THE SOIL PHOSPHATE STATUS ASSESSMENT BASED UPON THE PHOSPHATE BUFFER CAPACITY INDICES

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Phosphate plant nutrition problem is acute and urgent. Therefore, it is necessary to use new methodological approaches for an objective diagnosis of soil phosphate to assess potential reserve of phosphate pools in soils of various genesis. Phosphate regime of soil must be assessed not only in terms of phosphates availability but of phosphate buffer capacity also. The results of the soil phosphate status research in terms of the phosphate buffer capacity indices for the soils of various geneses are shown. It is found that the sod-podzolic sandy soil has higher buffer capacity coefficient in the mobilization wing compared with other soil varieties. In gley soils the decrease is observed in available phosphates.

Key words: buffer capacity, characteristics, phosphate mobilization, accumulation.

References