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Strategic instrumental analysis of rangeland management in China

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Key words : rangeland management , strategic instrumental analysis , China

Introduction Rangeland in China has been facing more stringent challenges in recent years , and the decision-makers should bring up a holistic instrumental package for managing the rangeland , combining not only the production and policy sides , but also the socio-economic analysis . Therefore , the purpose of this paper is to analyze the perspectives for rangeland management from various aspects , and the specific instrumental package for different rangeland pathways will be discussed and mapped using illustrative graphs .

Methodology The strategic analysis for instrumental package for rangeland will be shown in spider maps , in which different perspectives can be shown toward specific goals of rangeland management .

Results Degraded rangeland has been employed as an example in the Spider-map (Figure 1) . Due to its frangibility and sensitivity , the instrumental package should be targeting at conservation instead of intensive utilization (Hummon , 2004) , and the government should adopt strong regulations to speed recovery and encourage multi-use such as eco-tourism and environmental education . In terms of socio-economic respects , the degraded should not be used as common land , and the pastoral culture ought to dominate the concerned area . Meanwhile , subsidy or national trust from the central government would be the major source of revenues (Ward , 1998) . Similarly , better-quality rangeland can be also constructed on the map , which is supposed to be more market-oriented and featuring strategic intensive utilization for animal production should be the main purpose of these lands .

We can also take geographical factors into account ; for instance , the map can be drawn by characteristics of pastoral versus agro-pastoral regions .

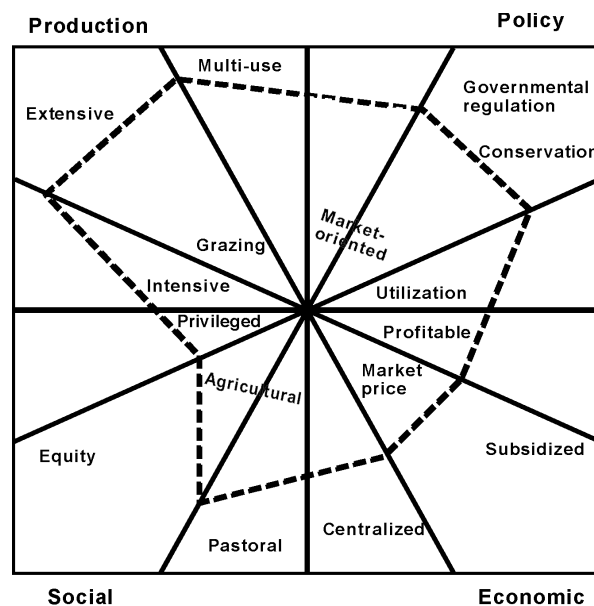


Figure 1 Instrumental analysis for degraded rangeland .

Conclusions Rangeland management in China should be tailored according different perspectives . Strategic instrumental analysis will combine the major aspects of this issue and provide an integrative decision-supporting tool for rangeland management in China .

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