

June 25, 2009

MEMORANDUM

TO: Air Docket EPA-HQ-OAR-2005-0161

SUBJECT: Docket Key for Renewable Fuel Lifecycle Greenhouse Gas (GHG) Emissions Results

To facilitate public review, EPA is providing the following directory to lifecycle analysis results available on the public docket. EPA's lifecycle analysis as part of proposed revisions to the Renewable Fuels Standard (RFS2) Program is explained in the preamble and in the Draft Regulatory Impact Analysis for the RFS2 Notice of Proposed Rulemaking. The documents listed below contain a subset of information about EPA's lifecycle analysis which can be used to review EPA's results. Reviewers should refer to the RFS2 docket for further information. The documents listed below and additional information are available at www.regulations.gov under Docket ID: EPA-HQ-OAR-2005-0161.

Document #	Title	Description
EPA-HQ-OAR-2005-0161-0925	Calculation of Lifecycle Greenhouse Gas Emissions for the 2005 Gasoline and Diesel Baselines	Memorandum to the docket briefly describing the petroleum baseline calculation spreadsheet.
EPA-HQ-OAR-2005-0161-0925.1		Lifecycle GHG calculations for the 2005 petroleum baseline. Many of the data inputs in this sheet come from a version of GREET 1.8 that is also on the docket.
EPA-HQ-OAR-2005-0161-0956	GREET 1.8b for Petroleum Lifecycle GHG Analysis	Version of GREET 1.8 used for 2005 petroleum baseline lifecycle GHG calculations
EPA-HQ-OAR-2005-0161-0938	Renewable Fuel Lifecycle GHG Emissions Results Spreadsheets	Memorandum to the docket briefly describing the lifecycle GHG emissions results spreadsheets, which combine all of the significant direct and indirect lifecycle GHG emissions to calculate the overall percent reductions compared to the petroleum baseline.
EPA-HQ-OAR-2005-0161-0938.1		Biodiesel lifecycle GHG emissions results
EPA-HQ-OAR-2005-0161-0938.2		Corn ethanol lifecycle GHG emissions results
EPA-HQ-OAR-2005-0161-0938.3		Sugarcane ethanol lifecycle GHG emissions results
EPA-HQ-OAR-2005-0161-0938.4		Corn ethanol lifecycle GHG emissions results for Low Corn Only Case (note: the "scenario" tab in this spreadsheet is incorrect but does not affect the results)
EPA-HQ-OAR-2005-0161-0938.5		Corn stover lifecycle GHG emissions results
EPA-HQ-OAR-2005-0161-0938.6		Switchgrass ethanol lifecycle GHG emissions results
EPA-HQ-OAR-2005-0161-0945	Food and Agricultural Policy Research Institute (FAPRI) Results for Lifecycle GHG Analysis	Memorandum to the docket briefly describing FAPRI model results spreadsheets.
EPA-HQ-OAR-2005-0161-0945.1		FAPRI crop production results for all biofuel cases
EPA-HQ-OAR-2005-0161-0945.2		FAPRI livestock results for all biofuel cases

Document #	Title	Description
EPA-HQ-OAR-2005-0161-0947	Foreign Agricultural Inputs Data for Lifecycle GHG Analysis	Memorandum to the docket briefly describing the foreign agricultural input spreadsheets.
EPA-HQ-OAR-2005-0161-0947.1		Summary of GHG emissions from foreign agricultural energy use for all biofuel cases
EPA-HQ-OAR-2005-0161-0947.2		Summary of international rice methane emissions for 2012, 2017 and 2022 for all biofuel Cases
EPA-HQ-OAR-2005-0161-0947.3		2022 results for the Biodiesel Only Case
EPA-HQ-OAR-2005-0161-0947.4		2022 results for the Corn Only Case
EPA-HQ-OAR-2005-0161-0947.5		2022 results for the Import Only Case
EPA-HQ-OAR-2005-0161-0947.6		2022 results for the Low Corn Only Case
EPA-HQ-OAR-2005-0161-0947.7		2022 results for the RFS2 Control Case
EPA-HQ-OAR-2005-0161-0947.8		Summary of foreign agricultural inputs results for all biofuel cases
EPA-HQ-OAR-2005-0161-0947.9		2022 results for the Switchgrass Only Case
EPA-HQ-OAR-2005-0161-0947.10		2017 results for the Biodiesel Only Case
EPA-HQ-OAR-2005-0161-0947.11		2017 results for the Corn Only Case
EPA-HQ-OAR-2005-0161-0947.12		2012 results for the Biodiesel Only Case
EPA-HQ-OAR-2005-0161-0947.13		2012 results for the Corn Only Case
EPA-HQ-OAR-2005-0161-0948	Forest Agricultural Sector Optimization Model (FASOM) Results for Lifecycle GHG Analysis	Memorandum to the docket briefly describing the FASOM model results spreadsheet.
EPA-HQ-OAR-2005-0161-0948.1		FASOM results for lifecycle GHG analysis
EPA-HQ-OAR-2005-0161-0949	Winrock Land Use Change Emissions Results	Memorandum to the docket briefly describing the Winrock results spreadsheets.
EPA-HQ-OAR-2005-0161-0949.1		Argentina land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.2		Brazil land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.3		China land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.4		EU land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.5		EU land use change emissions factors (unintended repeat)
EPA-HQ-OAR-2005-0161-0949.6		Indonesia land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.7		Malaysia land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.8		Malaysia land use change emissions factors (unintended repeat)
EPA-HQ-OAR-2005-0161-0949.9		Nigeria land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.10		Philippines land use change emissions factors
EPA-HQ-OAR-2005-0161-0949.11		South Africa land use change emissions factors
EPA-HQ-OAR-2005-0161-0976		India land use change emissions factors

Document #	Title	Description
EPA-HQ-OAR-2005-0161-0950	Renewable Fuel Lifecycle GHG Calculations	A memorandum to the docket briefly describing the renewable fuel lifecycle GHG calculation spreadsheets, which calculate GHG emissions (all significant direct and indirect emissions except for emissions from international land use change) per unit of renewable fuel.
EPA-HQ-OAR-2005-0161-0950.1		Lifecycle GHG calculations for the Biodiesel Only Case
EPA-HQ-OAR-2005-0161-0950.2		Lifecycle GHG calculations for the Corn Only Case
EPA-HQ-OAR-2005-0161-0950.3		Lifecycle GHG calculations for the Import Only Case
EPA-HQ-OAR-2005-0161-0950.4		Lifecycle GHG calculations for the Low Corn Only Case
EPA-HQ-OAR-2005-0161-0950.5		Lifecycle GHG calculations for the Corn Stover Only Case
EPA-HQ-OAR-2005-0161-0950.6		Lifecycle GHG calculations for the Switchgrass Only Case