## **Peer Review Plan**

Preliminary Title:	Weather Effects on Expected C	orn and	l Soybean Yields	
Type of Report (ERR, EIB, EB,)	Special Outlook Report			
		[X]	Influential Scientific Information	
Agency:	Economic Research Service USDA	[]	Highly Influential Scientific Assessment	
Agency Contact:	Daniel Pick, <u>dpick@ers.usda.g</u>	<u>vc</u>		
Subject of Review:	Weather during the growing season is critical for corn and soybean yield development. Adjusting for weather in analysis of historical U.S. corn and soybeans yields is important for determining underlying trends and future yield expectations. Models for U.S. corn and soybean yields provide estimates of the effects of weather on yields for those crops, allowing those effects to be netted out to derive weather- adjusted trend yields. The corn model also includes planting progress by the middle of May. The estimated models indicate that the responses of corn and soybean yields are asymmetric for variations in precipitation in the summer—reductions in precipitation below its average result in larger declines in yields than the gains in yields resulting from equal-sized increases in precipitation above its average. The yield models developed are used to track effects of high temperatures and drought on U.S. corn and soybean yields in 2012 and to provide estimates for expected 2013 yields. Further, the models provide a framework for assessing changes in expected yields in response to planting progress and weather developments.			
Purpose of Review:		nods, ot	the high-quality of the economic analysis, ojective interpretation of results, and effective ce.	
Town of Devision				
Type of Review:	[] Panel	Review	[X] Individual Reviewers	
Type of Keview:			rocess (Briefly Explain):	
Timing of Review (E	[] Alterr		rocess (Briefly Explain):	3
	[] Altern Est.): Start: 4/15/13	ative P	rocess (Briefly Explain): 5/30/2013 Completed: 5/30/2013	3
Timing of Review (E Number of Reviewer	[] Alterr Est.): Start: 4/15/13 rs: [] 3 or	ative Pr End: [X]	rocess (Briefly Explain): 5/30/2013 Completed: 5/30/2013	3
Timing of Review (E Number of Reviewer	[ ] Altern Est.): Start: 4/15/13 rs: [ ] 3 or fewer Types of Expertise Needed for R	ative Pr End: [X] eview:	rocess (Briefly Explain): 5/30/2013 Completed: 5/30/2013 4 to 10 [] More than 10	3
Timing of Review (E Number of Reviewer Primary Disciplines/ Reviewers selected b Opportunities for Pu	[ ] Altern Est.): Start: 4/15/13 rs: [ ] 3 or fewer Types of Expertise Needed for R py: [X] Agency	ative Pr End: [X] eview: Orga	rocess (Briefly Explain): 5/30/2013 Completed: 5/30/2013 4 to 10 [] More than 10 Economists [] Designated Outside Organization nization's Name: Yes [X] No	3
Timing of Review (E Number of Reviewer Primary Disciplines/ Reviewers selected b Opportunities for Pu If yes, briefly s How: When:	[ ] Altern Est.): Start: 4/15/13 rs: [ ] 3 or fewer Types of Expertise Needed for R by: [X] Agency blic Comment?	ative Pr End: [X] eview: Orga	rocess (Briefly Explain): 5/30/2013 Completed: 5/30/2013 4 to 10 [] More than 10 Economists [] Designated Outside Organization nization's Name: Yes [X] No vill be provided:	3

