

TABLE DR1. PDI VALUES FOR SOIL PITS AND COSMOGENIC AGES FOR NEAREST SAMPLED BOULDERS

Soil pit	Fan unit	Nearest sampled boulders*	Age <sup>†</sup> (ka)	PDI
Soil 1	West	FSF-AE, FSF-AD	139.0 ± 9.0	18.4
Soil 10		FSF-X	133.0 ± 19.9	2.9
Soil 11		FSF-AC	161.9 ± 28.0	12.3
Soil 2	North fan A	Average	13.2 ± 0.9	3.3
Soil 3		Average	13.2 ± 0.9	3.7
Soil 4		FSF-W, FSF-V1,V2	13.1 ± 0.4	3.1
Soil 5		FSF-C, FSF-B	11.8 ± 0.6	2.2
Soil 7		Average	13.2 ± 0.9	3.4
Soil 9		Average	13.2 ± 0.10	3.8
Soil 6	South fan	FSF-AH <sup>‡</sup>	1.5 ± 0.6	1.5

\*"Average" indicates that average exposure age for fan unit was used due to lack of nearby sample sites.

<sup>†</sup>Ages indicate individual boulder ages, or average age of boulders listed in column 3. Ages calculated using production rates of Nishiizumi et al. (1989).

<sup>‡</sup>Youngest boulder was chosen because soil PDI reflects most recent debris-flow deposition on south fan.