Attributes of Sustainable Feedstock Supplies

- Fit for Use
- Affordable
- Scalable
- Reliable
- Legal & Responsible
Stakeholders

- Growers
- Primary Feedstock Processors
- Customers and Distributors
- Government
- Environmental Groups & Consultants
- Standards Organizations
- Associations
- Universities
- Lawyers
Environmental Issues Are Key

• Land Use Change
• Biodiversity
• Water Quality and Quantity
• Climate Change
• Pesticides
• Genetically Modified Organisms
• Recycling
U.S. Environmental Policy Context

- Laws and Regulations
- Other Government Programs
- Private Sector Initiatives
Forestry Best Management Practices

- BMPs are the primary mechanism for controlling water quality impacts of forestry under Clean Water Act.
- BMPs are proven effective when implemented.
- By 1990, most states had made good progress in forestry BMP implementation, but there were opportunities for improvement.
- Since 1990, forest certification has helped increase BMP implementation rates to very high levels.
<table>
<thead>
<tr>
<th>Year</th>
<th>Inventory</th>
<th>Annual Removals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1953</td>
<td>9</td>
<td>0.2</td>
</tr>
<tr>
<td>2007</td>
<td>13</td>
<td>0.3</td>
</tr>
</tbody>
</table>

*Billions of Dry Tons*
U.S. Ecoregions and Protected Areas
What Could Go Wrong?
Spotted Owl Listed in 1990
Additional Challenges

- Endangered Species Listing Process
- Biomass Carbon Accounting
- Clean Water Act
- Pesticide Registration Reviews
- Interactions of ESA, CWA, FIFRA
- Biotech Regulations
- Certification Issues
What Could Go Right?