

FAF 5 Assignment Flow Tables Data Dictionary

This document describes the files and data attributes included in the FAF 5 Assignment Flow tables data package. This data package includes files with results from FAF5 2017, 2022, 2030, and 2050 baseline assignments to represent freight flows by three separate truck flows type (Total Truck, Single Unit, and Combination Unit) and three freight flow markets (domestic, import and export). Each model year contains six data tables representing the truck flows. Each data table can be linked to the network geography to display truck flows by link.

- “Domestic” represents freight movements by trucks from the U.S. domestic origins to the U.S. domestic destinations.
- “Import” represents freight movements by trucks from the foreign origins to the U.S. domestic destinations.
- “Export” represents freight movements by trucks from the U.S. domestic origins to the foreign destinations.
- “Total Flows” is the sum of domestic, imports and exports.
- “Single Unit or SU” represents all single unit truck type movements. They include trucks classified as Class 5, Class 6, and Class 7 under FHWA 13 vehicle classification.
- “Combination Unit or CU” represents all combination unit truck type movements. They include trucks classified as Class 8 to Class 13 under FHWA 13 vehicle classification
- “All Trucks” represents sum of SU and CU.

The table below describes the contents in each of these six tables and the types of truck flow that are included.

Data Table File Name	Description
FAF5 Domestic Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by trucks for domestic freight. Flow details includes domestic freight flow by twelve different commodity groups.
FAF5 Export Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by trucks for exported freight. Flow details includes export freight flow by twelve different commodity groups.
FAF5 Import Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by trucks for imported freight. Flow details includes import freight flow by twelve different commodity groups.
FAF5 Total CU Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by combination unit trucks. Flow details includes total freight flow by twelve different commodity groups.
FAF5 Total SU Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by single unit trucks. Flow details includes total freight flow by twelve different commodity groups.
FAF5 Total Truck Flows by Commodity_{Year}	Includes estimated FAF truck volumes and commodity tonnage transported by all trucks. Flow details includes total freight flow by twelve different commodity groups.

The data fields are similar within each of the six assignment flow tables. The table below describes the fields in each of the FAF 5 flow tables. Note that all tons are in annual thousands of units and all trips are daily total truck trips. The “{year}” descriptor in the Flow Table Field column represents the forecast year (17, 22, 30, 50Base) and the “{type}” descriptor represents the truck flow type (SU, CU, All, Imp (Import), Exp (Export) or Dom (Domestic)).

Flow Table Field	Description
ID	Link ID used to join to FAF 5 Model network ID field
AB Tons_{year} {type}	Annual Truck KTons Flow in the AB Topology Direction, All commodities
BA Tons_{year} {type}	Annual Truck KTons Flow in the BA Topology Direction, All commodities
AB Trips_{year} {type}	Daily Truck Trips Flow in the AB Topology Direction, All commodities
BA Trips_{year} {type}	Daily Truck Trips Flow in the BA Topology Direction, All commodities
TOT Tons_{year} {type}	Annual Truck KTons Flow in the Both Directions, All commodities
TOT Trips_{year} {type}	Daily Truck Trips Flow in the Both Directions, All commodities
AB Farm Products-Tons_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Annual Truck KTons Flow in the AB Topology Direction
BA Farm Products-Tons_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Annual Truck KTons Flow in the BA Topology Direction
AB Farm Products-Trips_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Daily Truck Trips Flow in the AB Topology Direction
BA Farm Products-Trips_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Daily Truck Trips Flow in the BA Topology Direction
TOT Farm Products-Tons_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Annual Truck KTons Flow in Both Directions
TOT Farm Products-Trips_{year} {type}	Live animals/fish (SCTG01), Cereal grains (SCTG02), Other ag prods (SCTG03), Animal feed (SCTG04), and Meat/seafood (SCTG05) Daily Truck Trips Flow in Both Directions
AB Food, Bev and Tobacco-Tons_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Annual Truck KTons Flow in the AB Topology Direction
BA Food, Bev and Tobacco-Tons_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Annual Truck KTons Flow in the BA Topology Direction

Flow Table Field	Description
AB Food, Bev and Tobacco-Trips_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Daily Truck Trips Flow in the AB Topology Direction
BA Food, Bev and Tobacco-Trips_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Daily Truck Trips Flow in the BA Topology Direction
TOT Food, Bev and Tobacco-Tons_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Annual Truck Ktons Flow in Both Directions
TOT Food, Bev and Tobacco-Trips_{year} {type}	Milled grain prods (SCTG06), Other foodstuffs (SCTG07), Alcoholic beverages (SCTG08), Tobacco prod (SCTG09) Daily Truck Trips Flow in Both Directions
AB Stone Sand Gravel & Ores-Tons_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Annual Truck Ktons Flow in the AB Topology Direction
BA Stone Sand Gravel & Ores-Tons_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Annual Truck Ktons Flow in the BA Topology Direction
AB Stone Sand Gravel & Ores-Trips_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Daily Truck Trips Flow in the AB Topology Direction
BA Stone Sand Gravel & Ores-Trips_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Daily Truck Trips Flow in the BA Topology Direction
TOT Stone Sand Gravel & Ores-Tons_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Annual Truck Ktons Flow in Both Directions
TOT Stone Sand Gravel & Ores-Trips_{year} {type}	Building stone (SCTG10), Natural sands (SCTG11), Gravel (SCTG12), Nonmetallic minerals (SCTG13), Metallic ores (SCTG14), Coal (SCTG15) Daily Truck Trips Flow in Both Directions
AB Liquid and Gases-Tons_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Annual Truck Ktons Flow in the AB Topology Direction
BA Liquid and Gases-Tons_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Annual Truck Ktons Flow in the BA Topology Direction
AB Liquid and Gases-Trips_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Daily Truck Trips Flow in the AB Topology Direction

Flow Table Field	Description
BA Liquid and Gases-Trips_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Daily Truck Trips Flow in the BA Topology Direction
TOT Liquid and Gases-Tons_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Annual Truck Ktons Flow in Both Directions
TOT Liquid and Gases-Trips_{year} {type}	Crude petroleum (SCTG16), Gasoline (SCTG17), Fuel oils (SCTG18), Coal-nec (SCTG19) Daily Truck Trips Flow in Both Directions
AB Chemicals-Tons_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Annual Truck Ktons Flow in the AB Topology Direction
BA Chemicals-Tons_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Annual Truck Ktons Flow in the BA Topology Direction
AB Chemicals-Trips_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Daily Truck Trips Flow in the AB Topology Direction
BA Chemicals-Trips_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Daily Truck Trips Flow in the BA Topology Direction
TOT Chemicals-Tons_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Annual Truck Ktons Flow in Both Directions
TOT Chemicals-Trips_{year} {type}	Basic chemicals (SCTG20), Pharmaceuticals (SCTG21), Fertilizers (SCTG22) Daily Truck Trips Flow in Both Directions
AB Logs & Oth Wood Prods-Tons_{year} {type}	Logs (SCTG25) Annual Truck Ktons Flow in the AB Topology Direction
BA Logs & Oth Wood Prods-Tons_{year} {type}	Logs (SCTG25) Annual Truck Ktons Flow in the BA Topology Direction
AB Logs & Oth Wood Prods-Trips_{year} {type}	Logs (SCTG25) Daily Truck Trips Flow in the AB Topology Direction
BA Logs & Oth Wood Prods-Trips_{year} {type}	Logs (SCTG25) Daily Truck Trips Flow in the BA Topology Direction
TOT Logs & Oth Wood Prod - Tons_{year} {type}	Logs (SCTG25) Annual Truck Ktons Flow in Both Directions
TOT Logs & Oth Wood Prods-Trips_{year} {type}	Logs (SCTG25) Daily Truck Trips Flow in Both Directions
AB Waste and Scrap-Tons_{year} {type}	Waste/scrap (SCTG41) Annual Truck Ktons Flow in the AB Topology Direction
BA Waste and Scrap-Tons_{year} {type}	Waste/scrap (SCTG41) Annual Truck Ktons Flow in the BA Topology Direction
AB Waste and Scrap-Trips_{year} {type}	Waste/scrap (SCTG41) Daily Truck Trips Flow in the AB Topology Direction

Flow Table Field	Description
BA Waste and Scrap-Trips_{year} {type}	Waste/scrap (SCTG41) Daily Truck Trips Flow in the BA Topology Direction
TOT Waste and Scrap-Tons_{year} {type}	Waste/scrap (SCTG41) Annual Truck Ktons Flow in Both Directions
TOT Waste and Scrap-Trips_{year} {type}	Waste/scrap (SCTG41) Daily Truck Trips Flow in Both Directions
AB Consumer Manuf-Tons_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Annual Truck Ktons Flow in the AB Topology Direction
BA Consumer Manuf-Tons_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Annual Truck Ktons Flow in the BA Topology Direction
AB Consumer Manuf-Trips_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Daily Truck Trips Flow in the AB Topology Direction
BA Consumer Manuf-Trips_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Daily Truck Trips Flow in the BA Topology Direction
TOT Consumer Manuf-Tons_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Annual Truck Ktons Flow in Both Directions
TOT Consumer Manuf-Trips_{year} {type}	Chemical prods (SCTG23), Plastics/rubber (SCTG24), Wood prods (SCTG26), Newsprint/paper (SCTG27), Paper articles (SCTG28), Printed prods (SCTG29), Textiles/leather (SCTG30) Daily Truck Trips Flow in Both Directions
AB Durable Manuf (low tech)-Tons_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Annual Truck Ktons Flow in the AB Topology Direction
BA Durable Manuf (low tech)-Tons_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Annual Truck Ktons Flow in the BA Topology Direction
AB Durable Manuf (low tech)-Trips_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Daily Truck Trips Flow in the AB Topology Direction

Flow Table Field	Description
BA Durable Manuf (low tech)-Trips_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Daily Truck Trips Flow in the BA Topology Direction
TOT Durable Manuf (low tech)-Tons_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Annual Truck Ktons Flow in Both Directions
TOT Durable Manuf (low tech)-Trips_{year} {type}	Nonmetal min prods (SCTG31), Base metals (SCTG32), Articles-base metal (SCTG33), Machinery (SCTG34), Furniture (SCTG39) Daily Truck Trips Flow in Both Directions
AB Durable Manuf (high tech)-Tons_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Annual Truck Ktons Flow in the AB Topology Direction
BA Durable Manuf (high tech)-Tons_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Annual Truck Ktons Flow in the BA Topology Direction
AB Durable Manuf (high tech)-Trips_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Daily Truck Trips Flow in the AB Topology Direction
BA Durable Manuf (high tech)-Trips_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Daily Truck Trips Flow in the BA Topology Direction
TOT Durable Manuf (high tech)-Tons_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Annual Truck Ktons Flow in Both Directions
TOT Durable Manuf (high tech)-Trips_{year} {type}	Electronics (SCTG35), Transport equip (SCTG37), Precision instruments (SCTG38) Daily Truck Trips Flow in Both Directions
AB Motor and Other Veh-Tons_{year} {type}	Motorized vehicles (SCTG36) Annual Truck Ktons Flow in the AB Topology Direction
BA Motor and Other Veh -Tons_{year} {type}	Motorized vehicles (SCTG36) Annual Truck Ktons Flow in the BA Topology Direction
AB Motor and Other Veh -Trips_{year} {type}	Motorized vehicles (SCTG36) Daily Truck Trips Flow in the AB Topology Direction
BA Motor and Other Veh -Trips_{year} {type}	Motorized vehicles (SCTG36) Daily Truck Trips Flow in the BA Topology Direction
TOT Motor and Other Veh -Tons_{year} {type}	Motorized vehicles (SCTG36) Annual Truck Ktons Flow in Both Directions
TOT Motor and Other Veh -Trips_{year} {type}	Motorized vehicles (SCTG36) Daily Truck Trips Flow in Both Directions
AB Mixed Freight-Tons_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Annual Truck Ktons Flow in the AB Topology Direction
BA Mixed Freight-Tons_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Annual Truck Ktons Flow in the BA Topology Direction

Flow Table Field	Description
AB Mixed Freight-Trips_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Daily Truck Trips Flow in the AB Topology Direction
BA Mixed Freight-Trips_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Daily Truck Trips Flow in the BA Topology Direction
TOT Mixed Freight-Tons_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Truck KTons Flow in Both Directions
TOT Mixed Freight-Trips_{year} {type}	Misc mfg prods (SCTG40), Mixed freight (SCTG43) Daily Truck Trips Flow in Both Directions