

Fugitive Dust Mitigation Measures, Effectiveness and Cost
RECORD OF DECISION AND RESOURCE MANAGEMENT PLAN
AMENDMENTS FOR THE POWDER RIVER BASIN OIL AND GAS PROJECT
 Draft – April 2003
 Appendix A.2. Mitigation Measures
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Table A-3 Fugitive Dust Mitigation Measures (PM10), Effectiveness and Cost

Mitigation Options	Dust Sources					
	Disturbed Areas	Water roads	Apply soil stabilizer	Unpaved Roads ¹	Gravel roads	Paved road
	Establish plant cover for all disturbed lands by certain time (re-vegetation)	to attain certain percent moisture ²		Set and enforce speed limit		
Effectiveness	Level proportional to percentage of land cover	0 – 50% reduction in uncontrolled dust emissions	33 to 100% control efficiency	80% for 15 mph 65% for 20 mph 25% for 30 mph ³	30% reduction	90% reduction
Estimated Cost	\$/acre	\$4000/mile	\$2,000 to \$4,000/mile per year	Unknown	\$9,000/mile	\$11,000 to \$60,000/mile

Note:

1. Improved and County roads
2. Wetting of construction roads during the construction period. Wetting of construction roads not required for once a month maintenance trips to well pads.
3. Reductions assume 40 mile per hour base speed.