

To: Stakeholders
 From: Scott DiBiase, Pinal County Air Quality
 Date: 1/7/2020

DRAFT 2019 Pinal County PM₁₀ & PM_{2.5} Exceedances **DRAFT**

***DRAFT* Summary of 2019 24-hour Average PM₁₀ Exceedance Day(s) by Monitoring Site**

Monitoring Site - AQS # (POC))	# PM ₁₀ 24-hr Average Exceedances				Total Exceedances
	Related to Wind	Related to Stagnation	Related to Combination of windy and stagnant conditions	Related to Transport	
Apache Junction – 04-021-3002					
Casa Grande - 04-021-3001(3)					
Combs - 04-021-3009 (3)					
Eloy – 04-021-3014 (1) & (3)					
Hidden Valley – 04-021-3015 (3)	1	10	1		12
Maricopa – 04-021-3016 (3)					
Pinal Air Park – 04-021-3007 (3)					
PCH – 04-021-3011 (3)					
Stanfield – 04-021-3008 (3)	1				1

***DRAFT* Summary of 2019 24-hour Average PM_{2.5} Exceedance Day(s) by Monitoring Site**

Monitoring Site - AQS # (POC))	# PM ₁₀ 24-hr Average Exceedances				Total Exceedances
	Related to Wind	Related to Stagnation	Related to Combination of windy and stagnant conditions	Related to Transport	
Casa Grande - 04-021-3001(3)					
Hidden Valley – 04-021-3015 (3)		1			1

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*Data preliminary – subject to change *

Date	Day of Week	Site	AQS #	PM ₁₀ 24-hr Average Concentration (ug/m ³)	PM _{2.5} 24-hr Average Concentration (ug/m ³)	Weather Type (Cold Front, Monsoon, etc.)	Exceedance(s) Related to Wind, Stagnation, Combo ⁱ , Transport	AQI Forecast ⁱⁱ / Dust Risk Forecast ⁱⁱⁱ
4/10/19	Wed	Stanfield	04-021-3008	183		Cold Front (Max. wind 34 mph)	Wind	Moderate/High
5/30/19	Thu	Hidden Valley	04-021-3015	208	31.6	Upper low (Max. wind 14 mph)	Stagnation	Moderate/Moderate
6/12/19	Wed	Hidden Valley	04-021-3015	180	31.1	High pressure (Max. wind 15 mph)	Stagnation	Moderate/High
6/15/19	Sat	Hidden Valley	04-021-3015	172	26.2	High pressure (Max. wind 12 mph)	Stagnation	Moderate/Moderate
6/24/19	Mon	Hidden Valley	04-021-3015	178	32.1	High pressure (Max. wind 11 mph)	Stagnation	Moderate/Moderate
6/25/19	Tue	Hidden Valley	04-021-3015	119 ¹	36.8	High pressure (Max. wind 17 mph)	Stagnation	USG/High
6/28/19	Fri	Hidden Valley	04-021-3015	203	25.1	High pressure (Max. wind 18 mph)	Stagnation	Moderate/Moderate
10/22/19	Tue	Hidden Valley	04-021-3015	157	16.0	High pressure (Max. wind 10 mph)	Stagnation	Moderate/Moderate
10/23/19	Wed	Hidden Valley	04-021-3015	168	16.3	High pressure (Max. wind 9 mph)	Stagnation	USG/High
10/25/19	Fri	Hidden Valley	04-021-3015	179	15.1	Pressure Gradient (Max. wind 36 mph)	Wind	USG/High
11/4/19	Mon	Hidden Valley	04-021-3015	222	32.7	High pressure (Max. wind 11 mph)	Stagnation	Moderate/Moderate
11/5/19	Tue	Hidden Valley	04-021-3015	239	34.4	High pressure (Max. wind 9 mph)	Stagnation	USG/High

¹ 6-7 a.m. PM₁₀ TEOM data invalidated due to excessive noise

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11/12/19	Tue	Hidden Valley	04-021-3015	164	15.1	Backdoor cold front (Max. wind 22 mph)	Combo	Moderate/High
11/14/19	Thu	Hidden Valley	04-021-3015	188	23.7	High pressure (Max. wind 7 mph)	Stagnation	USG/High

Bold text means the PM₁₀ and/or PM_{2.5} data is going to be flagged as exceptional/natural event in AQS
ADEQ flagged exceptional/natural event

ⁱ Combination of stagnation and winds (i.e. light winds in the morning with elevated PM₁₀ levels and higher winds in afternoon/evening with elevated PM₁₀ levels attributed to windblown dust).

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ⁱⁱ Air Quality Index (AQI) forecast issued by Pinal County Air Quality – AQI Categories (Good (G), Moderate (M), Unhealthy for Sensitive Groups (USG), Unhealthy (U), etc.). PM10 Health Watch (HW) is for forecasted PM10 AQI levels of 90-100 on the AQI scale. PM10 High Pollution Advisory (HPA) is for forecasted AQI levels of 101+.

ⁱⁱⁱ 2014 Adopted legislation (HB2125) – A West Pinal County PM10 Nonattainment Area Dust Risk Forecast prepared by Pinal County Air Quality and issued by ADEQ – Risk categories (Low (L), Moderate (M), High (H)).

^{iv} Combination of stagnation and winds (i.e. light winds in the morning with elevated PM₁₀ levels and higher winds in afternoon/evening with elevated PM₁₀ levels attributed to windblown dust).

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