

Appendix 6. Multimetric index, individual metric scores, and predictive model observed/expected scores for study streams.

Station	Date	<i>A priori</i> disturbance class	Multimetric Index	Insect taxa	Noninsect % taxa	% EPT	Scraper taxa	Clinger taxa	Intolerant % taxa	Predictive model O/E
aibea01	5/15/03	Reference	67.2	16	11.1	50.4	4	8	66.7	0.92
aidcc01	5/16/03	Reference	65.7	24	22.6	50.3	3	11	45.2	1.35
aieyb01	5/15/03	Reference	73.1	18	10.0	75.8	4	8	65.0	1.07
aigcc01	5/16/03	Reference	64.2	18	18.2	71.4	3	7	54.6	1.05
aigcc01	5/16/03	Reference	79.1	25	13.8	68.2	5	12	51.7	1.15
ainfm02	5/7/02	Reference	82.7	19	9.5	79.1	6	12	61.9	0.92
aisfm01	5/7/02	Class 2	92.9	27	0.0	81.5	6	15	70.4	1.10
aisti01	5/15/03	Reference	93.5	22	4.4	92.6	7	13	69.6	1.04
aiwyb01	5/15/03	Reference	90.2	21	4.6	91.9	6	12	72.7	1.02
cohb101	5/11/04	Reference	75.6	19	13.6	81.3	5	9	59.1	1.15
cohb201	5/11/04	Reference	78.9	19	9.5	83.0	5	10	61.9	1.04
cohb301	5/24/04	Reference	80.6	21	19.2	81.5	6	12	57.7	1.25
cohb401	5/12/04	Reference	83.2	18	18.2	86.2	7	12	63.6	1.18
cohic01	5/10/04	Reference	87.0	19	5.0	81.4	8	11	60.0	0.95
conwc01	5/10/04	Reference	74.5	15	6.3	87.6	3	8	75.0	0.83
cosco01	5/11/04	Reference	67.9	16	5.9	67.7	3	9	52.9	0.78
cowc301	5/10/04	Reference	85.3	19	5.0	89.2	6	10	70.0	1.00
ju1tr01	5/6/02	Reference	69.3	16	5.9	63.1	4	8	58.8	0.77
juben01	5/3/02	Reference	88.7	23	11.5	76.5	7	14	61.5	1.08
juduc01	5/8/02	Stressed	14.2	6	50.0	1.4	1	1	16.7	0.23
juduc01	5/8/02	Stressed	16.0	9	40.0	0.8	0	2	6.7	0.37
juduc01	5/13/04	Stressed	17.3	6	57.1	1.5	3	1	21.4	0.40
jufis01	5/6/02	Class 1	57.6	19	9.5	36.7	1	7	57.1	0.98
jufis01	5/6/02	Class 1	56.1	15	11.8	33.2	2	7	58.8	0.77
jujor01	5/13/03	Stressed	32.3	10	33.3	17.0	1	3	40.0	0.53
julak01	5/15/04	Class 1	88.7	20	16.7	90.0	8	13	62.5	
jumcg01	5/5/02	Reference	83.4	18	5.3	79.5	7	10	63.2	0.80
jumcg01	5/14/03	Reference	65.7	15	11.8	85.7	2	6	64.7	
jumcg01	5/14/03	Reference	83.0	15	6.3	92.8	5	11	75.0	0.78
jumcg01	5/13/04	Reference	72.5	15	21.1	91.3	4	10	63.2	0.98
jumlt01	5/5/02	Reference	86.8	24	7.7	75.9	6	12	65.4	1.23
jumon01	5/5/02	Reference	82.9	18	5.3	95.3	4	11	73.7	0.81
jumon01	5/14/03	Reference	80.1	17	10.5	92.3	6	9	63.2	0.87
jumon01	5/13/04	Reference	81.3	18	10.0	96.6	6	9	65.0	0.89
jumon01	5/13/04	Reference	76.1	12	0.0	98.9	5	8	66.7	0.63
juped01	5/5/02	Class 2	40.8	13	23.5	35.1	1	3	41.2	0.68
jupet01	5/6/02	Reference	58.9	18	10.0	39.8	2	6	60.0	0.92
jusal01	5/14/04	Class 1	78.0	18	10.0	84.7	5	10	60.0	
jusaw01	5/3/02	Reference	72.1	17	10.5	71.1	4	8	68.4	0.87
jusbc01	5/3/02	Reference	68.5	18	21.7	75.0	4	8	60.9	1.05
jusmt01	5/3/02	Reference	67.7	16	5.9	69.8	2	7	70.6	0.84
juste01	5/15/04	Class 1	79.2	27	10.0	64.4	6	9	56.7	1.18
juvan01	5/13/03	Class 1	43.7	14	22.2	16.9	2	6	38.9	0.67
kagun01	5/4/04	Class 2	96.7	22	0.0	91.4	8	13	77.3	1.01
kaptm01	5/5/04	Class 2	62.2	17	15.0	45.1	3	9	55.0	0.96

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kaptw01	5/14/04	Class 2	86.3	22	15.4	86.6	7	12	61.5	1.05
kasit01	5/5/04	Class 2	85.8	18	5.3	91.5	6	10	73.7	0.99
kaslo01	5/5/04	Class 2	83.7	21	4.6	72.4	6	12	59.1	0.98
kaslo01	5/5/04	Class 2	89.2	22	4.4	87.6	6	11	73.9	1.09
kathr03	5/5/04	Reference	70.8	17	19.1	66.9	5	10	57.1	0.85
kefac01	5/1/02	Stressed	28.5	11	35.3	13.4	0	4	29.4	0.60
kehoa01	5/1/02	Class 2	69.9	16	5.9	63.7	3	8	70.6	0.78
keket01	5/1/02	Class 1	46.8	12	20.0	41.5	2	4	46.7	0.70
kelun01	4/30/02	Reference	75.0	19	9.5	72.8	4	10	61.9	0.96
kesch01	5/1/02	Reference	90.3	23	8.0	84.7	7	12	68.0	1.16
kewar01	4/30/02	Class 2	52.8	13	18.8	44.8	2	7	50.0	0.76
kewhi01	5/1/02	Class 2	85.3	19	5.0	89.7	6	9	75.0	0.88
kewhi01	5/1/02	Class 2	84.0	21	4.6	79.5	5	10	81.8	0.99
pe3lc01	5/10/03	Class 2	68.0	17	15.0	72.6	4	7	60.0	0.93
pe3lu01	5/10/03	Reference	74.8	20	16.7	74.4	5	9	62.5	1.14
peccc01	5/9/03	Class 2	76.6	21	12.5	55.3	6	10	62.5	1.06
pedum01	5/9/03	Stressed	57.1	7	22.2	89.2	2	5	66.7	0.42
peefh01	5/10/03	Reference	90.2	24	7.7	76.7	6	13	76.9	1.30
peefm01	5/3/04	Reference	83.9	16	0.0	85.4	6	10	75.0	0.71
peefm01	5/3/04	Reference	91.4	26	7.1	82.3	7	12	67.9	1.14
peest01	5/12/03	Reference	85.0	25	13.8	73.1	5	13	69.0	1.42
pefal01	5/10/03	Class 2	77.0	20	16.7	78.4	6	10	54.2	1.26
pefal01	5/10/03	Class 2	87.8	21	4.6	78.6	6	12	72.7	1.11
pefre01	5/8/03	Reference	95.6	26	10.3	92.2	7	15	72.4	1.42
pehw701	5/10/03	Class 1	82.8	20	13.0	90.4	5	11	69.6	1.14
peseo01	5/9/03	Reference	83.5	19	9.5	85.1	6	10	71.4	0.91
pesfs01	5/9/03	Reference	86.5	24	14.3	80.7	5	14	67.9	1.22
pesfs01	5/9/03	Reference	85.3	21	12.5	85.0	5	13	70.8	1.12
pesko01	5/11/03	Reference	82.2	23	11.5	75.3	5	13	57.7	1.17
pewn101	5/11/03	Reference	65.9	16	15.8	80.2	3	8	52.6	0.90
pewsc01	5/3/04	Reference	80.2	15	6.3	83.5	5	10	75.0	0.86
pewsc01	5/3/04	Reference	77.8	21	12.5	78.5	4	11	62.5	1.13
pwand01	4/27/02	Class 1	72.7	21	16.0	49.3	5	10	64.0	1.13
pwand01	4/26/03	Class 1	45.0	12	20.0	23.3	2	4	53.3	0.81
pwand01	4/28/04	Class 1	31.8	8	33.3	17.9	0	5	41.7	0.43
pwbra01	5/2/03	Class 2	63.3	19	13.6	53.3	2	9	54.6	1.02
pwcab01	4/22/02	Class 2	66.3	20	13.0	50.3	3	10	52.2	1.08
pwcha01	5/7/04	Reference	89.1	22	12.0	76.9	7	13	72.0	
pwdee01	4/26/02	Stressed	80.6	21	8.7	78.2	5	11	60.9	0.95
pwdit01	5/1/03	Stressed	59.5	15	16.7	84.5	2	5	50.0	0.80
pwenf01	5/4/03	Class 2	71.3	20	9.1	58.5	3	9	68.2	1.07
pwfal01	4/25/02	Class 1	60.6	15	11.8	52.2	2	9	52.9	0.78
pwfub01	4/22/02	Class 2	68.2	15	0.0	85.2	2	6	66.7	0.78
pwhar01	4/22/02	Class 2	70.4	18	14.3	88.2	3	10	47.6	1.03
pwlav01	4/25/02	Class 2	79.4	18	5.3	92.8	4	9	68.4	0.86
pwlei01	4/30/03	Reference	70.2	17	19.1	76.0	4	9	61.9	0.91
pwlei01	4/30/03	Reference	85.4	22	4.4	76.6	5	12	69.6	1.00
pwlino1	5/1/04	Stressed	80.2	18	10.0	84.7	5	9	75.0	0.95
pwikt01	4/28/02	Reference	65.7	19	13.6	69.0	2	7	63.6	0.98

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pwlkt01	4/27/03	Reference	69.2	20	9.1	80.6	2	9	50.0	0.97
pwlkt01	4/26/04	Reference	71.0	23	17.9	65.2	3	11	53.6	1.22
pwlra01	5/2/03	Class 2	81.9	25	10.7	64.5	7	11	50.0	1.35
pwluc01	5/2/03	Class 2	71.6	21	12.5	62.7	4	9	58.3	1.30
pwmb01	4/23/02	Class 2	64.3	15	11.8	59.4	3	6	70.6	0.81
pwmcg01	4/26/03	Reference	68.2	16	11.1	85.7	2	7	66.7	0.97
pwmcg01	4/27/04	Reference	76.5	18	14.3	81.5	6	10	52.4	1.08
pwnau01	4/24/02	Class 2	60.8	16	15.8	38.9	3	10	52.6	0.86
pwncb01	4/29/04	Reference	68.8	17	22.7	75.7	4	11	50.0	1.03
pwncs01	4/29/03	Reference	67.8	18	18.2	71.7	5	9	40.9	0.99
pwnew01	4/23/02	Reference	73.0	20	13.0	53.9	5	10	60.9	0.96
pwnew01	5/1/03	Reference	73.5	13	7.1	72.7	5	8	71.4	0.67
pwnew01	5/1/04	Reference	83.8	20	4.8	85.8	5	11	66.7	0.91
wpau01	4/2/04	Reference	68.7	21	8.7	65.2	2	9	56.5	0.99
wpig01	4/28/02	Reference	56.4	16	23.8	65.7	3	6	42.9	1.02
wpig01	4/28/04	Reference	77.1	18	14.3	91.2	5	9	61.9	1.03
wpig01	4/27/03	Reference	78.8	19	5.0	71.0	5	10	65.0	0.86
wpoo01	4/26/04	Class 2	78.6	21	8.7	92.1	5	8	56.5	1.02
pwrib01	4/23/02	Class 2	86.2	23	11.5	82.8	5	13	69.2	1.18
pwrib01	4/23/02	Class 2	87.4	22	12.0	88.8	5	14	68.0	1.24
pwrir01	4/23/02	Class 1	88.2	25	7.4	80.3	6	11	70.4	1.23
pwsal01	4/26/02	Class 2	66.1	19	9.5	72.7	2	6	61.9	1.11
pwsal01	4/29/04	Class 2	67.9	15	11.8	82.5	4	7	52.9	0.85
pwsca01	4/3/04	Class 1	88.4	24	11.1	89.6	6	14	55.6	1.11
pwsha01	4/24/02	Class 2	73.3	18	5.3	45.5	4	11	68.4	0.92
pwsli01	4/26/02	Class 2	78.3	20	4.8	74.6	5	9	61.9	0.91
pwslt01	4/27/02	Reference	70.9	17	10.5	77.3	4	7	63.2	0.86
pwslt01	4/26/03	Reference	71.7	18	10.0	75.8	5	7	55.0	0.77
pwslt01	4/28/04	Reference	87.0	22	8.3	90.6	6	11	66.7	1.07
pwson01	5/1/04	Class 2	73.9	16	11.1	87.9	4	8	66.7	0.78
pwssl01	4/26/03	Reference	76.6	18	18.2	86.8	5	9	68.2	0.94
pwssl01	4/27/04	Reference	92.2	20	9.1	83.1	8	14	68.2	0.95
pwsta01	4/4/02	Class 2	72.2	21	12.5	56.0	3	13	54.2	1.19
pwsun01	4/29/03	Reference	56.9	14	26.3	68.4	3	7	47.4	1.02
pwtom01	4/30/03	Reference	53.9	13	27.8	72.7	2	6	50.0	0.96
pwukt01	4/28/02	Class 1	57.6	16	15.8	66.7	3	5	42.1	
pwukt01	4/27/03	Class 1	79.2	18	5.3	91.0	4	9	68.4	
pwush08	4/30/04	Reference	92.4	20	0.0	81.3	8	12	75.0	0.71
pwwnt01	4/25/02	Class 2	74.8	21	12.5	65.9	5	11	50.0	1.24
pwyat01	4/24/02	Class 2	72.8	21	12.5	73.8	3	10	58.3	1.06
siefi01	5/8/04	Reference	80.5	17	5.6	79.7	5	11	66.7	0.89
sigra01	5/9/04	Class 2	66.3	14	12.5	86.4	3	7	56.3	0.55
siher01	5/7/04	Reference	85.4	19	17.4	85.2	8	12	60.9	1.10
simed01	5/7/04		31.9	10	16.7	4.2	2	3	16.7	0.57
sisaw02	5/7/04	Class 1	62.8	12	14.3	69.5	3	8	57.1	
sista01	5/9/04	Class 2	72.3	14	12.5	86.2	4	8	68.8	0.73
sitir01	5/10/04	Reference	66.1	21	12.5	50.4	3	8	58.3	1.26
siwfi01	5/8/04	Reference	84.4	17	10.5	82.8	6	12	73.7	0.96
siwri01	5/8/04	Class 2	41.0	9	30.8	32.3	2	5	46.2	0.48

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wrana01	5/7/03	Reference	66.3	17	15.0	53.2	2	12	60.0	0.72
wrcrt01	5/6/04	Reference	87.8	25	7.4	82.9	5	12	70.4	1.34
wrefa01	5/7/03	Reference	83.4	23	23.3	76.0	6	14	63.3	1.34
wrefc01	5/6/03	Reference	80.9	19	13.6	79.4	4	13	72.7	0.98
wrgla01	5/6/03	Reference	62.1	21	8.7	47.5	2	7	52.2	1.14
wrmar01	5/7/03	Reference	81.3	21	4.6	75.9	4	13	59.1	1.08
wrmcc01	5/5/04	Class 2	89.2	21	8.7	88.8	6	14	65.2	1.13
wrmcc01	5/5/04	Class 2	84.7	20	9.1	90.4	5	11	72.7	1.02
wrpat01	5/5/03	Class 2	71.9	14	6.7	86.5	3	7	73.3	1.07
wrpat01	5/5/03	Class 2	75.1	21	12.5	80.3	4	10	54.2	0.71
wrpor01	5/6/03	Reference	70.1	17	10.5	72.8	4	8	57.9	0.98
wrskc01	5/5/03	Class 2	75.6	20	9.1	64.1	4	10	68.2	0.97
wrskn01	5/5/03	Class 1	91.0	24	11.1	67.2	8	14	66.7	1.26
wrtom01	5/7/03	Reference	71.0	19	17.4	70.3	4	10	56.5	0.98
wrunm01	5/7/03	Class 1	79.4	19	9.5	93.3	4	9	71.4	0.81