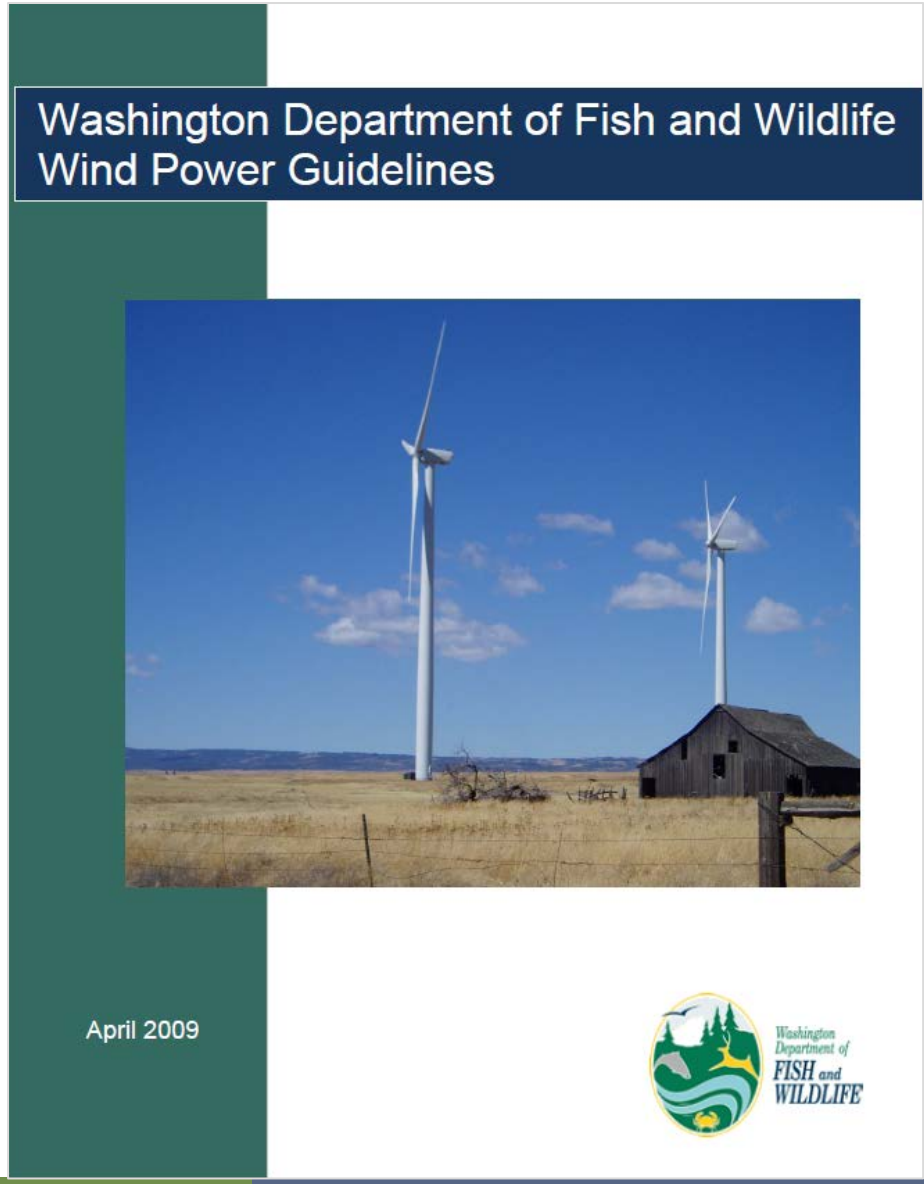
Overview: 3 Mitigation Metric Options

- WDFW Wind Power Guidelines (Shrub Steppe)
- Crosswalk Method (Water Quality, Land Use, Habitat Restoration)
- WDFW Instream Atlas Method (Habitat, Flow, Fish Utilization Method)

Environmental Impact Metrics—Shrub Steppe

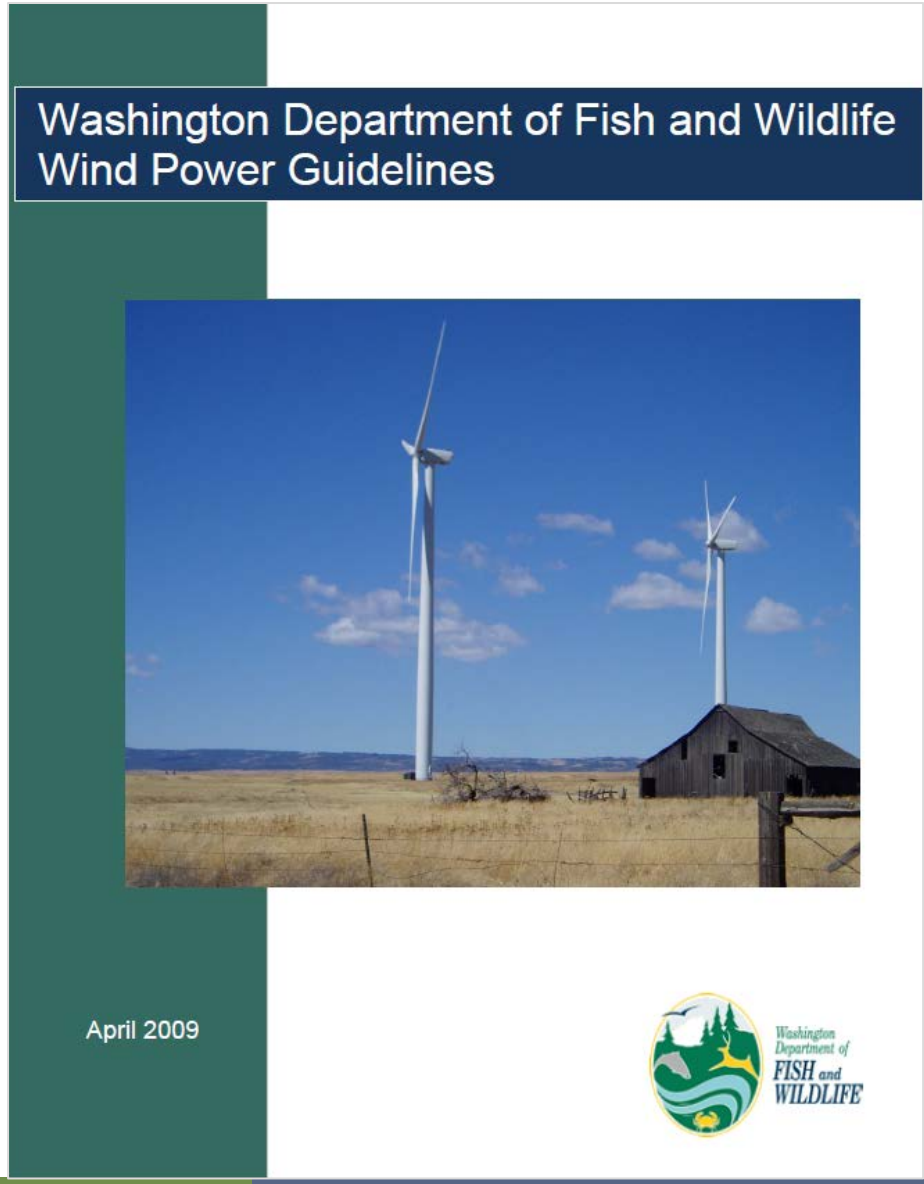
1. Pre-Project Habitat Assessment
2. Impact Avoidance
3. Criteria for Replacement
   a) In-Kind
   b) Geographic Region
   c) At Risk

http://wdfw.wa.gov/publications/00294/wdfw00294.pdf



Environmental Impact Metrics—Shrub Steppe

4. Mitigation Ratios based on risk, habitat type, habitat function, etc.
   a) No mitigation
   b) 1:1
   c) 2:1
   d) Consultation
   e) By Fee



Environmental Impact Metrics—Crosswalk Method

In-Kind + Out-of-Kind to solve imperfect space/time matching

1. Pre-Project Site Assessment
2. Point-based assignment for project benefits
3. Point-based assignment for project impacts
4. Negotiated mitigation ratio for the project (2.3:1)

INITIAL ACQUISITION AND RESTORATION ASSESSMENT OF THE SMITH RANCH

Prepared for
Cities of Lacey, Olympia, and Yelm

Prepared by
Anchor QEA, LLC

Under Contract to
WestWater Research, LLC

October 2010

Environmental Impact Metrics—Crosswalk Method

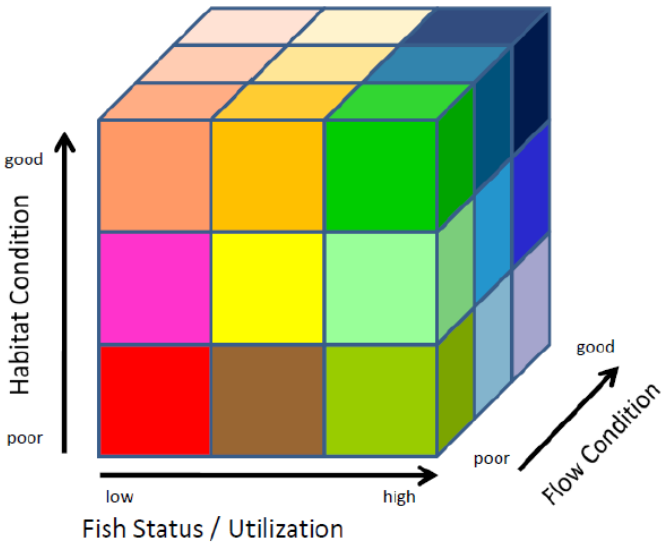
Benefits Calculations (4,327 points)

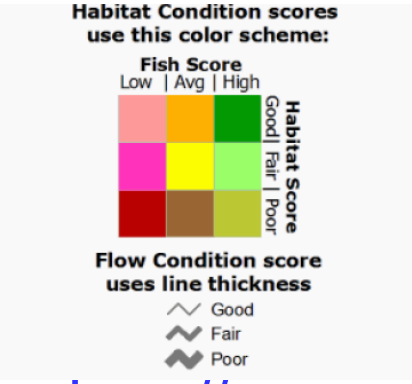
1. Cessation of intensive agricultural practice (5 points / acre)
2. Side-channel restoration (15 points / 100 sq. feet)
3. High-flow channel restoration (5 points / 100 sq. feet)
4. Wetland restoration (40 points / acre)
5. Riparian forest / riparian buffers (5 to 10 points / acre)
6. Bank stabilization (20 points / 100 sq. feet)
7. Year-round benefits recognized as conservative assumption

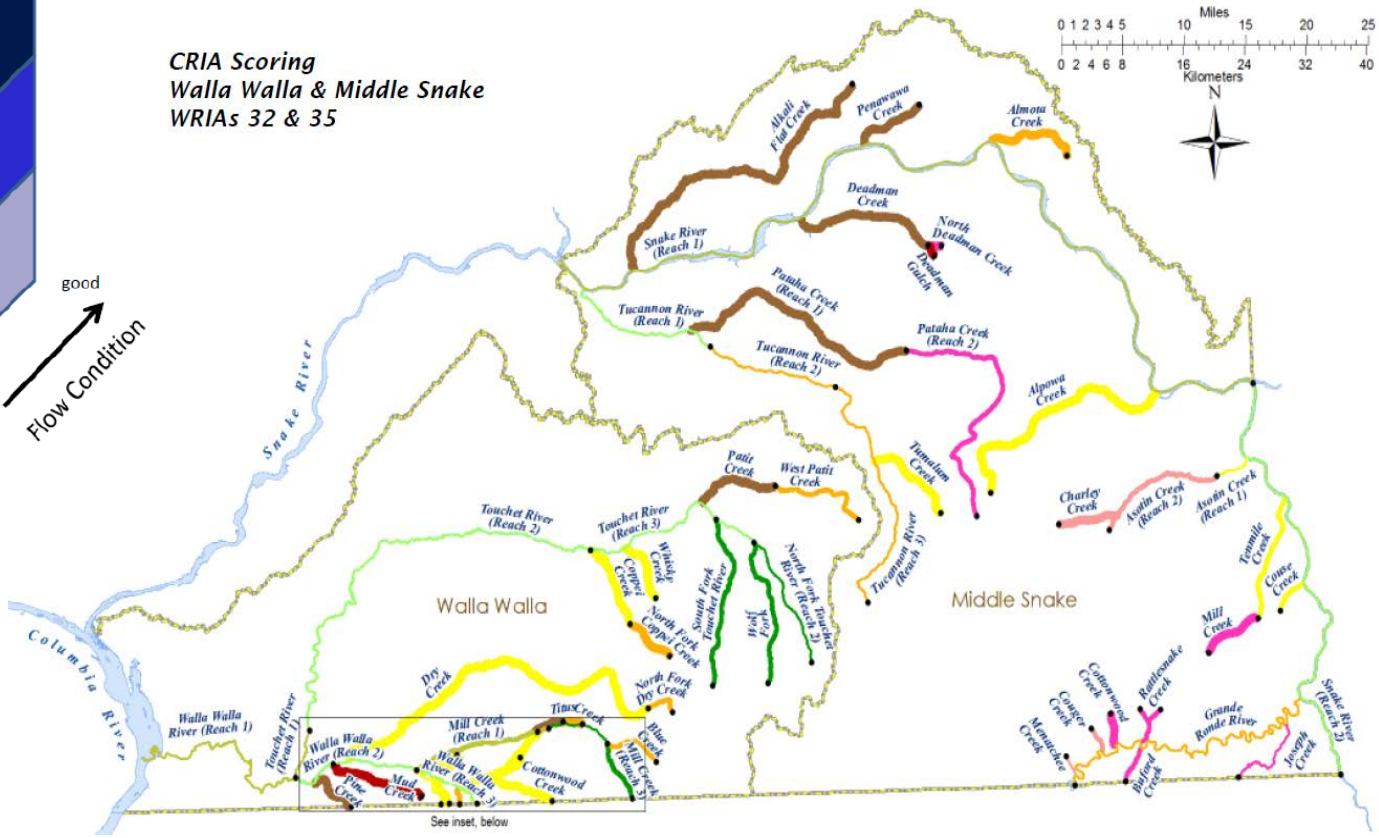
Flow Depletion Calculations (1,880 points)

1. 0.1 cfs / mile
2. Seasonal impacts recognized as conservative assumption

Environmental Impact Metrics– Columbia River Instream Atlas

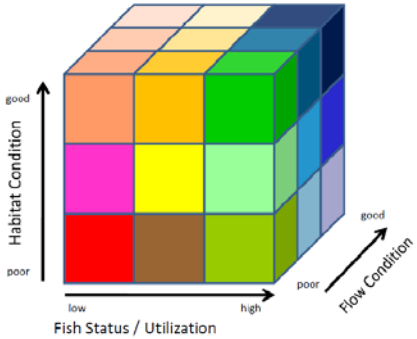






http://www.ecy.wa.gov/programs/wr/cwp/forecast/reports.html

Environmental Impact Metrics—Columbia River Instream Atlas



<u>Hypothetical</u>

1. Impacts = 1 cfs in a basin with (1,2,3) scoring = 6 points
2. Criteria-Based Mitigation Ratio Selection (2:1 to 4:1)
   a) Is In-Kind Also Provided?
   b) Length of “imperfect” matching in space/time
   c) Geographic specificity
3. Required benefits in the 12 to 24 point range
4. Select passage, habitat projects to augment proposal