

Table S1 Spatial relationship between conditioning factors and historical landslides using frequency ratio method

Factors	Subclass	Pixels in Domain	Percentage of Domain (%)	Pixels with Landslide	Percentage of Landslides (%)	FR Value
Elevation (m)	516–700	41042	1.56	42	35.59	22.86
	700–900	199578	7.57	28	23.73	3.13
	900–1100	457802	17.36	28	23.73	1.37
	1100–1300	669439	25.39	11	9.32	0.37
	1300–1500	616496	23.38	9	7.63	0.33
	1500–1700	364727	13.83	0	0.00	0.00
	1700–1900	170949	6.48	0	0.00	0.00
	1900–2100	75400	2.86	0	0.00	0.00
	2100–2300	28293	1.07	0	0.00	0.00
	2300–2500	10311	0.39	0	0.00	0.00
	2500–2763	2485	0.09	0	0.00	0.00
Slope (°)	0–10	134147	5.09	21	17.80	3.50
	10–20	488228	18.52	36	30.51	1.65
	20–30	927360	35.17	32	27.12	0.77
	30–40	794942	30.15	23	19.49	0.65
	40–50	269518	10.22	3	2.54	0.25
	50–60	21531	0.82	3	2.54	3.11
	60–70	777	0.03	0	0.00	0.00
	70–74	19	0.00	0	0.00	0.00
Aspect	Flat	162829	6.18	7	5.93	0.96
	North	295253	11.20	18	15.25	1.36
	Northeast	355388	13.48	14	11.86	0.88
	East	376859	14.29	20	16.95	1.19
	Southeast	306409	11.62	22	18.64	1.60
	South	321254	12.18	10	8.47	0.70
	Southwest	338043	12.82	17	14.41	1.12
	West	318849	12.09	5	4.24	0.35
	Northwest	161638	6.13	5	4.24	0.69
Profile curvature	(-18.33)–(-1.87)	142896	5.42	6	5.08	0.94
	(-1.87)–(-0.68)	411616	15.61	12	10.17	0.65
	(-0.68)–0.36	1218102	46.20	50	42.37	0.92
	0.36–1.54	640304	24.29	39	33.05	1.36
	1.54–19.48	223604	8.48	11	9.32	1.10
Plan curvature	(-11.48)–(-1.30)	125001	4.74	7	5.93	1.25
	(-1.30)–(-0.45)	494413	18.75	20	16.95	0.90
	(-0.45)–0.19	989608	37.53	58	49.15	1.31
	0.19–1.04	801472	30.40	25	21.19	0.70
	1.04–15.57	226028	8.57	8	6.78	0.79

TWI	1.41–6	2009107	76.20	55	46.61	0.61
	6–9	481244	18.25	42	35.59	1.95
	9–12	95883	3.64	8	6.78	1.86
	12–15	29612	1.12	7	5.93	5.28
	15–23.74	20676	0.78	6	5.08	6.48
SPI	0–20	29795	1.13	10	8.47	7.50
	20–40	6605	0.25	2	1.69	6.77
	40–60	9282	0.35	1	0.85	2.41
	60–80	8520	0.32	6	5.08	15.73
	>80	2582320	97.94	99	83.90	0.86
STI	0–10	1467316	55.65	82	69.49	1.25
	10–20	1148396	43.56	36	30.51	0.70
	20–30	19775	0.75	0	0.00	0.00
	30–40	841	0.03	0	0.00	0.00
	>40	194	0.01	0	0.00	0.00
Distance to faults (m)	0–200	156617	5.94	10	8.47	1.43
	200–400	146079	5.54	10	8.47	1.53
	400–600	135684	5.15	12	10.17	1.98
	600–800	125480	4.76	7	5.93	1.25
	800–1000	120777	4.58	3	2.54	0.55
	>1000	1951885	74.03	76	64.41	0.87
Distance to roads (m)	0–100	109972	4.17	20	16.95	4.06
	100–200	87562	3.32	14	11.86	3.57
	200–300	80964	3.07	10	8.47	2.76
	300–400	78210	2.97	3	2.54	0.86
	400–500	75275	2.86	1	0.85	0.30
	>500	2204539	83.62	70	59.32	0.71
Distance to rivers (m)	0–100	423342	16.06	50	42.37	2.64
	100–200	380209	14.42	17	14.41	1.00
	200–300	348278	13.21	8	6.78	0.51
	300–400	308618	11.71	9	7.63	0.65
	400–500	253615	9.62	8	6.78	0.70
	>500	922460	34.99	26	22.03	0.63
NDVI	(-0.13)–0.28	57978	2.20	17	14.41	6.55
	0.28–0.41	175606	6.66	43	36.44	5.47
	0.41–0.48	539186	20.45	22	18.64	0.91
	0.48–0.54	1002348	38.02	23	19.49	0.51
	0.54–0.65	861404	32.67	13	11.02	0.34
Rainfall (mm/yr)	653–673	93654	3.55	0	0.00	0.00
	673–693	466030	17.68	5	4.24	0.24
	693–713	573189	21.74	32	27.12	1.25
	713–733	724650	27.49	47	39.83	1.45
	733–753	389002	14.75	15	12.71	0.86

	753–764	389997	14.79	19	16.10	1.09
Land use	Farmland	531645	20.16	46	38.98	1.93
	Gardenland	1231021	46.69	34	28.81	0.62
	Forestland	861886	32.69	34	28.81	0.88
	Commerical land	9889	0.38	4	3.39	9.04
	Industrial and mining storage land	2081	0.08	0	0.00	0.00
Lithology	Group 1	123884	4.70	1	0.85	0.18
	Group 2	639471	24.25	3	2.54	0.10
	Group 3	31452	1.19	2	1.69	1.42
	Group 4	1311573	49.75	111	93.22	1.89
	Group 5	4482	0.17	0	0.00	0.00
	Group 6	89099	3.38	0	0.00	0.00
	Group 7	21375	0.81	1	0.85	1.05
	Group 8	2655	0.10	0	0.00	0.00
	Group 9	10151	0.39	0	0.85	0.00
	Group 10	402380	15.26	0	0.00	0.00