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TITLE: HEALTH IMPACTS OF MERCURY CYCLING IN CONTAMINATED ENVIRONMENTS IN CHINA STUDIED BY NUCLEAR TECHNIQUES

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HIGHLIGHTS AND ACHIEVEMENTS

Relationship between atmospheric mercury and plant leaves mercury content Hg in plants came both from soil and the atmosphere. On the whole, Hg contents in plant leaves increased with the increase of air-Hg, the correlation equation was:

$$y = 0.0173x - 0.3204$$

Calculation from this equation showed that the accumulation of Hg in plants stemmed mainly from soil rather than atmosphere when air-Hg was lower than 18.5 ng/m^3 , however contribution of air-Hg to plant Hg accumulation was increasing with the increase of Air-Hg when its concentration was higher than 18.5 ng/m^3 .