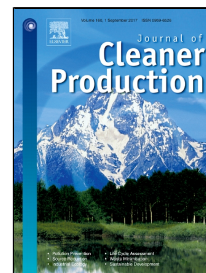


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Agricultural Pollution and Regulation: How to Subsidize Agriculture?

You-hua Chen, Xiao-wei Wen, Bo Wang, Pu-yan Nie



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1 Agricultural Pollution and Regulation: How to Subsidize Agriculture?

2 You-hua Chen^a, Xiao-wei Wen^{a,1}, Bo Wang^a, Pu-yan Nie^b3 ^a College of Economics & Management and Guangdong Center for Rural Economic
4 Studies, South China Agricultural University, 510642, Guangzhou, P.R. China.5 ^b Guangdong University of Finance & Economics, Guangzhou, 510320, P.R. China
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7 **Abstract** Agricultural pollution is extremely serious in China, and agricultural output
8 quantity subsidy makes it even worse. This paper captures the impacts of agricultural
9 subsidy, including quantity subsidy and innovation subsidy, on agricultural pollution.
10 Agriculture output quantity, total pollution or emission, equilibrium price, consumer
11 and producer surplus, government budget, and social welfare are all addressed in this
12 study. The results show that emission-reducing innovation subsidy is better than
13 quantity subsidy because it reduces the pollution from agriculture and profits for the
14 agricultural firm are higher under innovation subsidy than under quantity subsidy.
15 More importantly, output quantity and consumer surplus under innovation subsidy are
16 also larger than those under quantity subsidy if the subsidy rate is not too high. This
17 study finds that the importance of the environment to the consumer, marginal
18 emission, and pollution tax will decrease output quantity, consumer and producer
19 surplus and social welfare; however, agricultural subsidy increases them.
20 Furthermore, this study indicates that innovation subsidy can alleviate the “food
21 quantity safety and quality of environment” dilemma in agriculture.

22

23 **Key words** Agricultural pollution; agricultural subsidy; pollution tax; food safety

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25 JEL Classifications Q52; D24; L12

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¹ Corresponding author: wxwcn@126.com (Wen, X.W.)

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