IMPROVEMENT OF PERFORMANCE PARAMETERS FOR EEP-500 SPRAYING MACHINE THROUGH USING BRAVO-300 COMPUTER

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SUMMARY

The herbicides still are the main way to control the weeds from agricultural crops. In order to use them rationally today are available some European directives, which intent to restrict the agrochemical residues from food products and from phreatic line, requirements that enforce farmers to be more efficient and more strict in problems related with agrochemical applications.

Improvement of constructive and functional parameters for the sprayers used for agrochemical applications has purpose to assure better working conditions for users, to increase treatment quality and low environmental pollution.

In this paper we point out the possibility to use BRAVO-300 computer on EEP-500 spraying machine, which is manufactured at S.C. TEHNOFAVORIT S.A., in order to improve its performance parameters.

BRAVO300 is a computer capable of controlling distribution of chemical products on sprayers equipped with valve control unit from 1 to 5 section valves. During the operation with EEP-500 field sprayer equipped with BRAVO300 the operator can have in a real time mode accurate information on working speed, traveled distance, liquid delivered per hectare, total surface area treated, the quantity of liquid sprayed, working time, working liquid pressure, liquid flow rate and stores the quantity of liquid into the tank (it’s possible also to measure in real time the liquid quantity when the tank is filled). Also, it’s possible to print the data of the field counters related to treatment data and guideline data.

Through using EEP-300 field sprayer equipped with BRAVO-300 computer it was possible to improve the operation quality without errors and to maintain the liquid rate on surface. Also, it has the advantage that improves the working conditions for operator.

BIBLIOGRAPHY

1. Drocas, I. Norme europene impuse masinilor pentru tratamente fitosanitare, Revista Protectia Plantelor, nr.58/2005
*** Bravo 300 – User’s manual, 2006