# Peer Review Plan

**Preliminary Title:** The Economics of Glyphosate Resistance Management  
**Type of Report (ERR, EIB, EB):** ERR  
**Agency:** Economic Research Service, USDA  
**Agency Contact:** Daniel Pick, dpick@ers.usda.gov

**Subject of Review:** Lower herbicide costs, lower yield losses, and higher profits provide strong economic incentives for corn producers to adopt glyphosate as their primary herbicide, particularly on herbicide-tolerant genetically engineered corn. But over time, weeds can become increasingly resistant to glyphosate. This study examines economic incentives that might contribute to the evolution of glyphosate resistance in weeds; the impacts of resistance on input use, yield, and profit; the impacts of the adoption of best management practices on input use, yield, and profit; and the aggregate costs of glyphosate resistance. Using dynamic programming models, we also examine optimal and sub-optimal herbicide decision rules and annual incentive payments designed to promote adoption of the optimal pest management strategy.

**Purpose of Review:** The purpose of the review is to ensure the high-quality of the economic analysis, transparent explanation of methods, objective interpretation of results, and effective communication to the intended audience.

<table>
<thead>
<tr>
<th>Type of Review:</th>
<th>Panel Review</th>
<th>Individual Reviewers</th>
<th>Alternative Process (Briefly Explain):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[ ]</td>
<td>[X]</td>
<td></td>
</tr>
</tbody>
</table>

**Timing of Review (Est.):**  
**Start:** 09/11/12  
**End:** 03/11/13  
**Completed:** 07/15/13

**Number of Reviewers:**  
[ ] 3 or fewer  
[X] 4 to 10  
[ ] More than 10

**Primary Disciplines/Types of Expertise Needed for Review:** Economists

**Reviewers selected by:**  
[X] Agency  
[ ] Designated Outside Organization

**Opportunities for Public Comment?**  
[ ] Yes  
[X] No

If yes, briefly state how and when these opportunities will be provided:  
**How:**  
**When:**  
**Peer Reviewers Provided with Public Comments?**  
[ ] Yes  
[X] No

**Public Nominations Requested for Review Panel?**  
[ ] Yes  
[X] No