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Honey bees (Apis mellifera L.) have been shown to be multi-media monitors of chemical exposures and biotic effects. However, most methods of measuring **honey** bee colony population dynamics have been time-intensive and subject to observer error. This four-year project has developed an automated system to assess ... humidity in the brood nest, total hive biomass, pollen collected, and a full spectrum of ambient weather information. Pollen, dead **bees** removed by housekeeping **bees**, and the chemical composition of the air inside the hive can be sampled daily. Field applications are ongoing at the ...

[New and Improved Methods for Monitoring Air Quality and the Terrestrial Environment](#) May 2001 211 pages

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Full Text

Honey bees (Apis mellifera L.) are multi-media monitors of chemical exposures and biotic effects. This six-year project has developed an automated system to ... chemicals in ambient air and the air inside beehives, persistent pesticides and PCBs in **bees** and pollen, and radionuclides in **bees** and pollen. The resultant chemical data set includes locations throughout the Canal Creek, Old O Field, Bush River ... of Chesapeake Bay. This final technical report provides: 1) a statistical approach for processing **honey** bee population dynamics data, 2) results of calibration trials for real-time monitoring ...

[New and Improved Methods for Monitoring Air Quality and the Terrestrial Environment: Applications at Aberdeen Proving Ground-Edgewood Area](#) Mar 1998 150 pages

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Full Text

Honey bees (Apis mellifera L.) have been shown to be multi-media monitors of chemical exposures and resultant effects. This five-year project has developed an automated system to assess in real-time colony behavioral responses to stressors, both anthropogenic and natural, including inclement weather. Field trials at the Aberdeen Proving Ground-Edgewood included the Old O Field and J field landfills, the Canal Creek and Bush River areas, and a Churchville, MD reference site. Preliminary results show varying concentrations of bioavailable inorganic elements and chlorinated hydrocarbons in ...

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Honey bees (Apis mellifera L.) are multi-media monitors of chemical exposures and biotic effects. This five-year project has developed an automated system to assess in real-time colony behavioral responses to stressors, both anthropogenic and natural, including inclement weather. 1998 field trials at the Aberdeen Proving Ground-Edgewood area included the Old O Field and J Field landfills, D Field and Boundary Areas, and a Churchville, MD reference site. Preliminary results indicate that in general the levels of organic contaminants seen at APO sites are no better or worse than ...

[New and Improved Methods for Monitoring Air Quality and the Terrestrial](#) May 2000 169 pages

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Honey bees (Apis mellifera L.) are multi-media monitors of chemical exposures and biotic effects. This six-year project has developed an automated system to assess in real time colony behavioral responses to stressors, both anthropogenic and natural, including inclement weather. 1999 field trials at the Aberdeen Proving Ground-Edgewood area included the J-Field landfill, Cluster 3, Boundary Areas, and a Churchville, MD reference site. J-Field posed the highest risk of exposure to volatile organics, especially to i,1,1-trichlorethane and to 1,1- and cis-1,2-dichlorethane. As is common in ...

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