

Illinois River Corn Processors
Illinois River Energy, LLC
CA-GREET Model

The applicant has conducted its analysis of direct effects on carbon intensity for this pathway using CA-GREET, v.1.8b (Dec. 2009) (See http://www.arb.ca.gov/fuels/lcfs/ca_greet1.8b_dec09.xls). The standard inputs and parameters specified in CA-GREET remain unchanged except as noted in the input table below. The input table below specifies the spreadsheet location of the CA-GREET inputs and other parameters that were claimed as confidential business information or trade secret by the applicant, but it does not disclose the actual value of such inputs and parameters because they are claimed to be confidential business information or trade secret.

Illinois River Energy Input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

Inputs Data

Corn ethanol production requires process heat and electricity inputs for feedstock preparation, fermentation, distillation and dehydration. The input parameters for IRE ethanol produced with DDGS are presented below in Table 6 and the CA-GREET model was set to the “Midwest” region. The inputs are 2-year average values, based on monthly data. The natural gas input includes natural gas for DDGS drying and the electricity input is the same for both fuel pathway scenarios. The IRE ethanol and DDGS yields are higher than the yields assumed in the default Midwest corn ethanol with DDGS pathway under the LCFS; the IRE natural gas and electricity input are lower than the default corn ethanol plant energy inputs.

Table 1. Input Parameters for Ethanol Produced with DDGS

Input Parameter	
Ethanol Yield (gal/bu)	Confidential Business Information
DDGS Yield (lbs/gal)	Confidential Business Information
Natural Gas Input (Btu/gal)	Confidential Business Information
Electricity Input (kWh/gal)	Confidential Business Information