

### عنوان مقاله:

The spatial spillover effect of technical efficiency and its influencing factors for China's mariculture — based on the partial differential decomposition of a spatial durbin model in the coastal provinces of China

### محل انتشار:

مجله علوم شیلات ایران، دوره 19، شماره 2 (سال: 1398)

تعداد صفحات اصل مقاله: 13

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### خلاصه مقاله:

Using mariculture data from China's nine coastal provinces from ۲۰۰۳ to ۲۰۱۵, this paper first evaluates the technical efficiency through data envelopment analysis (DEA). Then, this paper analyses the spatial spillover effect of technical efficiency and its influencing factors with a spatial panel Durbin model (SDM). The results indicate that there are obvious regional differences in the technical efficiency of China's mariculture, and there is a great room for improvements in the technical efficiency of most areas. The results evidence a significant positive spatial correlation in the technical efficiency of China's mariculture. The technology promotion factor is beneficial for improving technical efficiency, and at the same time, this factor can produce a positive spatial spillover effect on the surrounding areas. The level of economic development clearly has a positive effect on the technical efficiency of the region, and the surrounding area has a negative spatial spillover effect. Moreover, the labor input has a negative effect on technology efficiency. The negative impact of the degree of disaster on technical efficiency is not significant

### کلمات کلیدی:

Mariculture, China, Technical efficiency, Influencing factors, Spatial spillover effects

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