

Abstract.

Various results of erosion research on highland vegetable farming land indicate that the erosion level is classified as dangerous. This condition cannot be tolerated, because it will cause economic problems in the future both society and government. For farmers who are actively processing potatoes, the longer the farming the greater the cost of production so that the rate of profit gained tends to decrease. For the government, environmental degradation will reduce the possible use of the budget for the development of social welfare because the available funds are used to finance the prevention and handling of environmental disasters such as floods and landslides. The purpose of this study is to find out how many profit opportunities are lost due to erosion occurring in potato farming, using the method of analysis of agricultural systems and then calculate the opportunity price of potato farming system. The results of this study indicate that the value needed to reduce erosion by 0.54 t.ha⁻¹ in one harvest season was IDR. 5,605,556.-. The opportunity to earn a profit of IDR. 5,600,000.- will be lost if farmers do not apply conservation techniques to potato farming in sub-districts Tinggimoncong