Irrigation Efficiencies
Grant Program

October 4, 2011
Anna Lael, District Manager
Kittitas County Conservation District
Kittitas County Conservation District

- Dust Bowl
- Soil Conservation Act of 1935
- Political Subdivision of State (RCW 89.08), organized in 1942
Kittitas County Conservation District

- Crops
  - Timothy Hay
  - Alfalfa Hay
  - Corn/Sudan Grass/Grains
  - Beans and Potatoes
  - Pasture
Kittitas County Conservation District

- **Irrigation Water Sources**
  - Irrigation Districts/Companies
    - Storage Reservoirs
  - Individual Creek Rights

- **Irrigation Water Delivery**
  - Earthen lined ditches

- **On-Farm Irrigation Methods**
  - Flood
  - Rill
  - Sprinkler
Irrigation Efficiencies Program (IEP)

- 2001 Drought
  - 16 Fish Critical Basins (10 Conservation Districts)
  - Trust Water Rights Program
# Kittitas County Conservation District

<table>
<thead>
<tr>
<th>Contracts</th>
<th>Acres</th>
<th>CFS to Trust</th>
<th>Acre-Feet to Trust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lmuma Creek</td>
<td>192</td>
<td>0.25</td>
<td>90</td>
</tr>
<tr>
<td>Yakima River</td>
<td>962</td>
<td>1.26</td>
<td>446</td>
</tr>
<tr>
<td>Wilson Creek</td>
<td>608</td>
<td>9.45</td>
<td>2,042</td>
</tr>
<tr>
<td>Manastash Creek</td>
<td>84</td>
<td>0.89</td>
<td>153</td>
</tr>
<tr>
<td>Taneum Creek</td>
<td>355</td>
<td>3.47</td>
<td>383</td>
</tr>
<tr>
<td>Teanaway River</td>
<td>43</td>
<td>0.25</td>
<td>61</td>
</tr>
<tr>
<td>Big Creek</td>
<td>95</td>
<td>1.09</td>
<td>301</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>2,339</td>
<td>16.66</td>
<td>3,476</td>
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</tbody>
</table>
Water Quantity

- Focus on flow limited streams
  - Priority Stream reaches in each District
- Trust Water Rights Program
  - Cost Share % = Saved Water to Trust %
- Fish benefit
  - WDFW concurrence for each project
Fish Screens

- IEGP requires irrigation diversions to be properly screen
- Fish screen and fish passage not IEGP eligible expenses
- Forces cooperation between programs and funding to address “big picture”
Water Quality

- TMDLS
  - Suspended Sediment, Turbidity and Organochlorine Pesticide
  - Temperature (2)
  - Fecal Coliform
## Soil Savings

<table>
<thead>
<tr>
<th>Subbasin</th>
<th>Acres Treated</th>
<th>Soil Savings (Per Acre Per Year)</th>
<th>Soil Savings Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wilson Creek</td>
<td>608</td>
<td>~1.0 to 1.6 tons</td>
<td>~600 to 970 tons</td>
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</tbody>
</table>

~5-7% of sediment load in Wilson Creek
Matching Funds

- Yakima Tributary Access & Habitat Program
- Ecology Infrastructure
- USDA Natural Resources Conservation Service’s Environmental Quality Incentives Program (EQIP)
  - Agricultural Water Enhancement Program
Questions?