SELECTION OF PLANTS FOR PRODUCTION OF SUBSTRATES AND CULTIVATION OF MUSHROOMS

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Abstract. *Any industrial production implies a profit. Minimizing investment, including by reducing investment in construction, directly affects the payback period of investment that increases profits. The goal of research in this paper is to assess the possibility of reducing the capital costs of building enterprise for the production of substrates and mushroom cultivation by optimizing capital costs for construction of the combination of several technological operations in one place. Evaluation of options held under conditions of equal value building materials and standard cost of construction works for all of your productions. The valuation was performed by the criterion of optimizing the structure of the workshop, which is characterized by the ratio of the required number of building materials to bulk plant productivity on the substrate. The starting materials for research are data flow charts for growing mushrooms. Analysis of the results of research to draw conclusions that are preferred embodiments of the structure of the plant at one building for each technological operation. But in a step-wise development of enterprises producing fungi can be used for the scheme which germination mycelium and mushroom cultivation is carried out in a cultivation room that can be offered the option of structural and technological scheme, which provides for the phased commissioning of production facilities to afford to each stage of commodity production.*

Key words: ***mushrooms, cultivation of mushrooms, pasteurized substrate conditioning substrate hydrolysis straw mycelium***