

LCFS BIOFUEL PRODUCERS REGISTRATION LIST: PHYSICAL PATHWAY APPROVED

(Updated February 6, 2014)

FACILITY NAME	FACILITY ADDRESS	COMPANY ID	FACILITY ID	FUEL PATHWAY CODE	CARBON INTENSITY (CI) VALUE (gCO ₂ e/MJ)	FUEL PATHWAY DESCRIPTION	PHYSICAL PATHWAY CODE	PHYSICAL PATHWAY DESCRIPTION
ABE South Dakota, LLC	38469 133rd Street Aberdeen, South Dakota 57401	4094	70104	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHC065_1	88.59	2A Application*: Midwest dry mill, 84% Dry DGS and 16% Wet DGS, natural gas		
Abengoa Bioenergy Corporation - Colwich	523 East Union Avenue, Colwich, Kansas 67030	4776	70059	ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG	PHY02	By rail from U.S. to CA
Abengoa Bioenergy Corporation - Portales	1827 Industrial Drive, Portales, NM 88130	4776	70100	ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG	PHY02	By rail from U.S. to CA
Abengoa Bioenergy Corporation - York	1414 Road O, York, NE 68467	4776	70099	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Abengoa Bioenergy of Nebraska	35955 Navaho Road, Ravenna, NE 68869	4097	70098	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Adecoagro Vale do Ivinhema Ltda	Estrada Continental, Km 15, Fazenda Takuaire, Angelica, Mato Grosso do Sul 79785-000 Brazil	4192	70496	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
AE Advanced Fuels Keyes, Inc.	4209 Jessup Road, Keyes, CA 95328	3566	70234	ETHC003	80.70	Corn Ethanol - California; Dry Mill; Wet DGS; NG	PHY01	Fuel produced in CA
Agri-Energy LLC	502 S. Walnut Avenue, Luverne, MN 56156	4824	70086	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Archer Daniels Midland Company - CLM Dry	3000 E. 8th Street Columbus NE 68601	4888	70355	ETHC014_1	90.99	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Coal use not to exceed 71% of fuel use (by energy); Coal carbon content not to exceed 48%	PHY02	By rail from U.S. to CA
				ETHC015_1	89.08	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 5% of the fuel use (by energy); Coal use not to exceed 66% of fuel use (by energy); Coal carbon content not to exceed 48%		
Archer Daniels Midland Company - CLM Dry	3000 E. 8th Street Columbus NE 68601	4888	70355	ETHC016_1	87.16	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 10% of the fuel use (by energy); Coal use not to exceed 60% of fuel use (by energy); Coal carbon content not to exceed 48%	PHY02	By rail from U.S. to CA
				ETHC017_1	85.24	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 15% of the fuel use (by energy); Coal use not to exceed 54% of fuel use (by energy); Coal carbon content not to exceed 48%		

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				ETHC018_2	87.11	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Coal use not to exceed 71% of fuel use (by energy); Coal carbon content not to exceed 48%		
Archer Daniels Midland Company - CLM Dry	3000 E. 8th Street Columbus NE 68601	4888	70355	ETHC019_1	87.86	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 5% of the fuel use (by energy); Coal use not to exceed 65% of fuel use (by energy); Coal carbon content not to exceed 48%	PHY02	By rail from U.S. to CA
				ETHC020_1	85.91	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 10% of the fuel use (by energy); Coal use not to exceed 59% of fuel use (by energy); Coal carbon content not to exceed 48%		
				ETHC021_1	83.96	2B Application*: Midwest; Dry Mill; Plant energy use not to exceed a value the applicant classifies as confidential; No grid electricity use; Biomass must be at least 15% of the fuel use (by energy); Coal use not to exceed 53% of fuel use (by energy); Coal carbon content not to exceed 48%		
Arkalon Ethanol	8664 Road P, PO Box 1007, Liberal, KS 67901	5715	70247	ETHC037	80.17	2B Application*: Midwest dry mill, wet DGS corn ethanol, NG, cogeneration	PHY02	By rail from U.S. to CA
				ETHG004	76.22	2B Application*: Midwest dry mill, wet DGS sorghum ethanol, NG, cogeneration		
Aventine Nebraska Energy	1205 S. O Road, Aurora, Nebraska 68818	4729	70019	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Beaver Biodiesel, LLC	5684 NW Metge Avenue, Albany, Oregon 97321-9355	3121	80020	BIOD004	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters-FAME) where "cooking" is required. Fuel produced in the Midwest	PHY08	By truck from U.S. to CA
Bently Biofuels Company	1350 Buckeye Road, Minden, Nevada 89423	5183	82972	BIOD005	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters-FAME) where "cooking" is not required. Fuel produced in the Midwest	PHY08	By truck from U.S. to CA
Biodiesel of Las Vegas	5233 E El Campo Grande Ave, N Las Vegas, NV 89115	5648	81267	BIOD004	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is required. Fuel produced in the Midwest	PHY08	By truck from U.S. to CA
Bio Etanol S.A., (Pantaleon Sugar Holdings)	Pantaleón farm, km. 86.5 road to Santa Lucia Cotzumalguapa, Siquinalá, Escuintla 05004, Guatemala	5834	71037	ETHM002	22.75	2B Application*: Guatemalan sugarcane molasses-based ethanol with average production processes and electricity co product credit	PHY09	By ocean tanker to California
Biofuel Energy- Buffalo Lake Energy	1125 Bixby Road Fairmont, MN 56031	5718	70248	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Biofuel Energy- Pioneer Trail Energy	7874 South 140th Road Wood River, NE 68883	5718	70249	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		

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Blue Sky Biofuels	851 49th Avenue, Oakland, California 94601	4881	82800	BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required	PHY01	Fuel produced in CA
Blue Sun St. Joe Refinery LLC	5701 Stockyards Expressway St. Joseph, MO 64504	5300	80059	BIOD005_1	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is not required. Fuel produced in the Midwest	PHY02	By rail from U.S. to CA
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
Bonanza BioEnergy, LLC	2810 E US HWY 50, Garden City, KS 67846	4054	70117	ETHC036	76.75	2B Application*: Midwest dry mill, wet DGS corn ethanol, NG, cogeneration	PHY02	By rail from U.S. to CA
				ETHG003	73.39	2B Application*: Midwest dry mill, wet DGS sorghum ethanol, NG, cogeneration		
BP Biofuels - Central Itumbiara de Bioenergia e Alimentos S/A	Estrada Municipal de Itumbiara a Cachoeira Dourada - Fazenda Jandaia, Itumbiara, Goias 75503-970, Brazil	4427	71007	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
BP Biofuels - Ituiutaba Bioenergia Ltda	Fazenda Recanto s/n - BR 365 km 752 Ituiutaba, Goias 38300-898 Brazil	4427	71006	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
BP Biofuels - Tropical Bioenergia S/A	Rodovia GO 410 - S/N Fazenda Canada - Zona Rural, Edeia, Goiás 75940-000 Brazil	4427	71078	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Bridgeport Ethanol	10106 S. Railroad Ave, Bridgeport, Nebraska 69336	5934	70217	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Bunge Acucar e Bioenergia LTDA - Usina Moema Acucar E Alcool Ltda	Fazenda Moema, s/nº - Zona Rural, Orindiúva, SP 15480-000 Brazil	3858	70386	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Bunge Acucar e Bioenergia LTDA - Usina Ouroeste Açúcar E Alcool Ltda	Rodovia Eliezer Montenegro Magalhães, Km.186, Zona Rural, Ouroeste, SP 16685-000 Brazil	3858	70483	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Calgren Renewable Fuels, LLC (Pixley Ethanol, LLC)	11704 Road 120, P.O. Box "E", Pixley, CA 93256	7354	70317	ETHC003	80.70	Corn Ethanol - California; Dry Mill; Wet DGS; NG	PHY01	Fuel produced in CA
Cargill Biodiesel	602 Industrial Rd, Iowa Falls, IA 50126	3683	82869	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
Cargill Biodiesel (Paseo Cargill Energy, LLC)	2334 Rochester Avenue, Kansas City, MO 64120	5763	83185	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA

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Cargill Incorporated - Blair NE	650 Industrial Park Road, PO Box 300, Blair, NE 68008	4036	70054	ETHC006	94.52	Corn Ethanol - Midwest; Wet Mill, NG	PHY02	By rail from U.S. to CA
Cargill Incorporated - Eddyville IA	1 Cargill Drive, Eddyville, IA 52553	4036	70029	ETHC005	105.10	Corn Ethanol - Midwest; Wet Mill; Wet DGS; 60% NG, 40% Coal	PHY02	By rail from U.S. to CA
Chippewa Valley Ethanol Company (CVEC)	270 20th St. NW, Benson, MN 56215	4804	70078	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Clean World Sacramento Biodigester	8550 Fruitridge Road Sacramento, CA 95826	L233**	C8550**	CNG005	-15.29	Biomethane produced from the high-solids (greater than 15 percent total solids) anaerobic digestion of food and green wastes; meets California	PHY01	Fuel produced in CA
Community Fuels Port of Stockton (American Biodiesel Inc.)	809 C Snedeker Ave., Stockton, CA 95203	4935	82728	BIOD002	15.84	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required	PHY01	Fuel produced in CA
				BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required		
				BIOD001	83.25	Biodiesel-Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)		
				BIOD006	62.99	Biodiesel - Pathways for conversion of North American Canola to biodiesel (fatty acid methyl esters -FAME)		
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
Cooperativa Agroindustrial Nova Produtiva	Estrada Vicinal, Jaguapitã Km 21, Astorga , Paraná, 86730000 Brazil	4142	70582	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Umoe Bioenergy II	Fazenda Taquarussu, Sandovalina, SP, 19250-000 Brazil	3702	70403	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Santa Adélia	Fazenda Santa Adélia, Jaboticabal, SP, 14.870-970 Brazil	3702	70404	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - Açucareira Quatá S.A.	Fazenda Quatá s/n, Quatá, SP, 19780-000 Brazil	3702	70406	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - COCAL II	Fazenda Genesis - Estrada Municipal Nandiba, 267, Nandiba, SP, 19220-000 Brazil	3702	70407	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Ferrari Agroindustrial S.A. - Açúcar e Alcool	Rod SP 215, Km 84, Pirassununga, SP, 13601-301 Brazil	3702	70435	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California

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Copersucar S.A. - Usina Batatais S.A. - Açúcar e Alcool	Rd. Cândido Potinari, Km 358, Batatais, SP, 14300-000 Brazil	3702	70408	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Usina Ipiranga de Açúcar e Alcool Ltda.	Fazenda Sta. Emilia s/n, Mococa, SP, 13730-000 Brazil	3702	70411	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Usina Barra Grande de Lençóis S.A.	Rod Marechal Rondon s/n, Km 289, Lençóis Paulista, SP, 18680-900 Brazil	3702	70412	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - Virgolino de Oliveira S.A. - Açúcar e Alcool	Fazenda Sto Antonio s/n, Ariranha, SP, 15860-000 Brazil	3702	70413	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Pedra Agroindustrial S.A.	Usina da Pedra s/n, Serrana, SP, 14150-000 Brazil	3702	70415	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - Virgolino de Oliveira S.A. - Açúcar e Alcool	Av. Comendador Virgolino de Oliveira, s/n, Itapira, SP, 13970-000 Brazil	3702	70422	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Usina Santa Adélia S.A.	Rod. SP 310, Km 643, Pereira Barreto, SP, 153370-000 Brazil	3702	70424	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Usina Santa Lucia	Fazenda Joaquims - Estrada Municipal, Araras, SP, 13600-970 Brazil	3702	70426	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Copersucar S.A. - Usina São José da Estiva S.A. - Açúcar e Alcool	Fazenda Tres Pontes, s/n, Novo Horizonte, SP, 14960-000 Brazil	3702	70431	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - Açúcareira Zillo Lorenzetti S.A.	Fazenda São José s/n, Macatuba, SP, 17290-000 Brazil	3702	70432	ETHS002	58.40	Sugarcane Ethanol - Brazilian sugarcane with average production process, mechanized harvesting and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
Copersucar S.A. - Usina Açúcareira São Manoel S.A.	Fazenda Boa Vista, s/n, São Manuel, SP, 18650-000 Brazil	3702	70434	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California

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Corn, LP	1303 Hwy 3 East, Goldfield, Iowa 50542	5065	70145	ETHC007	120.99	Corn Ethanol - Midwest; Wet Mill, 100% coal	PHY02	By rail from U.S. to CA
Cornhusker Energy Lexington, LLC	1111 East Industry Drive, PO Box 814, Lexington, NE 68850	7365	70241	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Crimson Renewable Energy Bakersfield Plant	17731 Millux Road, Bakersfield, CA 93311	4814	80174	BIOD001	83.25	Biodiesel-Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY01	Fuel produced in CA
				BIOD002	15.84	Biodiesel-Conversion of waste oil (Used Cooking Oil) to biodiesel (FAME) where "cooking" is required		
				BIOD003	11.76	Biodiesel-Conversion of waste oil (Used Cooking Oil) to biodiesel (FAME) where "cooking" is not required		
				BIOD004_1	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required. Fuel produced in the Midwest		
				BIOD005_1	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is not required. Fuel produced in the Midwest		
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
				BIOD009	34.11.	Biodiesel - Conversion of tallow to Biodiesel (FAME process); Feedstock originates in and production occurs in California; Cooking Required		
Dakota Ethanol	46269 SD Highway 34, Wentworth, South Dakota 57075	4810	70083	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
DENCO II, LLC	227 South County Road 22, Morris, MN 56267	3818	70082	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
E Energy Adams, LLC	13238 E Aspen Rd, Adams, NE 68301	4831	70093	ETHC067_1	86.31	2A Application*: Midwest dry mill 65% DDGS and 35% WDGS, natural gas	PHY02	By rail from U.S. to CA
Elkhorn Valley Ethanol LLC (Louis Dreyfus Commodities)	3002 N Victory Rd, Norfolk, Nebraska 68701	4833	70095	ETHC022	87.16	2A Application*: Midwest; Dry Mill; 15% Dry DGS, 85% Partially Dry DGS; NG; Plant energy use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG		
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Flint Hills Resources LP - Fairmont ¹	1214 Road G, Fairmont, Nebraska 68354-3054	4071	70103	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
				ETHC064_1	86.62	2A Application*: Midwest dry mill, 91% Dry DGS and 9% Modified DGS, natural gas		
Flint Hills Resources LP - Iowa Falls	21050 - 140th Street, Iowa Falls, IA 50441	4071	70628	ETHC039	91.56	2A Application*: Midwestern Dry Mill Corn Ethanol, MDGS and DDGS; NG	PHY02	By rail from U.S. to CA
Front Range Energy	31375 Great Western Dr., Windsor, Colorado 80550	4758	70058	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Glacial Lakes	13435 370th			ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		

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Glacial Lakes Aberdeen Energy (Mina)	Avenue, Mina, South Dakota 57451	4764	70299	ETHC061	87.66	2A Application*: Midwest; Dry Mill; 100% MDGS; NG	PHY02	By rail from U.S. to CA
				ETHC060	92.15	2A Application*: Midwest; Dry Mill; 100% DDGS; NG		
Glacial Lakes-Watertown	301 20th Avenue SE, Watertown, South Dakota 57201	4764	70064	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
				ETHC058	91.18	2A Application*: Midwest; Dry Mill; 100% DDGS; NG		
				ETHC059	86.69	2A Application*: Midwest; Dry Mill; 100% MDGS; NG		
Golden Grain Energy	1822 43rd Street SW, Mason City, Iowa 50401	4829	70691	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHC083	88.66	2A Application*: Midwest Dry Mill; Dry DGS; NG		
				ETHC084	82.23	2A Application*: Midwest Dry Mill; Modified DGS; NG		
Green Plains Atkinson LLC ²	87590 Hillcrest Road, Atkinson, Nebraska 68713	6100	70318	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Green Plains Central City LLC	214 20th Street, Central City, Nebraska 68826	3368	70141	ETHC023_1	82.17	2A Application*: Midwest; Dry Mill; Partially Dry DGS; NG; Plant energy use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
Green Plains Holdings II LLC - Lakota	1660 428th Street, Lakota, Iowa 50451	4755	70051	ETHC024	91.60	2A Application*: Midwest; Dry Mill; 75% Dry DGS, 25% Wet DGS; NG; Plant energy use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
Green Plains Ord LLC	48267 Val-E Road, Ord, Nebraska 68862	3360	70138	ETHC040_1	85.84	2A Application*: Midwest; Dry Mill; 63% Dry DGS, 37% Modified DGS; NG; Plant energy use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
Green Plains Otter Tail LLC	24096 170th Avenue, Fergus Falls, Minnesota 56537	4180	70110	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Green Plains Shenandoah LLC	4124 Airport Boulevard, Shenandoah, Iowa 51601	5073	70149	ETHC041_1	85.73	2A Application*: Midwest; Dry Mill; 76% Dry DGS, 24% Modified DGS; NG; Plant energy use not to exceed a value the applicant classified as confidential	PHY02	By rail from U.S. to CA
Green Plains Superior LLC	1495 320th Avenue, Superior, Iowa 51363	5851	70304	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Hankinson Renewable Energy LLC	9230 County Rd 1, Hankinson, ND 58041	5051	70288	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Heartland Corn	53331 State Hwy. 19, P.O. Box A, Winthrop, MN 55396	4827	70089	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Hereford Renewable Energy LLC	4300 County Road 8, Hereford, TX 79045	5051	70534	ETHC072_1	78.90	2A Application*: Ethanol from 99% Corn, 1% Sorghum (milo), Dry mill, 100% NG, 100% Wet DGS	PHY02	By rail from U.S. to CA
				ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG		
Heron Lake BioEnergy	91246 390th Avenue, Heron Lake, MN 56137-3175	4015	70097	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
High Plains Bioenergy	3300 NE 32nd St., Guymon, OK 73942	4846	82883	BIOD001	83.25	Biodiesel-Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
				BIOD005_1	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is not required. Fuel produced in the Midwest		
				BIOD006	62.99	Biodiesel -Conversion of North American Canola to biodiesel (fatty acid methyl esters - FAME)		

LCFS BIOFUEL PRODUCERS REGISTRATION LIST: PHYSICAL PATHWAY APPROVED

(Updated February 6, 2014)

FACILITY NAME	FACILITY ADDRESS	COMPANY ID	FACILITY ID	FUEL PATHWAY CODE	CARBON INTENSITY (CI) VALUE (gCO ₂ e/MJ)	FUEL PATHWAY DESCRIPTION	PHYSICAL PATHWAY CODE	PHYSICAL PATHWAY DESCRIPTION
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
Husker AG LLC	54048 Hwy 20, Plainview, Nebraska 68769	5078	70151	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Imperial Western Products	86600 Avenue 54, Coachella, California 92236	9871	81066	BIOD002	15.84	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is required	PHY01	Fuel produced in CA
				BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is not required		
				BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)		
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
Imperium Grays Harbor LLC	3122 Port Industrial Road, Hoquiam, WA 98550	5668	82954	BIOD006	62.99	Biodiesel - Pathways for conversion of North American Canola to biodiesel (fatty acid methyl esters-FAME)	PHY02	By rail from U.S. to CA
Kaapa Ethanol	8450 Kaapa Lane, Minden, Nebraska 68959	4805	70079	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC038_1	78.56	2A Application*: Midwestern Dry, Mill Corn Ethanol, WDGS, NG		
Kansas Ethanol, LLC	1630 Avenue Q, Lyons, Kansas 67554	5810	70279	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG		
				ETHG001	96.24	Sorghum Ethanol: Midwest; Dry Mill, Dry DGS, 100% NG		
Kern Oil & Refining Co.	7724 East Panama Ln., Bakersfield, CA 93307	5038	80105	RNWD003	19.65	Renewable Diesel - Conversion of tallow to renewable diesel using lower energy use for rendering	PHY01	Fuel produced in CA
Little Sioux Corn Processors LLP	4808 F Avenue, Marcus, IA 51035	4728	70015	ETHC081	89.09	2A Application*: Midwest; Dry Mill; Dry DGS; NG	PHY02	By rail from U.S. to CA
				ETHC082	82.36	2A Application*: Midwest; Dry Mill; Modified DGS; NG		
Louis Dreyfus Commodities Grand Junction LLC	1149 U Avenue, Grand Junction, Iowa 50107	3137	70139	ETHC042	91.24	2A Application*: Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Mid America Agri Products/Wheatland LLC	76080 Road 338, Madrid, NE 69150	5095	70153	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Mid Missouri Energy	15311 N. Saline 65 Hwy, Malta Bend, Missouri 65339	4807	70081	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Midwest Renewable Energy	27532 West Hwy 30, Sutherland, NE 69165	5214	70160	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Minnesota Soybean Processors	121 Zeh Avenue, Box 100, Brewster, MN 56119	4527	82170	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
Nebraska Corn Processing, LLC	107 Potter Street, Cambridge, Nebraska 69022	3516	70230	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC080	83.64	2A Application*: Midwest; Dry Mill; Wet DGS; NG		

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Neste Oil Singapore Pte Ltd	1 Tuas South Lane, Singapore 637301	4137	80327	RNWD004	33.46	2B Application*: Australian Rendered Tallow to Renewable Diesel. Fuel Production in Singapore	PHY09	By ocean tanker to California
New Leaf Biofuel, LLC	2285 Newton Ave. San Diego, CA 92113	7768	83541	BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required	PHY01	Fuel produced in CA
Nicaragua Sugar Estates Limited (NSEL) – Ingenio San Antonio	Del porton de Chichigalpa, 5 km al sur, Chichigalpa, Chinandega, Nicaragua	5897	71040	ETHM003	21.47	2B Application*: Nicaraguan sugarcane by-product molasses based ethanol with average production processes and electricity co-product credit	PHY09	By ocean tanker to California
				ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit		
NG Bioenergia S/A - Unidade Potirendaba	Estrada Municipal Ibirá a Potirendaba, S/N KM 6.7 Zona Rural Potirendaba – SP 15105-000 Brazil	5826	71036	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Noble Brasil S.A. - Unidade Meridiano	Fazenda Buriti S/N Zona Rural – Meridiano – SP 15625-000 Brazil	4232	70528	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Noble Brasil S.A. – Sebastianopolis do Sul	Estrada Vicinal STS 050 Antonio Abreu do Valle, km 10, Zona Rural, Sebastianopolis do Sul – SP 15180-000 Brazil	4232	70527	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
North Star Biofuels LLC	860 W. Beach St., Watsonville, CA 95076	6046	81472	BIOD007_1	4.00	Biodiesel- Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel	PHY01	Fuel produced in CA
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
NuGen Energy, LLC	27283 447th Ave, P.O. Box 238, Marion, SD 57043	3332	70195	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Pacific Ethanol Madera	31470 Avenue 12, Madera, CA 93638	3697	70061	ETHC003	80.70	Corn Ethanol - California; Dry Mill; Wet DGS; NG	PHY01	Fuel produced in CA
Pacific Ethanol Magic Valley, LLC	2600 Washington Ave Burley, ID 83318	3697	70291	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Pacific Ethanol Stockton	3028 Navy Drive, Stockton, CA 95206	3697	70319	ETHC003	80.70	Corn Ethanol - California; Dry Mill; Wet DGS; NG	PHY01	Fuel produced in CA
Plainview BioEnergy, LLC (White Energy)	2698 East Highway 70, Plainview, TX 79072	4745	70039	ETHGC013	88.74	2A Application*: Midwest dry mill; 1% Sorghum, 99% Corn, Wet DGS	PHY02	By rail from U.S. to CA
				ETHGC014	91.04	2A Application*: Midwest dry mill; 1% Sorghum, 99% Corn, Partially Dry DGS		
				ETHGC015	97.04	2A Application*: Midwest dry mill; 1% Sorghum, 99% Corn, Dry DGS		
				ETHGC016	89.62	2A Application*: Midwest dry mill; 10% Sorghum, 90% Corn, Wet DGS		
				ETHGC017	91.92	2A Application*: Midwest dry mill; 10% Sorghum, 90% Corn, Partially Dry DGS		
				ETHGC018	97.92	2A Application*: Midwest dry mill; 10% Sorghum, 90% Corn, Dry DGS		
				ETHGC019	90.60	2A Application*: Midwest dry mill; 20% Sorghum, 80% Corn, Wet DGS		

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Plainview BioEnergy, LLC (White Energy)	2698 East Highway 70, Plainview, TX 79072	4745	70039	ETHGC020	92.90	2A Application*: Midwest dry mill; 20% Sorghum, 80% Corn, Partially Dry DGS	PHY02	By rail from U.S. to CA
				ETHGC021	98.90	2A Application*: Midwest dry mill; 20% Sorghum, 80% Corn, Dry DGS		
				ETHGC022	91.59	2A Application*: Midwest dry mill; 30% Sorghum, 70% Corn, Wet DGS		
				ETHGC023	93.89	2A Application*: Midwest dry mill; 30% Sorghum, 70% Corn, Partially Dry DGS		
				ETHGC024	99.89	2A Application*: Midwest dry mill; 30% Sorghum, 70% Corn, Dry DGS		
				ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG		
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
Plymouth Energy	22234 K42, Merrill, Iowa 51038	5474	70183	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
POET Biorefining - Ashton	4970 260th Street, Ashton, Iowa 51232	4782	70032	ETHC032_1	80.01	2A Application* : Dry Mill; Wet DGS; Raw starch hydrolysis/ combined heat and power; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC026	88.49	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis/ combined heat and power; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Big Stone City	48416 144th Street, Big Stone City, South Dakota 57216	4736	70025	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
POET Biorefining - Bingham Lake	40212 - 510th Avenue, Bingham Lake, Minnesota 56118	4780	70026	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
POET Biorefining - Chancellor	27716 462nd Avenue, Chancellor, South Dakota 57015	4727	70012	ETHC011	86.80	Corn Ethanol - Midwest; Dry Mill; Wet DGS; 80% NG; 20% Biomass	PHY02	By rail from U.S. to CA
				ETHC027	88.50	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis/biomass & landfill gas fuels; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Coon Rapids	1015 Grant Avenue, Coon Rapids, Iowa 50058	4783	70031	ETHC033_1	80.26	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis/ corn fractionation; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC028_1	91.66	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis/ corn fractionation; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Coon Rapids	1015 Grant Avenue, Coon Rapids, Iowa 50058	4783	70031	ETHC031_1	83.69	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC025_1	92.44	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		

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POET Biorefining - Corning	1680 Brooks Road, Corning, Iowa 50841	5046	70143	ETHC031_1	83.69	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC025_1	92.44	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Emmetsburg	4724 380th Street, Emmetsburg, Iowa 50536	4792	70021	ETHC069	81.41	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC068	89.76	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Gowrie	1562 320th Street, Gowrie, Iowa 50543	4784	70033	ETHC069	81.41	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC068	89.76	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Groton	40425 133rd Street, Groton, South Dakota 57445	4793	70013	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
				ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG		
POET Biorefining - Hanlontown	3638 Fir Avenue, Hanlontown, Iowa 50444	4785	70010	ETHC031_1	83.69	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC025_1	92.44	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Hudson	29619 Spur Ave., PO Box 439, Hudson, South Dakota 57034	4791	70022	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHC025_1	92.44	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Jewell	2601 -320th Street, Jewell, Iowa 50130	4786	70014	ETHC069	81.41	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC068	89.76	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		

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POET Biorefining - Lake Crystal	19200 499th Avenue, Lake Crystal, Minnesota 56055	4794	70072	ETHC069	81.41	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential	PHY02	By rail from U.S. to CA
				ETHC068	89.76	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Biorefining - Mitchell	40509 247th Street, Mitchell, South Dakota 57301	4789	70016	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHC031_1	83.69	2A Application*: Dry Mill; Wet DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
				ETHC025_1	92.44	2A Application*: Dry Mill; Dry DGS; Raw starch hydrolysis; Amount and type of fuel use, and amount of grid electricity use not to exceed a value the applicant classifies as confidential		
POET Research Center	851 Washington St, Scotland, South Dakota 57059	4726	70011	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Prairie Horizon Agri-Energy	1664 E 100 Road, Phillipsburg, Kansas 67661	4760	70659	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG		
				ETHG001	96.24	Sorghum Ethanol: Midwest; Dry Mill, Dry DGS, 100% NG		
Promethean Biofuels Production, Research, and Development Laboratory	27635 Diaz Road, Temecula, CA 92590	7514	80372	BIOD002	15.84	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required	PHY01	Fuel produced in California
Quad County Corn Processors	6059 159th Street, Galva, Iowa 51020	4770	70065	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Raizen Energia S/A - Barra	Fazenda Pau D'Alho s/n, Barra Bonita, SP 17340000, Brazil	3805	70210	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California
Raizen Energia S/A - Bonfim	Rodovia Brigadeiro Faria Lima, Km 322 Zona Rural Guariba, SP, 14840-000 Brazil	3805	70548	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California
Raizen Energia S/A - Costa Pinto	Bairro Costa Pinto s/nº - Costa Pinto Piracicaba, SP, 13411-900 Brazil	3805	70552	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California

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Raízen Energia S/A. - Gasa	Rodovia de Acesso UHE Três irmãos - Km 3,5 Andradina, SP, 16900-970 Brazil	3805	70551	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California
Raízen Energia S/A. - Rafard	Rua do Engenho, s/nº - Centro Rafard, SP 13370-000 Brazil	3805	70557	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California
Raízen Energia S/A - Serra	Fazenda da Serra Ibaté, SP, 14815-000 Brazil	3805	70559	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By Ocean Tanker from Brazil through the Panama Canal to a Port in California
Redfield Energy, LLC	38650 171st Street Redfield, SD 57469	4061	70111	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
REG Albert Lea, LLC	15200 780th Avenue Albert Lea, MN 56007	4305	82613	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
				BIOD004_1	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is required. Fuel produced in the Midwest		
				BIOD007_1	4.00	Biodiesel- Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
REG Newton, LLC	3426 E 28th St. N, Newton, IA 50208	3514	80162	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
				BIOD004_1	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required. Fuel produced in the Midwest		
				BIOD007_1	4.00	Biodiesel- Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
REG Ralston, LLC	406-1st Street, Ralston, IA 51459	4985	82614	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
REG Seneca, LLC	614 Shipyard Road, Seneca, Illinois 61360	3652	80232	BIOD004_1	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required. Fuel produced in the Midwest	PHY02	By rail from U.S. to CA
				BIOD007_1	4.00	Biodiesel- Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		

LCFS BIOFUEL PRODUCERS REGISTRATION LIST: PHYSICAL PATHWAY APPROVED

(Updated February 6, 2014)

FACILITY NAME	FACILITY ADDRESS	COMPANY ID	FACILITY ID	FUEL PATHWAY CODE	CARBON INTENSITY (CI) VALUE (gCO ₂ e/MJ)	FUEL PATHWAY DESCRIPTION	PHYSICAL PATHWAY CODE	PHYSICAL PATHWAY DESCRIPTION
Sanimax Energy Inc.	605 Bassett St., DeForest, WI 53532	4845	82900	BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel	PHY02	By rail from U.S. to CA
Santa Cruz S/A Açúcar e Alcool	Rodovia SP 255, km 70 - Zona Rural, Americo Brasiliense, SP, 14820-000 Brazil	4161	70484	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Sequential-Pacific Biodiesel	4735 Turner Road SE, Salem, Oregon 97317	7755	83525	BIOD005_1	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required. Fuel produced in the Midwest	PHY08	By truck from U.S. to CA
Simple Fuels Biodiesel	93232 Hwy 70,	3717	80207	BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required	PHY01	Fuel produced in California
Siouxland Energy and Livestock Cooperative	3890 Garfield Ave., Sioux City, IA 51250	4060	70112	ETHC066_1	80.78	2A Application*: Midwest Dry Mill, Wet DGS, Natural Gas	PHY02	By rail from U.S. to CA
Siouxland Ethanol, LLC	1501 Knox Blvd., Jackson, Nebraska 68743	5026	70134	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
				ETHC043	88.14	2A Application*: Midwest, Dry Mill, Dry DGS, Natural Gas		
				ETHC044	85.91	2A Application*: Midwest, Dry-Mill, Dry DGS, Natural Gas, 6% Landfill Gas		
				ETHC045	85.16	2A Application*: Midwest, Dry-Mill, dry DGS, Natural Gas, 8% Landfill Gas		
				ETHC046	84.41	2A Application*: Midwest, Dry-Mill, Dry DGS, Natural Gas, 10% Landfill Gas		
				ETHC047	83.74	2A Application*: Midwest, Dry-Mill, dry DGS, Natural Gas, 12% Landfill Gas		
				ETHC048	83.06	2A Application*: Midwest, Dry-Mill, Dry DGS, Natural Gas, 14% Landfill Gas		
				ETHC049	82.38	2A Application*: Midwest, Dry-Mill, Dry DGS, Natural Gas, 16% Landfill Gas		
				ETHC050	83.64	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas		
Siouxland Ethanol, LLC	1501 Knox Blvd., Jackson, Nebraska 68743	5026	70134	ETHC051	81.41	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 8% Landfill Gas	PHY02	By rail from U.S. to CA
				ETHC052	80.66	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 10% Landfill Gas		
				ETHC053	79.91	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 13% Landfill Gas		
				ETHC054	79.23	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 15% Landfill Gas		
				ETHC055	78.56	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 18% Landfill Gas		
				ETHC056	77.88	2A Application*: Midwest, Dry-Mill, Modified DGS, Natural Gas, 20% Landfill Gas		

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Sterling Ethanol	450 Angus Ave, Sterling, Colorado 80751	4766	70660	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
Tharaldson Ethanol Plant I LLC	3549 153rd Ave, SE, Casselton, North Dakota 58012	3084	70036	ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG	PHY02	By rail from U.S. to CA
Trenton Agri Products	36638 US Highway 34, Trenton, Nebraska 69044	4754	70053	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHC070	88.39	2A Application*: Midwest; Dry Mill; Dry DGS, NG		
				ETHC071	79.99	2A Application*: Midwest; Dry Mill; Wet DGS, NG		
				ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG		
US Energy Partners, LLC (White Energy, Russell)	1030 East 15th Street, Russell, Kansas 67665	4745	70038	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHGW001	69.36	2A Application*: Midwest dry mill; 15% wheat slurry, sorghum, corn; NG; wet DGS		
				ETHGW002	77.66	2A Application*: Midwest dry mill; 15% wheat slurry, sorghum, corn; NG; dry DGS		
				ETHGW003	71.66	2A Application*: Midwest dry mill; 15% wheat slurry, sorghum, corn; NG; modified DGS		
				ETHGW004	66.16	2A Application*: Midwest dry mill; 20% wheat slurry, sorghum, corn; NG; wet DGS		
				ETHGW005	74.46	2A Application*: Midwest dry mill; 20% wheat slurry, sorghum, corn; NG; dry DGS		
				ETHGW006	68.46	2A Application*: Midwest dry mill; 20% wheat slurry, sorghum, corn; NG; modified DGS		
US Energy Partners, LLC (White Energy, Russell)	1030 East 15th Street, Russell, Kansas 67665	4745	70038	ETHGW007	62.96	2A Application*: Midwest dry mill; 25% wheat slurry, sorghum, corn; NG; wet DGS	PHY02	By rail from U.S. to CA
				ETHGW008	71.26	2A Application*: Midwest dry mill; 25% wheat slurry, sorghum, corn; NG; dry DGS		
				ETHGW009	65.26	2A Application*: Midwest dry mill; 25% wheat slurry, sorghum, corn; NG; modified DGS		
				ETHGW010	59.76	2A Application*: Midwest dry mill; 30% wheat slurry, sorghum, corn; NG; wet DGS		
				ETHGW011	68.06	2A Application*: Midwest dry mill; 30% wheat slurry, sorghum, corn; NG; dry DGS		
				ETHGW012	62.06	2A Application*: Midwest dry mill; 30% wheat slurry, sorghum, corn; NG; modified DGS		
				ETHGW013	56.56	2A Application*: Midwest dry mill; 35% wheat slurry, sorghum, corn; NG; wet DGS		
				ETHGW014	64.86	2A Application*: Midwest dry mill; 35% wheat slurry, sorghum, corn; NG; dry DGS		
Usina de Açúcar Santa Terezinha Ltda. Ivaté	Rodovia PR-082 KM-08 Ivaté, PR, 87525-000 Brazil	3921	71030	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California

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Usina de Açúcar Santa Terezinha Ltda. -Tapejara	Rodovia PR 323, KM 258, Tapejara, PR ,87430000 Brazil	3921	70464	ETHS003	66.40	Sugarcane Ethanol - Brazilian sugarcane with average production process and electricity co-product credit	PHY13	By ocean tanker from Brazil through the Panama Canal to a port in California
Usina São Martinho S.A.	Fazenda São Martinho, s/n Pradópolis, SP, 14850-000 Brazil	3867	70373	ETHS001	73.40	Sugarcane Ethanol - Brazilian sugarcane using average production processes	PHY13	By ocean tanker from Brazil through the Panama Canal
USL Parallel Products of California	12281 Arrow Route, Rancho Cucamonga, California 91739	4018	70122	ETHWB001	71.40	2B Application*: Waste Beverages to Ethanol	PHY01	Fuel produced in CA
Valero Renewable Fuels LLC - Albert City	2356 510th Street Albert City, Iowa 50510	3201	70142	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS; NG		
Valero Renewable Fuels LLC - Albion	2615 260th Street Albion, Nebraska 68620	3201	70283	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS; NG		
Vitol - Gasohol De El Salvador	Avenida San Martin Y Calle Octava Calle Oriente 4, 7 Santa Tecla, La Libertad Sv, El Salvador	3052	EBC01**	ETHS007	79.11	2B Application*: Brazilian sugarcane using average production process, dehydrated under the CBI in El Salvador	PHY11	By ocean tanker from Brazil to Caribbean Islands, and by ocean tanker from Caribbean Islands to California – then by pipelines from the port in California into storage tanks in California
				ETHS008	64.11	2B Application*: Brazilian sugarcane using average production process, with mechanized harvesting and electricity co-product credit, dehydrated under the CBI in El Salvador		
				ETHS009	72.11	2B Application*: Brazilian sugarcane using average production process, with electricity co-product credit, dehydrated under the CBI in El Salvador		
Washakie Renewable Energy	7950 W 24000 N, Plymouth, Utah 84330	3229	80056	BIOD001	83.25	Biodiesel - Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02 PHY08	By rail from U.S. to CA By truck from U.S. to CA
				BIOD004_1	18.72	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is required. Fuel produced in the Midwest		
				BIOD006	62.99	Biodiesel -Conversion of North American Canola to biodiesel (fatty acid methyl esters - FAME)		
				BIOD007_1	4.00	Biodiesel -Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to Biodiesel (FAME process); Feedstock originates in and production occurs in the United States; Cooking Required.		
				ETHGC001	84.79	2A Application*:Midwest dry mill; 1% Sorghum, 99% Corn, Wet DGS		
				ETHGC002	87.09	2A Application*:Midwest dry mill; 1% Sorghum, 99% Corn, Partially Dry DGS		
				ETHGC003	93.09	2A Application*:Midwest dry mill; 1% Sorghum, 99% Corn, Dry DGS		
				ETHGC004	85.46	2A Application*:Midwest dry mill; 10% Sorghum, 90% Corn, Wet DGS		
				ETHGC005	87.76	2A Application*:Midwest dry mill; 10% Sorghum, 90% Corn, Partially Dry DGS		
				ETHGC006	93.76	2A Application*:Midwest dry mill; 10% Sorghum, 90% Corn, Dry DGS		
				ETHGC007	86.19	2A Application*:Midwest dry mill; 20% Sorghum, 80% Corn, Wet DGS		
				ETHGC008	88.49	2A Application*:Midwest dry mill; 20% Sorghum, 80% Corn, Partially Dry DGS		

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WE Hereford, LLC	3748 S. Progressive Road, Hereford, TX 79045	4745	70037	ETHGC009	94.49	2A Application*:Midwest dry mill; 20% Sorghum, 80% Corn, Dry DGS	PHY02	By rail from U.S. to CA
				ETHGC010	86.93	2A Application*:Midwest dry mill; 30% Sorghum, 70% Corn, Wet DGS		
				ETHGC011	89.23	2A Application*:Midwest dry mill; 30% Sorghum, 70% Corn, Partially Dry DGS		
				ETHGC012	95.23	2A Application*:Midwest dry mill; 30% Sorghum, 70% Corn, Dry DGS		
				ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG		
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHG002	85.81	Sorghum Ethanol- Midwest; Dry Mill; Wet DGS; NG (sorghum)		
				ETHG008	78.76	2A Application*: Texas sorghum; Dry Mill; Wet DGS; NG		
				ETHG009	82.60	2A Application*: Texas sorghum; Dry Mill; Modified DGS; NG		
				ETHC078	79.51	2A Application*: Texas; Dry Mill; Wet DGS; NG		
ETHC079	83.35	2A Application*: Texas; Dry Mill; Modified DGS; NG						
Western Iowa Energy LLC	1220 S. Center St. , Box 399, Wall Lake, Iowa 51466	4670	82630	BIOD001	83.25	Biodiesel-Conversion of Midwest soybeans to biodiesel (fatty acid methyl esters - FAME)	PHY02	By rail from U.S. to CA
				BIOD005_1	13.83	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters - FAME) where "cooking" is not required. Fuel produced in the Midwest		
				BIOD006	62.99	Biodiesel -Conversion of North American Canola to biodiesel (fatty acid methyl esters - FAME)		
				BIOD007_1	4.00	Biodiesel - Conversion of corn oil, extracted from distillers grains prior to the drying process, to biodiesel		
				BIOD008	40.18	Biodiesel - Conversion of mixed tallow to biodiesel (FAME process); feedstock originates in and production occurs in the United States; cooking required		
Western Plains Energy	3022 County Road 18, Oakley, Kansas 67748	4740	70030	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA
				ETHC004	98.40	Corn Ethanol - Midwest; Dry Mill; Dry DGS, NG		
				ETHG002	85.81	Sorghum Ethanol: Midwest; Dry Mill, Wet DGS, 100% NG		
				ETHG001	96.24	Sorghum Ethanol: Midwest; Dry Mill, Dry DGS, 100% NG		
Yokayo Biofuels, Inc	350 Orr Springs Rd Ukiah, CA 95482	4667	82626	BIOD003	11.76	Biodiesel - Conversion of waste oils (Used Cooking Oil) to biodiesel (fatty acid methyl esters -FAME) where "cooking" is not required	PHY01	Fuel produced in CA
Yuma Ethanol	38480 County Road H, Yuma, Colorado 80759	4735	70024	ETHC008	90.10	Corn Ethanol - Midwest; Dry Mill; Wet DGS; NG	PHY02	By rail from U.S. to CA

^[1] Flint Hills Resources, LP acquired the Advanced Bioenergy (ABE) Fairmont facility on December 7, 2012.

² Green Plains Atkinson LLC acquired the Nedak Ethanol LLC facility from Advanced Bioenergy (ABE) on June 14, 2013.

* Specific conditions apply

** This is a temporary ID number used by ARB for LCFS reporting purposes.