

EFFECTS OF DIFFERENT FORMS OF NITROGEN IN COMBINATION WITH DIFFERENT DOSES OF CALCIUM IN FORM OF GYPSUM ON YIELDS

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ABSTRACT

To valorise sediments left after iron mineral extraction in an area of about 2500ha of coverage in Liberia, a concept of appropriate fertilizer was developed. A comparative study was carried out on two types of soil : the first one was enriched in organic matter, and the second one was formed exclusively with sediments. The results showed that the choice of different types and forms of fertilizer on one hand, associated with the choice of different plant species on other hand, have an important impact on the movement and availability of soil nutrients, thereby on the augmentation of crop yields. With or without organic matter, no significant effect on yields was obtained with different doses of nitrogen fertilizers, compared to the application of different doses of combinations from calcium nitrogen fertiliser and calcium and potassium (in form of sulfate).

Keywords: Sediments, fertilizer, movement, oat, Chinese cabbage, perennial rye-grass, Liberia.