



# Agricultural Journals

*Research in*

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# Res. Agr. Eng.

## Koszel M.:

### Influence of fan flat nozzles wear degree on drop tracks size

The subject of the analysis was the influence of working parameters (working pressure and working speed) on the drop tracks size and changes in the flow rate level from flat fan nozzles. New nozzles were tested. It was found that the increase in the flow rate depends on the nozzles size and their working time, and that the increase in the drop track size is caused by the nozzles wear. An excessively low working pressure or working speed causes drops merging. This phenomenon is especially dangerous when using nozzles with a considerable degree of wear for agricultural spray since it poses ecological threat to the environment.

**Keywords:**

spray; drop tracks size; nozzles wear; flow rate

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