

630\*36, 630\*96, 630\*181.351, 630\*182.21

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## Исследование применимости данных информационно-аналитических систем для проектирования и моделирования технологических процессов лесозаготовительных работ

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## The study of the applicability of data analytical systems for technological logging processes designing and modeling

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*In the last decade, there has been an active computerization of production processes, allowing to bring the level of management decision making to a higher automated level, eliminating the influence of subjective factors on the final result, but at the same time reflecting the bulk of a large number of parameters of input variables. The emergence of a large number of computerized high-performance equipment for logging operations inevitably leads to the conclusion that it is necessary to use analytical systems for processing a large array of data based on spatial GIS-technologies. At the same time, there is a lag in the regulatory framework used for the planning of performance indicators and the design of new enterprises. The existing information and analytical complexes have a low level of adaptation to the specific features of the logging industry, which does not allow the full cycle of the wood harvesting process to be fully included in the analytical base, starting with the selection of rental base and ending with the delivery of finished products of deep processing. The production diversification observed in the logging industry also requires a transition to automated decision-making systems. Small experience of their operation in the field of timber-preparation production does not allow to fully evaluate the functional-*

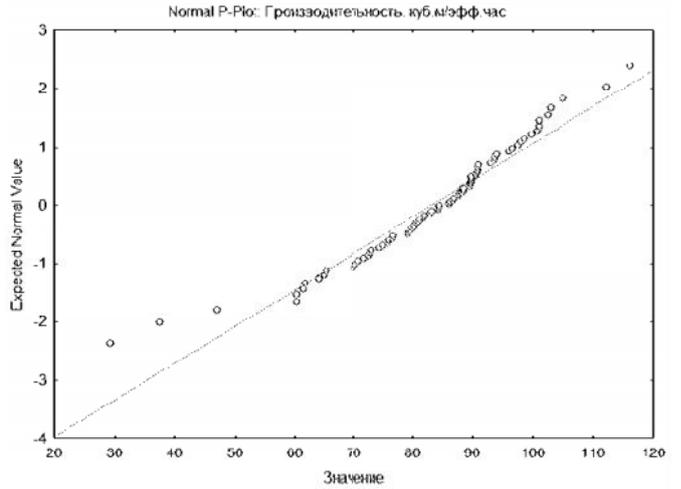




[16;17].

[18].

[19].



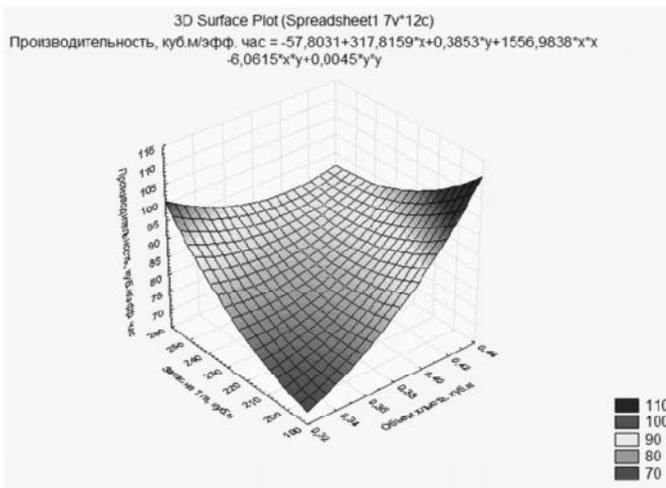
. 2.

З	$(\frac{\dots}{\dots})^{\frac{3}{\dots}}$
0,22–0,29	26,8/62,7
0,30–0,39	30,5/75,9
0,40–0,49	37,1/88,03
0,50–0,59	44/100,8

.1

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[20].



. 1.

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. 1

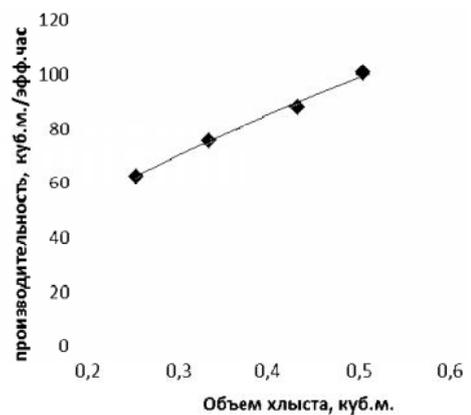
« » « ».

STATISTICA 6.0,

[21].

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$$= 157,16 x^{0,6677} \cdot 0,6^3$$



. 3.

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