Social Interactions in Landowners' Voluntary Participation:

Evidence from a Forest Incentive Program

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Abstract: Local community members share behavioral norms shaped by social interactions of

everyday economic life. The role of local community in natural resource management and the

influence of peers on individual behavior have been well documented in the literature, but little

is known yet about the effects of peer behavior on one's propensity to participate in incentive-

based payments for environmental services schemes. Identifying social interactions among

neighboring landowners helps a better understanding of non-pecuniary incentives of

landowners, which influence the efficiency of schemes, and the spatial configuration of enrolled

sites, which contributes to the provision of environmental services. This paper uses actual

contract data from a forest incentive program implemented in a Japanese mountainous area.

where a number of small local communities exist, to estimate peer effects on individual

participation. To obtain a consistent estimate of neighborhood effects, we employ a binary

choice model with social interactions, in which landowners are assumed to form rational

expectations of neighbors' participation. The results reveal that local community members'

behavior significantly increases the likelihood of individual participation, suggesting that

landowners tend to conform to peer behavior at the local community level.

Keywords: local communities; neighborhood effects; conformity; rational expectation

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