

1. Specific Comments

Comment 1	Detailed comments about the choice of soil shear strength parameters should be added.
Answer and Modification	<p>[Answer] We used average values of internal friction angle and cohesion in the study area. Among total 58 geotechnical investigation boreholes, we obtained 13 boreholes database. In terms of soil shear strength, soil shear strength parameters were calculated based on the report from National Forestry Cooperative Federation (10 data set), while hydraulic properties are the test results based on the report from Korean Society of Civil Engineers (8 data set).</p> <p>[Modification] We added the description in the page 12, line 21 – 22 in Section 5.2.</p>
Comment 2	A description of initial conditions assumed for the TRIGRS model could be added.
Answer and Modification	<p>[Answer] In order to apply TRIGRS model, we made two main assumptions. First, we estimated hydraulic diffusivity and steady state infiltration rate from hydraulic conductivity based on the literature as shown in the page 12, line 27 – page 13, line 11 in Section 5.2. Second, we assumed that soil depth is 2 m and initial ground water table is the same as depth of soil thickness.</p> <p>[Modification] We added the description of initial assumption in the first paragraph in the page 13, line 12 – 17 in Section 5.2.</p>
Comment 3	Please revise reference Sorbino et al. (2010) (page 19 line 20): "Natural Hazards" instead of "Nat. Hazards Earth Syst. Sci".
Answer and Modification	<p>[Answer] We apologize for our mistake.</p> <p>[Modification] We modified the reference in the page 24, line 26 in References.</p>