

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 6. Matrix of Steady-State Model Parameter Correlation Coefficients

Table

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Table 6-1. Matrix of correlation coefficients for steady-state model parameters for the Seacoast region ground-water-flow model, New Hampshire.

[Dimensionless correlation coefficients]

Parameter name	Parameter name									
	Rech1 Rrk1v Hani2	Rech2 Rrk2v	Ktill Rrk3v	Ktillv Rrk4v	Ksd Ksb1	Ksdv Km	Rrk1 Kmv	Rrk2 Kwet	Rrk3 Kwetv	Rrk4 Hani1
Rech1	1.00 .03 -.02	-0.37 .00	0.33 -.02	-0.16 .10	0.11 -.24	0.06 .20	0.10 -.02	0.20 -.26	0.09 .29	0.05 .17
Rech2	-.37 .17 -.26	1.00 -.30	-.36 -.11	.21 -.14	-.15 -.33	.31 -.11	-.19 .01	.36 .49	.34 .01	.30 -.43
Ktill	.33 .09 .16	-.36 .03	1.00 -.20	-.27 -.02	.42 .13	-.02 .21	-.18 -.12	-.22 -.45	-.67 .11	-.33 .31
Ktillv	-.16 -.18 .00	.21 -.49	-.27 -.08	1.00 -.16	-.14 .12	.39 -.04	.12 .02	.25 .23	.13 -.46	.03 -.09
Ksd	.11 .15 -.12	-.15 .14	.42 -.04	-.14 -.04	1.00 -.03	-.11 -.15	-.28 -.04	-.27 -.27	-.53 .08	-.14 .23
Ksdv	.06 -.33 -.04	.31 -.95	-.02 -.27	.39 -.11	-.11 -.07	1.00 -.03	.07 .22	.40 .04	.14 .15	.07 -.06
Rrk1	.10 -.61 -.12	-.19 -.03	-.18 .20	.12 .01	-.28 .05	.07 -.11	1.00 .14	.37 -.12	.36 -.01	.23 -.36
Rrk2	.20 -.11 -.26	.36 -.44	-.22 .03	.25 -.11	-.27 -.07	.40 .00	.37 .04	1.00 .03	.62 .27	.41 -.77
Rrk3	.09 -.01 -.24	.34 -.10	-.67 -.07	.13 .02	-.53 -.23	.14 -.07	.36 .03	.62 .12	1.00 .18	.48 -.60
Rrk4	.05 .13 -.64	.30 .01	-.33 .20	.03 -.26	-.14 -.12	.07 -.14	.23 .06	.41 .16	.48 -.02	1.00 -.54
Rrk1v	.03 1.00 -.16	.17 .37	.09 .02	-.18 .03	.15 -.02	-.33 .09	-.61 -.22	-.11 -.04	-.01 -.16	.13 -.06

Table 6-1. Matrix of correlation coefficients for steady-state model parameters for the Seacoast region ground-water-flow model, New Hampshire.—Continued

[Dimensionless correlation coefficients]

Parameter name	Parameter name									
	Rech1 Rrk1v Hani2	Rech2 Rrk2v	Ktill Rrk3v	Ktillv Rrk4v	Ksd Ksb1	Ksdv Km	Rrk1 Kmv	Rrk2 Kwet	Rrk3 Kwetv	Rrk4 Hani1
Rrk2v	0.00 .37 -.06	-0.30 1.00	0.03 .29	-0.49 .14	0.14 .02	-0.95 -.01	-0.03 -.19	-0.44 -.05	-0.10 -.18	0.01 .04
Rrk3v	-.02 .02 -.13	-.11 .29	-.20 1.00	-.08 .02	-.04 .03	-.27 -.48	.20 .30	.03 .03	-.07 .02	.20 -.13
Rrk4v	.10 .03 -.03	-.14 .14	-.02 .02	-.16 1.00	-.04 -.00	-.11 .02	.01 .01	-.11 -.05	.02 .02	-.26 .12
Ksb1	-.24 -.02 .12	-.33 .02	.13 .03	.12 -.00	-.03 1.00	-.07 .05	.05 -.02	-.07 -.07	-.23 -.20	-.12 -.01
Km	.20 .09 .13	-.11 -.01	.21 -.48	-.04 .02	-.15 .05	-.03 1.00	-.11 -.66	.00 -.02	-.07 -.18	-.14 -.03
Kmv	-.02 -.22 -.04	.01 -.19	-.12 .30	.02 .01	-.04 -.02	.22 -.66	.14 1.00	.04 -.03	.03 .18	.06 .11
Kwet	-.26 -.04 -.19	.49 -.05	-.45 .03	.23 -.05	-.27 -.07	.04 -.02	-.12 -.03	.03 1.00	.12 -.42	.16 -.12
Kwetv	.29 -.16 .14	.01 -.18	.11 .02	-.46 .02	.08 -.20	.15 -.18	-.01 .18	.27 -.42	.18 1.00	-.02 -.06
Hani1	.17 -.06 .43	-.43 .04	.31 -.13	-.09 .12	.23 -.01	-.06 -.03	-.36 .11	-.77 -.12	-.60 -.06	-.54 1.00
Hani2	-.02 -.16 1.00	-.26 -.06	.16 -.13	.00 -.03	-.12 .12	-.04 .13	-.12 -.04	-.26 -.19	-.24 .14	-.64 .43

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