



# Agricultural Journals

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# Res. Agr. Eng.

## Vítěz T., Trávníček P.:

### Particle size distribution of sawdust

# and wood shavings mixtures

Res. Agr. Eng., 56 (2010): 154-158

Particle size distribution of the sample of waste sawdust and wood shavings mixtures were made with two commonly used methods of mathematical models by Rosin-Rammler (RR model) and by Gates-Gaudin-Schuhmann (GGS model). On the basis of network analysis distribution function  $F(d)$  (mass fraction) and density function  $f(d)$  (number of particles captured between two screens) were obtained. Experimental data were evaluated using the RR model and GGS model, both models were compared. Better results were achieved with GGS model, which leads to a more accurate separation of the different particle sizes in order to obtain a better industrial profit of the material.

## **Keywords:**

wood shavings; sawdust; particle size distribution; modelling

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