Title: Extension and Outreach Activities

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Objectives: Develop educational materials and outreach events for producers, the general public, legislators, and other non-farm stakeholders. Conduct a global literature review of oilseed crop production.

Methods: Current and future publications include Extension manuals and fact sheets, news releases, and research papers based on data from each of the regions. These are written as information becomes available during the project. Outreach events have featured workshops, legislative tours and field days.

Results:
Events: The following events were held during 2008 to disseminate information:

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Canola Field Day</td>
<td>Omak</td>
<td>35</td>
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<tr>
<td>Paterson Field Day</td>
<td>Paterson</td>
<td>45</td>
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<tr>
<td>Lind Field Day</td>
<td>Lind</td>
<td>215</td>
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<tr>
<td>Wilke Field Day</td>
<td>Davenport</td>
<td>50</td>
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<td>PCFS Field Day</td>
<td>Pullman</td>
<td>90</td>
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<tr>
<td>Organic Farm Field Day</td>
<td>Puyallup</td>
<td>100</td>
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<tr>
<td>Canola Seed Meeting</td>
<td>Odessa</td>
<td>80</td>
</tr>
<tr>
<td>South Central WA Bioenergy Tour</td>
<td>Region 3</td>
<td>50</td>
</tr>
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Case studies: Fifteen producers from the 4 regions of Washington state were interviewed about their experience with oilseed crop production. The information from the interviews will provide valuable information for other producers interested in growing oilseed crops for the first time, as well as be available for local Extension agents and other agriculture enterprises.

Literature review: Global research papers, reports, and websites were collected on oilseed crops and distributed to appropriate researchers. Summaries of previous research findings and reports are being compiled for the various subdisciplines. Contact with national and international researchers have been made in key areas such as germplasm accession and biennial canola management.

Publications: A website for the research project has been set up and is continually updated at http://www.css.edu/biofuels. Two Extension bulletins about switchgrass production and another one for irrigated canola production are in review for online publication in 2009. Several of the research project findings were featured at various meetings and field days during 2008, including the 2008 ASA-CSSA-SSSA annual meetings. The publications to date are as follows:
**Publications:**


Fransen, S. and H.Collins. 2009 b. Late seedling development and winter dormancy management of irrigated switchgrass for biofuel in the PNW. WSU Bulletin (in press)

Hammac, A., Pan, W., Bolton, R., Koenig, R. 2008. Characterization of crop root hairs using high resolution imaging. ASA Abstracts, Madison, WI.


**Future Plans:**
Field days and Extension workshops and meetings continue to be the primary means of sharing information with growers, ag sector employees, politicians, and the general public. In addition, Extension fact sheets or bulletins will be generated on other oilseed and cellulosic crops, and the production methods involved. The case studies will be completed and published online, and maintenance of the website continues. After data is collected for the 2008-2009 crop year, sufficient information should be available to begin writing research papers for refereed publications.
Winter canola field day near Omak, WA featuring Dr. Frank Young’s research.

Dr. An Hang presenting information about safflower research at Paterson field day.

Grower Rich Olson and Dennis Roe (WSU) discussing carryover herbicide damage in spring canola during case study interview near Garfield, WA.
Drs. Steve Fransen and Hal Collins sharing biofuel cropping systems research objectives during 2008 legislative tour at WSU-Prosser IAREC.

Ted Durfey, Natural Selection Farms, discussing the process of converting oilseed crops in to biodiesel to attendees of 2008 Bioenergy Legislative tour.