Sense Air
Custom Air Quality Reports
Project Development Team:
I. Ali, A. Boroomand, A. Ramirez-Aristizabal, J. E. Shay
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The Environmental Issue

www.epa.org
The Air

HUMAN HAIR
50-70 μm (microns) in diameter

PM\textsubscript{2.5}
Combustion particles, organic compounds, metals, etc.

<2.5 μm (microns) in diameter

PM\textsubscript{10}
Dust, pollen, mold, etc.

<10 μm (microns) in diameter

90 μm (microns) in diameter
FINE BEACH SAND

www.epa.org
The Health Issue
Outdoor air pollution and uncontrolled asthma in the San Joaquin Valley, California

Ying-Ying Meng, Rudolph P Rull, Michelle Wilhelm, Christina Lombardi, John Balmes, Beate Ritz

Particulate Matter (PM_{2.5}, PM_{10-2.5}, and PM_{10}) and Children’s Hospital Admissions for Asthma and Respiratory Diseases: A Bidirectional Case-Crossover Study

Lokman Hakan Tecer, Omar Alagha, Ferhat Karaca, Gürdal Tuncel, and Nilufer Eldes

1Environmental Engineering, Balıkesir University, Cagis Campus, Balıkesir; 2Environmental Engineering, Fatih University, İstanbul; 3Environmental Engineering, Middle East Technical University, Ankara, and 4Department of Pediatric Diseases, Faculty of Medicine, Z.Karaelmas University, Zonguldak, Turkey
What do these flags mean to you?

AIR QUALITY INDEX: 0-50
HEALTH STATEMENT: NO LIMITATIONS

AIR QUALITY INDEX: 51-100
HEALTH STATEMENT: EXTREMELY SENSITIVE GROUPS SHOULD BE CAREFUL WHEN OUTDOORS

AIR QUALITY INDEX: 101-200
HEALTH STATEMENT: SENSITIVE GROUPS SHOULD LIMIT OUTDOOR EXERTION

AIR QUALITY INDEX: 151-200
HEALTH STATEMENT: EVERYONE SHOULD LIMIT OUTDOOR EXERTION
Did you drink soda today?

Select please

How many cigarettes did you smoke today?

Select please

How many hours did you sleep last night?

Select please

Do you feel stressed?

Select please
Your Overall risk is 89%

Personalized tips:

- Stay indoor
- If you are in car set the fan on recirculate
- Drink a glass of milk
- Use vitamin C
- Eat fresh fruit and vegetables
- Make sure you drank enough water
Results

Variable Descriptions

General Health Condition
ER/Urgent care for asthma
Confidence to control and manage asthma
Doctor ever told has asthma
Taking daily medication for asthma
Current asthma
Still has asthma
Asthma last 12 months
Workdays missed due to asthma
Asthma management plan
Have written copy of asthma care plan
Stop smoking one day or longer to quit in past year
Thinking about quitting smoking in last 6 months
number of doctor visits past year
Walked at least 10 minutes for transport
Walked at least 10 minutes for transport in past 6 weeks
Walking
**Sense Air Timeline and Progress**

<table>
<thead>
<tr>
<th>TASK DESCRIPTION</th>
<th>JANUARY</th>
<th>FEBRUARY</th>
<th>MARCH</th>
<th>APRIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idea Development and Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Networking</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Literature Review</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Considering Data Available</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collecting Data</td>
<td></td>
<td></td>
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<tr>
<td>Assessed resources</td>
<td></td>
<td></td>
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<tr>
<td>Data mining</td>
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<td></td>
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</tr>
<tr>
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</tr>
</tbody>
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Summary

Human factor risk

Air pollution risk

Overall risk
Moving Forward
Broader Impacts
Gratitude and Acknowledgments

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