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1: J Environ Monit. 2001 Feb;3(2):210-6.

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Airborne chemical compounds on dairy farms.

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The chemical environment that dairy farmers are exposed to during milking was investigated. Volatile organic compounds (VOCs) were analysed and identified, and the levels of formaldehyde, ammonia and carbon dioxide were measured in eight farms in northern Sweden. Both stationary and personal samples were taken. A total of 70 VOCs were identified from the adsorbent samples, with p-cresol, 2-butanone, ethyl acetate, alpha-pinene and delta 3-carene occurring at the highest levels. All monitored levels were significantly lower for compounds having a stated highest occupational exposure level (OEL). Using multivariate techniques some differences in the composition of the workplace air between and within the farms were found. No difference was found between personal exposure and the surrounding environment in the cowshed.

PMID: 11354733 [PubMed - indexed for MEDLINE]

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