

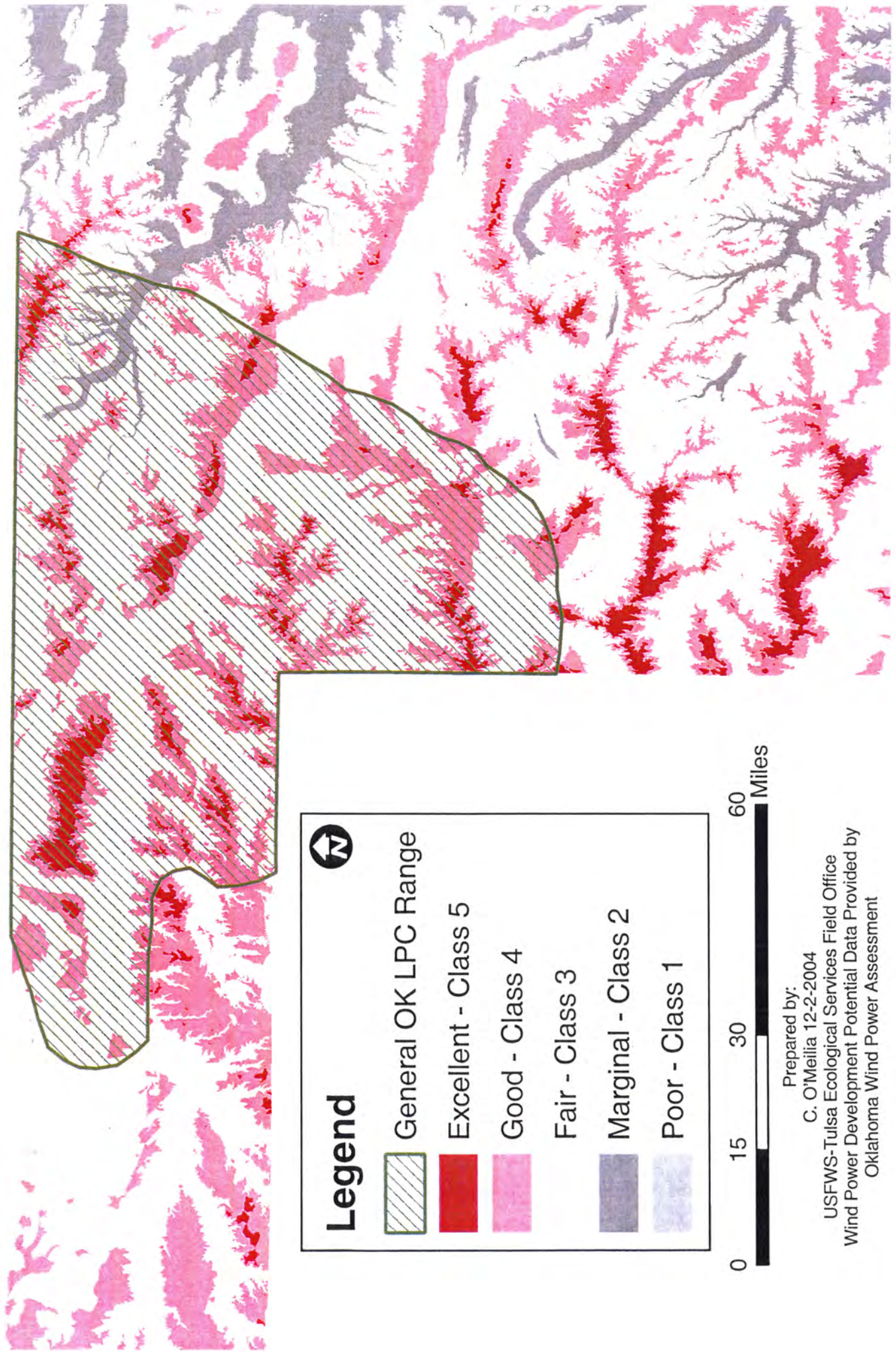
## WIND POWER DEVELOPMENT AND LESSER PRAIRIE CHICKEN IN OKLAHOMA

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1. 96 known Lesser Prairie Chicken (LPC) leks in Oklahoma
2. 89/96 (i.e., 93%) of known LPC leks occur within the ~2.7 million acre area defined as the General OK LPC Range (hereafter 'Range', see polygon on attached map).
  - a. Total acres in Oklahoma = 44.5 million acres ( $\pm 1\%$ )
  - b. Total acres in Range = 2.7 million acres ( $\pm 1\%$ )
  - c. Range = 6.1% of entire Oklahoma area
3. Neural Net Wind Power Development Potential model (Neural model) created by the Oklahoma Wind Power Assessment (OWPA) defines five classes:
  - a. Excellent-Class 5,
  - b. Good-Class 4,
  - c. Fair-Class 3,
  - d. Marginal-Class 2,
  - e. Poor-Class 1.
4. Total Neural Net Area by Class for all of Oklahoma (Acres)
  - a. Excellent – 401,458.6
  - b. Good – 3,499,591.2
  - c. Fair – 10,656,617.7
  - d. Marginal – 10,622,547.7
  - e. Poor – 19,518,348.7
5. Total Neural Net Area by Class for Range (Acres; % of total Neural Net Class Area)
  - a. Excellent – 138,618.5; 34.5%
  - b. Good – 721,848.0; 20.6%
  - c. Fair – 1,763,201.4; 16.5%
  - d. Marginal – 52,619.6; 0.5%
  - e. Poor – 0.0; N/A
6. The Range includes the following breakdown by percentage of the entire state of Oklahoma's wind power development potential: Excellent, 34.7%; Good, 20.7%; Fair, 16.7%; Marginal, 0.5 %; Poor, 0.0 %.
7. 51/96 (i.e., 53.1%) of known Oklahoma LPC leks occur within 1 mile of land classified as Excellent by OWPA's Neural model.
8. 66/96 (i.e., 68.8%) of known Oklahoma LPC leks occur within 2 miles of land classified as Excellent by OWPA's Neural model.

9. 73/96 (i.e., 76.0%) of known Oklahoma LPC leks occur within 3 miles of land classified as Excellent by OWPA's Neural model.
10. 81/96 (i.e., 84.4%) of known Oklahoma LPC leks occur within 4 miles of land classified as Excellent by OWPA's Neural model.
11. 87/96 (i.e., 90.6%) of known Oklahoma LPC leks occur within 5 miles of land classified as Excellent by OWPA's Neural model.
12. 94/96 (i.e., 97.9%) of known Oklahoma LPC leks occur within 10 miles of land classified as Excellent by OWPA's Neural model.

# Wind Power Development and Lesser Prairie Chicken In Oklahoma



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Wind Power Development Potential Data Provided by  
Oklahoma Wind Power Assessment