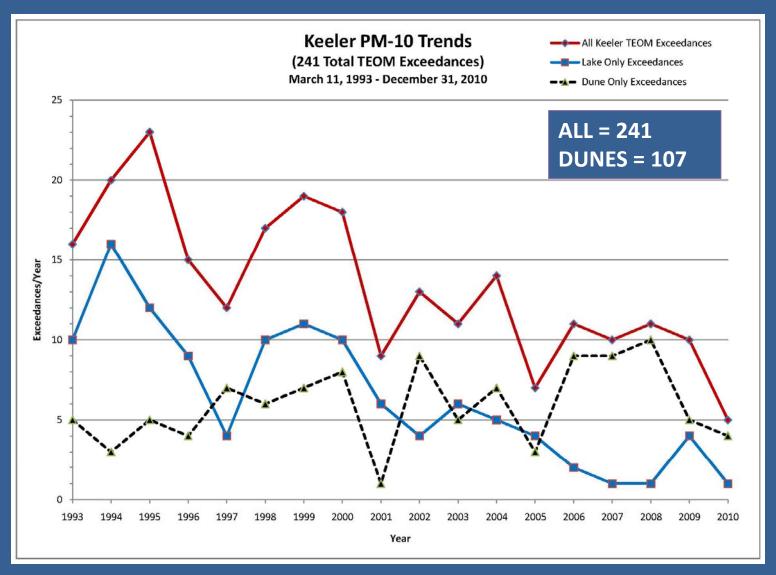
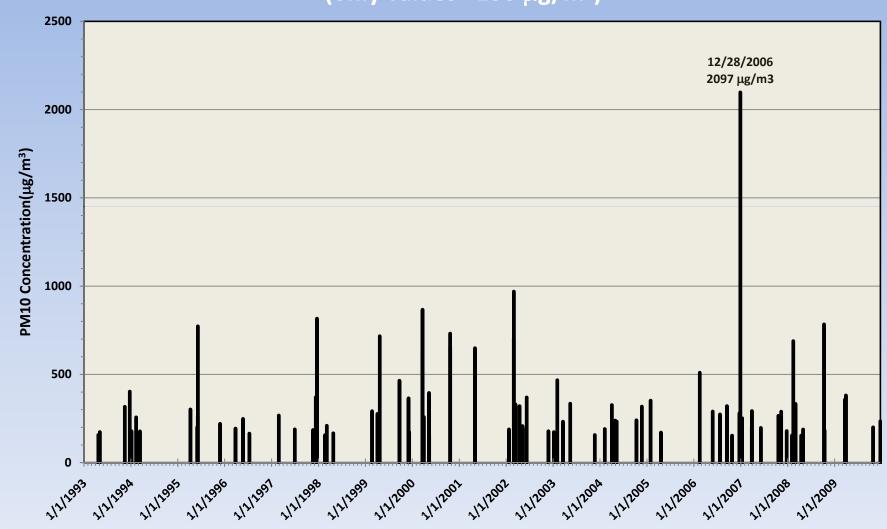


Keeler PM10 Data



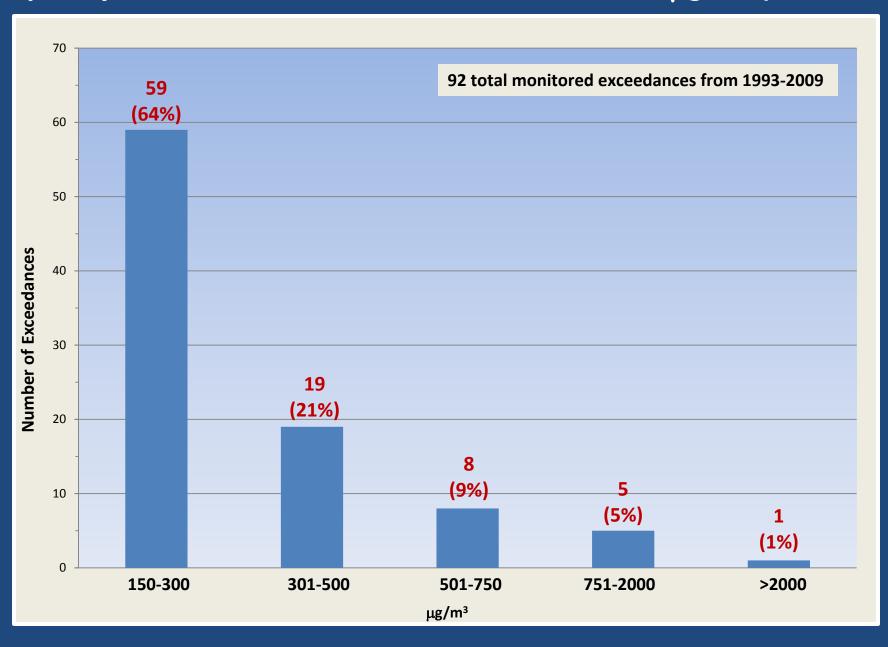
Graph of the number of monitored exceedances of the Federal PM_{10} standard per year measured at the Keeler Monitoring station from 1993 to 2010. There were <u>241</u> total exceedances monitored of which <u>107</u> were from the dunes only.

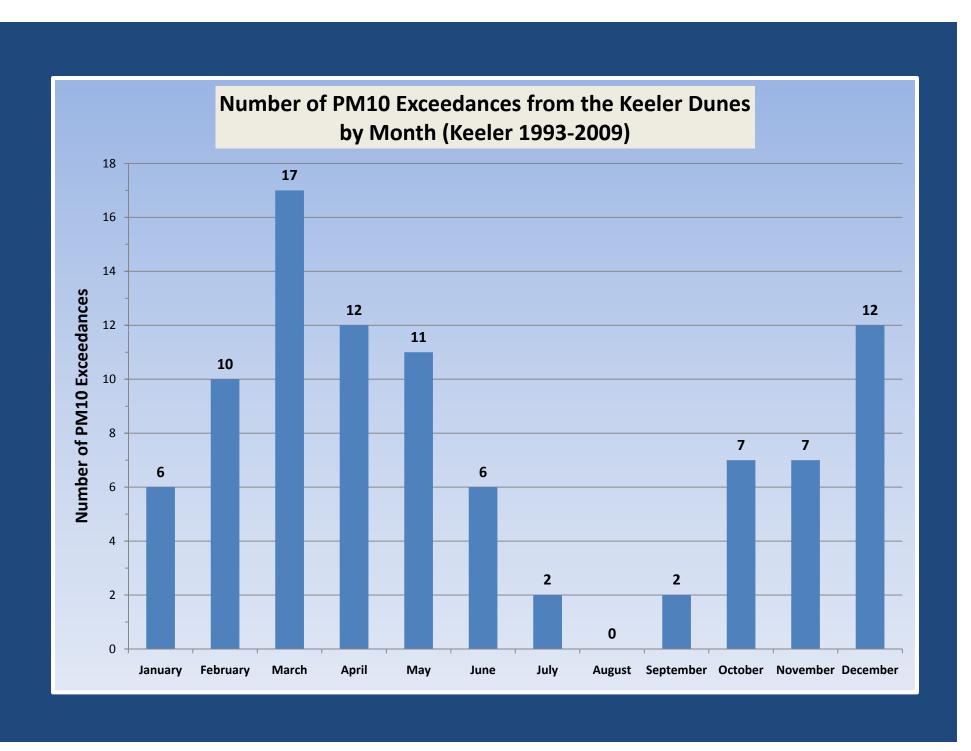


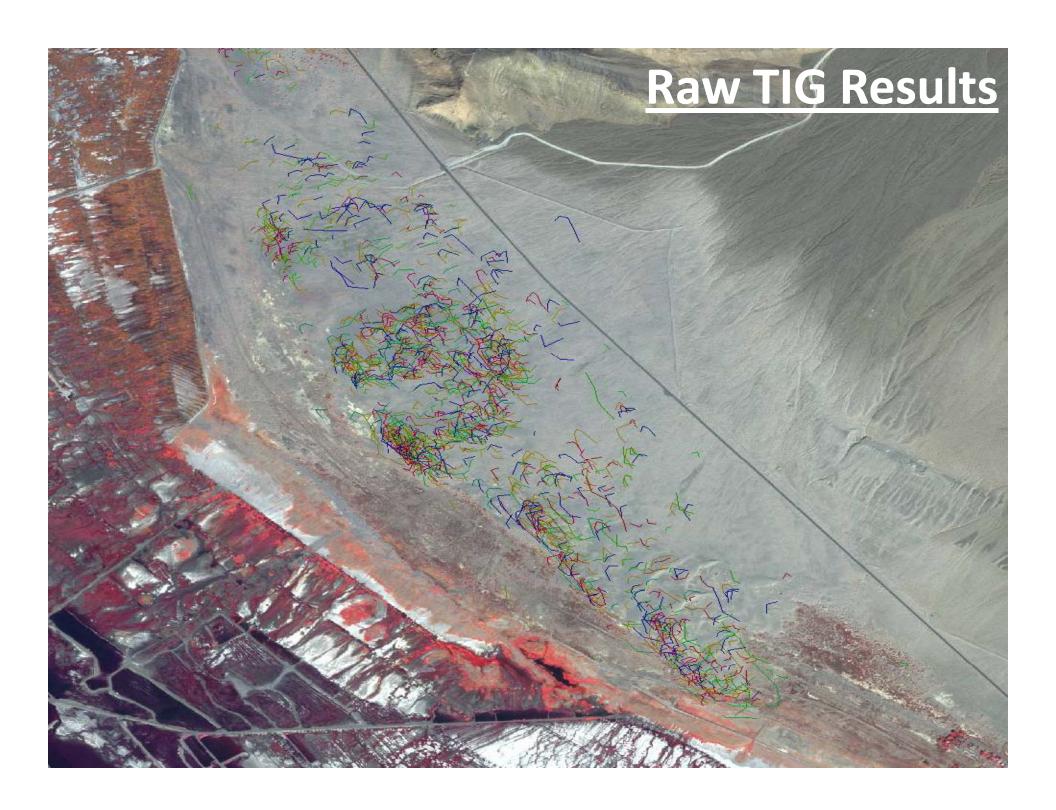


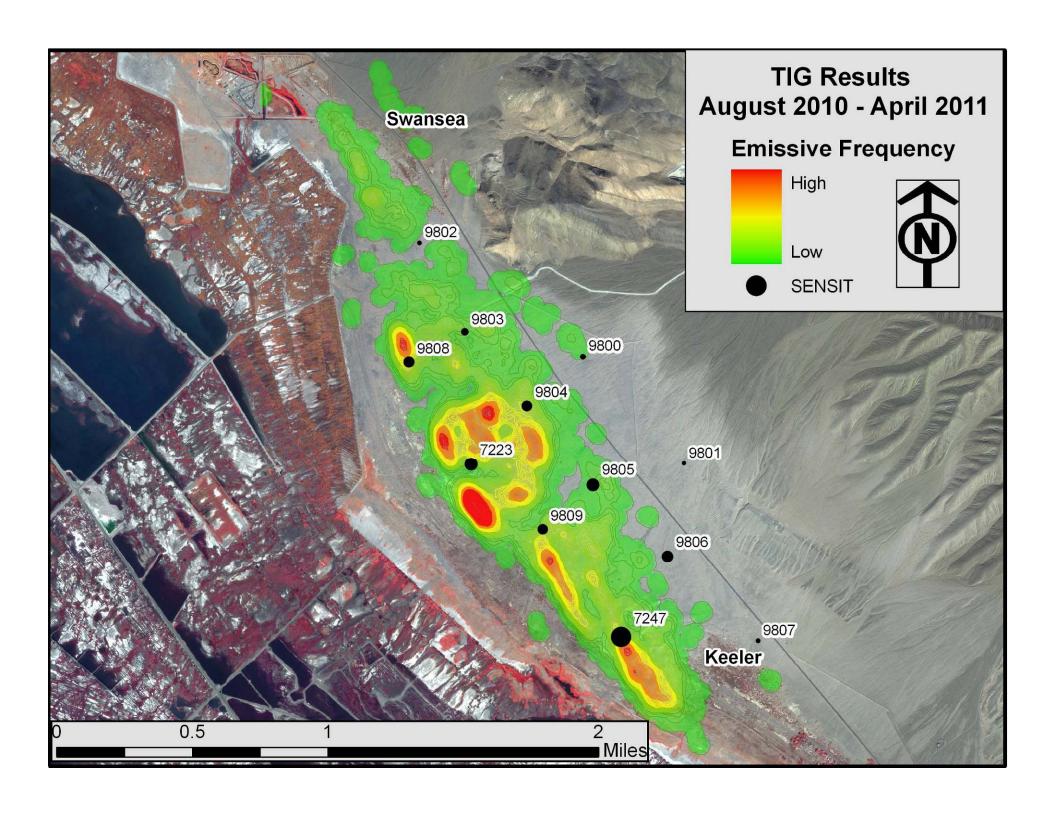
Graph of the PM₁₀ concentrations from the Keeler Dunes for exceedance days, measured at the Keeler Monitoring station from 1993 to 2009.

Frequency of Monitored PM10 Concentrations >150 μg/m³ (1993-2009)









Keeler Dunes Max 24-hour PM10 (µg/m3) Contribution 3/1/2010-6/30/2010, 5-Minute Met/Sensit Data 4047 4046-4045 4044 Swansea 4043-4042-North-South UTM (m) 4040-4038-Keeler 4036 Keeler Dunes Sources Only Seasonal 75th K-factors 4035-Background of 20 µg/m3 4034-4033-4032

413

414

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420

East-West UTM (m)

421

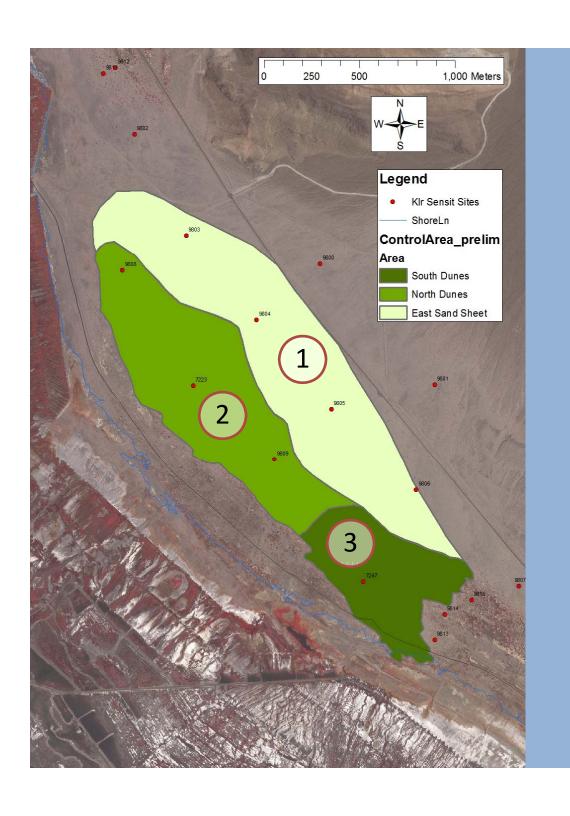
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Air Quality Model Results (Spring 2009)



Preliminary Dust Control Project Areas

East Sand Sheet (0.37 sq mi)

North Dunes

(0.28 sq mi)

South Dunes (0.14 sq mi)

Total Control Area ~ 0.70 to 0.75 sq mi

Increasing Control Level

Air Quality Goals

Main Goals

- Lower PM10 emissions from dunes
- Attain PM10 standard in Keeler

Secondary Goals

- No 'Brute Force' measures
- Tailor dust control 'intensity' to emissiveness of subareas.



- Preservation of cultural resources
- Natural appearing and aesthetically pleasing
- Self sustaining on long term basis
- Minimal impact to existing natural resources

Dust Control Methods Eliminated for Keeler Dunes

NO

- Dune Removal
- Owens Lake Gravel Blanket
- Owens Lake Shallow Flooding
- Owens Lake Managed Vegetation
- Trash
- Chemical Stabilization

Appearance of control area will not be like
Owens Lake!

Preferred Dust Control Method Elements

- Native vegetation (shrubs and grass)
- Temporary roughness elements (straw, fences...)
- Irrigation for plant establishment
- Water source needed
- Overall low water demand

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