Table 1. MODFLOW-NWT Packages and files used for Example Problems 1 and 2.

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| MODFLOW-NWT Packages and Files |
| Basic (BAS6) Package |
| Output Control (OC) Option file |
| Discretization (DIS) file |
| Upstream-Weighted Flow (UPW) Package |
| Newton (NWT) Solver Package  Agricultural Water Use (AG) Package |
| Unsaturated-Zone Flow (UZF1) Package |
| Streamflow-Routing (SFR2) Package |
| Lake (LAK) Package (example problem 2) |
| Gage (GAG) Package |

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|  | **Fine soil** | **Course soil** |
| Saturated water content of unsaturated zone (cubic foot of water per cubic foot of bulk volume) | 0.38 | 0.30 |
| Brooks-Corey exponent  (unitless) | 7.5 | 4.5 |
| Vertical hydraulic conductivity of the unsaturated zone (feet per day) | 4.0 | 8.6 |
| Evapotranspiration extinction depth  (feet) | 0.50 | 0.50 |
| Residual water content  (cubic foot of water per cubic foot of bulk volume) | 0.20 | 0.10 |
| Air entry pressure (feet of water) | -1.10 | -0.1 |
| Root pressure (feet of water) | -30.0 | -30.0 |