

Cover: Hypothetical model grid illustrating some of the types of flow-rate and external decision variables that can be defined in the Ground-Water Management Process (GWM) for MODFLOW-2000. Flow-rate decision variables $Q1$, $Q2$, and $Q3$ represent ground-water withdrawal wells; flow-rate decision variable $Q4$ represents a recharge basin; and external decision variable IM1 represents a surface-water reservoir that is a source of water to the management model. (See figure 1-1 of this report and related discussions for more details.)