	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	**FOOD WEB (PRG) MODEL REQUIRED INPUTS**																	
2	**PARAMETER DESCRIPTION**	**Symbol**	**Units**	**General**	**PHY (2)**	**ZOO (3)**	**BIF (4)**	**BIC (5)**	**EIC (6)**	**SCL (7)**	**LSS (8)**	**CAR (9)**	**SMB (10)**	**NPM (11)**				
3	**Physical / Chemical Parameters**																	
4	Octanol-water partition coefficient	KOW	kg/L	6.58	Kow - chemical specific													
5	Organic carbon content of sediment	OCSS	unitless	0.017137207	Windward 2005													
6	Henry's Law constant	H	Pa.m3/mol	1	Value cancels out						Chemical-specific parameter							
7	Mean water temperature	TW	C	13.69418928	ODEQ data - year round						Calibrated non-chemical-specific parameter							
8	Concentration of suspended soilds	CPW	kg/L	1.40E-05	Windward 2005 Peristaltic pump data near bottom only													
9	Concentration in water (filtered water)	CWT	ng/L	5.10E-07	Windward 2005- column data only - chemical specific													
10	Bioavailable concentration in water	CWB	ng/g	**3.65E-10**	model calculation- based on column water data and DOC													
11	Concentration in sediment solids	CST	ng/g	2.3404E-05	SWAC -Windward - chemical specific													
12	Concentration in sediment porewater	CSD	ng/g	**1.03E-09**	model calculation													
13	Density of sediment OC	DOCS	kg/L	1	Previous model used value of 0.9- Susie says we should elimin													
14																		
15	**Bioavailable Fraction Parameters**																	
16	Particulate OC concentration in water	XPOC	kg/L	0	NOT USED IN MODEL													
17	POC proportionality constant	aPOC	unitless	0	NOT USED IN MODEL													
18	Dissolved OC concentration in water	XDOC	kg/L	1.31E-06	Peristaltic pump sample data from 3 integrated transects													
19	DOC proportionality constant	aDOC	unitless	0	NOT USED IN MODEL													
20	Bioavailable solute fraction	BSF	unitless	0														
39												**Chemical:**	2,3,4,7,8-PCDF					
40	**Organism-Specific Rate Constants**											**Model run:**	47940					
41	Growth rate constant	KG	1/d		0.093635253													
42	Metabolic rate constant	KM	1/d			0	0.095	0.095	0.095	0.024	0.024	0.024	0.024	0.024				
43																		
44					**PHY (2)**	**ZOO (3)**	**BIF (4)**	**BIC (5)**	**EIC (6)**	**SCL (7)**	**LSS (8)**	**CAR (9)**	**SMB (10)**	**NPM (11)**				
45	**Tissue Concentration Outputs**	CB	ug/kg		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
46	**Measured tissue concentration**		ug/kg				0.000759		0.00167	0.00211		0.00243	0.00548					

Cell: E45
Comment: Forecast: CB phy

Cell: F45
Comment: Forecast: CB zoo

Cell: G45
Comment: Forecast: CB BIF

Cell: H45
Comment: Forecast: CB BIC

Cell: I45
Comment: Forecast: CB EIC

Cell: J45
Comment: Forecast: CB scl

Cell: K45
Comment: Forecast: CB lss

Cell: L45
Comment: Forecast: CB car

Cell: M45
Comment: Forecast: CB smb

Cell: N45
Comment: Forecast: CB npm

	A	B	C	D	E	F	G	H	I	J	K	L
1	**PREY > PREDATOR**	**(1) Sediment solids (particles)**	**(2) Phytoplankton**	**(3) Zooplankton**	**(4) Benthic invertebrate (filter feeder)**	**(5) Benthic invertebrate (consumer)**	**(6) Epibenthic invertebrate (consumer)**	**(7) Sculpin (forage)**	**(8) Largescale sucker (benthivore)**	**(9) Carp (omnivore)**	**(10) Smallmouth bass (sml piscv)**	**(11) Northern pikeminnow (lrg piscv)**
2	**(1) Sediment solids (particles)**											
3	**(2) Phytoplankton**											
4	**(3) Zooplankton**		**1.00**									
5	**(4) Benthic invertebrate (filter feeder)**	**0.779**	**0.221**									
6	**(5) Benthic invertebrate (consumer)**	**0.909**	**0.091**									
7	**(6) Epibenthic invertebrate (consumer)**	**0.0241**	**0.1137**	**0.175**	**0.219**	**0.467**						
8	**(7) Sculpin (forage)**	**0.03324**	**0**	**0.02738**	**0.3249**	**0.528**	**0.0866**					
9	**(8) Largescale sucker (benthivore)**	**0.1486**	**0.150**	**0.1960**	**0.073**	**0.268**	**0.165**	**0**				
10	**(9) Carp (omnivore)**	**0.0417**	**0.335**	**0**	**0.142**	**0.481**	**0**	**0**	**0**			
11	**(10) Smallmouth bass (sml piscv)**	**0**	**0**	**0**	**0**	**0.2439**	**0.170**	**0.586**	**0**	**0**		
12	**(11) Northern pikeminnow (lrg piscv)**	**0**	**0.0847**	**0**	**0.0558**	**0.355**	**0.295**	**0.209**	**0**	**0**	**0**	

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Work Product Prepared in Anticipation of Litigation

Parameter Type	Parameter Description	Symbol	Units		2,3,4,7,8-PCDF
Chemical-specific	Octanol-water partition coefficient	KOW	kg/L		6.95
Chemical-specific	Concentration in water (filtered water)	CWT	ng/L		0.00000519
Chemical-specific	Concentration in sediment solids	CST	ng/g		0.0115
Org. rate constants	BIF - Metabolic rate constant	BIF-KM	1/d		0
Org. rate constants	BIC - Metabolic rate constant	BIC-KM	1/d		0
Org. rate constants	EIC - Metabolic rate constant	EIC-KM	1/d		0
Org. rate constants	SCL - Metabolic rate constant	SCL-KM	1/d		0.03
Org. rate constants	LSS - Metabolic rate constant	LSS-KM	1/d		0.03
Org. rate constants	CAR - Metabolic rate constant	CAR-KM	1/d		0.03
Org. rate constants	SMB - Metabolic rate constant	SMB-KM	1/d		0.03
Org. rate constants	NPM - Metabolic rate constant	NPM-KM	1/d		0.03
Empirical data	BIF concentration (clam)	BIF	µg/kg ww		0.000759
Empirical data	EIC concentration (crayfish)	EIC	µg/kg ww		0.00167
Empirical data	SCL concentration (sculpin)	SCL	µg/kg ww		0.00211
Empirical data	LSS concentration (largescale sucker)	LSS	µg/kg ww		
Empirical data	CAR concentration (carp)	CAR	µg/kg ww		0.00243
Empirical data	SMB concentration (smallmouth bass)	SMB	µg/kg ww		0.00548
Empirical data	NPM concentration (northern pikeminnow)	NPM	µg/kg ww		

Parameter Type	Parameter Description	Symbol	Units	47940
Physical / Chemical	Organic carbon content of sediment	OCSS	unitless	0.0171
Physical / Chemical	Mean water temperature	TW	C	13.69418928
Physical / Chemical	Concentration of suspended soilds	CPW	kg/L	1.40E-05
Bioavailable Fraction	Dissolved OC concentration in water	XDOC	kg/L	1.31E-06
PHY-specific biological	Lipid fraction of organism	PHY-VLB	fraction	0.001225109
PHY-specific biological	Water content fraction of organism	PHY-VWB	fraction	0.947163613
PHY-specific biological	Growth rate constant	PHY-KG	1/d	0.093635253
ZOO-specific biological	Weight	ZOO-WB	kg	1.7E-07
ZOO-specific biological	Lipid fraction of organism	ZOO-VLB	fraction	0.010725222
ZOO-specific biological	Water content fraction of organism	ZOO-VWB	fraction	0.820237252
BIF-specific biological	Weight	BIF-WB	kg	0.001257289
BIF-specific biological	Lipid fraction of organism	BIF-VLB	fraction	0.022248037
BIF-specific biological	Water content fraction of organism	BIF-VWB	fraction	0.863274083
BIF-specific biological	Fraction of pore water ventilated	BIF-FPW	unitless	0.052688338
BIC-Specific Biological	Weight	BIC-WB	kg	4.80E-06
BIC-Specific Biological	Lipid fraction of organism	BIC-VLB	fraction	0.014234069
BIC-Specific Biological	Water content fraction of organism	BIC-VWB	fraction	0.803522652
BIC-Specific Biological	Fraction of pore water ventilated	BIC-FPW	unitless	0.069502945
EIC-Specific Biological	Weight	EIC-WB	kg	0.043831184
EIC-Specific Biological	Lipid fraction of organism	EIC-VLB	fraction	0.007624181
EIC-Specific Biological	Water content fraction of organism	EIC-VWB	fraction	0.737757493
EIC-Specific Biological	Fraction of pore water ventilated	EIC-FPW	unitless	0.027600468
SCL-Specific Biological	Weight	SCL-WB	kg	0.019973073
SCL-Specific Biological	Lipid fraction of organism	SCL-VLB	fraction	0.041589067
SCL-Specific Biological	Water content fraction of organism	SCL-VWB	fraction	0.751342484
SCL-Specific Biological	Fraction of pore water ventilated	SCL-FPW	unitless	0.044743776
LSS-Specific Biological	Weight	LSS-WB	kg	0.803933281
LSS-Specific Biological	Lipid fraction of organism	LSS-VLB	fraction	0.073320748
LSS-Specific Biological	Water content fraction of organism	LSS-VWB	fraction	0.71364571
CAR-Specific Biological	Weight	CAR-WB	kg	2.504577005
CAR-Specific Biological	Lipid fraction of organism	CAR-VLB	fraction	0.093503651
CAR-Specific Biological	Water content fraction of organism	CAR-VWB	fraction	0.684286952
SMB-Specific Biological	Weight	SMB-WB	kg	0.352442399
SMB-Specific Biological	Lipid fraction of organism	SMB-VLB	fraction	0.050655622
SMB-Specific Biological	Water content fraction of organism	SMB-VWB	fraction	0.71357333
NPM-Specific Biological	Weight	NPM-WB	kg	0.598644014
NPM-Specific Biological	Lipid fraction of organism	NPM-VLB	fraction	0.063093672
NPM-Specific Biological	Water content fraction of organism	NPM-VWB	fraction	0.712772706
BIF prey (lower grid)	BIF consumption of SED	BIF-SED	fraction	0.779283649
BIC prey (lower grid)	BIC consumption of SED	BIC-SED	fraction	0.909489056
EIC prey (lower grid)	EIC consumption of SED	EIC-SED	fraction	0.026865433
EIC prey (lower grid)	EIC consumption of PHY	EIC-PHY	fraction	0.126584093
EIC prey (lower grid)	EIC consumption of ZOO	EIC-ZOO	fraction	0.195417815
EIC prey (lower grid)	EIC consumption of BIF	EIC-BIF	fraction	0.244261263
EIC prey (lower grid)	EIC consumption of BIC	EIC-BIC	fraction	0.520593241
SCL prey (lower grid)	SCL consumption of SED	SCL-SED	fraction	0.031245268
SCL prey (lower grid)	SCL consumption of ZOO	SCL-ZOO	fraction	0.025735855
SCL prey (lower grid)	SCL consumption of BIF	SCL-BIF	fraction	0.305400163
SCL prey (lower grid)	SCL consumption of BIC	SCL-BIC	fraction	0.496355823
SCL prey (lower grid)	SCL consumption of EIC	SCL-EIC	fraction	0.081368699
LSS prey (lower grid)	LSS consumption of SED	LSS-SED	fraction	0.141938177
LSS prey (lower grid)	LSS consumption of PHY	LSS-PHY	fraction	0.143035269
LSS prey (lower grid)	LSS consumption of ZOO	LSS-ZOO	fraction	0.187168984

LSS prey (lower grid)	LSS consumption of BIF	LSS-BIF	fraction	0.069939898
LSS prey (lower grid)	LSS consumption of BIC	LSS-BIC	fraction	0.255575726
LSS prey (lower grid)	LSS consumption of EIC	LSS-EIC	fraction	0.157198082
CAR prey (lower grid)	CAR consumption of SED	CAR-SED	fraction	0.041259298
CAR prey (lower grid)	CAR consumption of PHY	CAR-PHY	fraction	0.331306263
CAR prey (lower grid)	CAR consumption of BIF	CAR-BIF	fraction	0.140932977
CAR prey (lower grid)	CAR consumption of BIC	CAR-BIC	fraction	0.475563289
SMB prey (lower grid)	SMB consumption of BIC	SMB-BIC	fraction	0.273523362
SMB prey (lower grid)	SMB consumption of EIC	SMB-EIC	fraction	0.190610894
SMB prey (lower grid)	SMB consumption of SCL	SMB-SCL	fraction	0.657263522
NPM prey (lower grid)	NPM consumption of PHY	NPM-PHY	fraction	0.094252314
NPM prey (lower grid)	NPM consumption of BIF	NPM-BIF	fraction	0.062163687
NPM prey (lower grid)	NPM consumption of BIC	NPM-BIC	fraction	0.394738166
NPM prey (lower grid)	NPM consumption of EIC	NPM-EIC	fraction	0.328819639
NPM prey (lower grid)	NPM consumption of SCL	NPM-SCL	fraction	0.23308087

Changed from R2?	Uncalibrated Values	Parameter Name	47884	15322	22032
yes	0.0171	012 Sediment OC	0.0171	0.0174	0.0167
yes	13.9	013 Water temp	10.6	12.5	13.9
yes	0.0000113	014 Conc suspended solids	2.33E-05	1.43E-05	1.47E-05
yes	0.00000138	016 XDOC	1.44E-06	1.46E-06	1.40E-06
no	0.00123	022 PHY lipids	0.00131	0.00153	0.00122
no	0.955	023 PHY moisture	0.956	0.946	0.973
no	0.08	024 PHY growth rate	0.07	0.06	0.12
no	0.00000014	031 ZOO weight	1.3E-07	1.3E-07	1.8E-07
no	0.01	032 ZOO lipids	0.009	0.010	0.010
no	0.9	033 ZOO moisture	0.91	0.87	0.88
yes	0.00125	041 BIF weight	0.00124	0.00127	0.00127
yes	0.022	042 BIF lipids	0.02078	0.02242	0.02100
yes	0.86	043 BIF moisture	0.863	0.857	0.866
no	0.05	044 BIF pw ventilation	0.07	0.10	0.02
no	0.00000533	051 BIC weight	2.47E-06	4.88E-06	4.08E-06
no	0.015	052 BIC Lipids	0.023	0.034	0.020
no	0.8	053 BIC Moisture	0.79	0.74	0.81
no	0.05	054 BIC pw ventilation	0.01	0.02	0.02
yes	0.0435	061 EIC Weight	0.0442	0.0440	0.0431
yes	0.0078	062 EIC lipids	0.00766	0.00765	0.00753
yes	0.74	063 EIC moisture	0.743	0.735	0.738
no	0.05	064 EIC pw ventilation	0.07	0.09	0.09
yes	0.0196	071 SCL Weight	0.01970	0.01962	0.02027
yes	0.041	072 SCL lipids	0.0414	0.0403	0.0443
yes	0.75	073 SCL moisture	0.752	0.753	0.749
no	0.05	074 SCL pw ventilation	0.04	0.06	0.06
no	0.794	081 LSS Weight	0.7959	0.7867	0.7999
no	0.076	082 LSS lipids	0.0868	0.0741	0.0833
no	0.71	083 LSS moisture	0.700	0.712	0.701
yes	2.48	091 CAR Weigth	2.68	2.53	2.45
yes	0.088	092 CAR lipids	0.0904	0.0907	0.0928
yes	0.69	093 CAR Moisture	0.687	0.691	0.687
yes	0.395	101 SMB Weight	0.3195	0.4718	0.3573
yes	0.054	102 SMB lipids	0.0484	0.0545	0.0561
yes	0.71	103 SMB moisture	0.716	0.710	0.706
no	0.558	111 NPM Weight	0.584	0.486	0.590
no	0.053	112 NPM lipids	0.065	0.050	0.051
no	0.719	113 NPM moisture	0.701	0.718	0.720
no	0.7	600 BIF-sed	0.63	0.59	0.78
no	0.95	610 BIC-sed	0.88	0.99	0.90
no	0.02	620 EIC-sed	0.02	0.02	0.01
no	0.1	621 EIC-PHY	0.14	0.14	0.12
no	0.1	622 EIC-ZOO	0.02	0.16	0.12
no	0.18	623 EIC-BIF	0.23	0.17	0.24
no	0.6	624 EIC-BIC	0.65	0.59	0.45
no	0	630 SCL-sed	0.05	0.04	0.03
no	0	632 SCL-ZOO	0.04	0.04	0.01
yes	0.15	633 SCL-BIF	0.27	0.41	0.33
yes	0.8	634 SCL-BIC	0.61	0.35	0.63
no	0.05	635 SCL-EIC	0.04	0.02	0.01
no	0.05	640 LSS-sed	0.06	0.02	0.13
no	0.25	641 LSS-PHY	0.19	0.32	0.12
no	0.15	642 LSS-ZOO	0.18	0.25	0.24

no	0.1	643 LSS-BIF	0.06	0.11	0.11
no	0.25	644 LSS-BIC	0.27	0.33	0.31
no	0.2	645 LSS-EIC	0.02	0.33	0.13
no	0.05	650 CAR-sed	0.05	0.07	0.03
no	0.45	651 CAR-PHY	0.30	0.33	0.35
no	0.1	653 CAR-BIF	0.12	0.09	0.05
no	0.4	654 CAR-BIC	0.42	0.40	0.47
no	0.05	664 SMB-BIC	0.22	0.22	0.29
no	0.05	665 SMB-EIC	0.22	0.02	0.17
no	0.9	666 SMB-SCL	0.63	0.65	0.64
yes	0.04	671 NPM-PHY	0.02	0.01	0.09
yes	0.05	673 NPM-BIF	0.10	0.06	0.00
yes	0.26	674 NPM-BIC	0.34	0.31	0.29
yes	0.4	675 NPM-EIC	0.60	0.49	0.45
yes	0.25	676 NPM-SCL	0.43	0.19	0.13

573	44233	42471	45632	47940	27979	37975	38521	32240	39172
0.0171	0.0171	0.0173	0.0169	0.0171	0.0172	0.0174	0.0171	0.0166	0.0168
12.3	13.1	12.7	12.8	13.7	12.3	14.8	15.2	12.5	13.1
1.84E-05	1.33E-05	2.04E-05	1.49E-05	1.40E-05	3.60E-06	1.79E-05	1.33E-05	1.58E-05	1.91E-05
1.32E-06	1.40E-06	1.38E-06	1.34E-06	1.31E-06	1.43E-06	1.42E-06	1.41E-06	1.36E-06	1.45E-06
0.00154	0.00152	0.00181	0.00138	0.00123	0.00123	0.00166	0.00183	0.00125	0.00145
0.984	0.959	0.989	0.971	0.947	0.983	0.979	0.951	0.980	0.979
0.11	0.07	0.07	0.08	0.09	0.08	0.08	0.09	0.05	0.06
7.6E-08	8.9E-08	1.8E-07	1.5E-07	1.7E-07	1.6E-07	1.2E-07	9.7E-08	1.2E-07	1.4E-07
0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.009
0.91	0.88	0.96	0.87	0.82	0.93	0.94	0.96	0.94	0.89
0.00123	0.00125	0.00120	0.00124	0.00126	0.00127	0.00125	0.00128	0.00125	0.00122
0.02185	0.02203	0.02375	0.02379	0.02225	0.02280	0.02204	0.02223	0.02327	0.02359
0.860	0.861	0.857	0.857	0.863	0.857	0.861	0.858	0.854	0.855
0.05	0.09	0.05	0.02	0.05	0.10	0.10	0.06	0.08	0.09
4.86E-06	2.27E-06	4.30E-06	3.07E-06	4.80E-06	2.93E-06	4.73E-06	1.98E-06	3.77E-06	4.71E-06
0.011	0.017	0.025	0.020	0.014	0.041	0.035	0.023	0.019	0.015
0.80	0.84	0.79	0.87	0.80	0.85	0.81	0.76	0.83	0.88
0.06	0.09	0.09	0.04	0.07	0.02	0.05	0.01	0.03	0.09
0.0436	0.0435	0.0426	0.0438	0.0438	0.0440	0.0427	0.0431	0.0444	0.0431
0.00866	0.00750	0.00779	0.00805	0.00762	0.00702	0.00820	0.00782	0.00721	0.00792
0.736	0.738	0.742	0.738	0.738	0.738	0.742	0.737	0.739	0.743
0.04	0.01	0.04	0.07	0.03	0.10	0.05	0.04	0.08	0.06
0.01915	0.01995	0.01940	0.01961	0.01997	0.01961	0.01984	0.01924	0.02032	0.02010
0.0422	0.0417	0.0386	0.0428	0.0416	0.0398	0.0395	0.0398	0.0426	0.0410
0.748	0.745	0.753	0.745	0.751	0.752	0.751	0.750	0.749	0.751
0.09	0.03	0.03	0.04	0.04	0.04	0.02	0.07	0.07	0.07
0.8049	0.8191	0.7880	0.7906	0.8039	0.8052	0.7850	0.7858	0.7902	0.7891
0.0748	0.0796	0.0757	0.0924	0.0733	0.0667	0.0799	0.0778	0.0743	0.0800
0.710	0.705	0.713	0.695	0.714	0.719	0.707	0.713	0.716	0.707
2.45	2.48	2.53	2.36	2.50	2.54	2.36	2.39	2.41	2.42
0.0676	0.0933	0.0923	0.0927	0.0935	0.0885	0.0868	0.0865	0.0932	0.0897
0.707	0.685	0.687	0.685	0.684	0.688	0.692	0.692	0.685	0.686
0.3792	0.6882	0.2927	0.3360	0.3524	0.4282	0.1719	0.2980	0.5905	0.3273
0.0532	0.0543	0.0499	0.0512	0.0507	0.0541	0.0551	0.0519	0.0508	0.0484
0.711	0.710	0.712	0.716	0.714	0.710	0.710	0.709	0.717	0.711
0.680	0.540	0.550	0.589	0.599	0.615	0.531	0.568	0.623	0.597
0.070	0.043	0.052	0.060	0.063	0.051	0.045	0.063	0.047	0.041
0.692	0.729	0.722	0.725	0.713	0.717	0.727	0.716	0.730	0.731
0.74	0.71	0.64	0.63	0.78	0.68	0.70	0.69	0.66	0.66
0.91	0.86	0.99	0.92	0.91	0.92	0.87	0.91	0.90	0.98
0.01	0.02	0.02	0.03	0.03	0.00	0.02	0.03	0.03	0.02
0.10	0.09	0.19	0.17	0.13	0.08	0.10	0.06	0.16	0.13
0.07	0.07	0.04	0.11	0.20	0.13	0.16	0.10	0.19	0.03
0.26	0.14	0.27	0.21	0.24	0.30	0.34	0.17	0.11	0.15
0.35	0.52	0.52	0.64	0.52	0.63	0.72	0.65	0.73	0.40
0.00	0.03	0.04	0.04	0.03	0.03	0.04	0.02	0.04	0.00
0.03	0.02	0.04	0.05	0.03	0.00	0.03	0.04	0.04	0.00
0.11	0.35	0.33	0.48	0.31	0.48	0.41	0.45	0.44	0.45
0.55	0.75	0.66	0.36	0.50	0.64	0.47	0.38	0.69	0.69
0.00	0.07	0.03	0.05	0.08	0.05	0.07	0.03	0.01	0.01
0.04	0.12	0.12	0.10	0.14	0.10	0.13	0.08	0.11	0.13
0.26	0.08	0.29	0.24	0.14	0.05	0.33	0.25	0.14	0.59
0.13	0.17	0.07	0.08	0.19	0.13	0.13	0.07	0.06	0.15

0.13	0.08	0.11	0.12	0.07	0.14	0.06	0.06	0.12	0.08
0.33	0.17	0.25	0.24	0.26	0.22	0.25	0.26	0.31	0.29
0.09	0.39	0.17	0.25	0.16	0.39	0.06	0.13	0.34	0.10
0.05	0.09	0.09	0.08	0.04	0.04	0.04	0.05	0.05	0.08
0.37	0.55	0.52	0.59	0.33	0.31	0.45	0.31	0.38	0.32
0.10	0.08	0.14	0.08	0.14	0.13	0.09	0.07	0.06	0.15
0.52	0.39	0.45	0.43	0.48	0.52	0.42	0.31	0.25	0.47
0.25	0.20	0.17	0.24	0.27	0.28	0.18	0.28	0.08	0.24
0.13	0.27	0.25	0.28	0.19	0.25	0.23	0.06	0.27	0.16
0.52	0.57	0.51	0.63	0.66	0.88	0.79	0.81	0.67	0.76
0.10	0.03	0.04	0.02	0.09	0.01	0.01	0.05	0.00	0.07
0.08	0.03	0.02	0.08	0.06	0.00	0.03	0.05	0.10	0.05
0.25	0.45	0.41	0.43	0.39	0.15	0.25	0.26	0.21	0.26
0.52	0.58	0.54	0.42	0.33	0.38	0.65	0.47	0.58	0.37
0.56	0.28	0.41	0.30	0.23	0.17	0.55	0.13	0.19	0.31

18393	36602	48362	14424	695	33043	10866	43455	19883	40158
0.0166	0.0174	0.0172	0.0173	0.0172	0.0172	0.0173	0.0174	0.0171	0.0164
12.8	13.1	14.9	14.0	12.7	11.8	12.7	11.8	13.2	11.3
1.11E-05	2.26E-05	2.08E-05	1.67E-05	1.77E-05	1.06E-05	1.82E-05	1.51E-05	1.19E-05	1.00E-05
1.31E-06	1.37E-06	1.36E-06	1.30E-06	1.38E-06	1.36E-06	1.37E-06	1.37E-06	1.31E-06	1.46E-06
0.00131	0.00141	0.00118	0.00119	0.00159	0.00140	0.00118	0.00154	0.00145	0.00173
0.974	0.947	0.989	0.984	0.983	0.960	0.978	0.963	0.950	0.955
0.05	0.05	0.05	0.07	0.07	0.04	0.06	0.07	0.07	0.09
1.1E-07	1.6E-07	7.3E-08	1.8E-07	1.5E-07	9.7E-08	1.1E-07	1.0E-07	1.9E-07	1.7E-07
0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.009	0.010	0.010
0.92	0.91	0.93	0.88	0.88	0.89	0.91	0.97	0.94	0.93
0.00128	0.00126	0.00125	0.00125	0.00122	0.00124	0.00125	0.00126	0.00125	0.00125
0.02140	0.02117	0.02251	0.02356	0.02153	0.02247	0.02073	0.02363	0.02110	0.02287
0.864	0.859	0.862	0.859	0.861	0.861	0.862	0.855	0.862	0.858
0.07	0.06	0.10	0.06	0.07	0.07	0.03	0.05	0.09	0.05
4.53E-06	3.39E-06	3.86E-06	2.80E-06	5.12E-06	2.47E-06	5.85E-06	5.55E-06	4.39E-06	5.33E-06
0.021	0.017	0.037	0.026	0.011	0.024	0.016	0.016	0.017	0.010
0.87	0.82	0.73	0.84	0.76	0.78	0.80	0.84	0.81	0.79
0.06	0.07	0.02	0.07	0.07	0.09	0.07	0.03	0.07	0.05
0.0430	0.0442	0.0445	0.0435	0.0440	0.0441	0.0433	0.0438	0.0440	0.0427
0.00764	0.00784	0.00748	0.00786	0.00787	0.00824	0.00788	0.00800	0.00820	0.00746
0.743	0.743	0.745	0.738	0.742	0.742	0.741	0.739	0.744	0.738
0.09	0.03	0.05	0.04	0.06	0.08	0.08	0.04	0.04	0.08
0.02001	0.01962	0.02002	0.01976	0.01988	0.01945	0.02030	0.01952	0.01966	0.01940
0.0422	0.0425	0.0391	0.0400	0.0422	0.0404	0.0421	0.0417	0.0405	0.0404
0.750	0.746	0.754	0.751	0.749	0.750	0.748	0.749	0.754	0.745
0.06	0.09	0.04	0.07	0.02	0.05	0.03	0.09	0.08	0.10
0.7674	0.7795	0.7867	0.7988	0.7931	0.7911	0.7902	0.8147	0.8074	0.7822
0.0716	0.0772	0.0813	0.0752	0.0763	0.0811	0.0746	0.0736	0.0727	0.0751
0.717	0.711	0.706	0.710	0.709	0.704	0.711	0.711	0.712	0.711
2.47	2.46	2.45	2.47	2.44	2.46	2.40	2.52	2.48	2.48
0.0831	0.0946	0.0755	0.0893	0.0916	0.0936	0.0957	0.0924	0.0828	0.0822
0.694	0.684	0.701	0.687	0.685	0.686	0.683	0.684	0.695	0.694
0.5882	0.6038	0.1602	0.3717	0.1662	0.1736	0.4173	0.4392	0.4152	0.6309
0.0529	0.0533	0.0575	0.0538	0.0526	0.0547	0.0560	0.0510	0.0513	0.0516
0.713	0.710	0.704	0.708	0.716	0.708	0.707	0.711	0.714	0.714
0.514	0.553	0.481	0.569	0.579	0.499	0.516	0.501	0.535	0.435
0.057	0.065	0.048	0.047	0.044	0.055	0.051	0.055	0.051	0.046
0.719	0.718	0.731	0.728	0.734	0.713	0.721	0.713	0.718	0.723
0.72	0.71	0.65	0.62	0.71	0.69	0.75	0.72	0.54	0.77
0.96	0.88	0.87	0.91	0.94	0.98	0.88	0.90	0.92	0.99
0.01	0.01	0.01	0.02	0.02	0.03	0.01	0.02	0.00	0.04
0.03	0.01	0.15	0.15	0.06	0.15	0.12	0.08	0.14	0.16
0.05	0.16	0.13	0.12	0.17	0.10	0.04	0.13	0.04	0.17
0.10	0.34	0.16	0.23	0.32	0.19	0.14	0.32	0.10	0.16
0.50	0.74	0.39	0.32	0.45	0.68	0.66	0.64	0.59	0.73
0.02	0.00	0.01	0.01	0.02	0.04	0.03	0.02	0.00	0.04
0.03	0.01	0.01	0.00	0.02	0.01	0.03	0.02	0.02	0.03
0.42	0.08	0.35	0.39	0.27	0.38	0.41	0.16	0.32	0.49
0.87	0.85	0.66	0.70	0.68	0.72	0.75	0.89	0.28	0.76
0.07	0.02	0.01	0.02	0.03	0.07	0.06	0.04	0.06	0.01
0.07	0.13	0.09	0.01	0.05	0.07	0.10	0.14	0.06	0.13
0.17	0.36	0.33	0.15	0.22	0.36	0.36	0.34	0.58	0.15
0.21	0.13	0.08	0.09	0.15	0.21	0.21	0.11	0.23	0.23

0.10	0.07	0.07	0.10	0.09	0.13	0.09	0.12	0.12	0.13
0.18	0.23	0.24	0.19	0.28	0.31	0.16	0.31	0.31	0.29
0.28	0.34	0.08	0.28	0.16	0.12	0.07	0.00	0.27	0.11
0.07	0.09	0.08	0.02	0.04	0.06	0.00	0.05	0.05	0.01
0.51	0.39	0.40	0.33	0.37	0.49	0.57	0.48	0.45	0.35
0.07	0.14	0.14	0.08	0.07	0.14	0.08	0.13	0.09	0.05
0.32	0.38	0.51	0.34	0.46	0.48	0.40	0.53	0.55	0.41
0.27	0.29	0.17	0.02	0.02	0.15	0.27	0.16	0.21	0.27
0.29	0.10	0.19	0.25	0.21	0.23	0.13	0.27	0.20	0.08
0.62	0.71	0.62	0.58	0.51	0.59	0.58	0.78	0.78	0.69
0.03	0.04	0.06	0.01	0.07	0.10	0.09	0.08	0.00	0.09
0.06	0.04	0.04	0.03	0.03	0.02	0.01	0.09	0.06	0.03
0.21	0.28	0.31	0.32	0.40	0.20	0.28	0.23	0.22	0.27
0.55	0.45	0.59	0.58	0.41	0.45	0.55	0.64	0.28	0.62
0.35	0.05	0.14	0.45	0.46	0.56	0.12	0.47	0.30	0.43

20748	11639
0.0171	0.0172
16.2	14.5
1.66E-05	1.71E-05
1.41E-06	1.50E-06
0.00124	0.00160
0.964	0.961
0.08	0.07
1.4E-07	1.2E-07
0.010	0.010
0.87	0.92
0.00127	0.00124
0.02253	0.02259
0.860	0.859
0.06	0.02
4.39E-06	3.42E-06
0.020	0.026
0.75	0.80
0.05	0.02
0.0422	0.0438
0.00830	0.00786
0.741	0.740
0.07	0.06
0.01962	0.01973
0.0391	0.0402
0.752	0.752
0.06	0.05
0.8014	0.7922
0.0700	0.0765
0.713	0.710
2.46	2.49
0.0978	0.0943
0.683	0.685
0.2910	0.6133
0.0548	0.0510
0.711	0.710
0.546	0.560
0.060	0.036
0.711	0.737
0.78	0.59
0.91	0.92
0.00	0.01
0.05	0.09
0.15	0.00
0.10	0.12
0.60	0.42
0.02	0.00
0.05	0.02
0.43	0.48
0.66	0.80
0.08	0.01
0.03	0.03
0.53	0.14
0.14	0.20

0.12	0.07
0.34	0.22
0.26	0.23
0.07	0.03
0.32	0.44
0.10	0.15
0.44	0.54
0.11	0.13
0.22	0.25
0.74	0.87
0.04	0.04
0.06	0.00
0.34	0.37
0.57	0.35
0.22	0.28