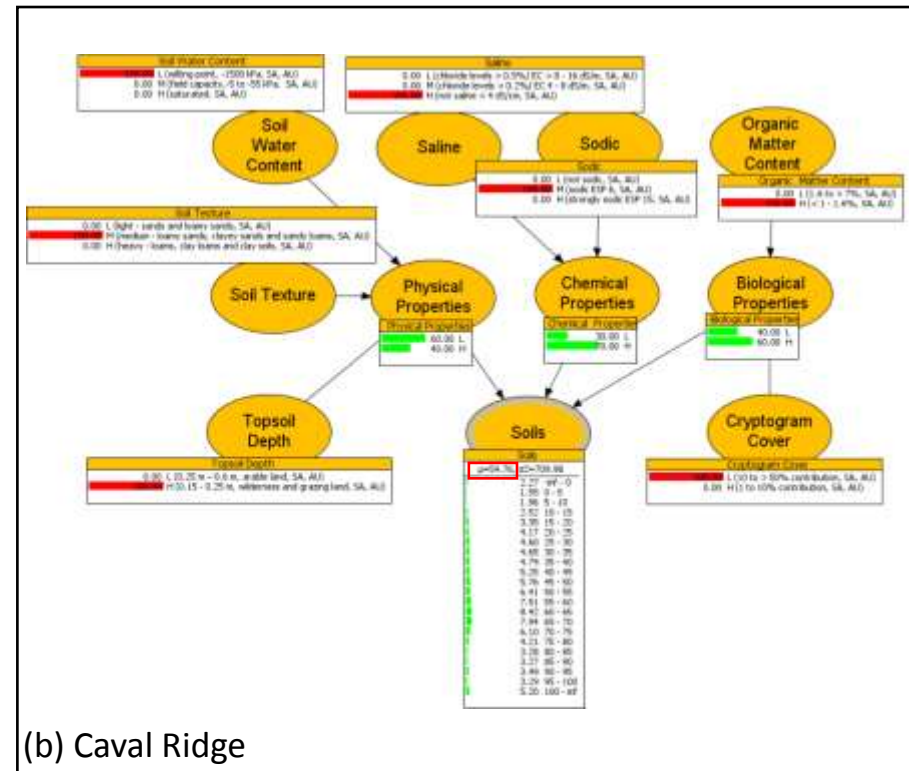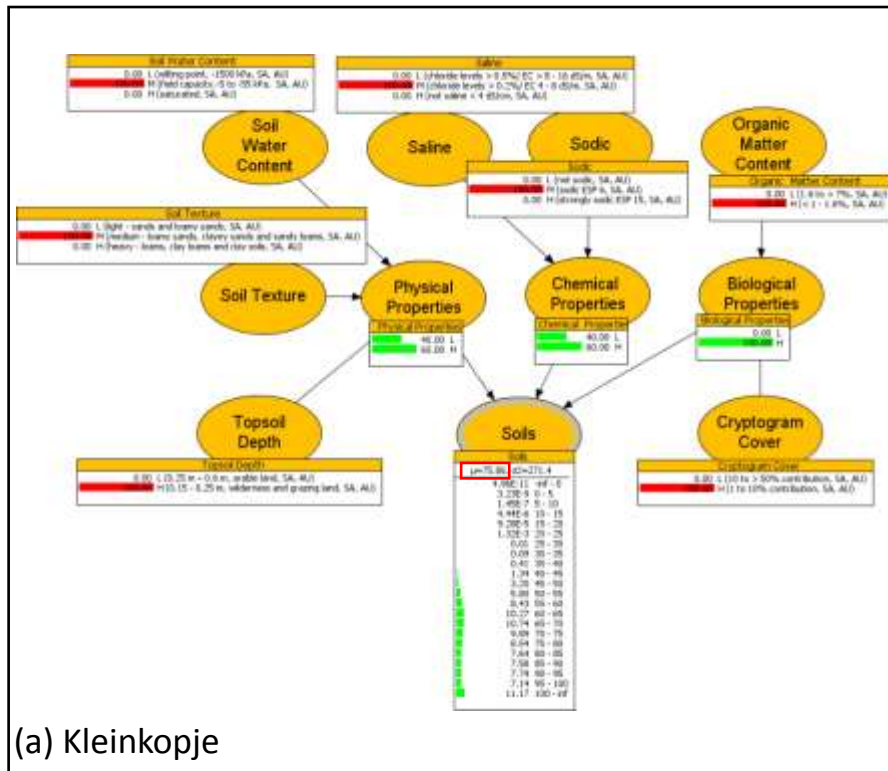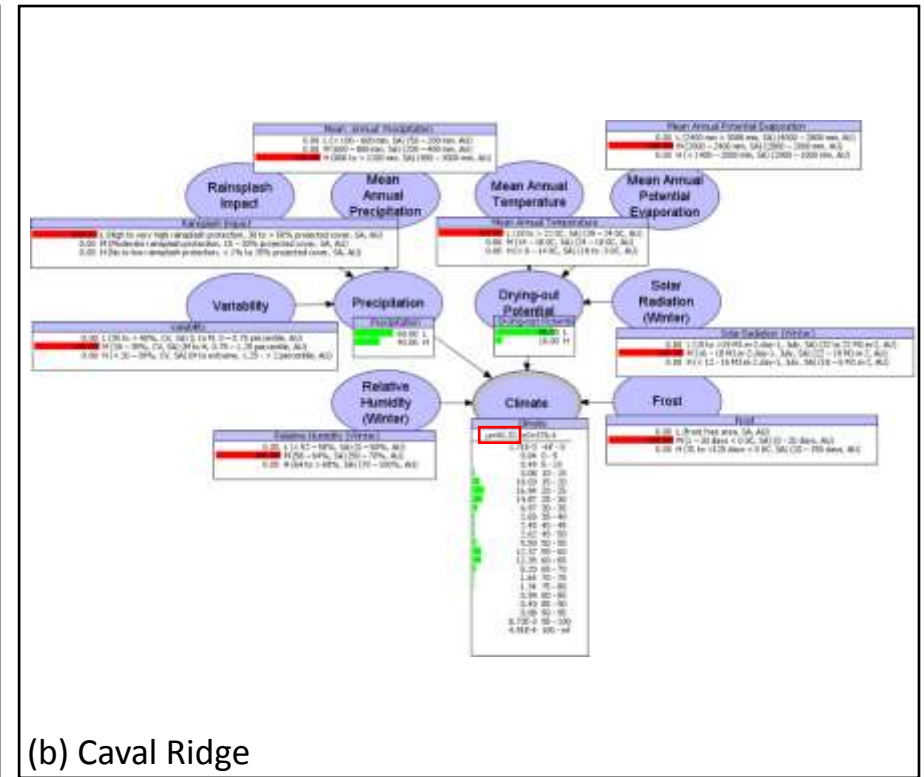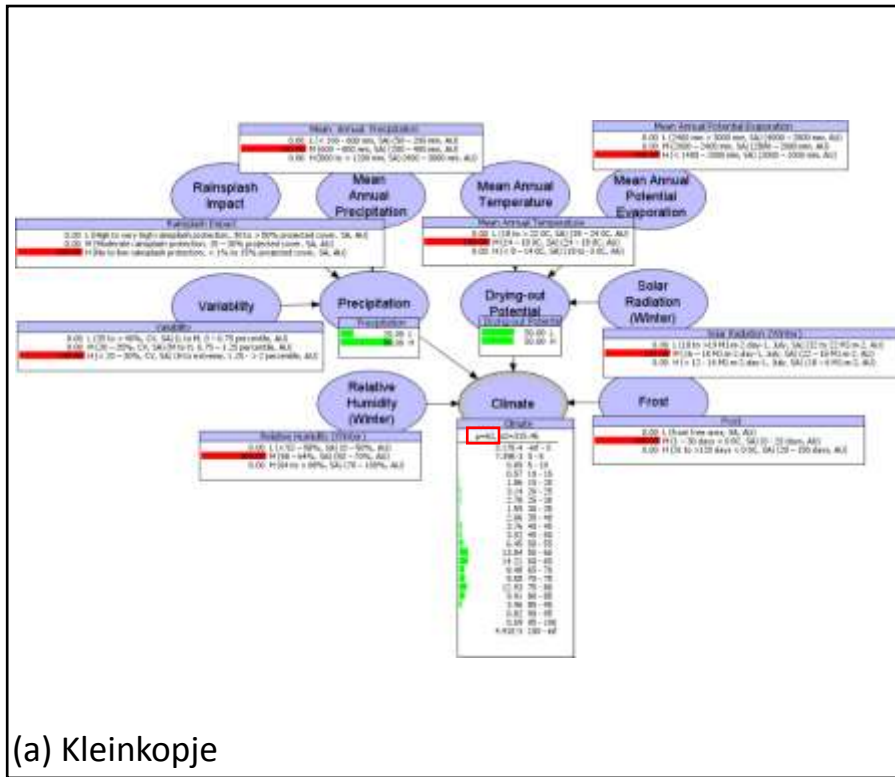**Supplemental Data, Appendix B. Risk source component BN model figures**

Fig. 1. Comparative results, for the Soils component BN model for Kleinkopje (a) and Caval Ridge (b). Data is entered into the BN models as observations and are indicated with red bars. This new information is then propagated through the rest of the BN to update the probability distributions of other nodes, indicated with green bars

Fig. 2. Comparative results, for the Climate component BN model for Kleinkopje (a) and Caval Ridge (b).
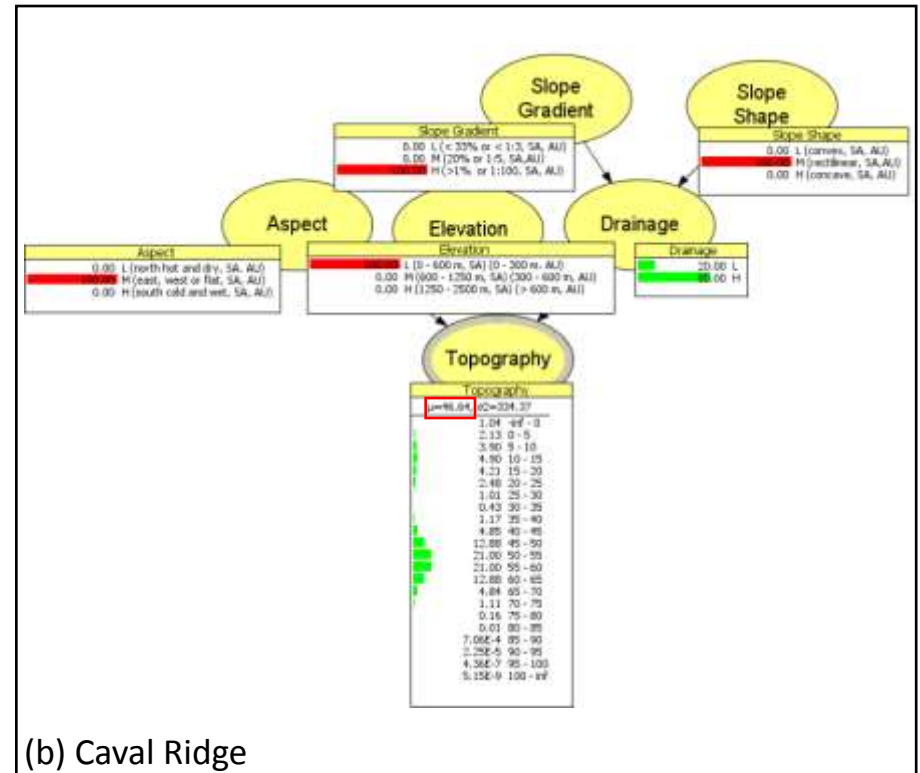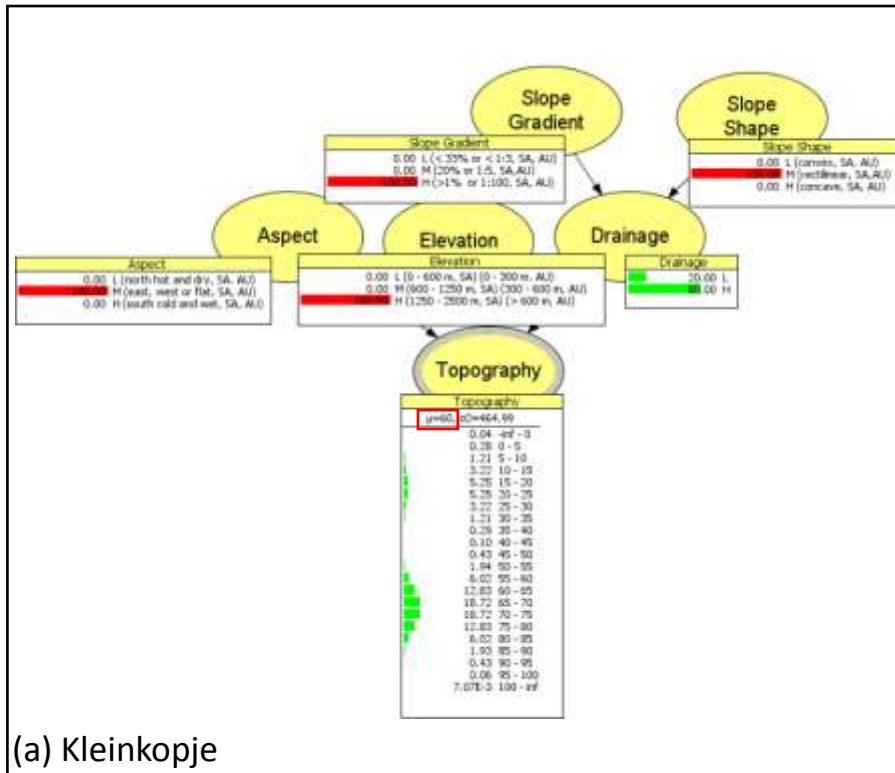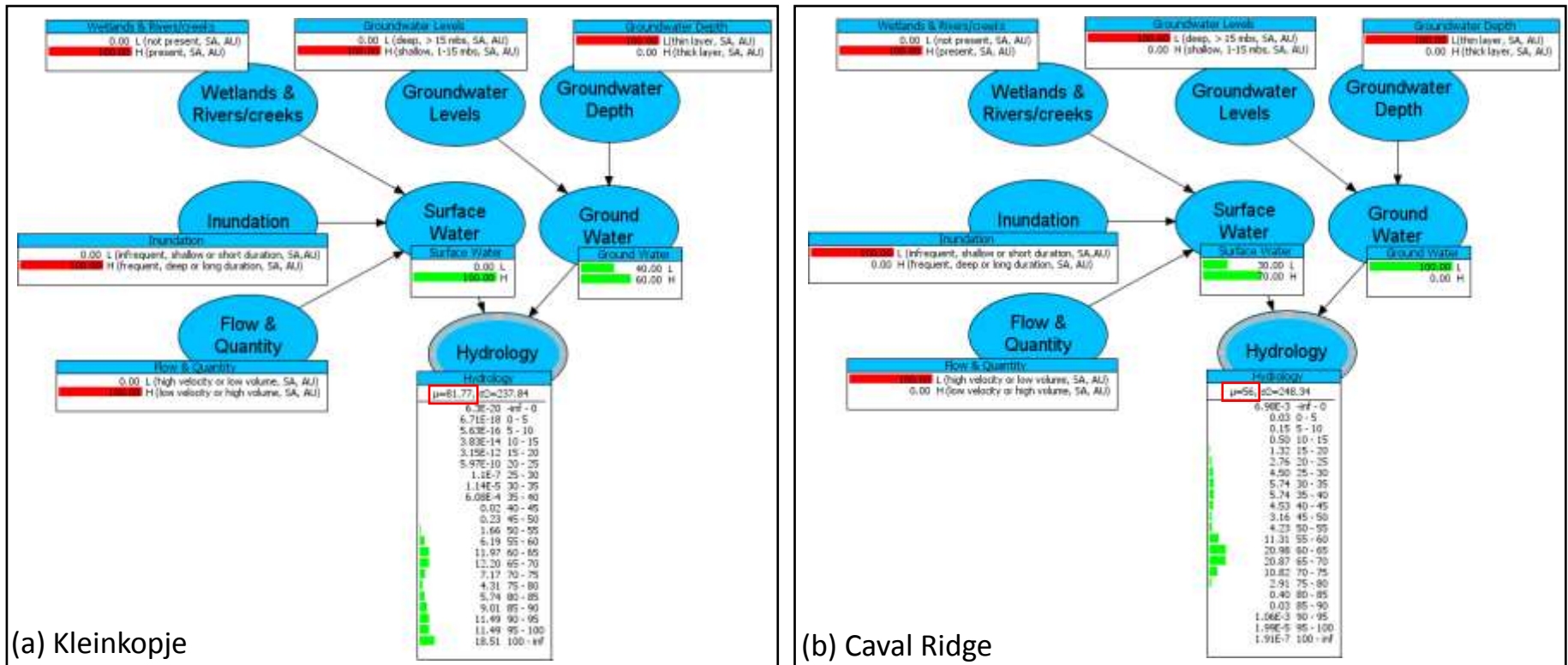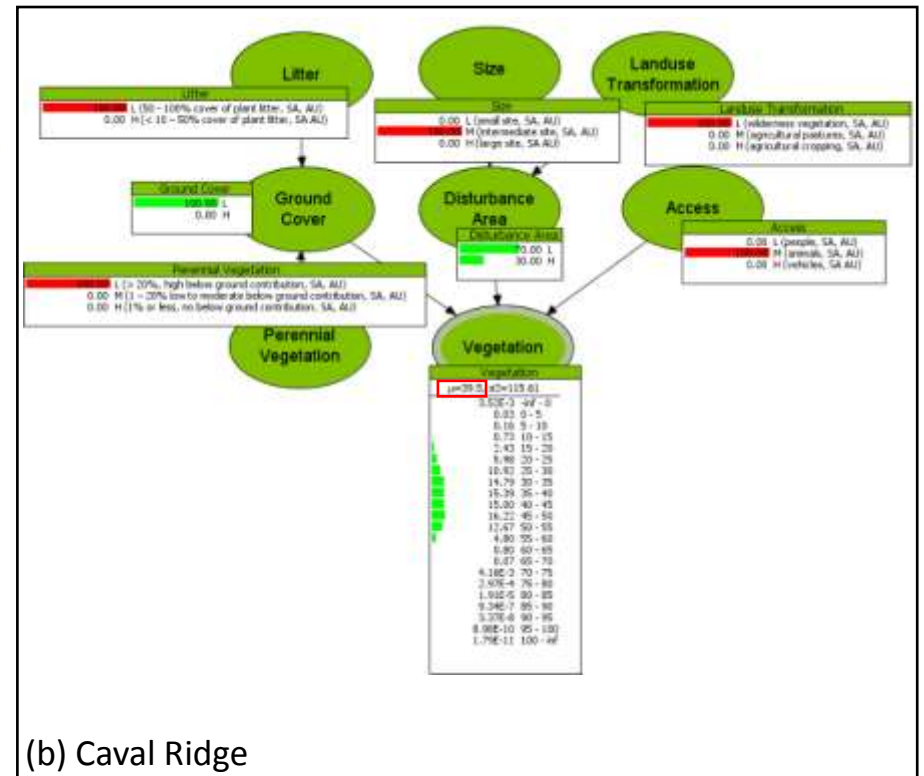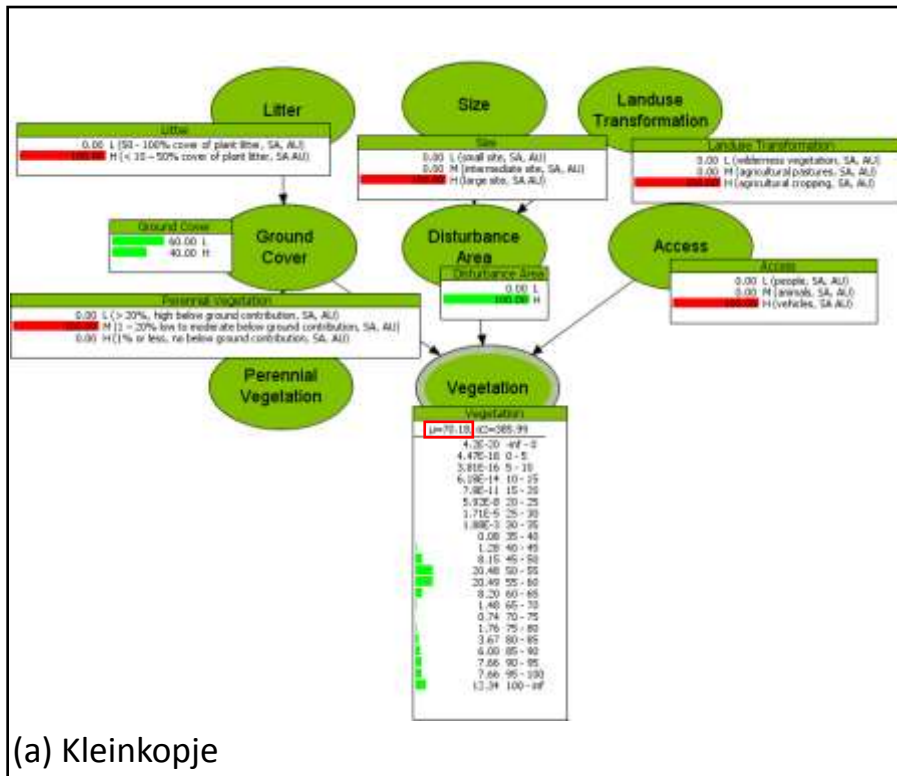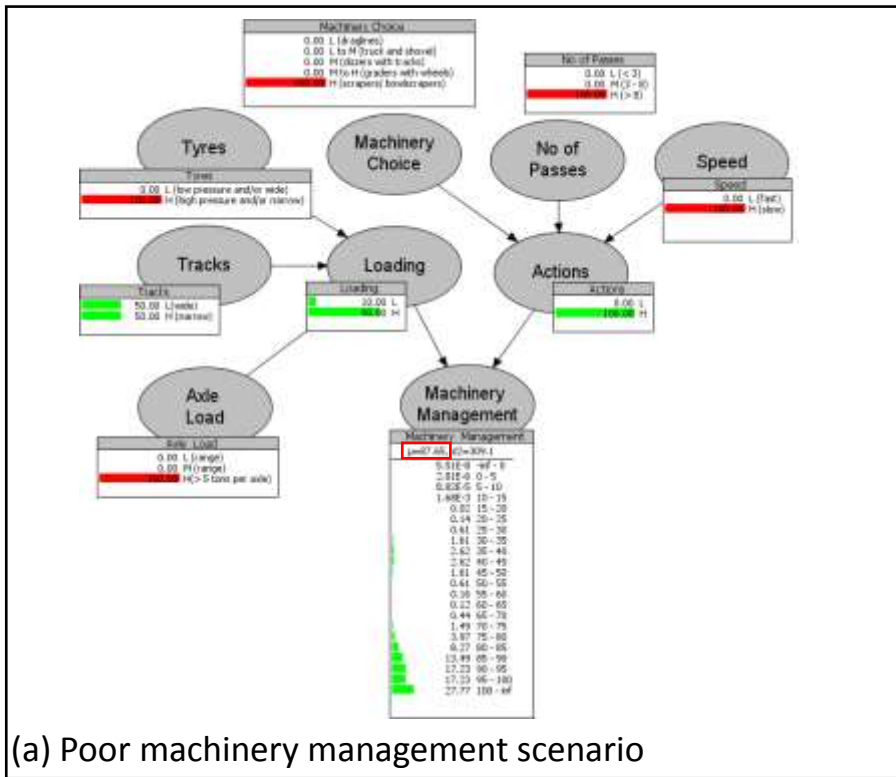
Fig. 3. Comparative results, for the Topography component BN model, for Kleinkopje (a) and Caval Ridge (b).
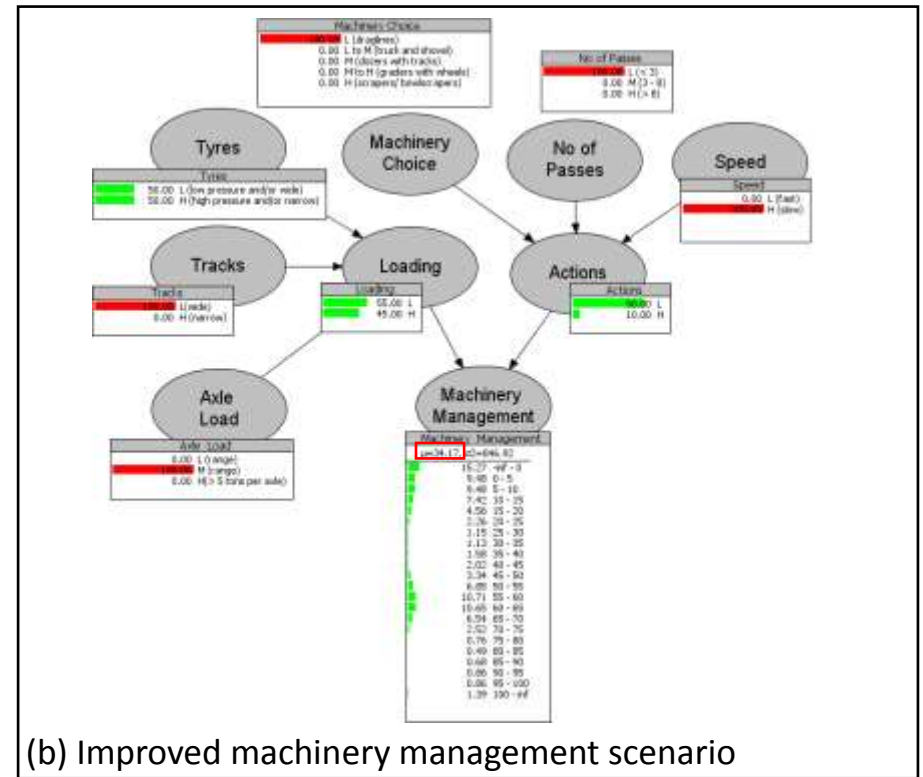
Fig. 4. Comparative results, for the Hydrology component BN model, for Kleinkopje (a) and Caval Ridge (b).

Fig 5. Comparative results, for the Vegetation component BN model for Kleinkopje (a) and Caval Ridge (b).
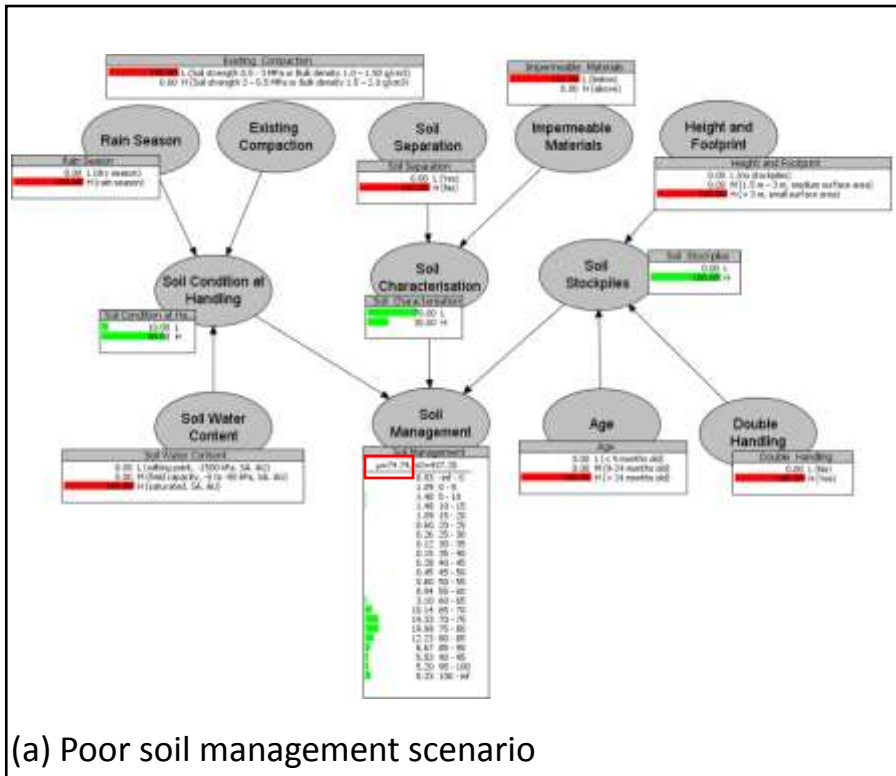
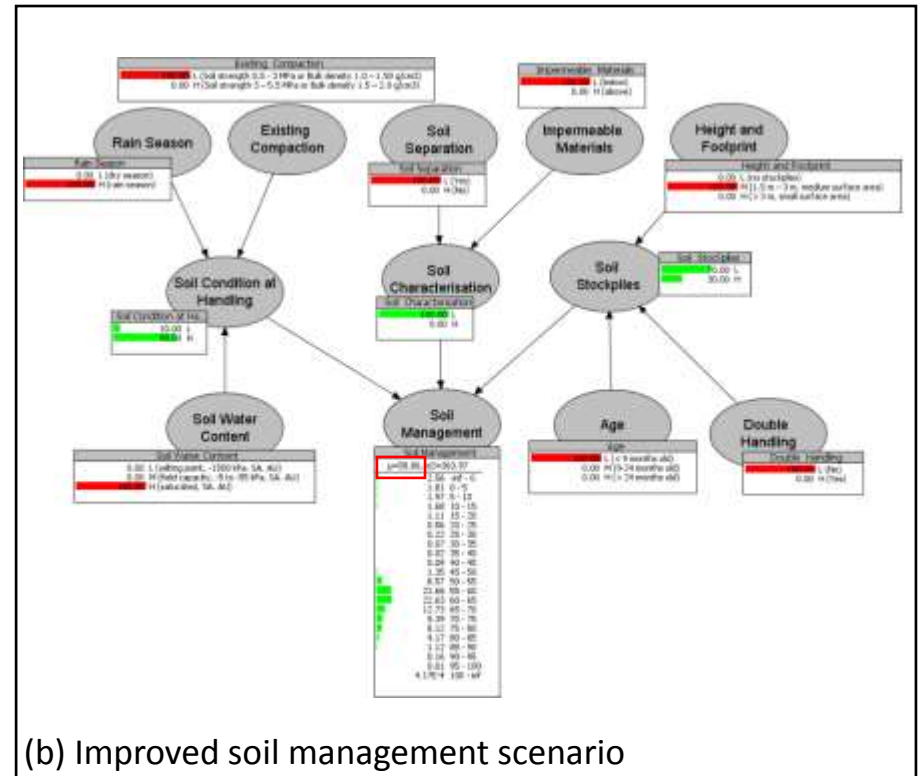**Fig 6.** Comparative results for the Machinery Management component BN model with a poor (a) and an improved management scenario (b).

Fig 7. Comparative results for the Soil Management component BN model with a poor (a) and an improved (b) management scenario.