

Determining the Methyl bromide residue in treated wheat.

M. R. AFSHARI & M. S. TAHERI

Plant Pests & Diseases Research Institute

ABSTRACT

In this study wheat grains were treated with methyl bromide at the recommended dosage rate (40 gr/m³) and samples were taken at 18 different periods ranging from 1hr. to 80 days after treatment. Bromide residue was determined and the results showed that the total amount of bromide reaches the permissible level within 2 days after treatment based on the 50 ppm tolerance level for this material.

References

- BRIDGES, R. G., 1955. N-Methylation as a result of fumigating wheat with Methyl bromide. *J. Sci. Fd. Agric.*, 6: 261-268.
- CLEGG, K. M. & LEWIS, S. E., 1953. The vitamin-B content of foodstuff fumigated with methyl bromide. *J. Sci. Fd. Agric.* 4: 548-552.
- WHO/FAO, 1967. Evaluation of some pesticide residues in food. Rome, FAO PL: CP/15, Geneva, WHO/ food Additives.
- GUNTER ZWEIG, 1964. Analytical methods for pesticides, plant growth regulators and food additives Vol. III. P. 159-164.
- HEYWOOD, B. J., 1955. Pesticide residue in total diet samples bromine content. *Science* 152, 1408.
- WINTERINGHAM, F. P. W., 1955. The fate of labelled insecticides in food products. *J. Sci. Fd. Agric.* 6: 269-274.

Address of the authors: M. R. AFSHARI, Pesticide Research Department & Eng. M. S. TAHERI, Harmful Insects to Plants Research Department. Plant Pests & Diseases Research Institute. P. O. Box 1454 - 19395 Tehran.