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«Technological Parameters for Vehicles in the Organization of Cargo Transportation in the Agro-Industrial Complex»

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Problem statement

- In all cases, the definition of the objectives of the pilot study, formulation of hypotheses, construction of quantitative models, or justification of a hypothetical expected results of the experiment are performed theoretically and precede each of the experiments. Experiment planning, interpretation and explanation of its results, preparation of proposals on their practical use also belong to the field of theoretical research. The efficiency of the transport process is influenced by many factors: weight of cargo, volume of cargo, the distance travelled. In addition, it is necessary to establish the relationship of the studied parameters on the factors of transportation. For this purpose it is necessary to classify clearly the parameters (indicators) which characterize these performance factors most objectively.
The experimental procedure includes the following: – collection of experimental data characterizing the mode of traffic movement; – the use of vehicle sensors and modern devices that measure and register the required parameters. Purely experimental research does not exist.
Conclusions

Picture. Dependence of the body volume and the nominal cargo-carrying capacity on the cargo density.

1. The results of the studies of cargo traffic allowed to assess and identify the most problematic areas in cargo transportation in the field of the AIC.
2. The results of experimental studies confirmed the nature of dependencies of choosing the vehicle on the kind of transported cargo.
3. The regularities of the experimental studies allowed to develop a model of the routes taking into account transportation efficiency.
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