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The Express Method for Assessing the Degraded Lands Reclamation Costs

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Abstract. The article deals with the problem for the cost express-assessment of land reclamation, degraded in the production activities process. It is proposed to use a calculation method based on the compounding interest principle, since this approach is fully consistent with the budget planning applied principles at enterprises. The study compared the results for assessing the cost of the traditional and the proposed approaches reclamation, based on the actual data of three projects implemented in different years in the Samara region. At the lowest cost, rapid assessment delivers results with a high degree of accuracy. In two of the three projects considered, the deviation of the calculated result from the actual one was from 0.6 to 2.4%, which falls within the statistical error



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THE EXPRESS METHOD FOR ASSESSING THE DEGRADED LANDS RECLAMATION COSTS

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The article deals with the problem for the cost express-assessment of land reclamation, degraded in the production activities process. It is proposed to use a calculation method based on the compounding interest principle, since this approach is fully consistent with the budget planning applied principles at enterprises. The study compared the results for assessing the cost of the traditional and the proposed approaches reclamation, based on the actual data of three projects implemented in different years in the Samara region. At the lowest cost, rapid assessment delivers results with a high degree of accuracy. In two of the three projects considered, the deviation of the calculated result from the actual one was from 0.6 to 2.4%, which falls within the statistical error boundaries. In the third project, it can be seen that the deviation is 66.7%. At the same time, the difference between express assessment and the cost of only the agrotechnical stage is 6.6%. This case applies to various emergencies such as oil spills. In this case, the use of the express method is only partially possible (when calculating the costs of the agro-technical stage) and it must be supplemented by calculations related to the disposal and treatment of contaminated soil. Perhaps the amount of costs in this case will be directly proportional to the reclaimed land volume.

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