## EFFECT OF NITROGEN FERTILIZER AND DATES OF SOWING ON SOME RICE CULTIVARS

## II- CHEMICAL AND TECHNOLOGICAL PROPERTIES

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## ABSTRACT

This investigation was carried out at the Rice Research and Training Center, Sakha, Kafr - El-Sheikh Egypt during 1993 and 1994 season to study the effect of N levels and sowing dates on chemical and technological properties of some rice cultivars. The results obtained were as follows:

Early sowing gave the highest significant effect on N-uptake in grain and maximum protein yield /ha, whereas sowing rice at medium date produced the maximum percentages of hulling, milling and head rice. On the other hand, N-uptake in straw, crude protein and amylose content were significantly increased by delaying sowing dates up to June, 15<sup>th</sup>.

N-uptake in grain and in straw, protein %, protein yield /ha and head rice percentage were significantly increased by increasing N levels up to 144 Kg N/ha, whereas milling rice, amylose content and gel consistency were not

significantly affected.

Giza 176 cultivar surpassed significantly the other tested cultivars in Nuptake in grain and protein yield/ha. Giza 177 cultivar gave the highest protein %, hulling %, milling % and head rice percentage, whereas no significant differences were obtained among rice cultivars in amylose content and gel consistency.