

**Tab.9** Response surface regression equation of the surface runoff coefficient to the coupling of contagion index and topographic relief

Impact factor	Response surface regression equation	Partial derivative	P value
Contagion index (W)and topographic relief (S)	$M=2.9W^2-0.23S^2+0.3W*S-4.7W+0.8S+1.2$	$\partial M/\partial W=5.8W+0.3S-4.7$ $\partial M/\partial S=-0.46S+0.3W+0.8$	0.033