

QUADRENNIAL ENERGY REVIEW – Aug. 21, 2014

Information Needs for Energy Mitigation and Siting



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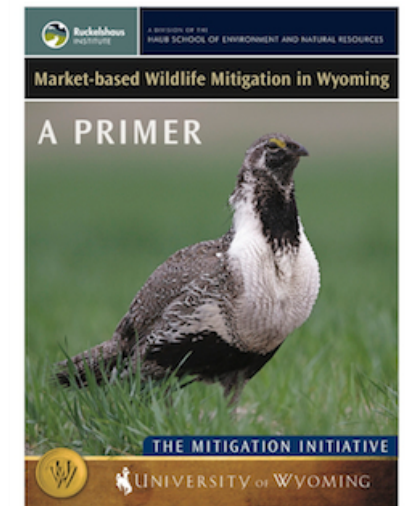
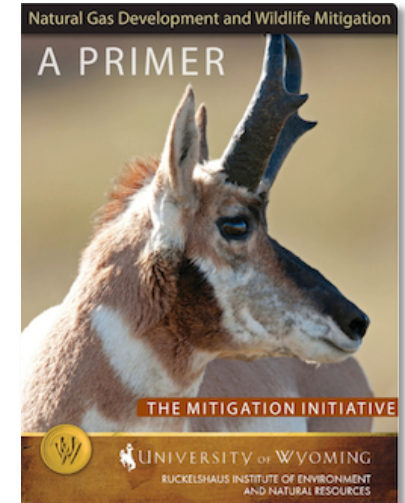
1. A shared language
2. Solid baseline data to guide planning and siting
3. Mitigation best practices – learning from experiments



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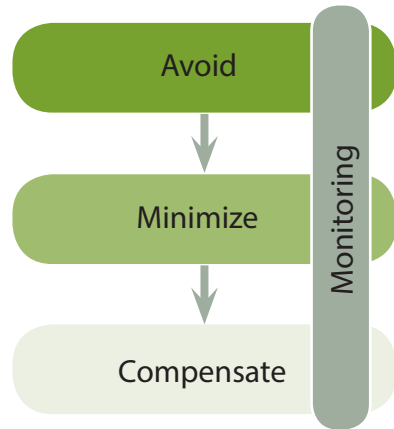
1. A shared language

in lieu fee programs
disturbance ratios
habitat equivalency analysis
conservation bank indirect impacts
on-site mitigation hierarchy
habitat exchange off-site
habitat unit monitoring
credits
debits
payment for ecosystem services
mitigation bank compensatory
direct impacts out-of-kind
wetlands banking in-kind



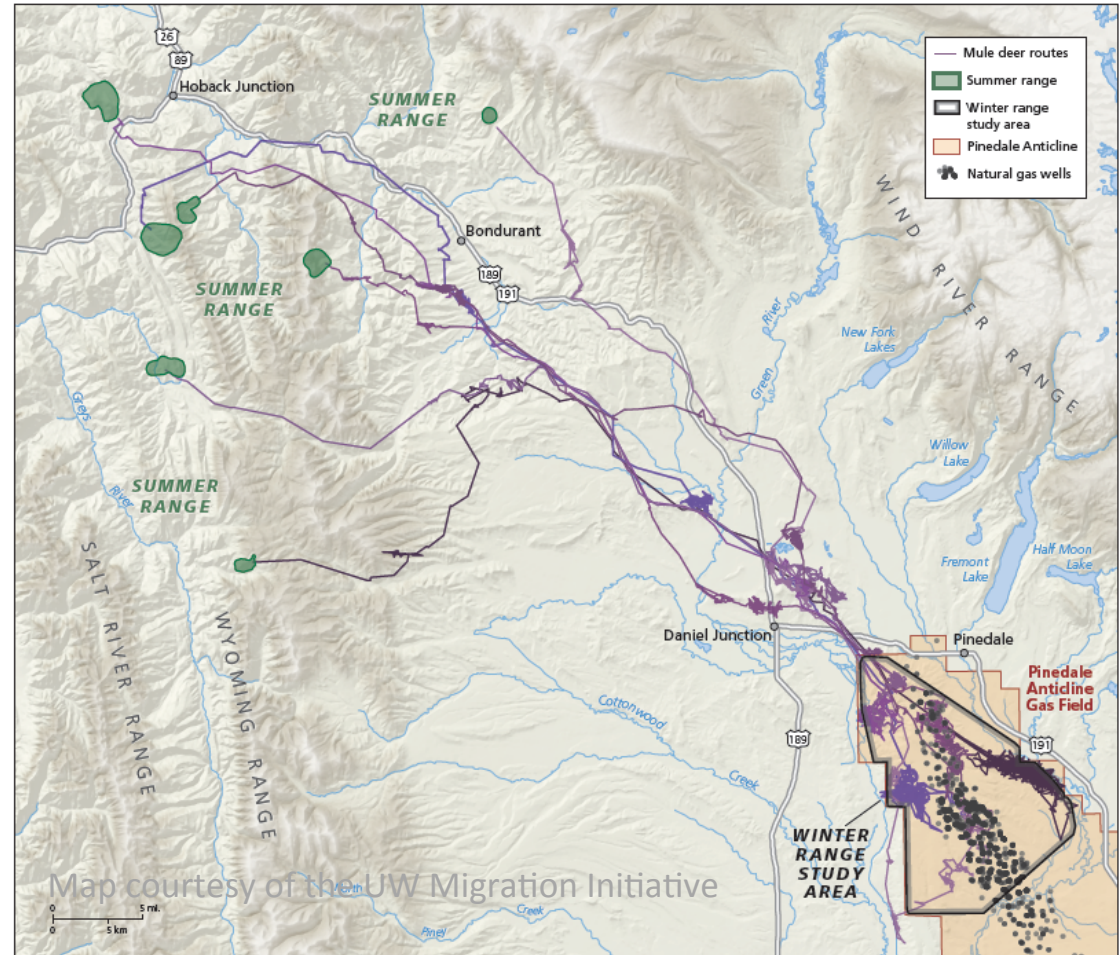
2. Baseline data

Mitigation hierarchy



Energy planning to minimize impacts to ungulate migration routes

Mule Deer Migration Routes



3. Mitigation best practices – learning from our experiments



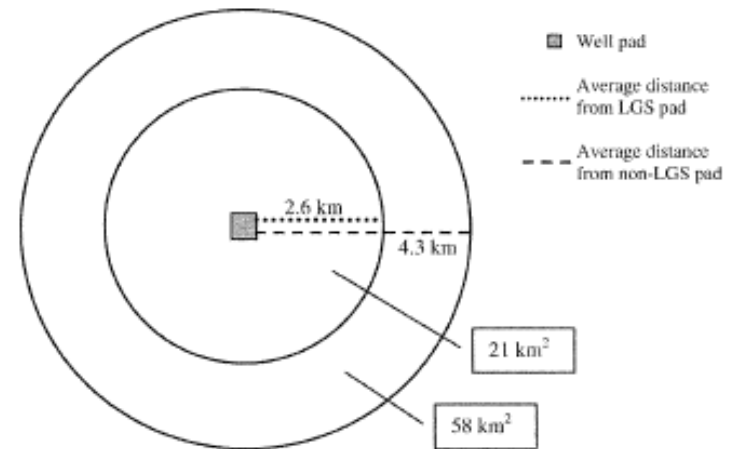
BLM

Fertilizing sagebrush for mule deer habitat improvement – Upper Green River Basin



QEP

Liquids Gathering System (LGS)



LGS reduces mule deer displacement (Sawyer et al 2009)

Thank You