



Scioto Valley Foods LLC

Disclosure-Aligned · Scope 1, 2 & 3 Inventory

FY 2025 · REPORT ID 0693e8ca

Factor Pack v2.6.15 · USEEIO Supply Chain v1.3 (USD 2022) · EPA Hub 2025 · eGRID 2023 · EPA WARM v16 · EIA CBECS 2018 · EEA 2024 (EU grids) · DESNZ 2026 (UK) · SEAI 2025 (IE) · CO2emissiefactoren 2026 (NL) · NGA 2026 (AU) · IVL 2025 (SE) · EEA 2024 (BE) · Defra/Leeds 2023 (UK Scope 3) · CEDA by Watershed 2024/2025 (Scope 3 outside the US and UK)

Prepared by aisustainablefuture.com carbon engine 2.5 on behalf of Scioto Valley Foods LLC.

Organizational boundary: Operational control · Base year: 2025

This inventory has not been subject to third-party verification.

Sample report: the company, its ledger and its figures are fictional.

§ 0 EDITOR'S NOTE ON THE FY 2025 INVENTORY

auditor brief

This report documents a footprint of **793.8 tCO₂e** across the FY 2025 reporting period, covering **55.6%** of the spend uploaded, decomposed and cited line by line in the pages that follow. Scope 3 (value chain) accounts for **49%** of the total, driven principally by Food Manufacturing at **354.4 tCO₂e**. Of **189** classified rows, **0%** used activity-based factors (±5-10% accuracy) and the balance used spend-based factors (±25-40%, an engineering estimate for the method - §7.3.2 sanctions economic-value data and does not quantify its error); spend-weighted, **50%** of the total came from high-confidence vendor or category matches. The pages that follow carry the full factor provenance, the transaction-level ledger and the methodology - the material an assurance engagement would start from, not a substitute for one.

§ 0.1 EMISSIONS BALANCE · FISCAL YEAR SUMMARY

tCO₂e

S1	Scope 1 STATIONARY + MOBILE COMBUSTION, OWNED & CONTROLLED SOURCES	275.06	35%
S2	Scope 2 PURCHASED GRID ELECTRICITY, LOCATION-BASED FACTOR APPLIED	130.84	16%
S3	Scope 3 VALUE CHAIN · CLOUD · FREIGHT · TRAVEL · PURCHASED GOODS	387.86	49%

CLOSING BALANCE · FY TCO₂E

793.8 tCO₂e

§ 1.1 SCOPE 1 · DIRECT COMBUSTION

tCO₂e by type

	CATEGORY	T CO ₂ E	SHARE
S1	Diesel EPA HUB 2025 KG CO ₂ E/GAL · PRICED AT THE OFFICIAL PRICE FOR THE PERIOD	200.91	73%
S1	Natural Gas EPA HUB 2025 KG CO ₂ E/THERM · PRICED AT THE OFFICIAL PRICE FOR THE PERIOD	55.03	20%
S1	Gasoline EPA HUB 2025 KG CO ₂ E/GAL · PRICED AT THE OFFICIAL PRICE FOR THE PERIOD	12.56	5%
S1	Propane NAICS 324110 · LPG, STATIONARY COMBUSTION	6.56	2%

§ 1.2 SCOPE 2 · PURCHASED ENERGY

tCO₂e by type

	CATEGORY	T CO ₂ E	SHARE
S2	Electricity EGRID 2023 · PURCHASED GRID ELECTRICITY	130.84	100%

§ 1.3 SCOPE 3 · VALUE CHAIN

tCO₂e by type

	GHG CATEGORY / EMISSION TYPE	T CO ₂ E	SHARE
S3	CAT 1 · PURCHASED GOODS & SERVICES	363.05	94%
	Food Manufacturing USEEIO 311 · FOOD MANUFACTURING	354.42	98%
	Paper Products USEEIO 322-323 · PAPER & PRINTING PRODUCTS	4.18	1%
	Water Utility USEEIO 221310 · WATER & SEWER	1.33	0%
	Marketing Advertising USEEIO 541810 · ADVERTISING	0.85	0%
	Cloud Services USEEIO 334220 · CLOUD & HOSTING	0.71	0%

	GHG CATEGORY / EMISSION TYPE	T CO ₂ E	SHARE
	Professional Services USEEIO 5412 · PROFESSIONAL SERVICES	0.55	0%
	Software Subscriptions USEEIO 511210 · SOFTWARE PUBLISHERS	0.39	0%
	Office Supplies USEEIO 322230, 339940 · OFFICE SUPPLIES (THE GOODS)	0.34	0%
	Telecommunications USEEIO 517 · TELECOM CARRIERS	0.28	0%
S3	CAT 4 · UPSTREAM TRANSPORTATION	12.03	3%
	Freight Shipping USEEIO 484 · TRUCK FREIGHT	11.16	93%
	Courier Delivery USEEIO 492210 · COURIER & LOCAL DELIVERY	0.87	7%
S3	CAT 3 · FUEL- & ENERGY-RELATED ACTIVITIES (NOT INCLUDED IN SCOPE 1 OR SCOPE 2)	5.73	1%
	Electricity T&D losses EPA 2025 EMISSION FACTORS HUB · TABLE 6 · US AVG 4.2% GRID LOSS	5.73	100%
S3	CAT 5 · WASTE GENERATED IN OPERATIONS	5.24	1%
	Waste Disposal USEEIO 562 · WASTE MANAGEMENT	5.24	100%
S3	CAT 6 · BUSINESS TRAVEL	1.35	0%
	Business Travel Air USEEIO 481 · COMMERCIAL AIR	0.93	69%
	Business Travel Ground USEEIO 485 · GROUND TRANSIT	0.25	19%
	Business Travel Lodging USEEIO 721110 · LODGING	0.17	13%
S3	CAT 2 · CAPITAL GOODS	0.46	0%

GHG CATEGORY / EMISSION TYPE	T CO ₂ E	SHARE
It Equipment USEEIO 334 · COMPUTER & ELECTRONICS	0.46	100%

§ 1.4 SPEND DATA PROCESSED · FACTOR × \$ = EMISSIONS

kg CO₂e per USD

	CATEGORY	SPEND (USD)	FACTOR	T CO ₂ E
S1	Gasoline	\$4,310	2.9137	12.56
S1	Natural Gas	\$10,944	5.0281	55.03
S1	Diesel	\$69,938	2.8727	200.91
S1	Propane	\$3,120	2.1041	6.56
S2	Electricity	\$28,756	4.5500	130.84
S3	Courier Delivery	\$3,131	0.2791	0.87
S3	Cloud Services	\$8,282	0.0857	0.71
S3	Software Subscriptions	\$5,280	0.0737	0.39
S3	Professional Services	\$6,600	0.0828	0.55
S3	Telecommunications	\$3,720	0.0746	0.28
S3	Water Utility	\$2,499	0.5324	1.33
S3	Waste Disposal	\$5,760	0.9101	5.24
S3	Marketing Advertising	\$10,800	0.0783	0.85
S3	Food Manufacturing	\$737,653	0.4805	354.42
S3	Office Supplies	\$1,300	0.2584	0.34
S3	Paper Products	\$8,448	0.4948	4.18
S3	Freight Shipping	\$20,357	0.5481	11.16
S3	Business Travel Air	\$1,560	0.5932	0.93
S3	Business Travel Ground	\$480	0.5214	0.25
S3	Business Travel Lodging	\$1,240	0.1336	0.17

	CATEGORY	SPEND (USD)	FACTOR	T CO ₂ E
S3	It Equipment	\$5,200	0.0882	0.46
TOTAL · CLASSIFIED SPEND		\$939,378		788.03

§ 2 METHODOLOGY & STANDARDS

per GHG Protocol

This inventory is compiled under the GHG Protocol Corporate Accounting and Reporting Standard (Revised Edition) and the Corporate Value Chain (Scope 3) Standard. The hybrid methodology follows the §7.3.2 data hierarchy: Tier 2 activity-based factors where customer activity data was supplied; Tier 3 spend-based screening for the remainder.

Spend-based factors are drawn from the EPA USEEIO Supply Chain Factors v1.3 at 2022 purchaser prices (with margins), with commodity codes mapped to NAICS 6-digit. Factor file version:

2.6.15-2026-10-05. Spend-based factors carry an uncertainty band this report takes as $\pm 25\text{--}40\%$. That band is an engineering estimate for spend-based screening, not a figure published by the GHG Protocol: §7.3.2 sanctions the economic-value METHOD and does not quantify its error. Activity-based factors use EPA Emission Factors Hub Table C-1 for liquid fuels, EPA Stationary Combustion factors for natural gas and propane, eGRID 2023 grid intensity for electricity, and IPCC AR5 100-year GWP for refrigerant fugitive emissions. Activity factor file version: **1.8-be-eea2024-2026-09-30.** Activity-based accuracy: $\pm 5\text{--}10\%$.

For this report, **0 of 189** classified rows (**0%**) used activity factors; **189** used spend-based factors. Activity rows take precedence over spend rows for the same emission category - no double-counting.

Scope 1 captures direct emissions from owned or controlled sources; activity data supplants spend where supplied, else the spend-proxy method applies and is disclosed as such. Scope 2 captures purchased electricity. Grid factor applied for Scope 2: **4.55 kg CO₂e per USD (US · OH).**

Cat 12 (End-of-Life). GHG Protocol Scope 3 Category 12 (end-of-life treatment of sold products) is **not applicable** to this report. The customer does not sell physical products, so there are no end-of-life emissions to attribute. A SaaS, service, or professional-services business legitimately reports Cat 12 as N/A under GHG Protocol Scope 3 Standard §5.12.

Scope 3 category coverage. Of the 15 GHG Protocol Scope 3 categories, this report renders results for **Cats 1, 2, 3, 4, 5, 6, 7, 12** - purchased goods and services (spend-based screening per §7.3.2), capital goods (equipment, IT and construction spend), fuel- and energy-related activities (Activity C - grid T&D losses derived from Scope 2), upstream transportation (when freight spend is present), waste generated in operations, business travel (when the relevant spend is present), employee commuting (see the limitation below), and end-of-life of sold products (Cat 12 where applicable; see §4b above for the three-branch disclosure). Each of these categories renders only when the classifier detects matching activity in the uploaded data - a report covering purely office-based SMB spend will typically render Cats 1, 3, and 12, while Cats 2, 4, 5, 6, 7 appear only when equipment, freight, waste, travel or commuting categories are populated. **Category 7 is bounded by the method.** A spend-based inventory can only see commuting the reporting entity PAID for - commuter benefits, transit passes and subsidies. Commuting borne by employees themselves does

not enter the ledger and therefore cannot enter this figure, and for most entities that is the larger share of it. A Category 7 total of zero here means no employer-paid commuting spend was found, not that employees do not commute. A complete Category 7 requires an employee survey of home-to-work distance and mode per the GHG Protocol Scope 3 Standard, which is outside a spend-based screening. Factor data is additionally provisioned for **Cats 8, 9** (upstream leased assets via EIA CBECS average-data intensity, downstream transportation via EPA Hub distance-based factors) - no route from customer input to these categories exists yet; rows exist in the factor file and are citable, but do not yet materialize in the report. Categories **10, 11, 13, 14, 15** (processing of sold products, use-phase of sold products, downstream leased assets, franchises, and investments) are not covered in this release and are disclosed as out-of-scope per GHG Protocol §5. A customer for whom any of these uncovered categories is material should supplement this screening with a category-specific inventory before using the numbers for regulatory filing or third-party assurance.

Energy is priced where and when it was bought. Each natural gas and road fuel purchase is converted to a quantity (litres, gallons, therms or kWh) at the official price for your country in the period of the transaction (EIA), net of any VAT or GST the business recovers. The quantity is then multiplied by the physical emission factor or the grid intensity. The quantity and price used are printed against each row of the transaction ledger.

Boundary, base year and recalculation. Organizational boundary: **Operational control**. Base year: **2025**. Where either is unstated the customer did not supply it, and this report makes no assumption on their behalf; both are required for a conforming inventory and both are collected at upload. Recalculation policy: the base year is restated when a structural change (acquisition, divestment, outsourcing), a methodology change, or a discovered error alters base-year Scope 1 + 2 by more than 5%. That threshold is this report's declared significance threshold per GHG Protocol Chapter 5; a screening inventory has no prior period to restate, so the policy governs from this year forward.

Gross figures, biogenic carbon and per-gas reporting. Every total in this report is GROSS: no purchased offsets, renewable energy certificates or allowances have been deducted, and the engine has no field in which to enter them. Biogenic CO₂ is not separately quantified - a spend-based screening cannot distinguish the biogenic fraction of a fuel or material purchase from its fossil fraction, so no biogenic figure is claimed either way. Per-gas: Scope 1 combustion is reported as CO₂ and non-CO₂ (CH₄ and N₂O combined) because the EPA Hub publishes the combustion factor as CO₂ with a single non-CO₂ uplift; splitting CH₄ from N₂O would require per-gas factors this engine does not carry, and inventing the split would be worse than declining it. Spend-based rows are blended CO₂e by construction and cannot be decomposed at all. No PFC or SF₆ sources were identified.

Price-level adjustment. The EPA's USEEIO Supply Chain GHG Emission Factors v1.3 are published per 2022 dollar at purchaser prices. Each Scope 3 row priced with them is moved to the dollars of its own year with the BEA GDP implicit price deflator (NIPA Table 1.1.9): the factor times the deflator for 2022

over the deflator for the year of the purchase, so a 2025 dollar carries 8% less than a 2022 dollar. Spend after 2025, the latest published year, uses 2025.

All spend values were processed in USD; no foreign-currency conversion was required.

Calculation. For spend-based rows: $\text{tCO}_2\text{e} = (\text{spend USD}) \times (\text{factor kg/USD}) \div 1,000$.

For activity-based rows: $\text{tCO}_2\text{e} = (\text{physical quantity}) \times (\text{per-unit factor}) \div 1,000$.

Refrigerant fugitive emissions: $\text{tCO}_2\text{e} = (\text{refrigerant kg}) \times (\text{GWP100}) \div 1,000$.

Rows were classified on the deterministic keyword path (vendor names, account names and descriptions mapped to EEIO commodity codes); Claude was not used for this upload. Vendor name takes precedence over expense_category when both are present. This report was generated on **05 October 2026**.

Sensitivity. The range below is asymmetric because the two error sources are. Factor uncertainty for spend-based screening is taken as $\pm 25\text{--}40\%$ and cuts both ways; incomplete coverage only ever understates. Applied to the inventory total (**793.8 tCO₂e**), the range is **476.3–1,114.9 tCO₂e**. The upper bound includes **2.6 tCO₂e** for spend this report could not identify, priced at the average intensity of the spend it could – an ASSUMPTION, not a measurement, and the true figure is unknown by construction. **What this range does NOT cover:** misclassification. A row assigned to the wrong category moves by the RATIO of two factors, not by a percentage, and the factors in this pack span roughly two orders of magnitude – so a single misrouted row can exceed the whole band. The per-row factor and mapping logic in the transaction ledger are there to make that checkable. Substituting activity data for spend in high-impact categories tightens the factor half toward $\pm 5\text{--}10\%$.

This draft is intended for screening, supplier-disclosure response (CDP, Walmart Project Gigaton, Microsoft Supplier Sustainability), and management decision support. For formal regulatory filings or third-party assurance, supplement with primary activity data across material categories and engage an ISO 14064-3 reviewer.

§ 2.1 SCOPE BOUNDARY STATEMENT

This inventory declares **Scope 1** (direct fuel combustion), **Scope 2** (purchased electricity), and **Scope 3** (value chain) emissions. Scope 3 categories assessed from your spend data: Category 1 – Purchased Goods and Services; Category 2 – Capital Goods; Category 3 – Fuel- and Energy-Related Activities (not included in Scope 1 or Scope 2); Category 4 – Upstream Transportation; Category 5 – Waste Generated in Operations; Category 6 – Business Travel. Other value-chain categories are included only where they can be identified from spend; those not derivable from the ledger (for example employee commuting or use of sold products) are not assessed. Of **266** line items, **189** were classified into Scope 1, 2 or 3; **76** were excluded as non-emission (payroll, tax, rent and similar). Of the spend uploaded, **55.6%** carries an emission factor, **44.2%** is non-emitting and was deliberately excluded (payroll, tax, rent and similar), and **0.2%** could not be identified. Only the last of those three

understates your footprint. **A further 1 rows could not be recognized**, carrying \$3,100 of the \$1,688,981 uploaded. They contribute nothing to the totals above, so this footprint is understated. If those rows emit at the same average intensity as the spend that did price, they would add roughly 2.6 tCO₂e (+0.3%). That is an assumption and not a measurement - the true intensity of an unidentified row is unknown, which is why it is unidentified - but it is the size of the question, and it is not small. The unrecognized rows are listed in the appendix; naming those vendors more explicitly in your ledger is the fastest way to bring them in. **Credits & refunds.** 1 negative-amount rows (credit memos, returns, billing adjustments) were netted against purchases in the same emission category before applying factors, per GHG Protocol §7.3.2 (economic-value method) and consistent with GAAP/IFRS return accounting.

§ 2.2 DATA INTAKE DECISIONS · STRUCTURAL

auto-detected

Before parsing the upload, the engine inspected its structure and auto-detected the settings below. Each decision normalizes the data to a consistent internal format before emission factors are applied, preserving the ability to reconcile each line against your general ledger.

File encoding	UTF-8
Decimal convention	US (1,234.56)
Negative amount format	Hyphen (-1234.56)
Date convention	MM/DD/YYYY (month-first)
Localized column headers mapped	Date→date, Vendor→vendor, Category→category, Amount→amount

Additional notes. Mapped localized column headers: 'Date'→date, 'Vendor'→vendor, 'Category'→category, 'Amount'→amount; Detected date format: MM/DD/YYYY (based on 266 date cells with majority-vote convention)

§ 2.3 ROW-LEVEL INFERENCE DECISIONS · TOP 20 BY SPEND

rescued rows

ROW	ORIGINAL GAP	INFERRED VALUE	SIGNAL SOURCE
R-178	Other	No currency in the file; read	Engine
R-64	Other	No currency in the file; read	Engine
R-134	Other	No currency in the file; read	Engine
R-242	Other	No currency in the file; read	Engine
R-110	Other	No currency in the file; read	Engine
R-19	Other	No currency in the file; read	Engine
R-202	Other	No currency in the file; read	Engine
R-223	Other	No currency in the file; read	Engine
R-88	Other	No currency in the file; read	Engine
R-43	Other	No currency in the file; read	Engine
R-154	Other	No currency in the file; read	Engine
R-266	Other	No currency in the file; read	Engine
R-65	Other	No currency in the file; read	Engine
R-1	Other	No currency in the file; read	Engine
R-22	Other	No currency in the file; read	Engine
R-243	Other	No currency in the file; read	Engine
R-111	Other	No currency in the file; read	Engine
R-224	Other	No currency in the file; read	Engine
R-203	Other	No currency in the file; read	Engine
R-157	Other	No currency in the file; read	Engine

§ 3 DATA QUALITY · CONFIDENCE & PROVENANCE

rows classified

50% of total emissions came from rows classified at high confidence (vendor or category matched at ≥ 0.8). The balance sits in medium- or low-confidence rows - review those in the Transaction Ledger if citing specific line items. Top 3 vendors represent 93% of Scope 3 spend (17 distinct vendors total) - reduction effort concentrated on those three accounts has the highest leverage. **Note.** 60 of the 189 rows that carry a factor (32%) were matched on weaker evidence than a direct vendor hit (< 0.8). Common causes: partial vendor names, ambiguous expense categories, or contradictory vendor/category pairs. Cleaner vendor names or activity-data overrides would tighten these rows. Rows that could not be matched at all are a separate figure and are reported in § 2.1 as uncovered spend.

Classification method	GHG Protocol spend-based (automated)
Emission-factor source	US EPA USEEIO v1.3 supply-chain factors (purchaser price, with margins) and the EPA GHG Emission Factors Hub for activity-based fuel and electricity; factor pack v2.6.15-2026-10-05
Rows uploaded	266
Rows priced into the totals	189
High-confidence mappings	129
Items for review	60
Total transactions flagged	2
· unrecognized, not priced	1
· negative amounts (credits)	1

Industry-standard estimation per GHG Protocol Corporate Standard (2015 Revised). Spend items were classified via automated mapping with keyword and vendor recognition. For tighter accuracy, supply actual activity data (kWh, litres, km) where available.

§ 4 FRAMEWORK READINESS

gap analysis, not
compliance

FRAMEWORK	WHAT IT REQUIRES	THIS REPORT	GAP
GHG Protocol	Scopes 1 and 2 mandatory, Scope 2 on both location and market basis. Scope 3 optional. Spend-based is an accepted Scope 3 method, never for Scopes 1 or 2. No assurance required.	Scope 1; Scope 2 (location-based); Scope 3 (6 of 15 categories). All spend-based.	Needs market-based Scope 2, per-gas disclosure for the spend-based rows, which blended CO2e factors cannot provide.
CDP Climate	Voluntary questionnaire, not a filing. Estimates are explicitly accepted and scored up to Management level. Verification is scored, not required.	Scope 1; Scope 2 (location-based); Scope 3 (6 of 15 categories). All spend-based.	Supports Module 7 disclosure. Needs market-based Scope 2 and third-party verification to reach the top score band.
CSRD / ESRS E1	Assured Scope 1, Scope 2 on both bases, and Scope 3 per significant category from activity data. Limited assurance is mandatory. Scope narrowed substantially after the 2025 Omnibus.	Scope 1; Scope 2 (location-based); Scope 3 (6 of 15 categories). All spend-based.	Spend-based data is sanctioned for the Scope 3 SCREENING step only (E1-8 AR 24(b)), so this supports a gap analysis, not a filing. Also needs market-based Scope 2, assurance, targets and a transition plan.
California SB-253	Applies only to entities over \$1B revenue doing business in California. Scope 1 and 2 from 2026, Scope 3 from 2027, with third-party assurance. CARB rules are not final.	Scope 1; Scope 2 (location-based); Scope 3 (6 of 15 categories). All spend-based.	Applicability not determined: this report holds no revenue or California-nexus data. If in scope, it would additionally need market-based Scope 2, activity data for Scopes 1 and 2, and assurance.

This table states what each framework requires and what this report contains. It is a gap analysis, not a statement of compliance, and no row above should be read as confirming eligibility to file. The largest recurring gap is market-based Scope 2, which needs your supplier contracts or residual-mix factors and cannot be derived from spend data. Supplying activity data (kWh, litres, km) closes the Scope 1 and 2 method gap. Confirm your obligations with your sustainability advisor before any regulatory submission.

§ 5 PRICED TRANSACTION LEDGER

189 of 266 rows

REF	VENDOR	CATEGORY	CONF.	USD
R-178	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 31.579 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$65,725
R-64	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 31.382 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$65,314
R-134	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 31.363 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$65,275
R-242	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 30.834 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$64,175
R-110	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 30.349 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$63,166
R-19	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 30.223 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$62,903
R-202	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 29.536 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$61,474

R-223	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 28.586 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$59,496
R-88	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 28.547 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$59,415
R-43	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 27.773 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$57,803
R-154	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 27.329 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$56,880
R-266	Gordon Food Service	Food Manufacturing [S3] · SPEND f=0.4805 · 26.920 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'food inventory' → food_manufacturing	Good	\$56,028
R-239	WEX Fleet	Diesel [S1] · SPEND f=2.752 · 17.222 tC02e · 1,638 gal @ 3.822 USD/gal 2025-11 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$6,259
R-220	WEX Fleet	Diesel [S1] · SPEND f=2.858 · 17.635 tC02e · 1,677 gal @ 3.679 USD/gal 2025-10 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$6,169
R-40	WEX Fleet	Diesel [S1] · SPEND f=2.862 · 17.522 tC02e · 1,666 gal @ 3.675 USD/gal 2025-02 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$6,123

R-61	WEX Fleet	Diesel [S1] · SPEND f=2.933 · 17.932 tC02e · 1,705 gal @ 3.585 USD/gal 2025-03 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$6,113
R-85	WEX Fleet	Diesel [S1] · SPEND f=2.948 · 17.571 tC02e · 1,671 gal @ 3.567 USD/gal 2025-04 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,960
R-199	WEX Fleet	Diesel [S1] · SPEND f=2.806 · 16.557 tC02e · 1,574 gal @ 3.748 USD/gal 2025-09 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,901
R-16	WEX Fleet	Diesel [S1] · SPEND f=2.894 · 17.066 tC02e · 1,623 gal @ 3.634 USD/gal 2025-01 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,897
R-263	WEX Fleet	Diesel [S1] · SPEND f=2.909 · 16.269 tC02e · 1,547 gal @ 3.615 USD/gal 2025-12 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,593
R-107	WEX Fleet	Diesel [S1] · SPEND f=3.006 · 16.714 tC02e · 1,589 gal @ 3.499 USD/gal 2025-05 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,561
R-175	WEX Fleet	Diesel [S1] · SPEND f=2.809 · 15.602 tC02e · 1,484 gal @ 3.744 USD/gal 2025-08 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,555
R-151	WEX Fleet	Diesel [S1] · SPEND f=2.783 · 15.135 tC02e · 1,439 gal @ 3.779 USD/gal 2025-07 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,439

R-131	WEX Fleet	Diesel [S1] · SPEND f=2.922 · 15.687 tCO2e · 1,492 gal @ 3.599 USD/gal 2025-06 Exact keyword: 'wex fleet' → gasoline (the row says 'diesel')	Strong	\$5,368
R-99	Dell Technologies CANONICAL · DELL	It Equipment [S3] · SPEND f=0.08825 · 0.459 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'dell' (score 95): Computer manufacturer	Strong	\$5,200
R-257	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 2.158 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$3,937
R-81	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 2.088 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$3,809
R-216	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 1.927 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$3,516
R-171	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 1.768 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$3,226
R-125	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 1.668 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$3,043
R-3	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 13.095 tCO2e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,878
R-36	XPO Logistics CANONICAL · LOGISTICS	Freight Shipping [S3] · SPEND f=0.5481 · 1.550 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'logistics' → freight_shipping	Strong	\$2,827

R-113	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 12.504 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,748
R-181	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 11.900 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,615
R-159	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 11.742 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,581
R-205	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 11.333 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,491
R-11	Smith & Associates CPA CANONICAL · CPA	Professional Services [S3] · SPEND f=0.08281 · 0.199 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'cpa' → professional_services	Strong	\$2,400
R-146	Smith & Associates CPA CANONICAL · CPA	Professional Services [S3] · SPEND f=0.08281 · 0.199 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'cpa' → professional_services	Strong	\$2,400
R-46	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 10.707 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,353
R-138	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 10.235 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,249
REF	VENDOR	CATEGORY	CONF.	USD
R-24	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 10.214 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,245
R-226	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 10.180 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,237

R-91	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 9.828 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,160
R-245	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 9.675 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,126
R-67	AEP Ohio CANONICAL · AEP	Electricity [S2] · SPEND f=4.55 · 9.427 tC02e Substring-match → 'aep' (score 95): American Electric Power	Strong	\$2,072
R-102	Baker & Hostetler LLP	Professional Services [S3] · SPEND f=0.08281 · 0.149 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'legal' → professional_services	Strong	\$1,800
R-50	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.953 · 8.572 tC02e · 1,614 therm @ 1.072 USD/therm 2025-03 Partial keyword: 'columbia gas' → natural_gas	Good	\$1,731
R-124	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.801 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,618
R-35	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.788 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,593
R-28	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=5.337 · 8.478 tC02e · 1,596 therm @ 0.995 USD/therm 2025-02 Partial keyword: 'columbia gas' → natural_gas	Good	\$1,589
R-230	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=5.123 · 8.102 tC02e · 1,525 therm @ 1.037 USD/therm 2025-11 Partial keyword: 'columbia gas' → natural_gas	Good	\$1,581

R-215	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.767 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,551
R-249	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=5.03 · 7.724 tCO2e · 1,454 therm @ 1.056 USD/therm 2025-12 Partial keyword: 'columbia gas' → natural_gas	Good	\$1,536
R-7	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=5.574 · 8.086 tCO2e · 1,522 therm @ 0.953 USD/therm 2025-01 Partial keyword: 'columbia gas' → natural_gas	Good	\$1,450
R-256	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.661 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,335
R-170	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.601 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,215
R-80	Uline	Paper Products [S3] · SPEND f=0.4948 · 0.562 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'packaging supplies' → paper_products	Strong	\$1,136
R-18	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-42	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-63	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900

R-87	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-109	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-133	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-153	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-177	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-201	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-222	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-241	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEI0 in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900

R-265	Google Ads	Marketing Advertising [S3] · SPEND f=0.0783 · 0.070 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'google ads' (score 100): Search advertising	Strong	\$900
R-68	Delta Air Lines CANONICAL · DELTA	Business Travel Air [S3] · SPEND f=0.5932 · 0.463 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'delta' (score 100): Major airline	Strong	\$780
R-182	Delta Air Lines CANONICAL · DELTA	Business Travel Air [S3] · SPEND f=0.5932 · 0.463 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'delta' (score 100): Major airline	Strong	\$780
R-212	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.063 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$741
R-190	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.063 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$738
R-120	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.063 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$733
R-167	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.062 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$728
R-98	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.062 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$727

R-52	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.060 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$699
R-32	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.060 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$698
R-252	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.059 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$691
R-144	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.055 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$641
REF	VENDOR	CATEGORY	CONF.	USD
R-77	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.054 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$636
R-9	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.054 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$636
R-75	Marriott	Business Travel Lodging [S3] · SPEND f=0.1336 · 0.083 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'marriott' (score 100): Lodging chain	Strong	\$620

R-189	Marriott	Business Travel Lodging [S3] · SPEND f=0.1336 · 0.083 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'marriott' (score 100): Lodging chain	Strong	\$620
R-233	Amazon Web Services	Cloud Services [S3] · SPEND f=0.08567 · 0.053 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Regex-match → 'amazon web services' (score 100): Cloud computing provide	Strong	\$614
R-31	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-76	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-119	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-166	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-211	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-251	Suburban Propane	Propane [S1] · SPEND f=2.104 · 1.094 tC02e Exact keyword: 'suburban propane' → propane	Strong	\$520
R-14	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-38	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480

R-59	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-83	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-105	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-129	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-149	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-173	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-197	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-218	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480

R-237	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-261	Rumpke Waste CANONICAL · WASTE	Waste Disposal [S3] · SPEND f=0.9101 · 0.437 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'waste' → waste_disposal	Strong	\$480
R-117	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.525 · 2.093 tCO2e · 394 therm @ 1.174 USD/therm 2025-06 Partial keyword: 'columbia gas' → natural_gas	Good	\$462
R-72	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.797 · 2.170 tCO2e · 409 therm @ 1.107 USD/therm 2025-04 Partial keyword: 'columbia gas' → natural_gas	Good	\$452
R-186	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.54 · 2.035 tCO2e · 383 therm @ 1.170 USD/therm 2025-09 Partial keyword: 'columbia gas' → natural_gas	Good	\$448
R-10	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-33	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-53	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440

R-78	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-100	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-121	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-145	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-168	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-191	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-213	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440

R-234	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-253	Microsoft	Software Subscriptions [S3] · SPEND f=0.07369 · 0.032 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'microsoft' (score 95): Microsoft licences and 365 (Az	Strong	\$440
R-163	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.434 · 1.939 tCO2e · 365 therm @ 1.198 USD/therm 2025-08 Partial keyword: 'columbia gas' → natural_gas	Good	\$437
R-209	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.878 · 2.131 tCO2e · 401 therm @ 1.089 USD/therm 2025-10 Partial keyword: 'columbia gas' → natural_gas	Good	\$437
REF	VENDOR	CATEGORY	CONF.	USD
R-142	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.354 · 1.789 tCO2e · 337 therm @ 1.220 USD/therm 2025-07 Partial keyword: 'columbia gas' → natural_gas	Good	\$411
R-95	Columbia Gas of Ohio CANONICAL · COLUMBIA GAS	Natural Gas [S1] · SPEND f=4.667 · 1.909 tCO2e · 359 therm @ 1.138 USD/therm 2025-05 Partial keyword: 'columbia gas' → natural_gas	Good	\$409
R-165	Staples	Office Supplies [S3] · SPEND f=0.2584 · 0.097 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'staples' (score 95): Office supply retailer	Strong	\$374
R-97	Staples	Office Supplies [S3] · SPEND f=0.2584 · 0.092 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'staples' (score 95): Office supply retailer	Strong	\$355

R-30	Staples	Office Supplies [S3] · SPEND f=0.2584 · 0.092 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'staples' (score 95): Office supply retailer	Strong	\$355
R-232	Staples	Office Supplies [S3] · SPEND f=0.2584 · 0.087 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'staples' (score 95): Office supply retailer	Strong	\$336
R-118	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.089 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$319
R-29	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.087 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$312
R-12	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-34	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-54	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310

R-79	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-101	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-122	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-147	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-169	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-192	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-214	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310

R-235	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-254	Spectrum Business CANONICAL · SPECTRUM	Telecommunications [S3] · SPEND f=0.07461 · 0.023 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'spectrum' (score 95): Charter Communications brand	Strong	\$310
R-210	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.086 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$309
R-231	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.077 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$276
R-96	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.075 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$267
R-188	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.072 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$256
R-143	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.071 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$254

R-73	Enterprise Rent-A-Car	Business Travel Ground [S3] · SPEND f=0.5214 · 0.125 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'enterprise rent-a-car' → business_travel_ground	Strong	\$240
R-187	Enterprise Rent-A-Car	Business Travel Ground [S3] · SPEND f=0.5214 · 0.125 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Exact keyword: 'enterprise rent-a-car' → business_travel_ground	Strong	\$240
R-8	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.066 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$238
R-250	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.066 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$235
R-74	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.065 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$235
R-258	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.122 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$228
R-51	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.062 tC02e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$223

R-148	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.117 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$220
R-13	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.115 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$216
R-5	Speedway	Gasoline [S1] · SPEND f=2.933 · 0.627 tCO2e · 70 gal @ 3.076 USD/gal 2025-01 Partial keyword: 'fuel' → gasoline	Good	\$214
R-37	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.113 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$212
R-126	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.113 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$212
R-82	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.113 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$212
R-56	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.111 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$208
R-115	Speedway	Gasoline [S1] · SPEND f=2.864 · 0.594 tCO2e · 66 gal @ 3.150 USD/gal 2025-06 Partial keyword: 'fuel' → gasoline	Good	\$207
REF	VENDOR	CATEGORY	CONF.	USD

R-164	FedEx	Courier Delivery [S3] · SPEND f=0.2791 · 0.057 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Substring-match → 'fedex' (score 95): Major courier/shipping	Strong	\$206
R-104	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.109 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$205
R-161	Speedway	Gasoline [S1] · SPEND f=2.88 · 0.588 tCO2e · 65 gal @ 3.133 USD/gal 2025-08 Partial keyword: 'fuel' → gasoline	Good	\$204
R-106	Speedway	Gasoline [S1] · SPEND f=2.864 · 0.584 tCO2e · 65 gal @ 3.150 USD/gal 2025-05 Partial keyword: 'fuel' → gasoline	Good	\$204
R-174	Speedway	Gasoline [S1] · SPEND f=2.88 · 0.584 tCO2e · 65 gal @ 3.133 USD/gal 2025-08 Partial keyword: 'fuel' → gasoline	Good	\$203
R-217	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.107 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$201
R-247	Speedway	Gasoline [S1] · SPEND f=3.118 · 0.623 tCO2e · 69 gal @ 2.894 USD/gal 2025-12 Partial keyword: 'fuel' → gasoline	Good	\$200
R-172	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.106 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$200

R-228	Speedway	Gasoline [S1] · SPEND f=2.958 · 0.587 tCO2e · 65 gal @ 3.050 USD/gal 2025-11 Partial keyword: 'fuel' → gasoline	Good	\$198
R-93	Speedway	Gasoline [S1] · SPEND f=2.864 · 0.565 tCO2e · 63 gal @ 3.150 USD/gal 2025-05 Partial keyword: 'fuel' → gasoline	Good	\$197
R-207	Speedway	Gasoline [S1] · SPEND f=2.948 · 0.572 tCO2e · 63 gal @ 3.060 USD/gal 2025-10 Partial keyword: 'fuel' → gasoline	Good	\$194
R-236	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.103 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$194
R-26	Speedway	Gasoline [S1] · SPEND f=2.891 · 0.553 tCO2e · 61 gal @ 3.121 USD/gal 2025-02 Partial keyword: 'fuel' → gasoline	Good	\$191
R-194	City of Columbus	Water Utility [S3] · SPEND f=0.5324 · 0.102 tCO2e · USEEIO in 2025 USD (BEA GDP deflator 117.988/128.088) Partial keyword: 'water_utility' → water_utility	Good	\$191
R-15	Speedway	Gasoline [S1] · SPEND f=2.933 · 0.530 tCO2e · 59 gal @ 3.076 USD/gal 2025-01 Partial keyword: 'fuel' → gasoline	Good	\$181
R-219	Speedway	Gasoline [S1] · SPEND f=2.948 · 0.527 tCO2e · 58 gal @ 3.060 USD/gal 2025-10 Partial keyword: 'fuel' → gasoline	Good	\$179
R-48	Speedway	Gasoline [S1] · SPEND f=2.914 · 0.516 tCO2e · 57 gal @ 3.096 USD/gal 2025-03 Partial keyword: 'fuel' → gasoline	Good	\$177

R-70	Speedway	Gasoline [S1] · SPEND f=2.845 · 0.490 tCO2e · 54 gal @ 3.171 USD/gal 2025-04 Partial keyword: 'fuel' → gasoline	Good	\$172
R-140	Speedway	Gasoline [S1] · SPEND f=2.887 · 0.489 tCO2e · 54 gal @ 3.125 USD/gal 2025-07 Partial keyword: 'fuel' → gasoline	Good	\$170
R-198	Speedway	Gasoline [S1] · SPEND f=2.85 · 0.479 tCO2e · 53 gal @ 3.166 USD/gal 2025-09 Partial keyword: 'fuel' → gasoline	Good	\$168
R-262	Speedway	Gasoline [S1] · SPEND f=3.118 · 0.521 tCO2e · 58 gal @ 2.894 USD/gal 2025-12 Partial keyword: 'fuel' → gasoline	Good	\$167
R-150	Speedway	Gasoline [S1] · SPEND f=2.887 · 0.481 tCO2e · 53 gal @ 3.125 USD/gal 2025-07 Partial keyword: 'fuel' → gasoline	Good	\$167
R-60	Speedway	Gasoline [S1] · SPEND f=2.914 · 0.483 tCO2e · 54 gal @ 3.096 USD/gal 2025-03 Partial keyword: 'fuel' → gasoline	Good	\$166
R-84	Speedway	Gasoline [S1] · SPEND f=2.845 · 0.463 tCO2e · 51 gal @ 3.171 USD/gal 2025-04 Partial keyword: 'fuel' → gasoline	Good	\$163
R-39	Speedway	Gasoline [S1] · SPEND f=2.891 · 0.430 tCO2e · 48 gal @ 3.121 USD/gal 2025-02 Partial keyword: 'fuel' → gasoline	Good	\$149
R-238	Speedway	Gasoline [S1] · SPEND f=2.958 · 0.437 tCO2e · 48 gal @ 3.050 USD/gal 2025-11 Partial keyword: 'fuel' → gasoline	Good	\$148

R-184	Speedway	Gasoline [S1] · SPEND f=2.85 · 0.419 tCO2e · 46 gal @ 3.166 USD/gal 2025-09 Partial keyword: 'fuel' → gasoline	Good	\$147
R-130	Speedway	Gasoline [S1] · SPEND f=2.864 · 0.418 tCO2e · 46 gal @ 3.150 USD/gal 2025-06 Partial keyword: 'fuel' → gasoline	Good	\$146

* = outlier or missing vendor · Strong/Good/Review = vendor-match confidence · [S1/S2/S3] = scope tag · ACTIVITY / SPEND = factor class · f= = emission factor applied · Resolved = identified by you, not by the engine

§ 5b UNRECOGNIZED ROWS

1 rows · \$3,100

These carry no emission factor and contribute nothing to any total above, so the inventory is understated by whatever they represent. They are the fastest thing to fix: tell us what these vendors are, or name them more fully in your ledger, and they price on the next run.

REF	VENDOR	CATEGORY	CONF.	USD
R-103	Carrier Commercial Ser	N/A · SPEND	Review	\$3,100