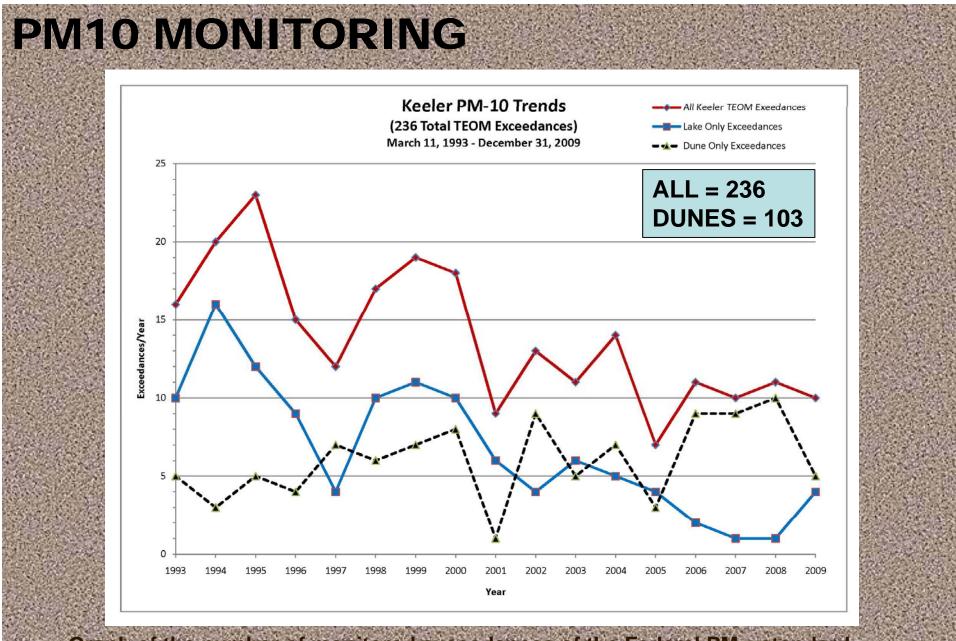
Monitoring Network Design, Data, and Results

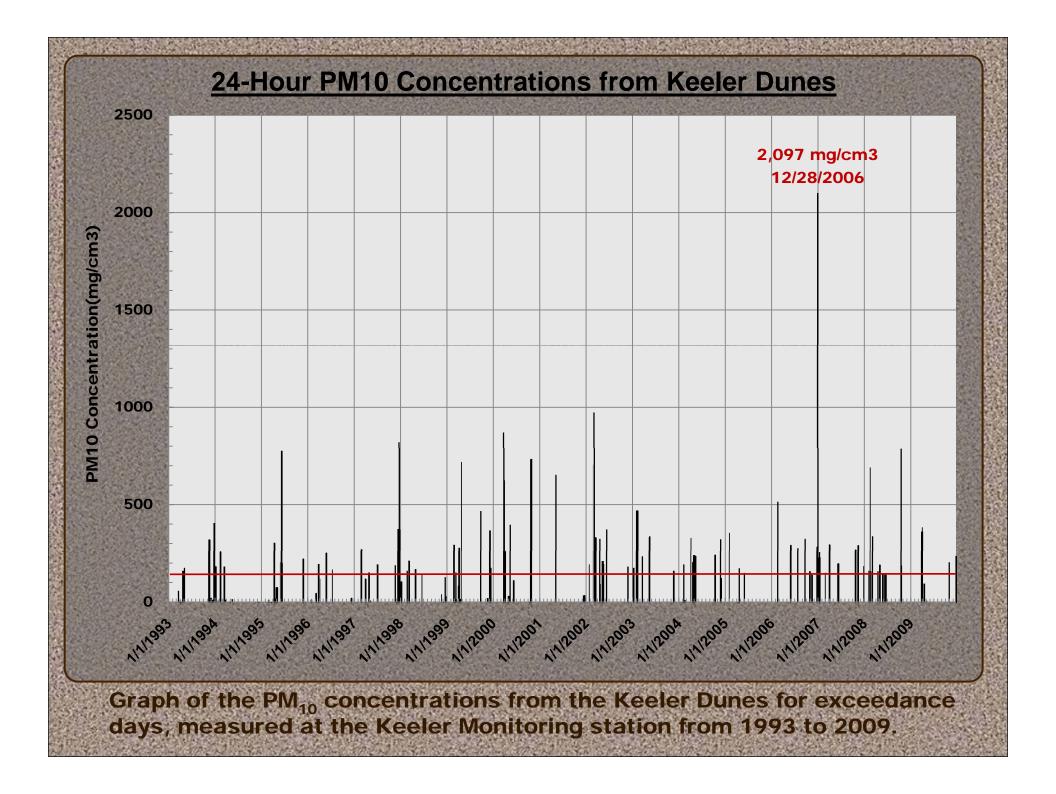
Presentation by: Great Basin Unified Air Pollution Control District

Monitoring Network Components





Graph of the number of monitored exceedances of the Federal PM_{10} standard per year measured at the Keeler Monitoring station from 1993 to 2009. There were <u>236</u> total exceedances monitored of which <u>103</u> were from the dunes only.





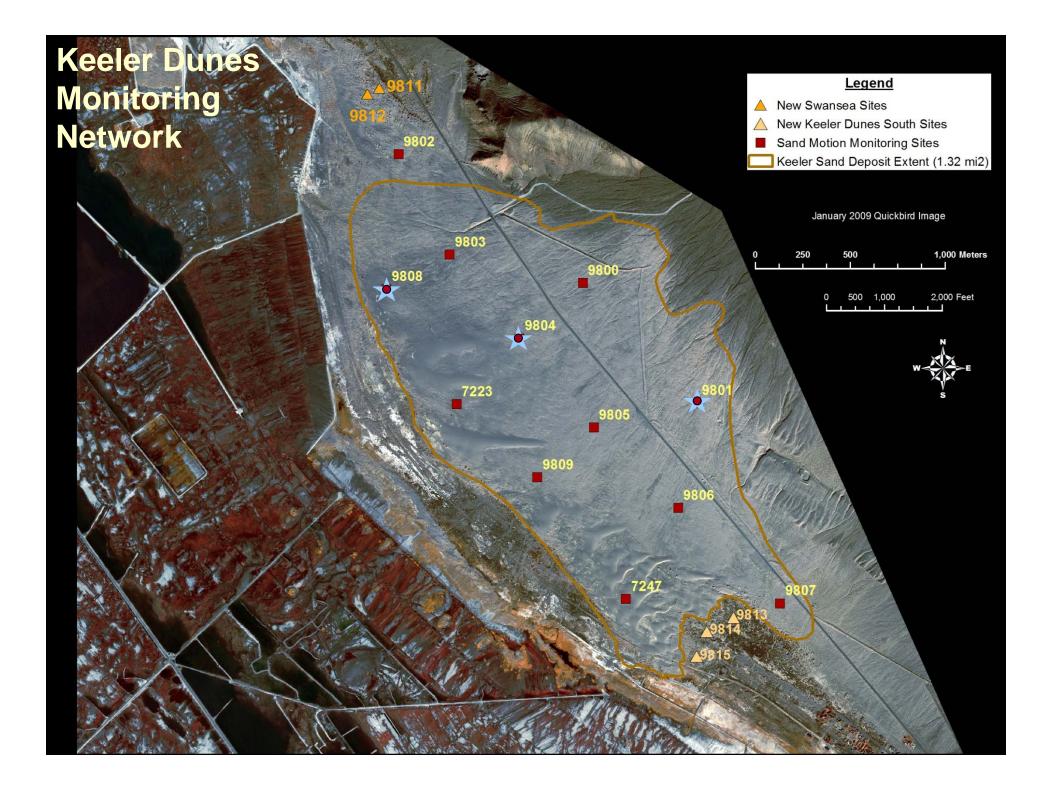
Sand Flux Monitoring (12 existing sites, 5 new sites)

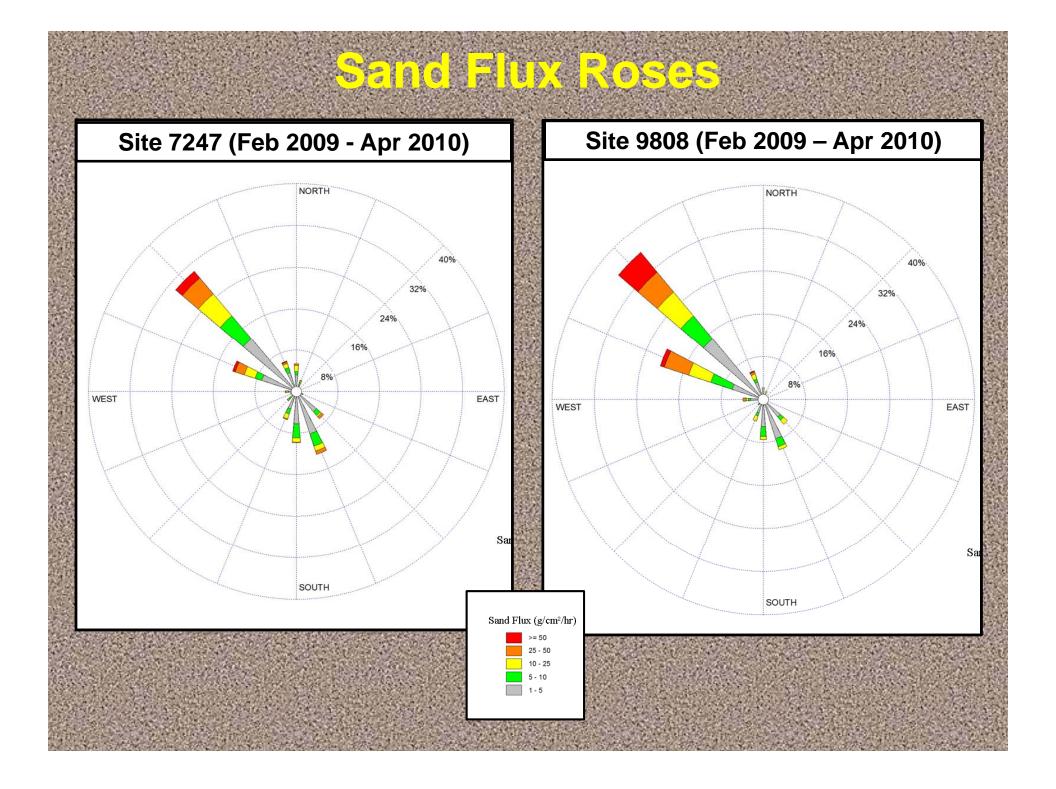
Wind Speed/Direction Monitoring (17/8)

Dust Cameras (2)

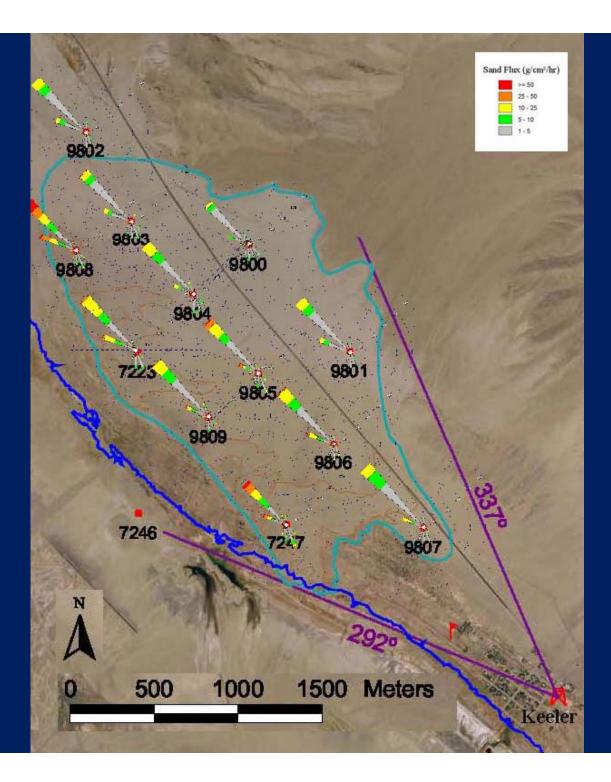
Dust Observation Mapping

Ground Photos

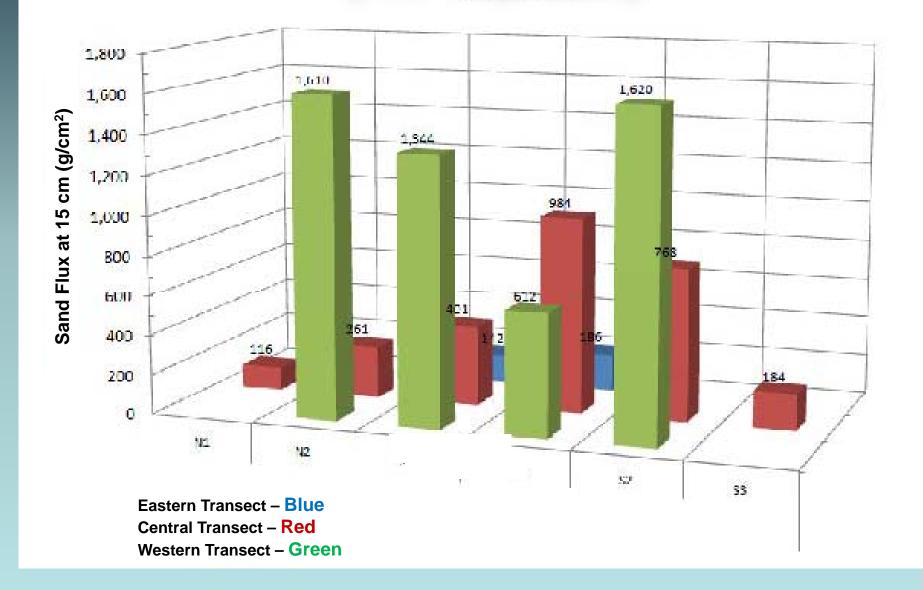




Sand Flux Roses



Total Sand Flux at Keeler Dunes Sites (Feb – Apr 2009)

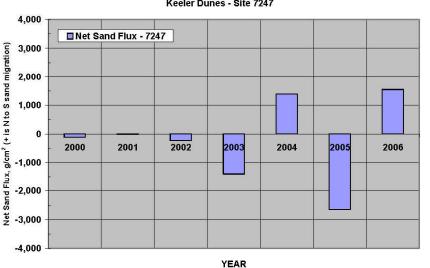


Sand Movement Direction

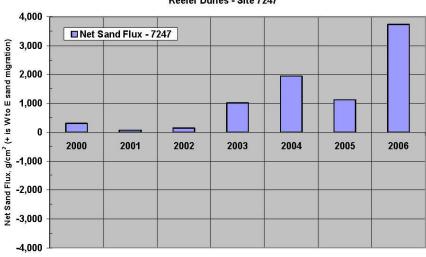
North to South North to South Net Annual Sand Flux Keeler Dunes - Site 7223 4,000 Net Sand Flux - 7223 g/cm² (+ is N to S sand migration) 3,000 2,000 1.000 0 2006 2000 2001 2002 2003 2004 2006 -1,000 Sand Flux, -2.000 ₩ -3,000 -4,000 YEAR

4,000 Net Sand Flux - 7223 g/cm² (+ is W to E sand migration) 3,000 2,000 1,000 0 2000 2001 2002 2003 2004 2005 2006 -1,000 Net Sand Flux, 1 -3'000 -3'000 -4,000

YEAR



North to South Net Annual Sand Flux Keeler Dunes - Site 7247

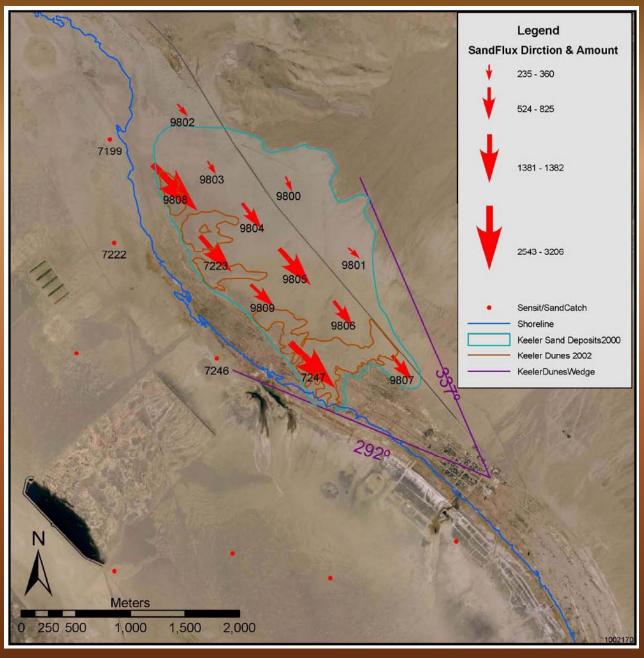


West to East Net Annual Sand Flux Keeler Dunes - Site 7247

West to East Net Annual Sand Flux Keeler Dunes - Site 7223

West to East

Net Sand Movement (July 2009 – April 2010)



New Monitoring Sites Keeler Dunes

New Monitoring Sites Swansea Dunes

Swansea Dunes



Monitoring Site Photo Animations

Site 7247 – view to south Site 9808 – view to west

05/03/2010

Dust Video/Sand Flux Animation

 October 28, 2009 Video from Dolomite 1 Camera Combined with Animation of Sand Flux.

> Dolomite C1 Tue, Mar 23, 2010 7:20:08 AM