May	1995	35.00	41.48	1.58	14.22	4.42	4.4	8.38	5.86	7.95E-06
Jun	1995	35.00	24.68	0.94	14.32	3.09	5.76	8.11	3.53	7.95E-06
Jul	1995	35.00	0.79	0.03	3.80	1.07	7.08	8.38	-10.59	7.95E-06
Aug	1995	35.00	0.26	0.01	0.09	0.55	6.95	8.38	-14.69	7.95E-06
Sep	1995	35.00	49.88	1.9	17.10	3.61	5.5	8.11	7.10	7.95E-06
Oct	1995	35.00	5.51	0.21	8.99	1.43	3.74	8.38	-1.71	7.95E-06
Nov	1995	35.00	2.36	0.09	0.81	0.81	2.02	8.11	-8.51	7.95E-06
Dec	1995	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	1996	35.00	0.00	0	0.00	0.35	0.92	0.00	-0.57	0.00E+00
Feb	1996	35.00	0.00	0	0.00	0.24	1.23	0.00	-0.99	0.00E+00
Mar	1996	35.00	0.00	0	0.00	0.92	1.98	0.00	-1.06	0.00E+00
Apr	1996	35.00	28.88	1.1	9.90	3	3.3	8.11	1.49	7.95E-06
May	1996	35.00	41.48	1.58	15.71	3.69	4.4	8.38	6.61	7.95E-06
Jun	1996	35.00	9.19	0.35	9.76	1.85	5.76	8.11	-2.26	7.95E-06
Jul	1996	35.00	0.53	0.02	0.18	0.55	7.08	8.38	-14.73	7.95E-06
Aug	1996	35.00	32.81	1.25	11.25	2.72	6.95	8.38	-1.36	7.95E-06
Sep	1996	35.00	3.41	0.13	1.17	1.37	5.5	8.11	-11.07	7.95E-06
Oct	1996	35.00	7.35	0.28	2.52	1.79	3.74	8.38	-7.81	7.95E-06
Nov	1996	35.00	0.00	0	0.00	0.5	2.02	8.11	-9.63	7.95E-06
Dec	1996	35.00	0.00	0	0.00	0.62	1.1	0.00	-0.48	0.00E+00
Jan	1997	35.00	0.00	0	0.00	0.62	0.92	0.00	-0.30	0.00E+00
Feb	1997	35.00	0.00	0	0.00	0.48	1.23	0.00	-0.75	0.00E+00
Mar	1997	35.00	0.00	0	0.00	0.32	1.98	0.00	-1.66	0.00E+00
Apr	1997	35.00	15.75	0.6	5.40	2.52	3.3	8.11	-3.49	7.95E-06
May	1997	35.00	27.30	1.04	9.36	2.84	4.4	8.38	-0.58	7.95E-06
Jun	1997	35.00	22.84	0.87	7.83	3.17	5.76	8.11	-2.87	7.95E-06
Jul	1997	35.00	55.39	2.11	18.99	4.61	7.08	8.38	8.14	7.95E-06
Aug	1997	35.00	5.25	0.2	9.94	1.05	6.95	8.38	-4.35	7.95E-06
Sep	1997	35.00	1.84	0.07	0.63	0.73	5.5	8.11	-12.25	7.95E-06
Oct	1997	35.00	1.05	0.04	0.36	0.7	3.74	8.38	-11.06	7.95E-06
Nov	1997	35.00	2.10	0.08	0.72	0.43	2.02	8.11	-8.98	7.95E-06
Dec	1997	35.00	0.00	0	0.00	0.26	1.1	0.00	-0.84	0.00E+00
Jan	1998	35.00	0.00	0	0.00	0.52	0.92	0.00	-0.40	0.00E+00
Feb	1998	35.00	2.89	0.11	0.99	0.78	1.23	0.00	0.54	0.00E+00
Mar	1998	35.00	18.90	0.72	7.02	2.02	1.98	0.00	7.06	0.00E+00
Apr	1998	35.00	0.00	0	7.06	0.27	3.3	8.11	-4.08	7.95E-06
May	1998	35.00	30.71	1.17	10.53	3.58	4.4	8.38	1.33	7.95E-06
Jun	1998	35.00	44.63	1.7	16.63	3.36	5.76	8.11	6.11	7.95E-06
Jul	1998	35.00	38.06	1.45	19.16	3.38	7.08	8.38	7.08	7.95E-06
Aug	1998	35.00	15.23	0.58	12.30	2.36	6.95	8.38	-0.67	7.95E-06
Sep	1998	35.00	32.81	1.25	11.25	2.08	5.5	8.11	-0.28	7.95E-06
Oct	1998	35.00	41.21	1.57	14.13	4.16	3.74	8.38	6.17	7.95E-06
Nov	1998	35.00	5.25	0.2	7.97	1.42	2.02	8.11	-0.75	7.95E-06
Dec	1998	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1999	35.00	0.00	0	0.00	0.55	0.92	0.00	-0.37	0.00E+00
Feb	1999	35.00	0.00	0	0.00	0.12	1.23	0.00	-1.11	0.00E+00
Mar	1999	35.00	0.00	0	0.00	0.55	1.98	0.00	-1.43	0.00E+00
Apr	1999	35.00	26.25	1	9.00	3.76	3.3	8.11	1.35	7.95E-06
May	1999	35.00	2.36	0.09	2.16	1.17	4.4	8.38	-9.46	7.95E-06
Jun	1999	35.00	71.93	2.74	24.66	5.57	5.76	8.11	16.36	7.95E-06
Jul	1999	35.00	3.15	0.12	17.44	0.98	7.08	8.38	2.95	7.95E-06
Aug	1999	35.00	31.50	1.2	13.75	1.96	6.95	8.38	0.38	7.95E-06
Sep	1999	35.00	10.24	0.39	3.89	1.79	5.5	8.11	-7.93	7.95E-06
Oct	1999	35.00	0.00	0	0.00	0.04	3.74	8.38	-12.08	7.95E-06
Nov	1999	35.00	0.79	0.03	0.27	0.56	2.02	8.11	-9.30	7.95E-06
Dec	1999	35.00	0.00	0	0.00	0.12	1.1	0.00	-0.98	0.00E+00
Jan	2000	35.00	0.00	0	0.00	0.16	0.92	0.00	-0.76	0.00E+00
Feb	2000	35.00	0.26	0.01	0.09	1.09	1.23	0.00	-0.05	0.00E+00
Mar	2000	35.00	8.14	0.31	2.79	1.48	1.98	0.00	2.29	0.00E+00
Apr	2000	35.00	69.56	2.65	26.14	4.74	3.3	8.11	19.47	7.95E-06

1988-2002 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	2000	35.00	0.53	0.02	19.65	0.78	4.4	8.38	7.64	7.95E-06
Jun	2000	35.00	0.00	0	7.64	0.43	5.76	8.11	-5.80	7.95E-06
Jul	2000	35.00	13.13	0.5	4.50	2.24	7.08	8.38	-8.72	7.95E-06
Aug	2000	35.00	1.58	0.06	0.54	0.69	6.95	8.38	-14.10	7.95E-06
Sep	2000	35.00	3.94	0.15	1.35	1.03	5.5	8.11	-11.23	7.95E-06
Oct	2000	35.00	2.89	0.11	0.99	1.08	3.74	8.38	-10.05	7.95E-06
Nov	2000	35.00	0.00	0	0.00	0.43	2.02	8.11	-9.70	7.95E-06
Dec	2000	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
Jan	2001	35.00	0.00	0	0.00	0.06	0.92	0.00	-0.86	0.00E+00
Feb	2001	35.00	0.00	0	0.00	0.58	1.23	0.00	-0.65	0.00E+00
Mar	2001	35.00	0.00	0	0.00	0.95	1.98	0.00	-1.03	0.00E+00
Apr	2001	35.00	19.69	0.75	6.75	2.46	3.3	8.11	-2.20	7.95E-06
May	2001	35.00	10.76	0.41	3.69	1.67	4.4	8.38	-7.42	7.95E-06
Jun	2001	35.00	31.24	1.19	10.71	3.22	5.76	8.11	0.06	7.95E-06
Jul	2001	35.00	82.95	3.16	28.50	4.96	7.08	8.38	17.99	7.95E-06
Aug	2001	35.00	6.83	0.26	20.33	1.26	6.95	8.38	6.26	7.95E-06
Sep	2001	35.00	0.00	0	6.26	0.33	5.5	8.11	-7.02	7.95E-06
Oct	2001	35.00	6.30	0.24	2.16	1.18	3.74	8.38	-8.78	7.95E-06
Nov	2001	35.00	5.78	0.22	1.98	1.3	2.02	8.11	-6.85	7.95E-06
Dec	2001	35.00	0.00	0	0.00	0.13	1.1	0.00	-0.97	0.00E+00
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.99	0.19	1.71	1.69	3.3	8.11	-8.01	7.95E-06
May	2002	35.00	6.04	0.23	2.07	1.68	4.4	8.38	-9.03	7.95E-06
Jun	2002	35.00	6.04	0.23	2.07	1.23	5.76	8.11	-10.57	7.95E-06
Jul	2002	35.00	1.58	0.06	0.54	0.74	7.08	8.38	-14.18	7.95E-06
Aug	2002	35.00	30.98	1.18	10.62	2.38	6.95	8.38	-2.33	7.95E-06
Sep	2002	35.00	16.80	0.64	5.76	2.47	5.5	8.11	-5.38	7.95E-06
Oct	2002	35.00	2.63	0.1	0.90	0.82	3.74	8.38	-10.40	7.95E-06
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.02	8.11	-9.71	7.95E-06
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
				4.86		16.82	43.98		26.47	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Burdock test pits.



POWERTECH (USA) INC.

2002-1988 Estimated Monthly Water Balance for Evap Pond – Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Jan	2002	35.00	0.00	0	0.00	0.04	0.92	0.00	-0.88	0.00E+00
Feb	2002	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	2002	35.00	0.00	0	0.00	1.44	1.98	0.00	-0.54	0.00E+00
Apr	2002	35.00	4.99	0.19	1.71	1.69	3.3	8.11	-8.01	7.95E-06
May	2002	35.00	6.04	0.23	2.07	1.68	4.4	8.38	-9.03	7.95E-06
Jun	2002	35.00	6.04	0.23	2.07	1.23	5.76	8.11	-10.57	7.95E-06
Jul	2002	35.00	1.58	0.06	0.54	0.74	7.08	8.38	-14.18	7.95E-06
Aug	2002	35.00	30.98	1.18	10.62	2.38	6.95	8.38	-2.33	7.95E-06
Sep	2002	35.00	16.80	0.64	5.76	2.47	5.5	8.11	-5.38	7.95E-06
Oct	2002	35.00	2.63	0.1	0.90	0.82	3.74	8.38	-10.40	7.95E-06
Nov	2002	35.00	0.26	0.01	0.09	0.33	2.02	8.11	-9.71	7.95E-06
Dec	2002	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2003	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2003	35.00	0.00	0	0.00	0.43	1.23	0.00	-0.80	0.00E+00
Mar	2003	35.00	6.83	0.26	2.34	1.92	1.98	0.00	2.28	0.00E+00
Apr	2003	35.00	15.49	0.59	7.59	1.96	3.3	8.11	-1.86	7.95E-06
May	2003	35.00	12.34	0.47	4.23	1.95	4.4	8.38	-6.60	7.95E-06
Jun	2003	35.00	11.03	0.42	3.78	2.8	5.76	8.11	-7.29	7.95E-06
Jul	2003	35.00	0.00	0	0.00	0.05	7.08	8.38	-15.41	7.95E-06
Aug	2003	35.00	21.26	0.81	7.29	1.89	6.95	8.38	-6.15	7.95E-06
Sep	2003	35.00	10.76	0.41	3.69	1.58	5.5	8.11	-8.34	7.95E-06
Oct	2003	35.00	0.53	0.02	0.18	0.6	3.74	8.38	-11.34	7.95E-06
Nov	2003	35.00	0.26	0.01	0.09	0.44	2.02	8.11	-9.60	7.95E-06
Dec	2003	35.00	2.10	0.08	0.72	0.6	1.1	0.00	0.22	0.00E+00
Jan	2004	35.00	0.00	0	0.22	0.3	0.92	0.00	-0.40	0.00E+00
Feb	2004	35.00	0.00	0	0.00	1.3	1.23	0.00	0.07	0.00E+00
Mar	2004	35.00	0.00	0	0.07	0.06	1.98	0.00	-1.85	0.00E+00
Apr	2004	35.00	0.00	0	0.00	0.32	3.3	8.11	-11.09	7.95E-06
May	2004	35.00	1.31	0.05	0.45	0.97	4.4	8.38	-11.36	7.95E-06
Jun	2004	35.00	1.05	0.04	0.36	1.26	5.76	8.11	-12.25	7.95E-06
Jul	2004	35.00	9.45	0.36	3.24	2.21	7.08	8.38	-10.01	7.95E-06
Aug	2004	35.00	1.58	0.06	0.54	0.98	6.95	8.38	-13.81	7.95E-06
Sep	2004	35.00	18.38	0.7	6.30	2.61	5.5	8.11	-4.70	7.95E-06
Oct	2004	35.00	18.11	0.69	6.21	1.89	3.74	8.38	-4.02	7.95E-06
Nov	2004	35.00	0.00	0	0.00	0.2	2.02	8.11	-9.93	7.95E-06
Dec	2004	35.00	0.00	0	0.00	0.08	1.1	0.00	-1.02	0.00E+00
Jan	2005	35.00	0.00	0	0.00	0.47	0.92	0.00	-0.45	0.00E+00
Feb	2005	35.00	0.00	0	0.00	0.1	1.23	0.00	-1.13	0.00E+00
Mar	2005	35.00	13.13	0.5	4.50	1.68	1.98	0.00	4.20	0.00E+00
Apr	2005	35.00	27.56	1.05	13.65	2.73	3.3	8.11	4.97	7.95E-06
May	2005	35.00	16.28	0.62	10.55	2.66	4.4	8.38	0.42	7.95E-06
Jun	2005	35.00	109.46	4.17	37.95	6.24	5.76	8.11	30.32	7.95E-06
Jul	2005	35.00	23.63	0.9	38.42	2.07	7.08	8.38	25.03	7.95E-06
Aug	2005	35.00	13.91	0.53	29.80	1.91	6.95	8.38	16.37	7.95E-06
Sep	2005	35.00	0.00	0	16.37	0.37	5.5	8.11	3.13	7.95E-06
Oct	2005	35.00	13.65	0.52	7.81	1.49	3.74	8.38	-2.82	7.95E-06
Nov	2005	35.00	0.00	0	0.00	0.04	2.02	8.11	-10.09	7.95E-06
Dec	2005	35.00	0.00	0	0.00	0.4	1.1	0.00	-0.70	0.00E+00
Jan	2006	35.00	0.00	0	0.00	0.26	0.92	0.00	-0.66	0.00E+00
Feb	2006	35.00	0.00	0	0.00	0.51	1.23	0.00	-0.72	0.00E+00
Mar	2006	35.00	0.00	0	0.00	0.93	1.98	0.00	-1.05	0.00E+00
Apr	2006	35.00	6.04	0.23	2.07	1.35	3.3	8.11	-7.99	7.95E-06
May	2006	35.00	18.11	0.69	6.21	2.11	4.4	8.38	-4.46	7.95E-06
Jun	2006	35.00	6.30	0.24	2.16	1.35	5.76	8.11	-10.36	7.95E-06
Jul	2006	35.00	45.15	1.72	15.48	3.15	7.08	8.38	3.17	7.95E-06
Aug	2006	35.00	5.25	0.2	4.97	1.34	6.95	8.38	-9.03	7.95E-06
Sep	2006	35.00	4.73	0.18	1.62	0.91	5.5	8.11	-11.08	7.95E-06
Oct	2006	35.00	1.58	0.06	0.54	0.69	3.74	8.38	-10.89	7.95E-06
Nov	2006	35.00	0.00	0	0.00	0.26	2.02	8.11	-9.87	7.95E-06
Dec	2006	35.00	0.00	0	0.00	0.36	1.1	0.00	-0.74	0.00E+00
Jan	2007	35.00	0.00	0	0.00	0.14	0.92	0.00	-0.78	0.00E+00
Feb	2007	35.00	0.00	0	0.00	0.44	1.23	0.00	-0.79	0.00E+00
Mar	2007	35.00	26.25	1	9.00	1.74	1.98	0.00	8.76	0.00E+00
Apr	2007	35.00	2.89	0.11	9.75	1.09	3.3	8.11	-0.57	7.95E-06
May	2007	35.00	16.01	0.61	5.49	1.72	4.4	8.38	-5.57	7.95E-06
Jun	2007	35.00	1.31	0.05	0.45	0.67	5.76	8.11	-12.75	7.95E-06
Jul	2007	35.00	46.20	1.76	15.84	3.5	7.08	8.38	3.88	7.95E-06
Aug	2007	35.00	9.45	0.36	7.12	2.05	6.95	8.38	-6.17	7.95E-06
Sep	2007	35.00	1.31	0.05	0.45	0.83	5.5	8.11	-12.33	7.95E-06
Oct	2007	35.00	13.13	0.5	4.50	1.72	3.74	8.38	-5.90	7.95E-06
Nov	2007	35.00	0.00	0	0.00	0.06	2.02	8.11	-10.07	7.95E-06
Dec	2007	35.00	0.00	0	0.00	0.37	1.1	0.00	-0.73	0.00E+00
Jan	1980	35.00	0.00	0	0.00	0.59	0.92	0.00	-0.33	0.00E+00
Feb	1980	35.00	0.00	0	0.00	0.77	1.23	0.00	-0.46	0.00E+00

2002-1988 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
Mar	1980	35.00	18.38	0.7	6.30	2.82	1.98	0.00	7.14	0.00E+00
Apr	1980	35.00	22.31	0.85	14.79	1.72	3.3	8.11	5.10	7.95E-06
May	1980	35.00	36.75	1.4	17.70	3.33	4.4	8.38	8.24	7.95E-06
Jun	1980	35.00	23.89	0.91	16.43	1.99	5.76	8.11	4.55	7.95E-06
Jul	1980	35.00	3.15	0.12	5.63	0.97	7.08	8.38	-8.86	7.95E-06
Aug	1980	35.00	14.96	0.57	5.13	1.85	6.95	8.38	-8.35	7.95E-06
Sep	1980	35.00	0.26	0.01	0.09	0.39	5.5	8.11	-13.13	7.95E-06
Oct	1980	35.00	5.78	0.22	1.98	1.01	3.74	8.38	-9.13	7.95E-06
Nov	1980	35.00	3.68	0.14	1.26	0.62	2.02	8.11	-8.25	7.95E-06
Dec	1980	35.00	0.00	0	0.00	0.68	1.1	0.00	-0.42	0.00E+00
Jan	1981	35.00	0.00	0	0.00	0.08	0.92	0.00	-0.84	0.00E+00
Feb	1981	35.00	0.00	0	0.00	0.27	1.23	0.00	-0.96	0.00E+00
Mar	1981	35.00	5.78	0.22	1.98	0.66	1.98	0.00	0.66	0.00E+00
Apr	1981	35.00	1.31	0.05	1.11	0.74	3.3	8.11	-9.56	7.95E-06
May	1981	35.00	27.30	1.04	9.36	3.22	4.4	8.38	-0.20	7.95E-06
Jun	1981	35.00	14.96	0.57	5.13	1.73	5.76	8.11	-7.01	7.95E-06
Jul	1981	35.00	22.84	0.87	7.83	2.54	7.08	8.38	-5.09	7.95E-06
Aug	1981	35.00	3.41	0.13	1.17	1	6.95	8.38	-13.16	7.95E-06
Sep	1981	35.00	0.00	0	0.00	0.16	5.5	8.11	-13.45	7.95E-06
Oct	1981	35.00	34.65	1.32	11.88	2.92	3.74	8.38	2.68	7.95E-06
Nov	1981	35.00	0.00	0	2.68	0.04	2.02	8.11	-7.42	7.95E-06
Dec	1982	35.00	0.00	0	0.00	0.1	1.1	0.00	-1.00	0.00E+00
Jan	1982	35.00	0.00	0	0.00	0.18	0.92	0.00	-0.74	0.00E+00
Feb	1982	35.00	0.00	0	0.00	0.05	1.23	0.00	-1.18	0.00E+00
Mar	1982	35.00	0.00	0	0.00	1.34	1.98	0.00	-0.64	0.00E+00
Apr	1982	35.00	2.36	0.09	0.81	1	3.3	8.11	-9.60	7.95E-06
May	1982	35.00	50.14	1.91	17.19	4.18	4.4	8.38	8.59	7.95E-06
Jun	1982	35.00	56.70	2.16	28.03	4.45	5.76	8.11	18.60	7.95E-06
Jul	1982	35.00	11.81	0.45	22.65	2.2	7.08	8.38	9.39	7.95E-06
Aug	1982	35.00	25.46	0.97	18.12	3.29	6.95	8.38	6.08	7.95E-06
Sep	1982	35.00	12.08	0.46	10.22	2.42	5.5	8.11	-0.98	7.95E-06
Oct	1982	35.00	7.09	0.27	2.43	1.27	3.74	8.38	-8.42	7.95E-06
Nov	1982	35.00	12.60	0.48	4.32	1.3	2.02	8.11	-4.51	7.95E-06
Dec	1982	35.00	0.00	0	0.00	0.2	1.1	0.00	-0.90	0.00E+00
Jan	1983	35.00	0.00	0	0.00	0.22	0.92	0.00	-0.70	0.00E+00
Feb	1983	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1983	35.00	4.46	0.17	1.53	0.89	1.98	0.00	0.44	0.00E+00
Apr	1983	35.00	1.05	0.04	0.80	0.75	3.3	8.11	-9.86	7.95E-06
May	1983	35.00	11.29	0.43	3.87	1.95	4.4	8.38	-6.96	7.95E-06
Jun	1983	35.00	48.56	1.85	16.65	4.25	5.76	8.11	7.03	7.95E-06
Jul	1983	35.00	6.30	0.24	9.19	1.05	7.08	8.38	-5.23	7.95E-06
Aug	1983	35.00	33.86	1.29	11.61	3.31	6.95	8.38	-0.41	7.95E-06
Sep	1983	35.00	0.26	0.01	0.09	0.28	5.5	8.11	-13.24	7.95E-06
Oct	1983	35.00	4.46	0.17	1.53	1.6	3.74	8.38	-8.99	7.95E-06
Nov	1983	35.00	12.60	0.48	4.32	1.6	2.02	8.11	-4.21	7.95E-06
Dec	1983	35.00	0.00	0	0.00	0.05	1.1	0.00	-1.05	0.00E+00
Jan	1984	35.00	0.00	0	0.00	1.37	0.92	0.00	0.45	0.00E+00
Feb	1984	35.00	0.00	0	0.45	0.28	1.23	0.00	-0.50	0.00E+00
Mar	1984	35.00	0.26	0.01	0.09	0.8	1.98	0.00	-1.09	0.00E+00
Apr	1984	35.00	28.09	1.07	9.63	3.59	3.3	8.11	1.81	7.95E-06
May	1984	35.00	35.96	1.37	14.14	2.93	4.4	8.38	4.28	7.95E-06
Jun	1984	35.00	5.78	0.22	6.26	1.91	5.76	8.11	-5.70	7.95E-06
Jul	1984	35.00	9.71	0.37	3.33	2.38	7.08	8.38	-9.75	7.95E-06
Aug	1984	35.00	8.66	0.33	2.97	1.68	6.95	8.38	-10.68	7.95E-06
Sep	1984	35.00	0.00	0	0.00	0.4	5.5	8.11	-13.21	7.95E-06
Oct	1984	35.00	0.53	0.02	0.18	0.63	3.74	8.38	-11.31	7.95E-06
Nov	1984	35.00	4.46	0.17	1.53	0.57	2.02	8.11	-8.03	7.95E-06
Dec	1984	35.00	0.00	0	0.00	0.35	1.1	0.00	-0.75	0.00E+00
Jan	1985	35.00	0.00	0	0.00	0.17	0.92	0.00	-0.75	0.00E+00
Feb	1985	35.00	0.00	0	0.00	0.57	1.23	0.00	-0.66	0.00E+00
Mar	1985	35.00	0.00	0	0.00	0.77	1.98	0.00	-1.21	0.00E+00
Apr	1985	35.00	47.51	1.81	16.29	3.15	3.3	8.11	8.03	7.95E-06
May	1985	35.00	2.63	0.1	8.93	1.05	4.4	8.38	-2.81	7.95E-06
Jun	1985	35.00	1.58	0.06	0.54	1.03	5.76	8.11	-12.30	7.95E-06
Jul	1985	35.00	2.36	0.09	0.81	1.2	7.08	8.38	-13.45	7.95E-06
Aug	1985	35.00	0.00	0	0.00	0.5	6.95	8.38	-14.83	7.95E-06
Sep	1985	35.00	12.34	0.47	4.23	1.99	5.5	8.11	-7.39	7.95E-06
Oct	1985	35.00	1.05	0.04	0.36	0.68	3.74	8.38	-11.08	7.95E-06
Nov	1985	35.00	0.00	0	0.00	0.22	2.02	8.11	-9.91	7.95E-06
Dec	1985	35.00	0.00	0	0.00	0.41	1.1	0.00	-0.69	0.00E+00
Jan	1986	35.00	0.00	0	0.00	1.63	0.92	0.00	0.71	0.00E+00
Feb	1986	35.00	0.00	0	0.71	1.06	1.23	0.00	0.54	0.00E+00
Mar	1986	35.00	0.00	0	0.54	0.52	1.98	0.00	-0.92	0.00E+00
Apr	1986	35.00	32.29	1.23	11.07	3.27	3.3	8.11	2.93	7.95E-06

2002-1988 Estimated Monthly Water Balance for Evap Pond -- Burdock Site (XB Run)

		Assumed Pond Area (ac)	Mon. Runoff Vol (ac-ft)	Mon. Runoff (in)	Beg. Mon. Pond Depth (in/mo)	Mon. Precip (in/mo)	Mo. PET (in/mo)	Mo. Seepage (in/mo)	End Mon. Pond Depth (in/mo)	Burdock Perm. (cm/sec)
May	1986	35.00	8.40	0.32	5.81	1.07	4.4	8.38	-5.91	7.95E-06
Jun	1986	35.00	68.51	2.61	23.49	4.87	5.76	8.11	14.49	7.95E-06
Jul	1986	35.00	5.25	0.2	16.29	1.63	7.08	8.38	2.45	7.95E-06
Aug	1986	35.00	6.83	0.26	4.79	1.19	6.95	8.38	-9.35	7.95E-06
Sep	1986	35.00	18.11	0.69	6.21	3.52	5.5	8.11	-3.88	7.95E-06
Oct	1986	35.00	50.93	1.94	17.46	3.88	3.74	8.38	9.22	7.95E-06
Nov	1986	35.00	2.10	0.08	9.94	0.86	2.02	8.11	0.66	7.95E-06
Dec	1986	35.00	0.00	0	0.66	0.09	1.1	0.00	-0.35	0.00E+00
Jan	1987	35.00	0.00	0	0.00	0.13	0.92	0.00	-0.79	0.00E+00
Feb	1987	35.00	0.00	0	0.00	0.87	1.23	0.00	-0.36	0.00E+00
Mar	1987	35.00	3.15	0.12	1.08	2.22	1.98	0.00	1.32	0.00E+00
Apr	1987	35.00	4.99	0.19	3.03	0.69	3.3	8.11	-7.69	7.95E-06
May	1987	35.00	25.20	0.96	8.64	2.97	4.4	8.38	-1.17	7.95E-06
Jun	1987	35.00	0.79	0.03	0.27	0.59	5.76	8.11	-13.01	7.95E-06
Jul	1987	35.00	15.75	0.6	5.40	1.71	7.08	8.38	-8.35	7.95E-06
Aug	1987	35.00	2.36	0.09	0.81	1.04	6.95	8.38	-13.48	7.95E-06
Sep	1987	35.00	1.84	0.07	0.63	0.76	5.5	8.11	-12.22	7.95E-06
Oct	1987	35.00	0.26	0.01	0.09	0.42	3.74	8.38	-11.61	7.95E-06
Nov	1987	35.00	5.51	0.21	1.89	0.71	2.02	8.11	-7.53	7.95E-06
Dec	1987	35.00	0.26	0.01	0.09	0.25	1.1	0.00	-0.76	0.00E+00
Jan	1988	35.00	0.00	0	0.00	0.63	0.92	0.00	-0.29	0.00E+00
Feb	1988	35.00	0.00	0	0.00	0.21	1.23	0.00	-1.02	0.00E+00
Mar	1988	35.00	0.00	0	0.00	1.17	1.98	0.00	-0.81	0.00E+00
Apr	1988	35.00	1.58	0.06	0.54	0.63	3.3	8.11	-10.24	7.95E-06
May	1988	35.00	20.21	0.77	6.93	2.64	4.4	8.38	-3.21	7.95E-06
Jun	1988	35.00	40.43	1.54	13.86	2.78	5.76	8.11	2.77	7.95E-06
Jul	1988	35.00	23.36	0.89	10.78	2.18	7.08	8.38	-2.51	7.95E-06
Aug	1988	35.00	25.46	0.97	8.73	1.87	6.95	8.38	-4.73	7.95E-06
Sep	1988	35.00	1.05	0.04	0.36	0.84	5.5	8.11	-12.41	7.95E-06
Oct	1988	35.00	0.00	0	0.00	0.09	3.74	8.38	-12.03	7.95E-06
Nov	1988	35.00	0.26	0.01	0.09	0.52	2.02	8.11	-9.52	7.95E-06
Dec	1988	35.00	0.00	0	0.00	0.23	1.1	0.00	-0.87	0.00E+00
				4.29		15.62	43.98		30.32	
				(Avg. annual)		(Avg. annual)	(Avg. annual)		(Maximum value)	

Assumes seepage is 0.00 for January, February, March and December due to frozen soils.
 Trial is for bare soil, 315 acres irrigated area.

Permeability value is geometric mean of three available permeability values from Burdock test pits.