I-10 Dust Group Update

2017 Arizona Dust Storm Workshop

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Participating Partners - I-10 Dust Control Group



Group Member Agencies

Arizona Department of Environmental Quality (ADEQ) – current lead

Arizona Department of Transportation (ADOT)

AZ Department of Public Safety (DPS)

National Weather Service (NWS) Phoenix & Tucson

Arizona Department of Agriculture (ADA)

Pinal County Sherriff's Office

USDA Natural Resource Conservation Service (USDA NRCS)

Pinal County Air Quality

University of Arizona

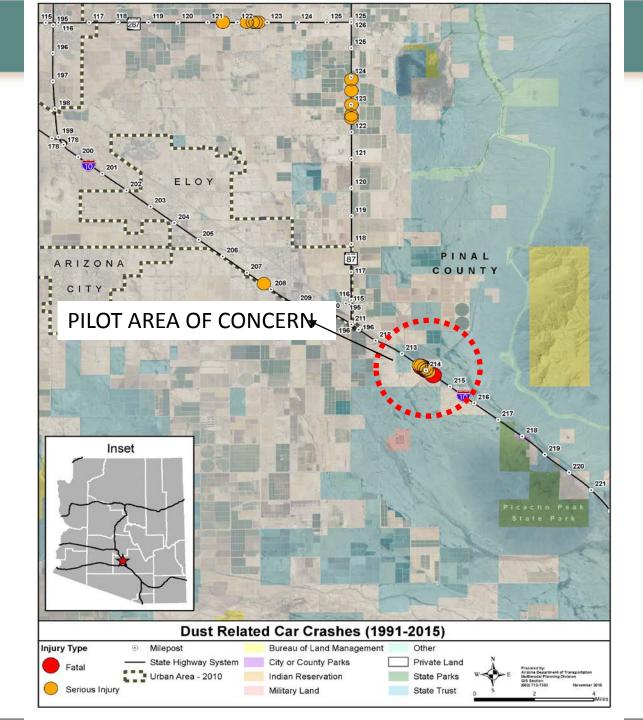
National Oceanic and Atmospheric Administration (NOAA)

National Hwy Administration

- * Gila River Indian Community (GRIC)
- * Tohono O'Odham Nation
- * AZ State Lands Department

*Indicates new participating member as of November meeting

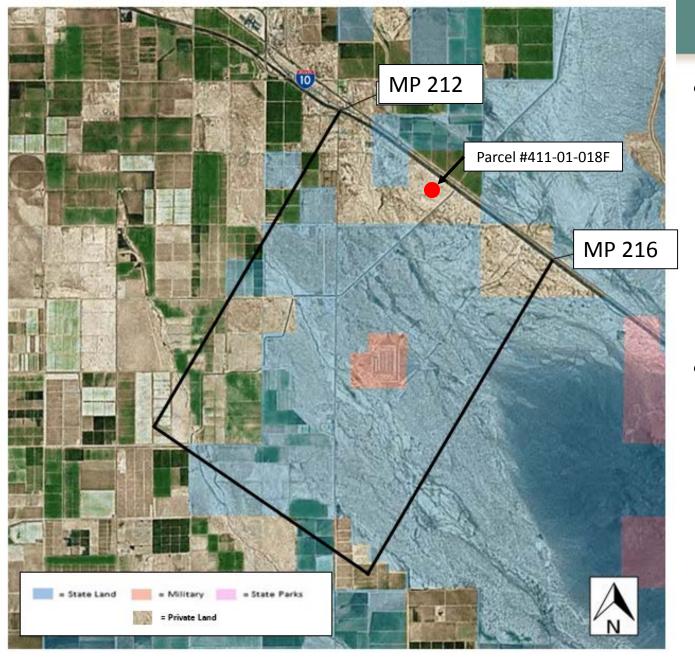
If you are with an agency not included on this list and would like to be please contact Jamie Abbott, ADEQ AQ Compliance





Problem Being Solved: Wind blown dust creates hazardous driving and health conditions along the I-10 corridor

I-10 Dust Group Pilot Focus Area Scope Land Ownership





- Partners have collected land ownership and other land activity available data within this area.
- Parcel #411-01-018F initial parcel of concern identified – Pinal Co. and NRCS soil study ongoing.

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I-10 Dust Group Future Direction



- Partners currently collecting data to confirm land activities and soil type in focus area.
- Identify root cause(s) of dust impacting I-10 in scope area. (January meeting)
- Identify solution projects to mitigate dust root cause(s) to be implemented. (February/March meeting)
 - Identify resource/funding needs and sources
 - Establish or determine existing private landowner/agency partnerships to assist in project implementation

Model Based Problem Solving Exercise



I-10 Dust Group Model Based Problem Solving Template

1-10 Bust Group wouch Buscu Fromicin Solving Foliplate					
	What we Know	What we don't/need to know	Contributing Factors	Root Causes	Solutions
	High crash locations involving fatalities and serious incidents Wind events occur randomly throughout the calendar year (peaks in fall and early winter) NWS has determined that SW winds of ~10 - 20 mph (or greater) are most concerning Winds occur late morning or afternoon (possible correlation to incident timing) Fatal Accidents have occurred 10:30 am – 12:45 pm (when initial wind front comes through) DPS incident reports show witnesses claim "it just happened all of a sudden" Majority of accidents are mobile 4/5 fatal accidents occurred Oct to Dec People continue to knowingly drive without slowing down into lower visibility Large portion of land adjacent to corridor is owned by State Lands Canal has impact to area Parcel landownership and grazing allotment information Soil type on Louis parcel is silty clay loam –	· · · · · · · · · · · · · · · · · · ·		Root Causes	Solutions
	very susceptible for wind blown erosion – Parcel current surface lacks vegetation crusted (thin and fragile) but still susceptible to erosion without vegetation Trespass and off road vehicle use observed on Louis parcel Drainage from SE to NW; natural drainage for area has been disrupted Ecological site data available (what should be there under natural conditions for area)				

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