Studies on the Nutrition of Rice Plant with Reference to *Helminthosporium* Leaf Spot (Preliminary report)

**IX. Absorption of Nutrients by Root and Metabolism of Nitrogen and Carbohydrate in Plant as Affected by Hydrogen Sulphide.**

Isamu Baba, Yosuo Takahashi, Iwahoi Iwata and Koichi Tajima

(National Institute of Agricultural Sciences)

**Summary**

To elucidate the influence of H$_2$S on nutrient absorption and metabolism of nitrogen and carbohydrate, a solution culture experiment was carried out. Just after the addition of H$_2$S to the solution, absorption of K$_2$O and SiO$_2$ was inhibited at first accompanied with such disturbances in carbohydrate metabolism as an increase in reducing and non-reducing sugar contents, and a decrease in starch content. But afterward when the inhibition of nutrients absorption and carbohydrate metabolism became extreme, nitrogen metabolism was also disturbed, resulting in the increase in soluble-N content and decrease in protein-N content.