

Dakota Ethanol, LLC Wentworth, South Dakota 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 tables 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.

Dakota Ethanol, LLC Input data tables for the two pathways (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

PUBLIC Information

**Table 1A: CA-GREET Model Inputs for the Dakota Ethanol Pathway
Existing Operation before Energy Efficiency and Yield Improvements**

CA-GREET Model Sheet Name	Cell number	Default Pathway Value	Dakota Ethanol, LLC Existing Configuration Pathway Value	Units	Description	Comments
Regional LT	C2	U.S. Average	Confidential Business Information	n/a	Region for Analysis	Using Midwest corn and Midwest power
Fuel_Prod_TS	L277	36,000	Confidential Business Information	btu/gal	Corn Ethanol Plant Energy Use, Dry Mill	With modern plant, lower power use
Fuel_Prod_TS	D277	2.72	Confidential Business Information	gal/bu	Ethanol yield of Corn Ethanol Plant, Dry Mill	With modern plant, optimized yield
Inputs	C247	10.19%	Confidential Business Information	%	Share of process energy for Electricity	With modern plant, lower power use
Fuel_Prod_TS	T263	1202	Confidential Business Information	CaCO3 grams/bu	Lime fertilizer Used for Corn Farming	No Lime use needed

**Table 1B: CA-GREET Model Inputs for the Dakota Ethanol Pathway
Prospective Pathway with Energy Efficiency and Yield Improvements**

CA-GREET Model Sheet Name	Cell number	Default Pathway Value	Dakota Ethanol, LLC Prospective Pathway Value	Units	Description	Comments
Regional LT	C2	U.S. Average	Confidential Business Information	n/a	Region for Analysis	Using Midwest corn and Midwest power
Fuel_Prod_TS	L277	36,000	Confidential Business Information	btu/gal	Corn Ethanol Plant Energy Use, Dry Mill	With modern plant, lower power use
Fuel_Prod_TS	D277	2.72	Confidential Business Information	gal/bu	Ethanol yield of Corn Ethanol Plant, Dry Mill	With modern plant, optimized yield
Inputs	C247	10.19%	Confidential Business Information	%	Share of process energy for Electricity	With modern plant, lower power use
Fuel_Prod_TS	T263	1202	Confidential Business Information	CaCO3 grams/bu	Lime fertilizer Used for Corn Farming	No Lime use needed