

# The Investigation on Heavy Metals ( Cadmium, Mercury and Lead ) in Rice in Fiscal Year 92

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## ABSTRACT

In order to understand the contents of heavy metals (cadmium, mercury and lead) in rice in Taiwan, rice samples that were provided by the rice mills were collected from February 2003 to December 2003. Seventy-three rice samples of the first crop rice and 93 rice samples of the second crop rice were analyzed. The results showed that the total average content of cadmium in rice was 0.05 ppm (N.D.~0.28 ppm), the average content of mercury was 0.003 ppm (N.D.~0.009 ppm) and the average content of lead was 0.03 ppm (N.D.~0.15 ppm). The average contents of cadmium, mercury and lead of the first crop rice were 0.05 ppm (N.D.~0.23 ppm), 0.004 ppm (N.D.~0.009 ppm) and 0.03 ppm (N.D.~0.15 ppm) respectively. The average contents of cadmium, mercury and lead of the second crop rice were 0.06 ppm (0.01~0.28 ppm), 0.002 ppm (N.D.~0.008 ppm) and 0.03 ppm (N.D.~0.14 ppm) respectively. In this investigation, all rice samples shown to be in good safety and under control. The contents of cadmium, mercury and lead in rice were all in compliance with the regulation.

Key words : rice, heavy metal, cadmium, mercury, lead