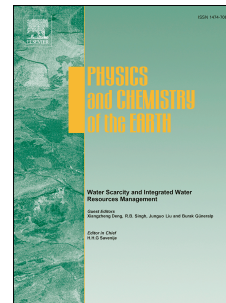


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Diffused impact of grassland degradation over space: A case study in Qinghai province

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1 **Diffused impact of grassland degradation over space: A case study in Qinghai**
2 **province**

3
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16
17 **Abstract**

18 Our study aims to simulate and detect the interregional association of livestock
19 production induced by grassland degradation in Qinghai province by TERM (The
20 Enormous Regional Model). The shock variable, grassland degradation, is set and
21 calculated by using its proxy, change of grassland area. We conclude that grassland
22 area is decreasing during 1990-2008 in Qinghai province, and the average reduction
23 rate is 1.591%. And grassland degradation in Qinghai province has a marginal effect
24 on the other regions in China. Livestock production of the other 30 provinces expands
25 in the case of the exogenous shock, and this impact is greater with a variation above
26 0.05% in Inner Mongolia, Tibet, Ningxia province and so on than the other regions.
27 Thus, construction of ecological projects like natural reserves in Qinghai province for
28 ecosystem conservation and livestock grazing benefits interregional equity and shrink
29 their differences.

30
31 **Keywords:** Grassland degradation; livestock production; TERM model; Qinghai
32 province

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