
Creation of a National Wind Database

Issue Area	Creation of a National Wind Database for Natural Resource Management
What's the Challenge?	<ul style="list-style-type: none">• Inadequate county level wind information exists to evaluate Crop Reserve Program Air Quality criteria and other conservation management activities affected by wind.• Unknown effects of wind on odor transport, soil erosion, evaporation, power potential, damage to vegetation and structures, pollution dispersion and canopy-atmosphere gas exchange.
What Are We Doing?	<ul style="list-style-type: none">• The NWCC has provided basic guidance on how to use existing wind information, but it does not address county-level concerns.• The NWCC, in partnership with the Forestry Sciences Laboratory, US Forest Service, has submitted a multi-year proposal to develop and implement a national wind database for natural resource management.• The proposal will provide a 4km national grid of monthly, twice daily and wind frequency information for the period 1961-current year.• The WNFLO model uses upper air wind data and topography to generate realistic wind fields.
Status	<ul style="list-style-type: none">• Preliminary work has been performed in the Columbia Basin and results are promising.• A proposal has been submitted to Economics and Social Sciences Division to fund this project.• Estimated 3-year costs are \$245,225.
What's Left?	<ul style="list-style-type: none">• Establish funding for this project and integrate with CRP as soon as possible.