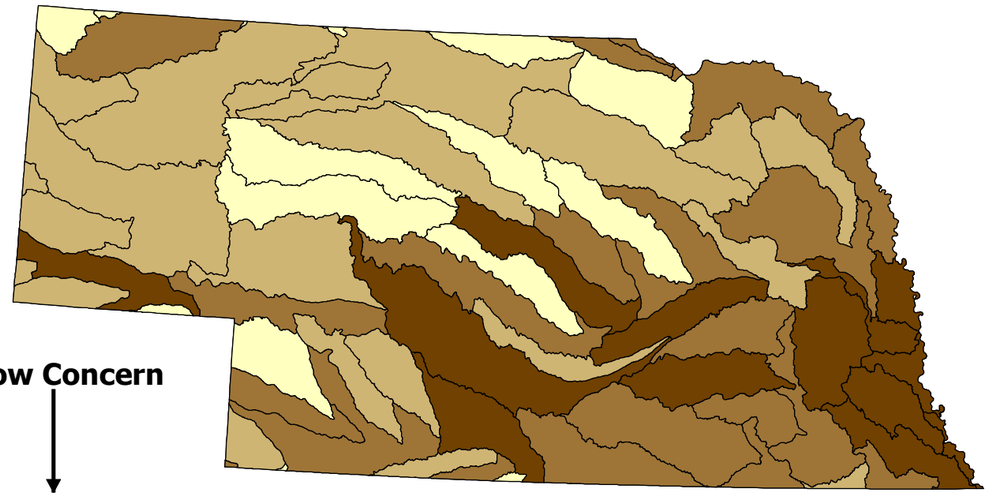
# Wildlife Analysis - NERA Final Analsyis



**Final HUC Ranking**

- **Low Concern**
- ↓
- **High Concern**

Description of Interpretation: Input layers 1 - 9 weighted values for wildlife were totaled to give a final HU ranking. Rankingswere classified into 4 classes using Natural Breaks. The higher the ranking, the higher the concern for Wildlife.

Map is not appropriate for localized interpretation. This map is to be used for area to area (hydro unit to hydro unit) comparisons only.

NRCS USDA NRCS Nebraska

Map Date: June 2005

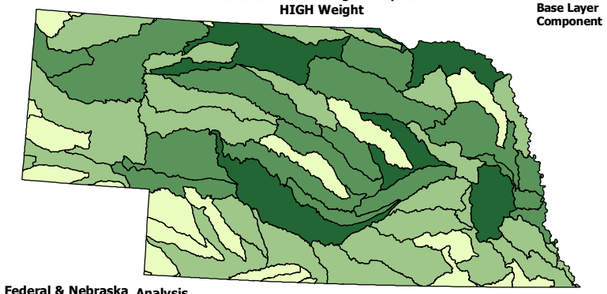
## Analysis Maps

1. T & E Species, 2. Surface Water Flow Decline, 3. Grassland Change, 4. Forestland Trend,
5. At Risk Species, 6. Wetland Trend, 7. 303d Impaired Waters, 8. Urban/Built-Up Trend, 9. % HU Cropped Fields

Nebraska Resource Assessment

**Threatened & Endangered Species**
**HIGH Weight**

Wildlife Base Layer Component



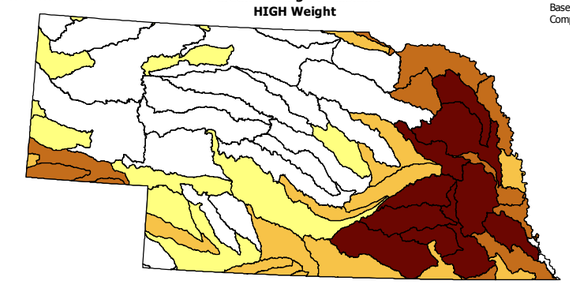
| Federal & Nebraska T & E Species | Analysis Weight |
|---|---|
| 0 - 2 | 80 |
| 3 - 5 | 100 |
| 6 - 9 | 120 |
| 10 - 12 | 140 |

1. **Threatened & Endangered Species**
NERA 2 used NE Game & Parks data. Any occurance of Threatened & Endangered species in a HU for both Federal and State listed species.

Nebraska Resource Assessment

**Percent Change Grassland**
**HIGH Weight**

Wildlife Base Layer Component



| % HU Change | Analysis Weight |
|---|---|
| 2.15 - 21.46 | 80 |
| 21.47 - 40.23 | 100 |
| 40.24 - 61.07 | 120 |
| 61.08 - 82.76 | 140 |

3. **NERA 2 used NASS 2003 data to determine the acres of grassland within each HUC.**

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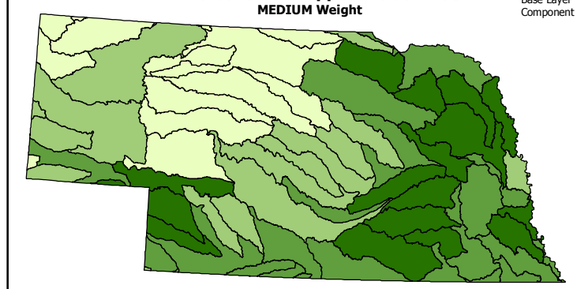
**Percent HU Cropped Fields - 2004**
**MEDIUM Weight**

Wildlife Base Layer Component



| % HU | Analysis Weight |
|---|---|
| 0.7 - 17.9 | 40 |
| 18.0 - 43.2 | 50 |
| 43.3 - 66.7 | 60 |
| 66.8 - 98.7 | 70 |

9. **Percent HU Cropland**
**NERA 2 uses FSA 2004 digitized field boundary data to determine the number of cropped field acres within each HU. These acres do not include CRP.**

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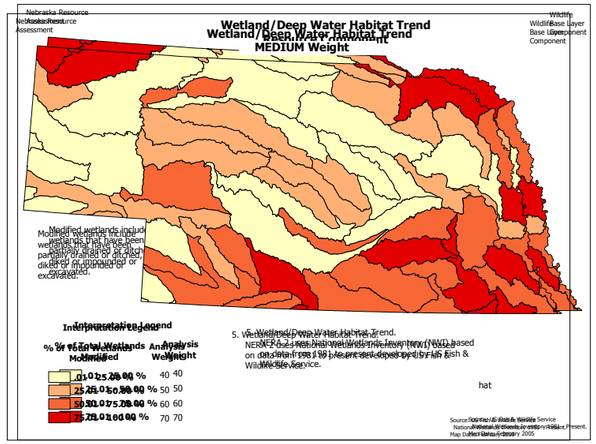
**Wetland/Deep Water Habitat Trend**
**MEDIUM Weight**



Modified wetlands include Modified wetlands are those wetlands that have been altered or filled, or partially drained or diked, dired or impounded or excavated.

Interpretative Legend

| % of Total Wetlands Modified | Analysis Weight |
|---|---|
| 0.01 - 25.00 % | 40 |
| 25.01 - 50.00 % | 50 |
| 50.01 - 75.00 % | 60 |
| 75.01 - 100.00 % | 70 |

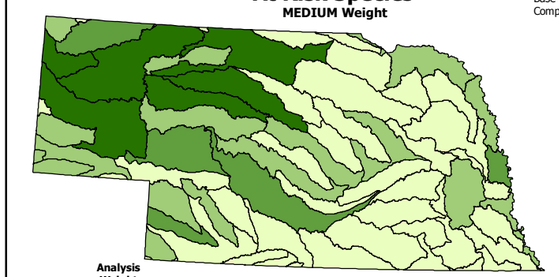
5. Wetland/Deep Water Habitat Trend.
NERA 2 uses National Wetlands Inventory (NWI) based on data from 1980's and developed by U.S. Fish & Wildlife Service.

Source: U.S. Fish & Wildlife Service National Wetlands Inventory (NWI) Present. Map Date: June 2005

Nebraska Resource Assessment

**At Risk Species**
**MEDIUM Weight**

Wildlife Base Layer Component



| Number/HUC | Analysis Weight |
|---|---|
| 0 - 2 | 40 |
| 3 - 4 | 50 |
| 5 - 6 | 60 |
| 7 - 9 | 70 |

5. **Nebraska At Risk Species**
**NERA 2 uses Nebraska's Natural Legacy Project Initial List of Tier 1 Species. This information was used to determine the number of these species, by habitat type, that existed per HU. This number was summed and the HU were then categorized according to this number.**

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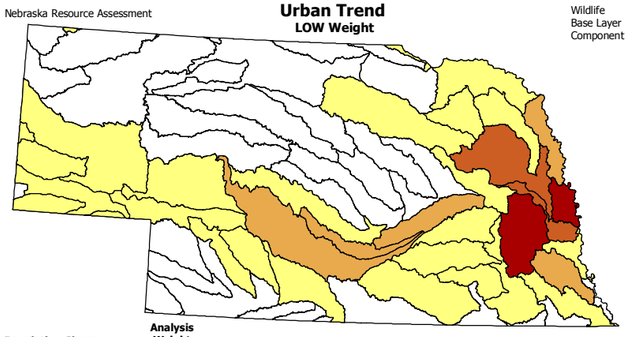
**Urban Trend**
**LOW Weight**

Wildlife Base Layer Component



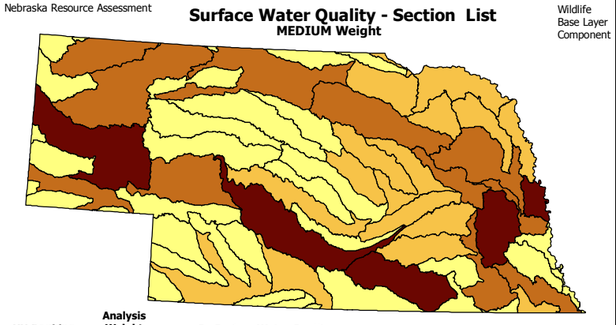
| Population Change | Analysis Weight |
|---|---|
| 0.51 - 1746.32 | 16 |
| 1746.33 - 6371.89 | 20 |
| 6371.90 - 14549.51 | 24 |
| 14549.52 - 44551.68 | 28 |

**NERA 2 used 1990 and 2000 census data to determine the HU's that have shown the greatest increase in population over a 10 year period. This map portrays the change in population.**

Nebraska Resource Assessment

**Surface Water Quality - Section List**
**MEDIUM Weight**

Wildlife Base Layer Component



| HU Ranking | Analysis Weight |
|---|---|
| 80 - 100 | 40 |
| 101 - 160 | 50 |
| 161 - 220 | 60 |
| 221 - 280 | 70 |

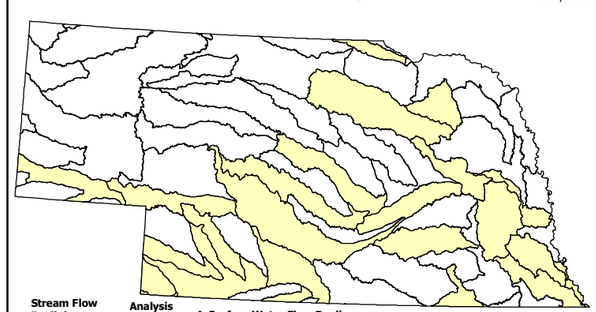
2. **Surface Water Quality**
**NERA 2 uses the 2004 Nebraska Department of Environmental Quality Section 303d Impaired Stream or Lake list.**

**This map is the compilation of the following three data sets:**
**Population by HUC Number of CAFO's by HUC % of Total Stream Miles Impaired by HUC**

Nebraska Resource Assessment

**Surface Water Flow Decline**
**MEDIUM Weight**

Wildlife Base Layer Component



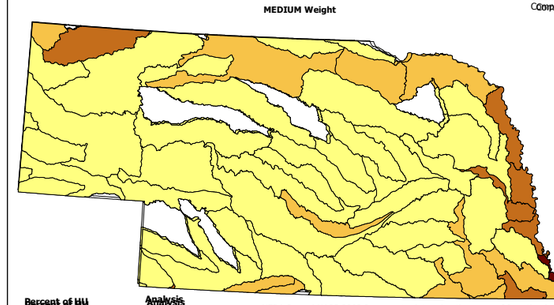
| Stream Flow Declining | Analysis Weight |
|---|---|
| No Decline | 0 |
| Decline | 50 |

4. **Surface Water Flow Decline**
**NERA 2 used annual percent change in flow calculations from DNR.**

Nebraska Resource Assessment

**Forestl Tinendl**
**MEDIUM Weight**

Wildlife Base Layer Component



| Percent of HU Change in Forestland | Analysis Weight |
|---|---|
| -83.75 - -59.06 | 70 |
| -59.07 - -20.18 | 60 |
| -20.19 - -6.46 | 50 |
| -6.46613220 - -0.01 | 40 |
| 0.00613220 - 0.01 | 40 |

NERA 2 used NASS 2003 Imagery to determine the acres of forestland within each HUC. (See NASS 2003 Reference Map). This was then compared to the Native Vegetation Map to determine the change in acres of forestland per HUC. The % of change within each HUC was then determined based on the acres of change.