

(AQI)

knadafi@tums.ac.ir :

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(PM PM₁ PM_{2.5})

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(Environmental Dust Monitor) GRIMM 107

(ANOVA)

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($p < /$)

(NAAQS) / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$ / $\mu\text{g}/\text{m}^3$

PM₁₀ PM_{2.5} PM_{10-2.5}
PM₁₀ PM_{2.5} PM_{10-2.5}

EPA () %

(PM₁₀)

(PM_{2.5})

USEPA

(AQI)

/

PM₁₀

(AQI)

PM_{2.5} PM_{10-2.5} (PM₁₀)

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(PM)

) PM PM / PM

) (/
(PM /

PM

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(Sharma and Maloo 2005)

PM (ultrafine)

Krzyzanowski 2008;)

(Krzyzanowski 2008; WHO 2006)

(WHO 2006

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World Health Organization Project)

(2004

(PM)

PM

(de Kok et al. 2006)

Borrego et al.)

(2006

(NAAQS)
(TSP)
NAAQS (PM)
TSP PM EPA %
EPA
(Wellenius et al. 2006) %
%
% PM
(PM) (Fang et al. 2005)
(EPA 1997a)
EPA)
(2006 (<)
/ PM / PM
(PM /)
PM PM / PM
PM
PM
(EPA 2007)
PM
PM
PM
PM
%
de) PM
% (Kok et al 2006; Van Der Zee et al. 1998
EPA

(Kermani 2003)

U.S. EPA Mohammadi Moghaddam 2007)
(1998

PM / PM

Environmental Dust Monitor

Envirocheck 107

PM PM / PM

//)

EPA

(/ /

(Excel SPSS)

Microsoft Excel

(Mohammadi Moghadam 2006)

SPSS

One-way ANOVA

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(Light-scattering)

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EPA

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PTFE

(Kermani 2003)

PM (EPA 1997b) $\mu\text{g}/\text{m}^3$

EPA PM₁₀ $\mu\text{g}/\text{m}^3$

(EPA 1997a) PM₁₀

EPA (PSI)

(EPA 2006) $\mu\text{g}/\text{m}^3$ (U.S. EPA) (AQI) (PM₁₀)

PM₁₀ EPA (AQI)

AQI

()

(PM₁₀ PM_{2.5} PM₁)

($p < /$)

() PM

(EPA

()

PM EPA

(EPA 2007)

EPA (PM₁₀) PM₁₀ PM

(USEPA) / /

Chaloulakou et al. 2003; Houthuijs et al.)
(2001

(EPA 2006)

(PM)

()

(AQI)

(PM)

(Harrison and Yin 2000)

PM /

(AQI)

(PM /)

(ANOVA)

($p < /$)

USEPA (NAAQS)

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) (PM)

(PM /

EPA ()

PM /

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Houthuijs et al. 2001;)

(TSP)

(Manalis et al. 2005

(PM)

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(TSP

(AQI)

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\pm	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	
/ \pm /	/	/	/	PM
/ \pm /	/	/	/	PM ₁₀
/ \pm /	/	/	/	PM
/ \pm /	/	/	/	PM
/ \pm /	/	/	/	PM ₁₀
/ \pm /	/	/	/	PM

PM₁₀ PM_{2.5} (AQI)

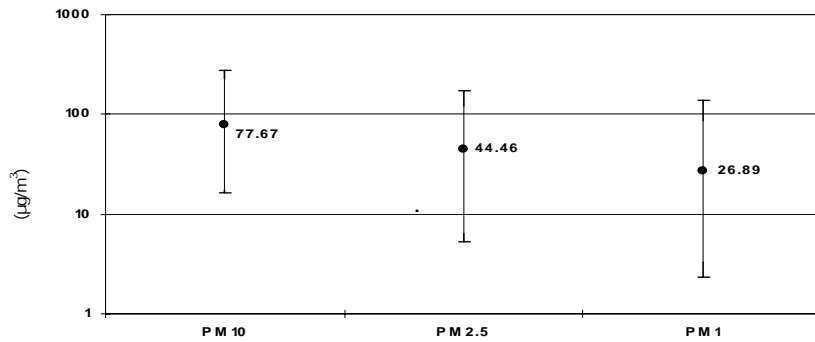
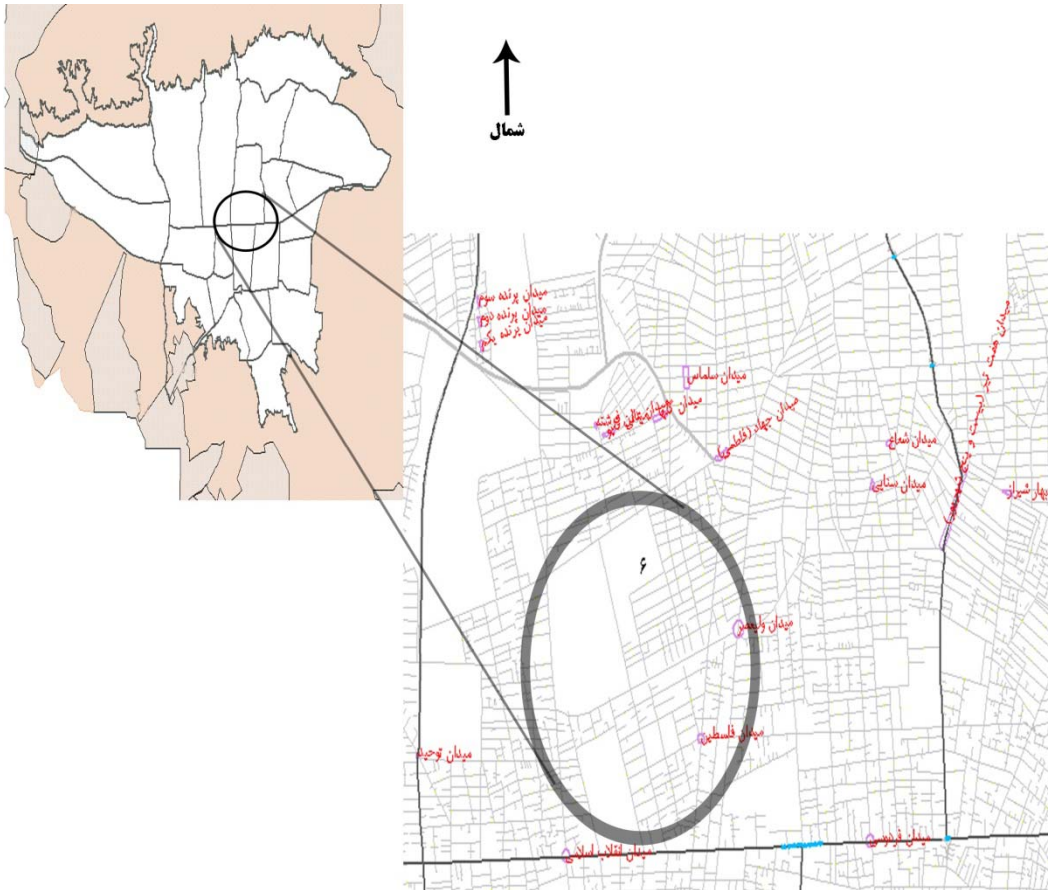
(AQI)

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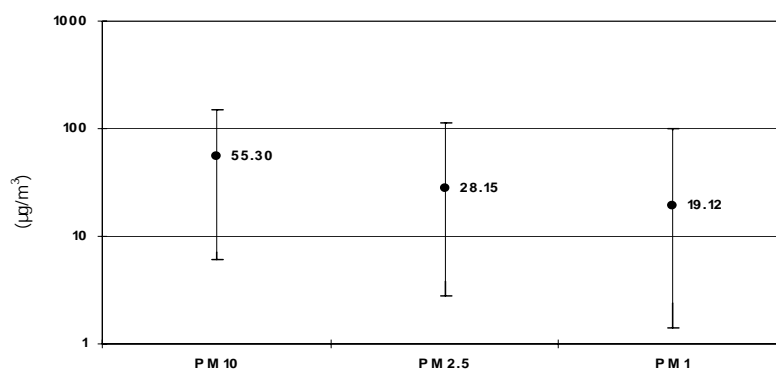
PM₁₀ PM_{2.5} (AQI)

(AQI)

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PM PM / PM



PM PM₁ PM

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