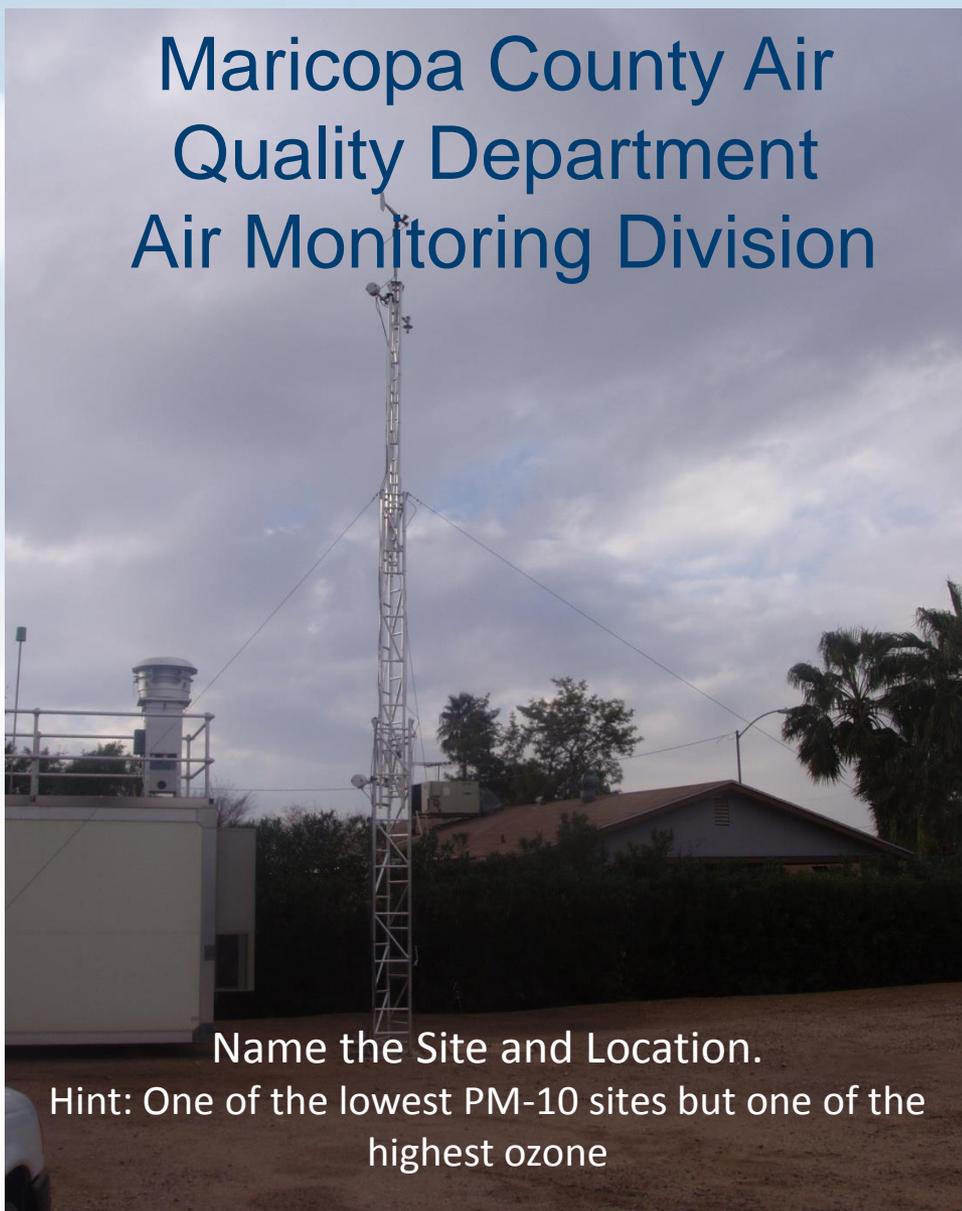


Maricopa County Air Quality Department Air Monitoring Division



Name the Site and Location.

Hint: One of the lowest PM-10 sites but one of the highest ozone



Maricopa County
Air Quality Department



WALK MORE USE CFLS MORE CARPOOL MORE
BIKE MORE RAKE MORE TELECOMMUTE
MORE DRIVE HYBRIDS MORE CONSOLIDATE
ERRANDS MORE RIDE PUBLIC TRANSPORTATION
MORE USE ENERGY EFFICIENT APPLIANCES
MORE CARRY REUSABLE TOTE BAGS MORE
CONSIDER SOLAR MORE RUN COLD WATER
CYCLES MORE USE REUSABLE CONTAINERS
MORE CONSERVE ELECTRICITY MORE REDUCE
WOODBURNING MORE RECYCLE MORE USE
ELECTRIC LAWN AND GARDEN EQUIPMENT
MORE REFUEL AFTER DARK MORE RIDE
THE BUS MORE RIDE THE LIGHT RAIL MORE
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WALK MORE USE CFLS MORE CARPOOL MORE

CLEAN AIR MAKE MORE

Agenda

- General Air Monitoring
- PM-2.5
- PM2.5 NAAQS
- Monitors



What is Ambient Air Monitoring

Permitting



Compliance

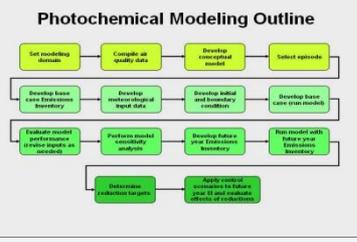


Air Monitoring answers the question.

“What is the air quality in Maricopa County?”

Air Monitoring

Planning / Rules



Enforcement



Particulates (PM)

- "Inhalable coarse particles," such as those found near roadways and dusty industries, are larger than 2.5 micrometers and smaller than 10 micrometers in diameter.
- "Fine particles," such as those found in smoke and haze, are 2.5 micrometers in diameter and smaller. These particles can be directly emitted from sources such as forest fires, or they can form when gases emitted from power plants, industries and automobiles react in the air.

PM_{2.5} NAAQS

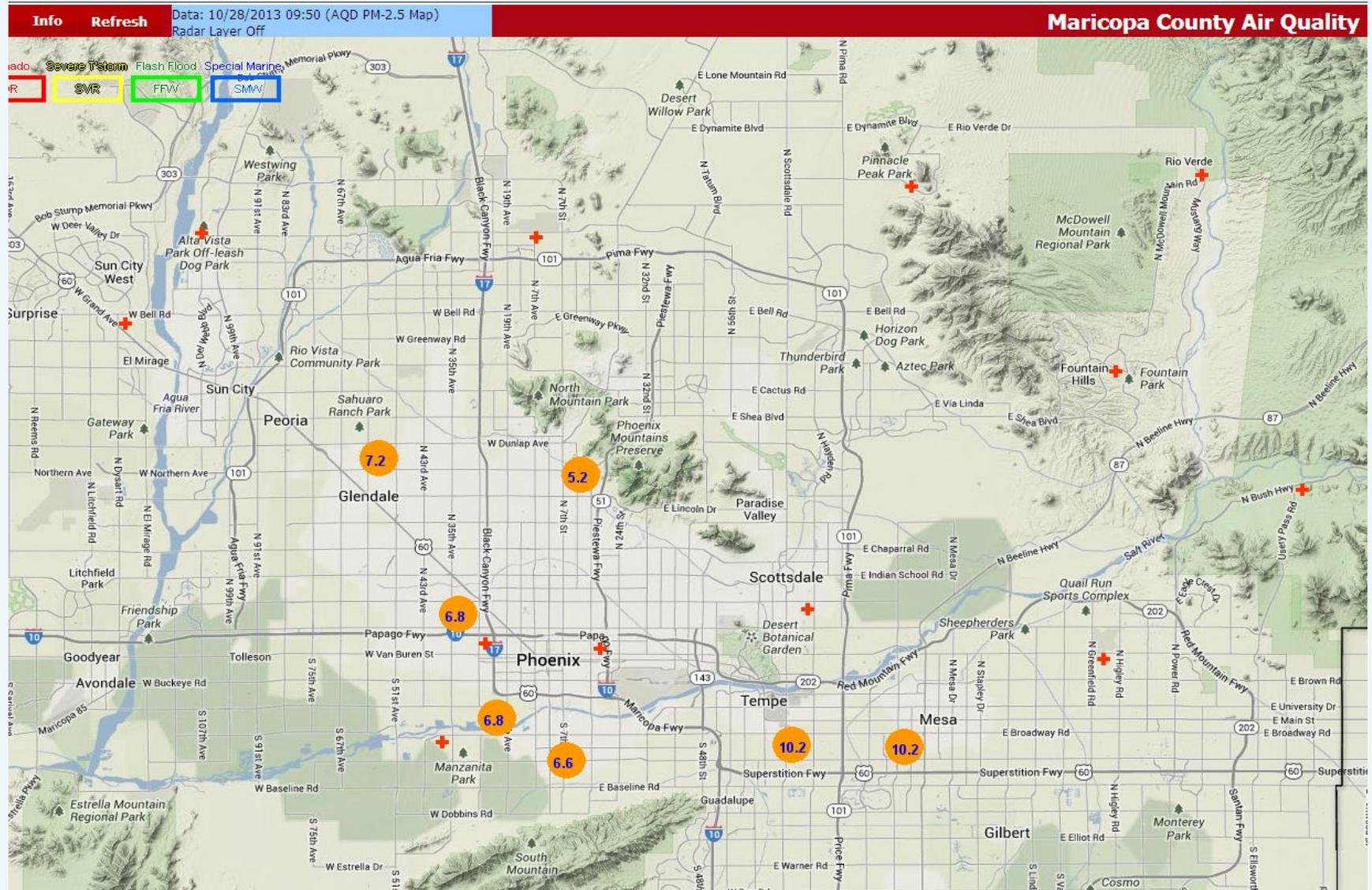
<u>Particle Pollution</u> Dec 14, 2012	PM _{2.5}	primary	Annual	12 µg/m ³	annual mean, avg. over 3 years
		secondary	Annual	15 µg/m ³	annual mean, avg. over 3 years
		primary and secondary	24- hour	35 µg/m ³	98th percentile, avg. over 3 years

CLEAN AIR
MAKE MORE

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 REDUCE WOODBURNING MORE
 MORE RIDE THE BUS MORE

PM-2.5 Network

REUSE MORE CONSOLIDATE
 REUSABLE TOTE BAGS
 SAVE ELECTRICITY MORE
 REFUEL AFTER DARK
 BIKE MORE RAKE MORE



2012 PM_{2.5} NAAQS

Site Name	2010 98 th Percentile	2011 98 th Percentile	2012 98 th Percentile	98 th Percentile 3-Year Avg. (FRM)	NAAQS (µg/m ³)
Mesa	11.8	20.4	23.3	18.5	35
South Phoenix	24.0	31.5	24.4	26.6	
West Phoenix	21.6	28.9	29.0	26.5	

Site Name	2011 Annual Avg. (µg/m ³)	2012 Annual Avg. (µg/m ³)	2013 Annual Avg. (µg/m ³)	Annual NAAQS
Durango Complex (continuous)	12.4	11.6	?12.0?	12
South Phoenix (continuous)	9.33	9.24	?	12

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PM-2.5

CONSOLIDATE
REUSABLE TOTE BAGS
ELECTRICITY MORE
REFUEL AFTER DARK
BIKE MORE RAKE MORE

Site	1 st Qtr PM2.5	2 nd Qtr PM2.5	3 rd Qtr PM2.5	4 th Qtr PM2.5 <u>so</u> <u>far</u>
Durango	12.5	9.3	7.3	9.5
South Phoenix	10.8	7.3	6.9	8.5
West Phoenix	10.1	9.5	9.0	10.0



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PM-2.5

CONSOLIDATE
REUSABLE TOTE BAGS
ELECTRICITY MORE
REFUEL AFTER DARK
BIKE MORE RAKE MORE

	2013 1qtr Avg	2013 2qtr Avg	2013 3qtr Avg	2013 4qtr need to exceed Standard	Annual NAAQS
Durango	12.5	9.3	7.3	19.2	12.0



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PM-2.5 Monitors



CLEAN AIR
MAKE
MORE



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Ben Davis
Air Monitoring Manager
602-258-5155 #221

LEAN AIR
MAKING
MATTER

Maricopa County
Air Quality Department



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