



Supplementary Table 1: Landslide susceptibility occurrence based on different factors using Shannon entropy.

Parameters	Class	Class pixel	% Class pixel	Landslide pixel	% Landslide pixel	FR	Pij	Eij	1-Eij	Wj (Percentage)
Slope (Degree)	0-13.21	861795	10.84424	28	0.327447	0.030196	0.005626	-0.012658	-1.654055	0.136445
	13.22-26.42	2212666	27.84267	894.9999	10.46661	0.37592	0.070047	-0.080877		
	26.43-39.64	3444998	43.34949	5253	61.43141	1.41712	0.264059	-0.152705		
	39.65-52.85	1271370	15.99805	2134	24.95615	1.559949	0.290673	-0.155974		
	52.86-66.07	150808	1.897664	238	2.7833	1.466698	0.273297	-0.153966		
	66.08-79.28	5395	0.067887	3	0.035084	0.516795	0.096297	-0.097875		
Aspect	0-1 (Flat)	23685	4.118135	4.995206	0.058421	0.014186	0.001698	-0.004705	-1.917144	0.158148
	1.1-22.5 (North)	587191	7.388809	419.3304	4.904257	0.663741	0.079468	-0.087399		
	22.6-67.5 (Northeast)	1031603	12.98099	740.8206	4.904257	0.377803	0.045233	-0.060818		
	67.6-112.5 (East)	857666	10.79228	668.9293	7.823428	0.72491	0.086791	-0.092131		
	112.6-157.5 (Southeast)	972643	12.23907	1365.819	15.97386	1.305153	0.156262	-0.12597		
	157.6-202.5 (East)	1087467	13.68394	1769.168	20.69122	1.51208	0.181037	-0.134372		
	202.6-247.5 (Southwest)	1037263	13.05221	1748.203	20.44602	1.56648	0.18755	-0.136327		
	247.6-292.5 (West)	794697	9.999922	786.7407	9.201285	0.920136	0.110165	-0.105533		
	292.6-337.5 (Northwest)	979678	12.3276	633.9852	7.414741	0.601475	0.072013	-0.082281		
337.6-360 (North)	575139	7.237155	412.3432	4.822539	0.666358	0.079781	-0.087608			
Geology	PALAEOPROTEROZOIC	728154	9.273088	427.316	5.001753	0.539384	0.069955	-0.080811	-1.861005	0.153517
	PROTEROZOIC	1724703	21.9642	2319.288	27.14737	1.235982	0.160301	-0.127449		
	NEOPROTEROZOIC	1550929	19.75118	2137.579	25.02045	1.266783	0.164295	-0.128869		
	ORDOVICIAN - SILURIAN	1199504	15.27576	1899.959	22.2391	1.455843	0.188815	-0.136695		
	TRIASSIC - JURASSIC	432743	5.51101	430.3112	5.036812	0.913955	0.118535	-0.109782		
	CAMBRIAN	628648	8.005872	344.4487	4.031787	0.503604	0.065315	-0.077397		
DEM	PALAEOZOIC	1302339	16.58537	547.1243	6.404114	0.38613	0.050079	-0.06512		
	CARBONIFEROUS	285316	3.633518	437.3	5.118616	1.408722	0.182704	-0.134882		
	1284-2944	695052	8.729178	1494.608	17.49445	2.004135	0.33049	-0.158913	-1.534615	0.126592
	2945-3771	1357475	17.04857	2895.366	33.89038	1.987873	0.327808	-0.158784		
	9772-4466	1818902	22.84364	3573.281	41.82541	1.830943	0.30193	-0.157032		
	4467-5093	2271223	28.52436	549.1211	6.427486	0.225333	0.037158	-0.053134		
River	5094-6759	1819747	22.85426	30.95046	0.362277	0.015852	0.002614	-0.006751		
	0-75	144251	1.811808	220.6468	2.582681	1.425472	0.085236	-0.091149	-1.812179	0.149489
	75-150	141138	1.772708	474.2409	5.551011	3.131373	0.18724	-0.136236		
	150-225	136704	1.717017	476.2377	5.574384	3.246552	0.194127	-0.138202		
	225-300	134229	1.68593	432.308	5.060185	3.00142	0.17947	-0.133886		
	300-375	130975	1.64506	384.3847	4.49924	2.735001	0.163539	-0.128604		
	375-450	128673	1.616146	327.4758	3.833119	2.371765	0.14182	-0.1203		
	>450	7145747	89.75133	6228.031	72.89938	0.812237	0.048568	-0.063801		

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Received: 26-Sep-2022, Manuscript No. JGRS-22-18161; **Editor assigned:** 29-Sep-2022, PreQC No. JGRS-22-18161 (PQ); **Reviewed:** 13-Oct-2022, QC No. JGRS-22-18161; **Revised:** 19-Oct-2022, Manuscript No. JGRS-22-18161 (R); **Published:** 28-Oct-2022, DOI: 10.35248/2469-4134.22.11.261

Citation: Anand V, Sharma A, Sahni AK, Bano S, Jangra SK (2022) Landslide Susceptibility Mapping Using Shannon's Entropy Methods Using Hybrid Technique: A Case Study of Kinnaur District, Himachal Pradesh, India. J Remote Sens GIS. 11:261.

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	0-75	105545	1.325542	135.7827	1.590271	1.199714	0.070871	-0.081468	-1.802083	0.148656
	75-150	87516	1.099116	219.6484	2.572498	2.340516	0.138262	-0.118808		
Roads	150-225	78334	0.983799	284.5446	3.332554	3.387435	0.200106	-0.139822		
	225-300	70753	0.888589	310.503	3.636576	4.092531	0.241759	-0.149073		
	300-375	65223	0.819137	160.7427	1.882601	2.298273	0.135766	-0.117738		
	375-450	61893	0.777316	179.7124	2.104771	2.707743	0.159955	-0.127324		
	>450	7493138	94.1065	7247.4	84.88073	0.901965	0.053282	-0.06785		
		Dense Vegetation	716566	3.108051	140.0321	1.701714	0.547518	0.053111	-0.067707	-1.541401
LULC	Scrubs	3285420	14.25026	3779.866	45.93412	3.223388	0.312682	-0.157872		
	Builtup Area	53425	0.231727	43.00986	0.522669	2.25554	0.218797	-0.144397		
	Bare Ground	2819355	12.22874	4250.974	51.65917	4.224407	0.409785	-0.158769		
	Snow Ice	724851	3.143986	15.00344	0.182327	0.057992	0.005625	-0.012656		
		3.70000048 - 22.50000042	3472453	43.62721	3915.123	45.78951	1.049563	0.186218	-0.135935	-1.48553
Rainfall	22.50000043 - 41.30000079	2608538	32.77315	3869.927	45.26092	1.381037	0.24503	-0.14966		
	41.3000008 - 60.10000116	1766614	22.19539	406.0099	4.748508	0.213941	0.037958	-0.053927		
	60.10000117 - 78.90000153	111770	1.404256	359.2014	4.201057	2.991661	0.530794	-0.146008		