In reference to report:
Mack, T.J., 2009, Assessment of ground-water resources in the Seacoast region of New Hampshire: U.S. Geological Survey Scientific Investigations Report 2008–5222, 188 p., available online at http://pubs.usgs.gov/sir/2008/5222.

Appendix 8. Transient Model Parameter Correlation Coefficient Matrix

Table

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
Ktill	1	-0.208	0.149	-1.53E-2	-0.136	-0.155	-0.539	-0.250	8.44E-2	0.146
	-0.582	-.260	-7.91E-2	9.51E-2	-.103	-.197	-7.49E-2	.216	0.137	-5.23E-2
	-9.78E-2	-3.64E-2	-6.40E-2	2.77E-2	-.176	.102	7.29E-2	-6.13E-2	5.04E-2	.136
	.155	.184	7.85E-2	5.00E-2	-8.66E-2	-.132	-1.90E-2	1.36E-2	.106	-7.70E-2
	6.31E-2	.144	9.45E-2	0.183	-7.42E-2	.124	-.169	-8.69E-2	-5.62E-2	.171
	.119	-.127	-5.06E-2	.143	.177	.157	-.137	-1.13E-2	-8.62E-2	-.103
	-6.27E-2									
Ktillv	-.208	1	.143	-.251	.190	5.99E-2	-3.47E-2	.101	-.299	-.701
	2.15E-2	9.86E-2	6.36E-2	8.42E-2	-.200	-1.81E-2	-.292	7.94E-2	-.147	-6.13E-2
	-.105	-5.44E-2	-2.54E-2	.118	-7.26E-2	.142	.119	7.55E-2	.159	.175
	.118	-2.60E-2	-9.46E-2	-.154	-7.08E-2	7.56E-2	.148	.162	.17	7.82E-2
	.198	.172	.101	-1.94E-2	-8.40E-2	-.117	3.95E-2	.105	.121	6.80E-2
	-4.89E-2	7.42E-2	8.47E-2	.184	.104	-5.26E-2	-1.60E-2	2.17E-2	.104	.121
	9.83E-2									
Ksd	.149	.143	1	-.152	-.222	-.136	-.414	-5.71E-2	4.14E-2	-6.91E-2
	5.26E-2	-.104	3.92E-2	-.159	2.20E-2	-.319	9.04E-2	.188	-.100	.237
	.229	.179	4.93E-2	1.62E-2	-.205	2.03E-2	1.33E-2	.249	.178	-1.91E-2
	-.117	-.305	-.342	-.383	-.144	.193	.153	.105	2.40E-3	.244
	8.11E-2	-4.90E-2	-7.77E-2	-.322	-.215	-.373	7.90E-2	.176	.145	-.214
	-.288	.205	.28	-3.82E-2	-.168	-.321	2.28E-3	-6.40E-2	.160	.188
	.198									
Ksdv	-1.53E-2	-.251	-.152	1	9.90E-2	.474	6.01E-2	-.235	3.00E-2	-.232
	.104	5.70E-2	-.192	1.12E-2	9.21E-2	.135	6.08E-2	-.183	.201	.113
	7.75E-2	8.77E-2	8.02E-2	-3.11E-2	4.54E-2	-8.92E-2	-3.21E-2	4.17E-2	-1.71E-2	-8.45E-2
	-7.65E-2	-8.03E-2	-4.58E-2	8.70E-3	9.31E-2	9.09E-2	2.63E-2	-2.43E-2	-5.21E-2	4.90E-2
	-5.39E-2	-8.08E-2	-4.03E-2	-6.74E-2	.132	-7.46E-2	.153	5.99E-2	1.38E-2	-7.43E-2
	-1.61E-2	6.82E-2	4.28E-2	-9.71E-2	-7.62E-2	-6.76E-2	.101	4.55E-2	8.75E-2	5.37E-2
	3.35E-2									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
Rxk1	-0.136	0.190	-0.222	9.90E-2	1	0.555	0.535	0.155	-0.112	-0.243
	.130	6.11E-2	-3.04E-2	6.25E-2	5.58E-3	-.252	.292	-.521	-5.84E-2	-5.36E-2
	-.319	-7.45E-2	-6.95E-2	5.66E-3	-0.106	.132	.119	-.144	-2.58E-2	.177
	.234	.324	.327	0.343	.125	-.126	-1.50E-2	2.59E-2	.178	-.151
	8.81E-2	.223	.189	.325	.180	.352	-4.21E-2	-7.23E-2	-3.45E-2	.287
	.31	-.125	-.162	.182	.267	.331	1.06E-2	.126	-8.69E-2	-7.79E-2
	-9.16E-2									
Rxk2	-.155	5.99E-2	-.136	.474	.555	1	.370	.106	-.127	-.345
	.221	5.56E-2	-2.45E-3	-2.37E-2	.142	6.31E-2	9.93E-2	-.581	-.135	-8.22E-3
	-8.97E-2	3.65E-2	4.36E-2	6.33E-3	8.96E-2	-1.73E-2	2.76E-2	1.27E-2	8.41E-3	1.34E-2
	2.60E-2	1.29E-2	2.38E-2	7.45E-2	.135	6.24E-2	4.68E-2	3.39E-2	4.20E-2	2.73E-2
	4.22E-2	3.03E-2	5.05E-2	2.56E-2	.178	1.09E-2	.147	5.52E-2	4.17E-2	2.99E-2
	6.55E-2	4.51E-2	1.36E-2	1.00E-2	3.06E-2	1.94E-2	.111	7.63E-2	8.45E-2	5.28E-2
	2.86E-2									
Rxk3	-.539	-3.47E-2	-.414	6.01E-2	.535	.370	1	.288	-3.56E-2	6.64E-3
	.111	.189	-5.38E-3	-.142	.316	-2.38E-2	.272	-.587	-.202	-8.51E-2
	-.126	-7.23E-2	5.97E-3	6.57E-2	.195	-8.99E-2	-5.56E-2	-8.65E-3	-8.55E-2	-.122
	-8.89E-2	-1.76E-2	.114	.182	.185	5.21E-2	-2.21E-2	-5.28E-2	-7.95E-2	2.67E-3
	-8.51E-2	-.107	-4.64E-2	-2.19E-2	.190	7.01E-2	.139	2.55E-2	-5.34E-4	-6.46E-2
	2.98E-2	4.54E-2	-1.37E-2	-.117	-9.54E-2	6.61E-3	.147	7.13E-2	3.34E-2	2.11E-2
	-1.01E-2									
Rxk4	-.250	.101	-5.71E-2	-.235	.155	.106	.288	1	1.32E-2	1.04E-2
	.168	-.153	-.111	-8.43E-2	.151	7.48E-2	4.66E-2	-.342	-.899	-5.38E-2
	-.113	-4.19E-2	-3.57E-2	5.17E-2	.124	-7.15E-2	-5.82E-2	8.73E-3	-2.51E-2	-6.33E-2
	-8.08E-2	-7.68E-2	-6.81E-2	-6.10E-2	2.66E-2	1.77E-2	-1.55E-2	-4.20E-2	-6.96E-2	1.59E-2
	-4.51E-2	-6.07E-2	-6.55E-2	-7.51E-2	-8.33E-3	-8.44E-2	3.42E-2	4.07E-3	-6.78E-3	-8.54E-2
	-7.43E-2	2.58E-2	1.44E-2	-5.84E-2	-8.64E-2	-8.43E-2	-3.48E-3	-2.69E-2	1.49E-2	8.74E-3
	1.04E-2									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
Rxk1v	8.44E-2	-0.299	4.14E-2	3.00E-2	-0.112	-0.127	-3.56E-2	1.32E-2	1	0.399
	6.58E-2	-7.34E-3	-4.62E-2	-0.224	.239	-5.95E-2	-0.144	5.20E-2	-3.39E-2	.114
	4.18E-2	-3.62E-2	1.61E-2	5.29E-2	.192	-.131	-4.58E-2	9.50E-2	-3.75E-3	-6.62E-2
	-0.102	-.198	-0.136	-.143	2.42E-2	.115	5.04E-2	-2.34E-3	-5.13E-2	6.27E-2
	-5.33E-2	-5.66E-2	-7.89E-2	-.207	2.00E-2	-.192	9.04E-2	8.83E-2	3.07E-2	-.167
	-.129	.114	6.66E-2	-9.02E-2	-.119	-.177	6.35E-2	-8.68E-3	9.94E-2	8.19E-2
	4.57E-2									
Rxk2v	.146	-.701	-6.91E-2	-.232	-.243	-.345	6.64E-3	1.04E-2	0.399	1
	1.54E-3	-9.18E-2	-5.31E-2	-.222	.252	2.38E-2	-7.96E-2	0.136	8.74E-2	-2.19E-2
	3.27E-2	-4.47E-2	-2.72E-2	-4.98E-3	4.52E-2	-2.18E-2	-4.00E-2	1.99E-3	-4.80E-2	-9.22E-2
	-7.12E-2	5.48E-3	8.51E-2	.125	7.34E-2	-1.29E-2	-5.91E-2	-4.37E-2	-8.09E-2	1.09E-2
	-8.11E-2	-.101	-5.31E-2	-1.58E-2	7.70E-2	7.14E-2	-4.16E-3	-2.89E-2	-2.91E-2	-5.50E-2
	3.04E-2	-5.23E-3	1.67E-2	-9.62E-2	-7.96E-2	2.54E-2	3.65E-2	2.72E-2	-3.64E-2	-3.70E-2
	-1.58E-2									
Rxk3v	-.582	2.15E-2	5.26E-2	.104	.130	.221	.111	.168	6.58E-2	1.54E-3
	1	.130	-2.58E-3	-.244	.157	2.36E-2	.153	-.263	-.139	5.65E-2
	5.40E-2	6.15E-2	7.79E-2	-4.79E-2	7.66E-2	-6.87E-2	-5.16E-2	4.21E-2	-8.37E-3	-7.03E-2
	-8.75E-2	-.125	-8.68E-2	-9.50E-2	1.35E-3	5.99E-2	-1.12E-3	-1.26E-2	-6.55E-2	5.33E-2
	-1.52E-2	-8.00E-2	-5.20E-2	-.130	1.16E-2	-.127	7.01E-2	2.88E-2	2.60E-2	-.120
	-9.46E-2	6.69E-2	4.03E-2	-7.60E-2	-.106	-.113	4.76E-2	-3.44E-2	3.69E-2	4.42E-2
	3.68E-2									
Rxk4v	-.260	9.86E-2	-.104	5.70E-2	6.11E-2	5.56E-2	.189	-.153	-7.34E-3	-9.18E-2
	.130	1	1.81E-2	-3.88E-2	3.66E-2	2.94E-2	-1.23E-3	-3.17E-2	1.34E-2	.110
	.148	.102	.131	-9.44E-2	2.07E-2	-2.36E-2	9.31E-4	3.65E-2	1.27E-2	-2.31E-2
	-2.66E-2	-5.14E-2	-4.27E-3	-2.28E-4	2.94E-2	5.85E-2	2.61E-2	1.64E-2	-1.00E-2	4.28E-2
	6.04E-3	-2.82E-2	-4.19E-3	-5.36E-2	6.00E-2	-4.32E-2	7.26E-2	4.36E-2	3.23E-2	-4.76E-2
	-2.16E-2	5.38E-2	3.35E-2	-2.79E-2	-3.85E-2	-4.40E-2	6.73E-2	2.04E-2	4.00E-2	4.75E-2
	3.34E-2									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
Ksb1	-7.91E-2	6.36E-2	3.92E-2	-0.192	-3.04E-2	-2.45E-3	-5.38E-3	-0.111	-4.62E-2	-5.31E-2
	-2.58E-3	1.81E-2	1	-.12	-1.39E-2	-0.204	-5.48E-2	.115	8.75E-2	-0.117
	-0.109	-4.04E-2	-3.91E-2	-5.61E-2	0.127	2.09E-2	-5.75E-3	-7.64E-2	5.56E-3	7.85E-2
	9.12E-2	2.10E-2	-1.49E-2	-8.33E-2	-.179	-8.43E-2	-5.94E-2	-3.36E-2	3.20E-2	-9.90E-2
	2.32E-2	0.113	5.03E-2	6.18E-2	-.134	4.24E-2	-0.151	-8.84E-2	-5.77E-2	9.06E-2
	-1.92E-2	-8.69E-2	-0.101	.102	.113	3.68E-2	-8.84E-2	-7.33E-2	-8.02E-2	-5.68E-2
	-6.12E-2									
Km	9.51E-2	8.42E-2	-.159	1.12E-2	6.25E-2	-2.37E-2	-.142	-8.43E-2	-0.224	-.222
	-.244	-3.88E-2	-.12	1	**-.911**	7.26E-2	-.176	-3.74E-2	.163	-3.00E-2
	-3.06E-2	5.71E-2	-4.03E-2	-8.38E-2	1.69E-2	-1.97E-2	1.00E-2	-.101	-4.35E-2	6.35E-2
	8.67E-2	.184	7.11E-2	7.52E-2	-3.79E-2	-.151	-6.44E-2	-4.60E-2	3.15E-2	-.116
	-1.44E-2	8.32E-2	4.54E-2	.205	-5.88E-2	.157	-.157	-.121	-8.77E-2	.163
	.138	-.145	-.110	6.80E-2	.124	.164	-.110	-1.92E-2	-.108	-.130
	-9.47E-2									
Kmv	-.103	-.200	2.20E-2	9.21E-2	5.58E-3	.142	.316	.151	.239	.252
	.157	3.66E-2	-1.39E-2	**-.911**	1	-2.67E-3	.174	-.159	-.226	1.11E-3
	-3.48E-3	-8.63E-2	3.91E-2	6.21E-2	4.61E-2	-3.48E-2	-4.39E-2	2.81E-2	-2.45E-2	-8.46E-2
	-8.94E-2	-.126	-3.48E-2	-1.92E-2	5.65E-2	8.52E-2	9.11E-4	-1.49E-2	-6.99E-2	4.54E-2
	-4.08E-2	-9.67E-2	-5.86E-2	-.146	8.02E-2	-.103	.117	5.28E-2	2.36E-2	-.134
	-8.41E-2	7.89E-2	3.55E-2	-8.80E-2	-.110	-.106	7.51E-2	3.69E-3	5.73E-2	5.74E-2
	3.30E-2									
Kwet	-.197	-1.81E-2	-.319	.135	-.252	6.31E-2	-2.38E-2	7.48E-2	-5.95E-2	2.38E-2
	2.36E-2	2.94E-2	-.204	7.26E-2	-2.67E-3	1	-.486	-3.17E-2	-2.41E-2	-2.74E-2
	1.01E-2	1.72E-2	2.69E-3	-5.89E-2	.238	-.110	-5.18E-2	-1.31E-2	-2.16E-2	-2.72E-2
	-4.85E-2	-5.73E-2	-.117	-.103	-2.61E-2	3.56E-3	-1.86E-2	-3.62E-2	-5.01E-2	-1.53E-4
	-9.18E-3	-3.12E-2	-2.94E-2	-5.01E-2	-2.08E-2	-.118	4.67E-2	-1.31E-2	-1.12E-2	-2.79E-2
	-3.70E-2	-4.98E-3	-2.43E-2	-1.88E-2	-3.23E-2	-4.54E-2	-1.59E-2	-3.06E-2	-2.83E-2	-7.28E-3
	-4.56E-3									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
Kwetv	-7.49E-2	-0.292	9.04E-2	6.08E-2	0.292	9.93E-2	0.272	4.66E-2	-0.144	-7.96E-2
	0.153	-1.23E-3	-5.48E-2	-0.176	.174	-0.486	1	-0.328	-6.99E-2	3.64E-2
	2.64E-2	1.13E-2	3.01E-2	-2.17E-2	-.114	-6.92E-2	-7.11E-2	-7.72E-2	-.120	-0.101
	-5.01E-2	7.15E-2	0.131	.145	4.50E-2	-8.57E-2	-9.97E-2	-.121	-8.71E-2	-7.49E-2
	-.135	-8.78E-2	-5.22E-2	5.87E-2	3.55E-2	.159	-5.39E-2	-8.12E-2	-8.69E-2	-1.78E-2
	4.57E-2	-6.65E-2	-8.82E-2	-9.82E-2	-4.22E-2	7.98E-2	7.10E-3	-4.09E-2	-.103	-9.57E-2
	-7.70E-2									
Hani1	.216	7.94E-2	.188	-.183	-.521	-.581	-.587	-.342	5.20E-2	.136
	-.263	-3.17E-2	.115	-3.74E-2	-.159	-3.17E-2	-.328	1	.363	7.47E-2
	.147	-1.54E-2	-1.35E-2	4.26E-2	-.270	.202	.139	.116	.142	.106
	8.49E-2	1.84E-2	7.53E-2	5.68E-2	4.38E-2	9.27E-2	.132	.157	.134	.114
	.131	8.65E-2	8.44E-2	1.50E-2	4.61E-2	6.24E-2	6.43E-2	.122	.118	5.58E-2
	4.24E-2	9.25E-2	.114	9.97E-2	6.17E-2	2.20E-2	7.25E-2	.110	8.73E-2	.118
	.107									
Hani2	.137	-.147	-.100	.201	-5.84E-2	-.135	-.202	**-.899**	-3.39E-2	8.74E-2
	-.139	1.34E-2	8.75E-2	.163	-.226	-2.41E-2	-6.99E-2	.363	1	-8.23E-2
	-3.71E-2	-9.50E-2	-1.95E-2	4.48E-2	-.113	.120	8.47E-2	-5.14E-2	3.80E-3	8.78E-2
	.127	.175	.186	.196	4.65E-2	-5.28E-2	2.39E-4	5.04E-2	9.91E-2	-5.59E-2
	5.45E-2	9.10E-2	.103	.177	7.88E-2	.222	-3.86E-2	-2.46E-2	-1.46E-3	.164
	.168	-6.31E-2	-6.17E-2	9.09E-2	.143	.188	2.43E-2	7.60E-2	-3.47E-2	-3.21E-2
	-3.90E-2									
SSR1	-5.23E-2	-6.13E-2	.237	.113	-5.36E-2	-8.22E-3	-8.51E-2	-5.38E-2	.114	-2.19E-2
	5.65E-2	.110	-.117	-3.00E-2	1.11E-3	-2.74E-2	3.64E-2	7.47E-2	-8.23E-2	1
	.854	**.885**	.608	-.602	-.488	-.144	-5.03E-2	.245	3.31E-2	-.182
	-.213	-.282	-.142	-.112	6.17E-2	.25	.133	3.09E-2	-9.20E-2	.244
	-6.68E-2	-.207	-.125	-.293	5.85E-2	-.242	.235	.205	.132	-.305
	-.186	.255	.252	-.244	-.270	-.266	.187	4.27E-2	.162	.188
	.177									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	Ktillv Rxk4v SSR3 R7 RCH29 RCH39	Ksd Ksb1 SSR4 R8 RCH30 RCH40	Ksdv Km SSsd R9 RCH31 RCH41	Rxk1 Kmv SSwet R10 RCH32 RCH42	Rxk2 Kwet R1 R11 RCH33 RCH43	Rxk3 Kwetv R2 R12 RCH34 RCH44	Rxk4 Hani1 R3 RCH25 RCH35 RCH45	Rxk1v Hani2 R4 RCH26 RCH36 RCH46	Rxk2v SSR1 R5 RCH27 RCH37 RCH47
SSR2	-9.78E-2 5.40E-2 1 -0.383 -.117 -.367 .270	-0.105 .148 .756 -.489 -.375 .387	0.229 -.109 .504 -.287 -.246 .393	7.75E-2 -3.06E-2 -0.429 -.208 -.495 -.390	-0.319 -3.48E-3 -.303 .104 4.73E-2 -.469	-8.97E-2 1.01E-2 -0.212 .389 -.430 -.481	-0.126 2.64E-2 -.111 .175 .371 .284	-0.113 .147 .360 4.03E-2 .309 4.63E-2	4.18E-2 -3.71E-2 4.86E-2 -0.194 .192 .285	3.27E-2 **0.854** -.328 .378 -.492 .290
SSR3	-3.64E-2 6.15E-2 .756 -7.95E-2 -7.24E-2 -5.77E-2 4.20E-2	-5.44E-2 .102 1 -9.33E-2 -8.45E-2 8.31E-2	.179 -4.04E-2 .613 -3.36E-2 -5.01E-2 7.41E-2	8.77E-2 5.71E-2 -.831 -6.66E-2 -.107 -.139	-7.45E-2 -8.63E-2 -.269 -2.61E-2 3.66E-2 -9.83E-2	3.65E-2 1.72E-2 -.112 6.99E-2 -.115 -8.65E-2	-7.23E-2 1.13E-2 -4.05E-2 1.18E-2 6.27E-2 7.32E-2	-4.19E-2 -1.54E-2 7.92E-2 -2.49E-2 3.46E-2 -3.57E-2	-3.62E-2 -9.50E-2 -2.61E-2 -6.16E-2 1.15E-2 1.64E-2	-4.47E-2 **.885** -8.67E-2 7.87E-2 -.136 3.25E-2
SSR4	-6.40E-2 7.79E-2 .504 -.160 -6.72E-2 -.133 .114	-2.54E-2 .131 .613 -.204 -.161 .180	4.93E-2 -3.91E-2 1 -7.64E-2 -9.28E-2 .172	8.02E-2 -4.03E-2 -.483 -7.20E-2 -.223 -.197	-6.95E-2 3.91E-2 -9.38E-2 3.59E-2 7.39E-2 -.199	4.36E-2 2.69E-3 -.142 .184 -.193 -.189	5.97E-3 3.01E-2 -5.09E-2 7.57E-2 .179 .154	-3.57E-2 -1.35E-2 .167 8.04E-3 .136 1.17E-2	1.61E-2 -1.95E-2 1.02E-2 -8.55E-2 7.79E-2 .106	-2.72E-2 .608 -.153 .169 -.227 .126
SSsd	2.77E-2 -4.79E-2 -.429 -.238 5.93E-2 -.271 .250	.118 -9.44E-2 **-.831** -.348 -.207 .295	1.62E-2 -5.61E-2 -.483 -.267 -.147 .342	-3.11E-2 -8.38E-2 1 -.126 -.342 -.13	5.66E-3 6.21E-2 9.88E-2 .159 8.50E-3 -.296	6.33E-3 -5.89E-2 -1.49E-3 .326 -.273 -.352	6.57E-2 -2.17E-2 -9.62E-3 .223 .310 .176	5.17E-2 4.26E-2 .294 .132 .307 .133	5.29E-2 4.48E-2 .156 -4.18E-2 .224 .304	-4.98E-3 -.602 -.160 .308 -.264 .290

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
SSwet	-0.176	-7.26E-2	-0.205	4.54E-2	-0.106	8.96E-2	0.195	0.124	0.192	4.52E-2
	7.66E-2	2.07E-2	.127	1.69E-2	4.61E-2	0.238	-.114	-.270	-.113	-0.488
	-.303	-0.269	-9.38E-2	9.88E-2	1	-.163	-.103	-4.86E-2	-7.17E-2	-8.82E-2
	-.109	-.154	-.126	-0.159	-3.01E-2	2.71E-2	-8.18E-2	-8.72E-2	-.117	-5.15E-2
	-9.08E-2	-6.02E-2	-9.95E-2	-.137	-3.72E-3	-.211	3.62E-2	-2.80E-2	-7.15E-2	-.111
	-.141	1.40E-2	-5.10E-2	-8.55E-2	-9.51E-2	-.145	3.08E-2	-8.79E-2	1.81E-2	-1.06E-2
	-4.97E-2									
R1	.102	.142	2.03E-2	-8.92E-2	.132	-1.73E-2	-8.99E-2	-7.15E-2	-.131	-2.18E-2
	-6.87E-2	-2.36E-2	2.09E-2	-1.97E-2	-3.48E-2	-.110	-6.92E-2	.202	.120	-.144
	-.212	-.112	-.142	-1.49E-3	-.163	1	-.107	-.149	2.59E-2	.226
	.259	.304	.237	.190	-1.13E-2	-.171	-.190	.118	.180	-.139
	.125	.241	.193	.301	3.90E-2	.288	-.149	-.109	-3.97E-2	.296
	.251	-.159	-.151	.241	.289	.296	-8.88E-2	4.30E-2	-.110	-.102
	-8.95E-2									
R2	7.29E-2	.119	1.33E-2	-3.21E-2	.119	2.76E-2	-5.56E-2	-5.82E-2	-4.58E-2	-4.00E-2
	-5.16E-2	9.31E-4	-5.75E-3	1.00E-2	-4.39E-2	-5.18E-2	-7.11E-2	.139	8.47E-2	-5.03E-2
	-.111	-4.05E-2	-5.09E-2	-9.62E-3	-.103	-.107	1	-.153	3.09E-2	.145
	.161	.175	.145	.119	1.39E-2	-7.53E-2	-2.29E-5	6.01E-2	.126	-5.85E-2
	9.34E-2	.157	.126	.172	4.78E-2	.164	-5.65E-2	-3.67E-2	-2.11E-3	.176
	.154	-6.90E-2	-6.50E-2	.152	.176	.171	-2.65E-2	4.75E-2	-4.16E-2	-3.47E-2
	-3.17E-2									
R3	-6.13E-2	7.55E-2	.249	4.17E-2	-.144	1.27E-2	-8.65E-3	8.73E-3	9.50E-2	1.99E-3
	4.21E-2	3.65E-2	-7.64E-2	-.101	2.81E-2	-1.31E-2	-7.72E-2	.116	-5.14E-2	.245
	.360	7.92E-2	.167	.294	-4.86E-2	-.149	-.153	1	-3.34E-2	-.323
	-.423	-.610	-.403	-.273	.177	.537	.309	.150	-.134	.513
	-3.79E-3	-.371	-.256	-.613	6.39E-2	-.539	.511	.463	.318	-.534
	-.453	.515	.551	-.343	-.524	-.598	.352	.135	.437	.444
	.392									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
R4	5.04E-2 -8.37E-3 4.86E-2 -9.07E-2 7.55E-2 -0.126 .156	0.159 1.27E-2 -2.61E-2 -.173 -4.41E-2 .175	0.178 5.56E-3 1.02E-2 -.133 -2.90E-2 .207	-1.71E-2 -4.35E-2 0.156 -.102 -.170 -2.92E-2	-2.58E-2 -2.45E-2 -7.17E-2 3.97E-2 8.32E-3 -0.109	8.41E-3 -2.16E-2 2.59E-2 0.180 -.168 -.171	-8.55E-2 -0.120 3.09E-2 .143 .164 .107	-2.51E-2 0.142 -3.34E-2 .103 .172 6.54E-2	-3.75E-3 3.80E-3 1 2.72E-2 0.137 .161	-4.80E-2 3.31E-2 -0.328 .191 -.119 .17
R5	.136 -7.03E-2 -.328 .205 .132 .378 -.231	.175 -2.31E-2 -8.67E-2 .482 .402 -.347	-1.91E-2 7.85E-2 -.153 .308 .283 -.351	-8.45E-2 6.35E-2 -.160 .196 .494 .382	.177 -8.46E-2 -8.82E-2 -.135 -3.96E-2 .485	1.34E-2 -2.72E-2 .226 -.368 .414 .479	-.122 -.101 .145 -.142 -.355 -.247	-6.33E-2 .106 -.323 -6.36E-3 -.285 -4.49E-2	-6.62E-2 8.78E-2 -.328 .226 -.164 -.276	-9.22E-2 -.182 1 -.327 .479 -.267
R6	.155 -8.75E-2 -.383 1 .125 .495 -.315	.118 -2.66E-2 -7.95E-2 .502 .471 -.454	-.117 9.12E-2 -.160 .416 .339 -.468	-7.65E-2 8.67E-2 -.238 .296 .639 .444	.234 -8.94E-2 -.109 -.145 -2.07E-2 .595	2.60E-2 -4.85E-2 .259 -.480 .561 .625	-8.89E-2 -5.01E-2 .161 -.208 -.450 -.302	-8.08E-2 8.49E-2 -.423 -3.76E-2 -.380 -5.54E-2	-.102 .127 -9.07E-2 .254 -.230 -.367	-7.12E-2 -.213 .205 -.434 .597 -.360
R7	.184 -.125 -.489 .502 9.63E-2 .704 -.468	-2.60E-2 -5.14E-2 -9.33E-2 1 .568 -.651	-.305 2.10E-2 -.204 .604 .421 -.673	-8.03E-2 .184 -.348 .489 **.896** .532	.324 -.126 -.154 -.150 9.00E-3 .770	1.29E-2 -5.73E-2 .304 -.685 **.829** **.883**	-1.76E-2 7.15E-2 .175 -.335 -.623 -.406	-7.68E-2 1.84E-2 -.610 -.109 -.556 -7.69E-2	-.198 .175 -.173 .284 -.355 -.540	5.48E-3 -.282 .482 -.623 .795 -.539

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
R8	7.85E-2	-9.46E-2	-0.342	-4.58E-2	0.327	2.38E-2	0.114	-6.81E-2	-0.136	8.51E-2
	-8.68E-2	-4.27E-3	-1.49E-2	7.11E-2	-3.48E-2	-0.117	.131	7.53E-2	.186	-0.142
	-0.287	-3.36E-2	-7.64E-2	-0.267	-.126	.237	.145	-0.403	-.133	.308
	.416	0.604	1	.259	6.80E-3	-.425	-.207	-5.05E-2	.207	-.400
	6.35E-2	.368	.303	.640	.142	.654	-.342	-.335	-.213	.543
	.539	-.402	-.440	.334	.514	.644	-.172	2.94E-2	-.333	-.332
	-.301									
R9	5.00E-2	-.154	-.383	8.70E-3	.343	7.45E-2	.182	-6.10E-2	-.143	.125
	-9.50E-2	-2.28E-4	-8.33E-2	7.52E-2	-1.92E-2	-.103	.145	5.68E-2	.196	-.112
	-.208	-6.66E-2	-7.20E-2	-.126	-.159	.190	.119	-.273	-.102	.196
	.296	.489	.259	1	-2.34E-2	-.274	-.127	-1.85E-2	.155	-.261
	4.00E-2	.231	.220	.486	.203	.548	-.177	-.204	-.127	.395
	.440	-.261	-.292	.209	.352	.497	-5.49E-2	9.55E-2	-.210	-.213
	-.197									
R10	-8.66E-2	-7.08E-2	-.144	9.31E-2	.125	.135	.185	2.66E-2	2.42E-2	7.34E-2
	1.35E-3	2.94E-2	-.179	-3.79E-2	5.65E-2	-2.61E-2	4.50E-2	4.38E-2	4.65E-2	6.17E-2
	.104	-2.61E-2	3.59E-2	.159	-3.01E-2	-1.13E-2	1.39E-2	.177	3.97E-2	-.135
	-.145	-.150	6.80E-3	-2.34E-2	1	.111	.131	8.43E-2	-2.48E-2	.202
	-7.27E-4	-.152	-6.53E-2	-.156	.216	-5.78E-2	.292	.215	.146	-.165
	-5.79E-2	.220	.206	-.148	-.185	-.138	.249	.163	.202	.192
	.154									
R11	-.132	7.56E-2	.193	9.09E-2	-.126	6.24E-2	5.21E-2	1.77E-2	.115	-1.29E-2
	5.99E-2	5.85E-2	-8.43E-2	-.151	8.52E-2	3.56E-3	-8.57E-2	9.27E-2	-5.28E-2	.25
	.389	6.99E-2	.184	.326	2.71E-2	-.171	-7.53E-2	.537	.180	-.368
	-.480	-.685	-.425	-.274	.111	1	.216	.155	-.162	.561
	-1.97E-2	-.431	-.292	-.689	.114	-.597	.599	.525	.353	-.608
	-.501	.584	.601	-.404	-.597	-.671	.421	.164	.500	.502
	.430									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
R12	-1.90E-2	0.148	0.153	2.63E-2	-1.50E-2	4.68E-2	-2.21E-2	-1.55E-2	5.04E-2	-5.91E-2
	-1.12E-3	2.61E-2	-5.94E-2	-6.44E-2	9.11E-4	-1.86E-2	-9.97E-2	0.132	2.39E-4	0.133
	0.175	1.18E-2	7.57E-2	0.223	-8.18E-2	-0.190	-2.29E-5	.309	0.143	-.142
	-.208	-.335	-.207	-.127	0.131	.216	1	-.129	-3.94E-2	.320
	4.64E-2	-.176	-.114	-.341	6.84E-2	-.296	0.331	.308	.222	-.282
	-.238	.325	.347	-.158	-.273	-.332	.231	.120	.287	.295
	.257									
RCH25	1.36E-2	.162	.105	-2.43E-2	2.59E-2	3.39E-2	-5.28E-2	-4.20E-2	-2.34E-3	-4.37E-2
	-1.26E-2	1.64E-2	-3.36E-2	-4.60E-2	-1.49E-2	-3.62E-2	-.121	.157	5.04E-2	3.09E-2
	4.03E-2	-2.49E-2	8.04E-3	.132	-8.72E-2	.118	6.01E-2	.150	.103	-6.36E-3
	-3.76E-2	-.109	-5.05E-2	-1.85E-2	8.43E-2	.155	-.129	1	-.226	.150
	7.83E-2	-2.21E-2	-9.44E-4	-.114	6.33E-2	-9.42E-2	.164	.162	.131	-7.49E-2
	-6.40E-2	.155	.170	-1.26E-2	-6.96E-2	-.111	.120	9.21E-2	.151	.156
	.134									
RCH26	.106	.17	2.40E-3	-5.21E-2	.178	4.20E-2	-7.95E-2	-6.96E-2	-5.13E-2	-8.09E-2
	-6.55E-2	-1.00E-2	3.20E-2	3.15E-2	-6.99E-2	-5.01E-2	-8.71E-2	.134	9.91E-2	-9.20E-2
	-.194	-6.16E-2	-8.55E-2	-4.18E-2	-.117	.180	.126	-.134	2.72E-2	.226
	.254	.284	.207	.155	-2.48E-2	-.162	-3.94E-2	-.226	1	-.229
	.116	.250	.186	.281	2.74E-2	.251	-.143	-.104	-4.28E-2	.284
	.234	-.151	-.148	.238	.286	.276	-9.03E-2	3.09E-2	-.108	-9.80E-2
	-8.67E-2									
RCH27	-7.70E-2	7.82E-2	.244	4.90E-2	-.151	2.73E-2	2.67E-3	1.59E-2	6.27E-2	1.09E-2
	5.33E-2	4.28E-2	-9.90E-2	-.116	4.54E-2	-1.53E-4	-7.49E-2	.114	-5.59E-2	.244
	.378	7.87E-2	.169	.308	-5.15E-2	-.139	-5.85E-2	.513	.191	-.327
	-.434	-.623	-.400	-.261	.202	.561	.320	.150	-.229	1
	-.217	-.397	-.269	-.633	7.75E-2	-.552	.537	.482	.332	-.553
	-.464	.536	.574	-.357	-.544	-.616	.372	.145	.456	.461
	.409									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
RCH28	6.31E-2	0.198	8.11E-2	-5.39E-2	8.81E-2	4.22E-2	-8.51E-2	-4.51E-2	-5.33E-2	-8.11E-2
	-1.52E-2	6.04E-3	2.32E-2	-1.44E-2	-4.08E-2	-9.18E-3	-0.135	0.131	5.45E-2	-6.68E-2
	-0.117	-7.24E-2	-6.72E-2	5.93E-2	-9.08E-2	0.125	9.34E-2	-3.79E-3	7.55E-2	0.132
	.125	9.63E-2	6.35E-2	4.00E-2	-7.27E-4	-1.97E-2	4.64E-2	7.83E-2	0.116	-.217
	1	-.123	8.18E-2	8.91E-2	6.81E-3	6.90E-2	-1.99E-2	8.91E-3	3.49E-2	.121
	8.08E-2	-1.80E-2	-2.37E-3	0.138	0.128	8.87E-2	-1.51E-2	4.19E-2	3.88E-3	1.41E-2
	1.41E-2									
RCH29	.144	.172	-4.90E-2	-8.08E-2	.223	3.03E-2	-.107	-6.07E-2	-5.66E-2	-.101
	-8.00E-2	-2.82E-2	0.113	8.32E-2	-9.67E-2	-3.12E-2	-8.78E-2	8.65E-2	9.10E-2	-.207
	-.375	-8.45E-2	-.161	-.207	-6.02E-2	.241	.157	-.371	-4.41E-2	.402
	.471	.568	.368	.231	-.152	-.431	-.176	-2.21E-2	.250	-.397
	-.123	1	.137	.561	-4.58E-2	.479	-.413	-.338	-.202	.549
	.437	-.406	-.417	.430	.556	.555	-.284	-5.79E-2	-.326	-.317
	-.277									
RCH30	9.45E-2	.101	-7.77E-2	-4.03E-2	.189	5.05E-2	-4.64E-2	-6.55E-2	-7.89E-2	-5.31E-2
	-5.20E-2	-4.19E-3	5.03E-2	4.54E-2	-5.86E-2	-2.94E-2	-5.22E-2	8.44E-2	.103	-.125
	-.246	-5.01E-2	-9.28E-2	-.147	-9.95E-2	.193	.126	-.256	-2.90E-2	.283
	.339	.421	.303	.220	-6.53E-2	-.292	-.114	-9.44E-4	.186	-.269
	8.18E-2	.137	1	.225	-2.35E-2	.372	-.266	-.224	-.127	.396
	.335	-.276	-.284	.300	.395	.413	-.169	-9.41E-3	-.219	-.212
	-.186									
RCH31	.183	-1.94E-2	-.322	-6.74E-2	.325	2.56E-2	-2.19E-2	-7.51E-2	-.207	-1.58E-2
	-.130	-5.36E-2	6.18E-2	.205	-.146	-5.01E-2	5.87E-2	1.50E-2	.177	-.293
	-.495	-.107	-.223	-.342	-.137	.301	.172	-.613	-.170	.494
	.639	**.896**	.640	.486	-.156	-.689	-.341	-.114	.281	-.633
	8.91E-2	.561	.225	1	-2.79E-2	**.829**	-.626	-.559	-.358	.798
	.700	-.654	-.678	.535	.772	**.882**	-.407	-7.87E-2	-.540	-.541
	-.471									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	Ktillv Rxk4v SSR3 R7 RCH29 RCH39	Ksd Ksb1 SSR4 R8 RCH30 RCH40	Ksdv Km SSsd R9 RCH31 RCH41	Rxk1 Kmv SSwet R10 RCH32 RCH42	Rxk2 Kwet R1 R11 RCH33 RCH43	Rxk3 Kwetv R2 R12 RCH34 RCH44	Rxk4 Hani1 R3 RCH25 RCH35 RCH45	Rxk1v Hani2 R4 RCH26 RCH36 RCH46	Rxk2v SSR1 R5 RCH27 RCH37 RCH47
RCH32	-7.42E-2 1.16E-2 4.73E-2 -2.07E-2 6.81E-3 7.40E-2 6.63E-2	-8.40E-2 6.00E-2 3.66E-2 9.00E-3 -4.58E-2 0.107	-0.215 -.134 7.39E-2 .142 -2.35E-2 7.71E-2	0.132 -5.88E-2 8.50E-3 .203 -2.79E-2 -5.17E-2	0.180 8.02E-2 -3.72E-3 .216 1 -3.80E-2	0.178 -2.08E-2 3.90E-2 .114 -.123 2.31E-2	0.190 3.55E-2 4.78E-2 6.84E-2 .176 .190	-8.33E-3 4.61E-2 6.39E-2 6.33E-2 0.113 .147	2.00E-2 7.88E-2 8.32E-3 2.74E-2 7.82E-2 0.106	7.70E-2 5.85E-2 -3.96E-2 7.75E-2 -2.21E-2 9.78E-2
RCH33	0.124 -.127 -.430 .561 6.90E-2 .671 -.412	-.117 -4.32E-2 -.115 **.829** .479 -.566	-.373 4.24E-2 -.193 .654 .372 -.596	-7.46E-2 .157 -.273 .548 **.829** .45	.352 -.103 -.211 -5.78E-2 -.123 .675	1.09E-2 -.118 .288 -.597 1 **.824**	7.01E-2 .159 .164 -.296 -.559 -.308	-8.44E-2 6.24E-2 -.539 -9.42E-2 -.478 -1.65E-2	-.192 .222 -.168 .251 -.304 -.472	7.14E-2 -0.242 .414 -.552 .714 -.469
RCH34	-.169 7.01E-2 .371 -.450 -1.99E-2 -.432 .413	3.95E-2 7.26E-2 6.27E-2 -.623 -.413 .567	7.90E-2 -.151 .179 -.342 -.266 .571	.153 -.157 .310 -.177 -.626 -.391	-4.21E-2 .117 3.62E-2 .292 .176 -.561	.147 4.67E-2 -.149 .599 -.559 -.605	.139 -5.39E-2 -5.65E-2 .331 1 .450	3.42E-2 6.43E-2 .511 .164 .415 .199	9.04E-2 -3.86E-2 .164 -.143 .342 .490	-4.16E-3 .235 -.355 .537 -.564 .489
RCH35	-8.69E-2 2.88E-2 .309 -.380 8.91E-3 -.402 .375	.105 4.36E-2 3.46E-2 -.556 -.338 .497	.176 -8.84E-2 .136 -.335 -.224 .516	5.99E-2 -.121 .307 -.204 -.559 -.315	-7.23E-2 5.28E-2 -2.80E-2 .215 .113 -.480	5.52E-2 -1.31E-2 -.109 .525 -.478 -.546	2.55E-2 -8.12E-2 -3.67E-2 .308 .415 .363	4.07E-3 .122 .463 .162 1 .161	8.83E-2 -2.46E-2 .172 -.104 .187 .431	-2.89E-2 .205 -.285 .482 -.493 .436

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
RCH36	-5.62E-2	0.121	0.145	1.38E-2	-3.45E-2	4.17E-2	-5.34E-4	-6.78E-3	3.07E-2	-2.91E-2
	2.60E-2	3.23E-2	-5.77E-2	-8.77E-2	2.36E-2	-1.12E-2	-8.69E-2	0.118	-1.46E-3	0.132
	0.192	1.15E-2	7.79E-2	0.224	-7.15E-2	-3.97E-2	-2.11E-3	.318	0.137	-.164
	-.230	-.355	-.213	-.127	0.146	0.353	0.222	.131	-4.28E-2	.332
	3.49E-2	-.202	-.127	-.358	7.82E-2	-.304	.342	.187	1	-.556
	-.277	.329	.353	-.183	-.300	-.351	.241	.118	.293	.300
	.261									
RCH37	.171	6.80E-2	-.214	-7.43E-2	.287	2.99E-2	-6.46E-2	-8.54E-2	-.167	-5.50E-2
	-.120	-4.76E-2	9.06E-2	.163	-.134	-2.79E-2	-1.78E-2	5.58E-2	.164	-.305
	-.492	-.136	-.227	-.264	-.111	.296	.176	-.534	-.119	.479
	.597	.795	.543	.395	-.165	-.608	-.282	-7.49E-2	.284	-.553
	.121	.549	.396	.798	-2.21E-2	.714	-.564	-.493	-.556	1
	.499	-.58	-.594	.519	.716	.780	-.378	-7.17E-2	-.471	-.466
	-.405									
RCH38	.119	-4.89E-2	-.288	-1.61E-2	.31	6.55E-2	2.98E-2	-7.43E-2	-.129	3.04E-2
	-9.46E-2	-2.16E-2	-1.92E-2	.138	-8.41E-2	-3.70E-2	4.57E-2	4.24E-2	.168	-.186
	-.367	-5.77E-2	-.133	-.271	-.141	.251	.154	-.453	-.126	.378
	.495	.704	.539	.440	-5.79E-2	-.501	-.238	-6.40E-2	.234	-.464
	8.08E-2	.437	.335	.700	7.40E-2	.671	-.432	-.402	-.277	.499
	1	-.529	-.503	.405	.594	.698	-.265	-1.41E-2	-.391	-.389
	-.343									
RCH39	-.127	7.42E-2	.205	6.82E-2	-.125	4.51E-2	4.54E-2	2.58E-2	.114	-5.23E-3
	6.69E-2	5.38E-2	-8.69E-2	-.145	7.89E-2	-4.98E-3	-6.65E-2	9.25E-2	-6.31E-2	.255
	.387	8.31E-2	.180	.295	1.40E-2	-.159	-6.90E-2	.515	.175	-.347
	-.454	-.651	-.402	-.261	.220	.584	.325	.155	-.151	.536
	-1.80E-2	-.406	-.276	-.654	.107	-.566	.567	.497	.329	-.58
	-.529	1	.489	-.388	-.568	-.639	.396	.151	.471	.476
	.410									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	Ktillv Rxk4v SSR3 R7 RCH29 RCH39	Ksd Ksb1 SSR4 R8 RCH30 RCH40	Ksdv Km SSsd R9 RCH31 RCH41	Rxk1 Kmv SSwet R10 RCH32 RCH42	Rxk2 Kwet R1 R11 RCH33 RCH43	Rxk3 Kwetv R2 R12 RCH34 RCH44	Rxk4 Hani1 R3 RCH25 RCH35 RCH45	Rxk1v Hani2 R4 RCH26 RCH36 RCH46	Rxk2v SSR1 R5 RCH27 RCH37 RCH47
RCH40	-5.06E-2 4.03E-2 0.393 -.468 -2.37E-3 -.503 .438	8.47E-2 3.35E-2 7.41E-2 -0.673 -.417 .489	0.28 -.101 .172 -.440 -.284 1	4.28E-2 -0.110 .342 -.292 -.678 -.566	-0.162 3.55E-2 -5.10E-2 .206 7.71E-2 -.594	1.36E-2 -2.43E-2 -0.151 .601 -.596 -.670	-1.37E-2 -8.82E-2 -6.50E-2 0.347 .571 .384	1.44E-2 0.114 .551 .170 .516 .150	6.66E-2 -6.17E-2 0.207 -.148 .353 .487	1.67E-2 0.252 -.351 .574 -.594 .493
RCH41	.143 -7.60E-2 -.390 .444 .138 .405 -.253	.184 -2.79E-2 -.139 .532 .430 -.388	-3.82E-2 .102 -.197 .334 .300 -.566	-9.71E-2 6.80E-2 -.13 .209 .535 1	.182 -8.80E-2 -8.55E-2 -.148 -5.17E-2 .319	1.00E-2 -1.88E-2 .241 -.404 .45 .504	-.117 -9.82E-2 .152 -.158 -.391 -.284	-5.84E-2 9.97E-2 -.343 -1.26E-2 -.315 -5.40E-2	-9.02E-2 9.09E-2 -2.92E-2 .238 -.183 -.302	-9.62E-2 -.244 .382 -.357 .519 -.293
RCH42	.177 -.106 -.469 .595 .128 .594 -.390	.104 -3.85E-2 -9.83E-2 .770 .556 -.568	-.168 .113 -.199 .514 .395 -.594	-7.62E-2 .124 -.296 .352 .772 .319	.267 -.110 -9.51E-2 -.185 -3.80E-2 1	3.06E-2 -3.23E-2 .289 -.597 .675 .675	-9.54E-2 -4.22E-2 .176 -.273 -.561 -.363	-8.64E-2 6.17E-2 -.524 -6.96E-2 -.480 -7.45E-2	-.119 .143 -.109 .286 -.300 -.435	-7.96E-2 -.270 .485 -.544 .716 -.441
RCH43	.157 -.113 -.481 .625 8.87E-2 .698 -.474	-5.26E-2 -4.40E-2 -8.65E-2 **.883** .555 -.639	-.321 3.68E-2 -.189 .644 .413 -.670	-6.76E-2 .164 -.352 .497 **.882** .504	.331 -.106 -.145 -.138 2.31E-2 .675	1.94E-2 -4.54E-2 .296 -.671 **.824** 1	6.61E-3 7.98E-2 .171 -.332 -.605 -.488	-8.43E-2 2.20E-2 -.598 -.111 -.546 -8.91E-2	-.177 .188 -.171 .276 -.351 -.573	2.54E-2 -.266 .479 -.616 .780 -.551

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
RCH44	-0.137	-1.60E-2	2.28E-3	0.101	1.06E-2	0.111	0.147	-3.48E-3	6.35E-2	3.65E-2
	4.76E-2	6.73E-2	-8.84E-2	-.110	7.51E-2	-1.59E-2	7.10E-3	7.25E-2	2.43E-2	0.187
	.284	7.32E-2	0.154	.176	3.08E-2	-8.88E-2	-2.65E-2	0.352	0.107	-.247
	-.302	-0.406	-.172	-5.49E-2	0.249	.421	.231	.120	-9.03E-2	.372
	-1.51E-2	-.284	-.169	-.407	.190	-.308	.450	.363	.241	-.378
	-.265	.396	.384	-.284	-.363	-.488	1	-3.73E-2	.368	.358
	.294									
RCH45	-1.13E-2	2.17E-2	-6.40E-2	4.55E-2	.126	7.63E-2	7.13E-2	-2.69E-2	-8.68E-3	2.72E-2
	-3.44E-2	2.04E-2	-7.33E-2	-1.92E-2	3.69E-3	-3.06E-2	-4.09E-2	.110	7.60E-2	4.27E-2
	4.63E-2	-3.57E-2	1.17E-2	.133	-8.79E-2	4.30E-2	4.75E-2	.135	6.54E-2	-4.49E-2
	-5.54E-2	-7.69E-2	2.94E-2	9.55E-2	.163	.164	.120	9.21E-2	3.09E-2	.145
	4.19E-2	-5.79E-2	-9.41E-3	-7.87E-2	.147	-1.65E-2	.199	.161	.118	-7.17E-2
	-1.41E-2	.151	.150	-5.40E-2	-7.45E-2	-8.91E-2	-3.73E-2	1	-7.06E-2	.141
	.121									
RCH46	-8.62E-2	.104	.160	8.75E-2	-8.69E-2	8.45E-2	3.34E-2	1.49E-2	9.94E-2	-3.64E-2
	3.69E-2	4.00E-2	-8.02E-2	-.108	5.73E-2	-2.83E-2	-.103	8.73E-2	-3.47E-2	.162
	.285	1.64E-2	.106	.304	1.81E-2	-.110	-4.16E-2	.437	.161	-.276
	-.367	-.540	-.333	-.210	.202	.500	.287	.151	-.108	.456
	3.88E-3	-.326	-.219	-.540	.106	-.472	.490	.431	.293	-.471
	-.391	.471	.487	-.302	-.435	-.573	.368	-7.06E-2	1	.290
	.352									
RCH47	-.103	.121	.188	5.37E-2	-7.79E-2	5.28E-2	2.11E-2	8.74E-3	8.19E-2	-3.70E-2
	4.42E-2	4.75E-2	-5.68E-2	-.130	5.74E-2	-7.28E-3	-9.57E-2	.118	-3.21E-2	.188
	.290	3.25E-2	.126	.290	-1.06E-2	-.102	-3.47E-2	.444	.17	-.267
	-.360	-.539	-.332	-.213	.192	.502	.295	.156	-9.80E-2	.461
	1.41E-2	-.317	-.212	-.541	9.78E-2	-.469	.489	.436	.300	-.466
	-.389	.476	.493	-.293	-.441	-.551	.358	.141	.290	1
	.259									

Table 8–1. Correlation matrix for transient-model parameters, Seacoast model, southeastern New Hampshire.—Continued

[See footnote for values in **bold**]

Parameter name	Parameter name									
	Ktill Rxk3v SSR2 R6 RCH28 RCH38 RCH48	**Ktillv Rxk4v SSR3 R7 RCH29 RCH39**	**Ksd Ksb1 SSR4 R8 RCH30 RCH40**	**Ksdv Km SSsd R9 RCH31 RCH41**	**Rxk1 Kmv SSwet R10 RCH32 RCH42**	**Rxk2 Kwet R1 R11 RCH33 RCH43**	**Rxk3 Kwetv R2 R12 RCH34 RCH44**	**Rxk4 Hani1 R3 RCH25 RCH35 RCH45**	**Rxk1v Hani2 R4 RCH26 RCH36 RCH46**	**Rxk2v SSR1 R5 RCH27 RCH37 RCH47**
RCH48	-6.27E-2	9.83E-2	0.198	3.35E-2	-9.16E-2	2.86E-2	-1.01E-2	1.04E-2	4.57E-2	-1.58E-2
	3.68E-2	3.34E-2	-6.12E-2	-9.47E-2	3.30E-2	-4.56E-3	-7.70E-2	0.107	-3.90E-2	0.177
	0.270	4.20E-2	.114	0.250	-4.97E-2	-8.95E-2	-3.17E-2	.392	0.156	-.231
	-.315	-0.468	-.301	-.197	0.154	0.430	0.257	.134	-8.67E-2	.409
	1.41E-2	-.277	-.186	-.471	6.63E-2	-.412	.413	.375	.261	-.405
	-.343	.410	.438	-.253	-.390	-.474	.294	.121	.352	.259
	1									

* The correlation between Km and Kmv is 0.91.

* The absolute correlations between the following parameters are between 0.85 and 0.90.

Parameter	Parameter	Correlation
Rxk4	Hani2	-0.90
SSR1	SSR2	.85
SSR1	SSR3	.88
R7	RCH31	.90
R7	RCH43	.88
RCH31	RCH43	.88

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