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Res. Agr. Eng.

Prikner P., Grečenko

A.:

Farmland protection by means of tyre load

rating

Res. Agr. Eng., 53 (2007): 8-13

At present, the professionals in the industry and farming still miss comparative technical data indicating the potential of agricultural vehicles and mobile machinery to inflict compaction damage upon the cultivated soil. Harmful compaction means especially the increase of soil bulk density above a critical level required for efficient plant production. In general, it seems reasonable to restrict the excessive soil compaction by loaded wheels starting from the design of farm power and machinery, which means to provide technical data on the compaction potential of tyres. This paper presents the technique of tyre rating by means of the index Compaction Capacity (CC), which simply reflects the compaction potential of any individual tyre contained in a tyre catalogue within the whole range of loads and inflation pressures.

Keywords:

agricultural tyres; soil compaction modelling; compaction capacity; tyre

rating

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