

Appendix I. Mean annual dissolved oxygen and adjusted deficit model predictions at grab reference sites in the Everglades Protection Area. Residuals were used to calculate the lower prediction interval for compliance determination. For the model calculations, sample collection times were standardized to Eastern Standard Time (EST).

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
3AE20	2000	5.39	4.02	1.37
3AE20	2001	4.43	4.25	0.19
3AE20	2002	3.49	4.33	-0.84
3AE40	2000	3.55	4.14	-0.58
3AE40	2001	5.34	3.77	1.57
3AE40	2002	4.13	4.35	-0.22
3ANMESO	2000	2.85	3.94	-1.09
3ANMESO	2001	4.20	4.40	-0.20
3ANMESO	2002	2.39	4.13	-1.74
3ASMESO	2000	2.00	3.64	-1.64
3ASMESO	2001	5.84	4.51	1.33
3ASMESO	2002	3.33	4.08	-0.75
3AW40	2000	5.67	3.94	1.73
3AW40	2001	6.02	4.17	1.85
3AW40	2002	6.00	4.39	1.61
CA215	1995	4.33	3.70	0.63
CA215	1996	4.62	3.71	0.91
CA215	1997	5.50	3.53	1.97
CA215	1998	5.03	3.52	1.51
CA215	1999	5.01	3.72	1.28
CA215	2000	3.67	3.75	-0.08
CA215	2001	4.75	3.50	1.26
CA215	2002	4.23	3.72	0.51
CA29	1994	5.03	3.54	1.49
CA29	1995	3.68	3.71	-0.03
CA29	1996	3.84	3.52	0.32
CA29	1997	3.98	3.56	0.42
CA29	1998	3.33	3.58	-0.24
CA29	1999	3.20	3.57	-0.38
CA29	2000	3.65	3.70	-0.05
CA29	2001	3.91	3.26	0.66
CA29	2002	4.28	3.60	0.69
CA311	1994	3.11	3.07	0.04
CA311	1995	3.44	3.66	-0.22
CA311	1996	3.31	3.69	-0.38
CA311	1997	3.59	3.65	-0.06

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
CA311	1998	3.09	3.55	-0.45
CA311	1999	4.03	3.63	0.40
CA311	2000	3.89	3.72	0.17
CA311	2001	3.72	3.13	0.59
CA311	2002	3.88	3.52	0.36
CA315	1994	3.05	3.01	0.04
CA315	1995	2.63	3.47	-0.85
CA315	1996	2.38	3.61	-1.23
CA315	1997	3.07	3.60	-0.53
CA315	1998	3.03	3.48	-0.46
CA315	1999	3.18	3.62	-0.44
CA315	2000	2.87	3.68	-0.81
CA315	2001	2.53	3.49	-0.96
CA315	2002	3.02	3.50	-0.48
CA32	1994	4.07	3.53	0.55
CA32	1995	3.51	4.04	-0.53
CA32	1996	5.10	4.28	0.82
CA32	1997	4.20	3.92	0.27
CA32	1998	3.82	4.07	-0.25
CA32	1999	4.61	3.96	0.65
CA32	2000	3.90	3.83	0.07
CA32	2001	2.76	3.34	-0.58
CA32	2002	3.09	3.62	-0.53
CA34	1994	2.55	3.20	-0.65
CA34	1995	2.65	3.67	-1.02
CA34	1996	2.72	3.78	-1.05
CA34	1997	2.70	3.82	-1.12
CA34	1998	2.26	3.80	-1.54
CA34	1999	3.69	3.65	0.04
CA34	2000	3.02	3.68	-0.66
CA34	2001	2.11	3.25	-1.14
CA34	2002	2.47	3.85	-1.37
CA38	1994	3.26	3.25	0.01
CA38	1995	2.73	3.80	-1.07
CA38	1996	3.60	3.79	-0.20
CA38	1997	2.78	3.77	-0.98
CA38	1998	2.79	3.76	-0.96
CA38	1999	3.83	3.65	0.18
CA38	2000	3.51	3.80	-0.29
CA38	2001	3.04	3.30	-0.27
CA38	2002	3.43	3.71	-0.28
E5	1994	2.91	3.21	-0.31
E5	1995	3.15	3.73	-0.58

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
E5	1996	3.39	3.59	-0.20
E5	1997	4.46	3.94	0.52
E5	1998	3.68	3.91	-0.23
E5	1999	4.30	4.34	-0.04
E5	2000	3.64	4.46	-0.82
E5	2001	4.17	3.57	0.61
E5	2002	6.52	4.07	2.45
EP	1994	9.79	4.08	5.71
EP	1995	8.41	4.34	4.07
EP	1996	8.54	4.52	4.02
EP	1997	7.29	3.84	3.45
EP	1998	7.89	4.68	3.21
EP	1999	9.35	5.02	4.33
EP	2000	9.65	4.73	4.92
EP	2001	9.05	4.48	4.56
F5	1994	3.68	3.41	0.27
F5	1995	4.22	3.96	0.26
F5	1996	3.41	3.28	0.13
F5	1997	4.48	3.72	0.77
F5	1998	4.90	3.82	1.08
F5	1999	4.67	4.01	0.66
F5	2000	3.93	3.96	-0.03
F5	2001	4.14	3.80	0.35
F5	2002	4.25	4.28	-0.03
LOX11	1994	3.68	3.57	0.11
LOX11	1995	1.69	3.70	-2.01
LOX11	1996	4.58	4.21	0.37
LOX11	1997	3.17	3.70	-0.53
LOX11	1998	2.68	4.17	-1.49
LOX11	1999	2.90	3.86	-0.96
LOX11	2000	3.35	3.66	-0.31
LOX11	2001	3.38	3.45	-0.07
LOX11	2002	2.71	3.38	-0.67
LOX12	1994	3.26	3.77	-0.51
LOX12	1995	2.53	3.53	-1.00
LOX12	1996	3.83	4.02	-0.19
LOX12	1997	4.12	3.50	0.62
LOX12	1998	3.28	3.33	-0.04
LOX12	1999	3.71	3.65	0.06
LOX12	2000	3.00	3.49	-0.49
LOX12	2001	3.39	3.43	-0.04
LOX12	2002	3.51	3.26	0.25
LOX13	1994	3.31	3.50	-0.19

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
LOX13	1995	2.20	3.79	-1.59
LOX13	1996	4.40	4.11	0.29
LOX13	1997	4.33	3.75	0.58
LOX13	1998	3.72	3.73	-0.01
LOX13	1999	4.54	4.22	0.32
LOX13	2000	3.75	3.74	0.01
LOX13	2001	3.27	3.52	-0.24
LOX13	2002	3.60	3.56	0.04
LOX14	1994	1.89	3.53	-1.64
LOX14	1995	1.63	3.83	-2.20
LOX14	1996	2.32	4.22	-1.90
LOX14	1997	2.46	3.92	-1.46
LOX14	1998	3.02	3.60	-0.59
LOX14	1999	2.79	3.84	-1.05
LOX14	2000	2.76	3.67	-0.91
LOX14	2001	2.06	3.53	-1.48
LOX14	2002	2.78	3.31	-0.54
LOX15	1994	2.45	3.47	-1.03
LOX15	1995	2.42	3.51	-1.09
LOX15	1996	3.75	3.94	-0.19
LOX15	1997	3.76	3.56	0.20
LOX15	1998	3.66	3.26	0.40
LOX15	1999	3.86	3.52	0.35
LOX15	2000	3.25	3.37	-0.11
LOX15	2001	3.44	3.33	0.11
LOX15	2002	3.66	3.17	0.50
LOX16	1994	1.65	3.56	-1.91
LOX16	1995	1.38	3.60	-2.22
LOX16	1996	2.56	4.10	-1.54
LOX16	1997	2.87	3.72	-0.85
LOX16	1998	2.37	3.48	-1.11
LOX16	1999	2.19	3.70	-1.51
LOX16	2000	1.59	3.61	-2.02
LOX16	2001	2.16	3.49	-1.33
LOX16	2002	2.06	3.35	-1.29
LOX3	1994	4.80	3.55	1.24
LOX3	1995	6.28	3.97	2.31
LOX3	1996	4.83	4.45	0.38
LOX3	1997	6.92	3.80	3.12
LOX3	1998	5.76	4.23	1.53
LOX3	1999	5.10	4.27	0.83
LOX3	2000	5.78	3.77	2.01
LOX3	2001	2.94	3.30	-0.36

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
LOX3	2002	3.76	3.85	-0.09
LOX4	1994	4.10	4.27	-0.17
LOX4	1995	2.18	4.37	-2.19
LOX4	1996	4.42	4.48	-0.06
LOX4	1997	5.02	4.05	0.97
LOX4	1998	3.25	4.71	-1.46
LOX4	1999	3.20	4.30	-1.10
LOX4	2000	2.88	3.91	-1.03
LOX4	2001	2.65	3.29	-0.64
LOX4	2002	2.99	3.75	-0.76
LOX5	1994	6.17	3.46	2.71
LOX5	1995	5.26	3.70	1.55
LOX5	1996	6.16	4.28	1.89
LOX5	1997	4.64	3.63	1.01
LOX5	1998	5.52	3.72	1.80
LOX5	1999	4.88	3.74	1.14
LOX5	2000	5.29	3.68	1.60
LOX5	2001	2.66	3.18	-0.52
LOX5	2002	3.20	3.65	-0.45
LOX6	1994	3.80	3.43	0.37
LOX6	1995	2.26	3.35	-1.09
LOX6	1996	3.30	4.10	-0.81
LOX6	1997	3.05	3.60	-0.55
LOX6	1998	2.79	3.61	-0.83
LOX6	1999	2.95	3.49	-0.53
LOX6	2000	3.46	3.61	-0.15
LOX6	2001	3.74	3.25	0.48
LOX6	2002	3.56	3.35	0.21
LOX7	1994	2.95	3.37	-0.41
LOX7	1995	1.91	3.43	-1.51
LOX7	1996	2.88	4.06	-1.19
LOX7	1997	3.47	3.64	-0.16
LOX7	1998	3.89	3.49	0.40
LOX7	1999	3.51	3.58	-0.07
LOX7	2000	3.18	3.53	-0.35
LOX7	2001	2.94	3.31	-0.36
LOX7	2002	3.84	3.50	0.34
LOX8	1994	3.68	3.39	0.29
LOX8	1995	3.06	3.57	-0.51
LOX8	1996	4.51	4.11	0.40
LOX8	1997	4.14	3.65	0.49
LOX8	1998	4.23	3.54	0.69
LOX8	1999	3.90	3.56	0.34

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
LOX8	2000	3.54	3.57	-0.03
LOX8	2001	3.43	3.23	0.20
LOX8	2002	4.51	3.44	1.07
LOX9	1994	4.61	3.64	0.96
LOX9	1995	3.50	3.90	-0.40
LOX9	1996	4.77	4.38	0.39
LOX9	1997	4.65	3.84	0.81
LOX9	1998	5.52	3.94	1.58
LOX9	1999	4.85	3.82	1.03
LOX9	2000	4.34	3.60	0.73
LOX9	2001	2.58	3.11	-0.53
LOX9	2002	3.07	3.59	-0.52
NE1	1994	5.45	3.70	1.75
NE1	1995	5.30	3.97	1.33
NE1	1996	3.53	3.77	-0.24
NE1	1997	3.23	3.62	-0.38
NE1	1998	3.45	3.67	-0.22
NE1	1999	2.93	3.47	-0.54
NE1	2000	2.45	3.55	-1.10
NE1	2001	3.99	3.78	0.21
NE1	2002	3.97	3.61	0.36
NP201	1994	5.31	3.62	1.69
NP201	1995	5.26	3.85	1.40
NP201	1996	4.81	3.77	1.04
NP201	1997	5.23	3.60	1.63
NP201	1998	3.77	3.70	0.08
NP201	1999	5.16	3.50	1.65
NP201	2000	4.28	3.60	0.68
NP201	2001	5.34	3.63	1.71
NP201	2002	5.34	3.75	1.59
P33	1994	4.32	3.82	0.50
P33	1995	5.49	4.16	1.34
P33	1996	3.55	3.52	0.03
P33	1997	3.72	3.53	0.19
P33	1998	3.42	3.40	0.02
P33	1999	3.59	3.30	0.29
P33	2000	3.65	3.34	0.31
P33	2001	4.27	3.68	0.59
P33	2002	4.48	3.42	1.06
P34	1994	6.37	3.54	2.83
P34	1995	4.99	3.61	1.38
P34	1996	5.04	3.77	1.27
P34	1997	6.29	3.79	2.50

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
P34	1998	4.81	4.06	0.76
P34	1999	5.88	3.59	2.29
P34	2000	5.38	3.49	1.89
P34	2001	6.21	3.74	2.47
P34	2002	6.54	3.78	2.77
P35	1994	3.62	3.48	0.14
P35	1995	3.64	3.68	-0.04
P35	1996	3.79	4.11	-0.32
P35	1997	4.54	4.05	0.50
P35	1998	3.52	4.60	-1.09
P35	1999	5.17	4.42	0.75
P35	2000	4.74	4.41	0.32
P35	2001	3.89	3.62	0.26
P35	2002	4.48	4.22	0.26
P36	1994	5.18	4.13	1.06
P36	1995	6.85	4.31	2.55
P36	1996	3.61	3.74	-0.13
P36	1997	4.01	3.84	0.17
P36	1998	3.91	3.97	-0.06
P36	1999	4.72	3.76	0.96
P36	2000	4.25	3.71	0.55
P36	2001	4.95	3.86	1.09
P36	2002	4.82	3.90	0.92
P37	1994	8.22	5.02	3.21
P37	1995	6.58	4.69	1.89
P37	1996	5.96	4.45	1.51
P37	1997	7.70	4.30	3.40
P37	1998	6.96	4.61	2.34
P37	1999	9.39	4.72	4.67
P37	2000	8.79	4.41	4.38
P37	2001	8.68	4.42	4.26
P37	2002	8.04	4.70	3.34
T15W	2000	8.13	4.30	3.83
T24	2000	7.01	4.02	3.00
T24	2001	5.64	3.63	2.01
T33	2000	4.42	3.61	0.82
T33	2001	6.14	3.92	2.23
T34	2000	4.82	3.56	1.27
T34	2001	6.07	3.30	2.77
TNMESO	2000	4.93	3.50	1.43
TNMESO	2001	5.90	3.65	2.26
TSB	1994	8.01	5.31	2.70
TSB	1995	7.26	5.31	1.95

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
TSB	1996	5.58	4.99	0.59
TSB	1997	3.56	2.82	0.74
TSB	1998	5.12	4.16	0.96
TSB	1999	8.11	4.37	3.75
TSB	2000	3.90	3.01	0.89
TSB	2001	3.65	3.34	0.31
TSB	2002	3.01	3.26	-0.25
TSMESO	2000	5.35	3.49	1.86
TSMESO	2001	6.03	4.07	1.96
U1	1994	2.82	3.20	-0.37
U1	1995	2.97	3.74	-0.77
U1	1996	2.40	3.85	-1.45
U1	1997	3.56	3.84	-0.28
U1	1998	3.19	3.66	-0.47
U1	1999	3.91	4.22	-0.31
U1	2000	3.33	4.30	-0.97
U1	2001	3.21	4.07	-0.85
U1	2002	4.13	4.17	-0.03
U2	1994	3.10	3.25	-0.15
U2	1995	2.51	3.66	-1.15
U2	1996	2.84	3.74	-0.91
U2	1997	3.48	4.09	-0.61
U2	1998	3.30	3.88	-0.58
U2	1999	5.30	4.21	1.09
U2	2000	5.84	4.04	1.79
U2	2001	5.00	3.57	1.43
U2	2002	6.75	4.39	2.35
U3	1994	3.83	3.36	0.46
U3	1995	4.54	3.77	0.76
U3	1996	3.86	3.73	0.13
U3	1997	4.89	3.79	1.10
U3	1998	4.69	3.79	0.91
U3	1999	4.96	4.25	0.71
U3	2000	4.69	4.62	0.07
U3	2001	4.68	3.68	1.00
U3	2002	5.47	4.56	0.91
X3	1996	2.57	3.61	-1.03
X3	1997	3.53	4.58	-1.04
X3	1998	3.75	4.56	-0.81
X3	1999	2.99	3.78	-0.79
X3	2000	2.55	4.10	-1.56
X3	2001	2.69	3.70	-1.01
X3	2002	2.19	3.88	-1.69

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
Y4	1996	2.71	3.77	-1.06
Y4	1997	3.90	4.62	-0.72
Y4	1998	4.00	4.14	-0.14
Y4	1999	3.81	4.12	-0.31
Y4	2000	2.92	4.07	-1.14
Y4	2001	3.43	3.94	-0.51
Y4	2002	2.28	4.15	-1.87
Z3	1996	2.50	3.57	-1.07
Z3	1997	4.01	4.53	-0.52
Z3	1998	3.44	4.07	-0.62
Z3	1999	3.80	4.06	-0.26
Z3	2000	2.62	3.89	-1.26
Z3	2001	3.70	3.93	-0.23
Z3	2002	3.48	3.94	-0.46
Z4	1996	2.42	3.60	-1.18
Z4	1997	4.38	4.26	0.12
Z4	1998	4.39	4.09	0.30
Z4	1999	4.50	4.44	0.06
Z4	2000	3.50	4.02	-0.52
Z4	2001	3.51	3.81	-0.31
Z4	2002	3.46	4.17	-0.71
			Mean	0.30
			Median	0.05
			10th Percentile	-1.1