



GIG
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WALES

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Digital Health
and Care Wales

Electronic Prescription Service (EPS) impact on Carbon Emissions in Wales

Data Source: NHS Shared Services EPS Dashboard

The "**GP Practice Overview – Wales**" page provides a high-level summary of all GP practices across Wales.

All other pages focus on **Cadwgan GP Practice**, which has been used as a case study. The dashboard is designed to scale and accommodate additional GP and pharmacy data in future updates.

Carbon emissions were estimated using the **UK Government GHG Conversion Factors for Company Reporting (2024):**

Car travel emissions: 0.273315663 kg CO₂ per mile

(based on an average petrol car, direct emissions only)

'Total Miles' Refers to the journey no longer being taken from GP to Pharmacy.

Paper emissions: 0.0225 kg CO₂ per A4 sheet

(assumes standard 80gsm virgin office paper)

These metrics have been applied to calculate the estimated environmental impact of prescription-related travel and paper usage.

GP Practice EPS Comparison

Practice Name

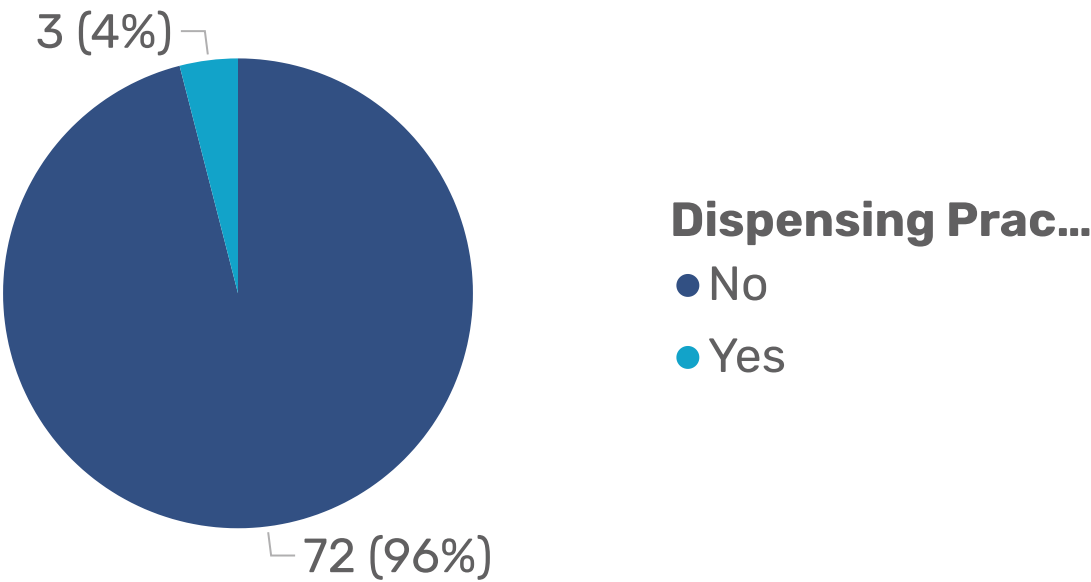
All

Dispensing Practice

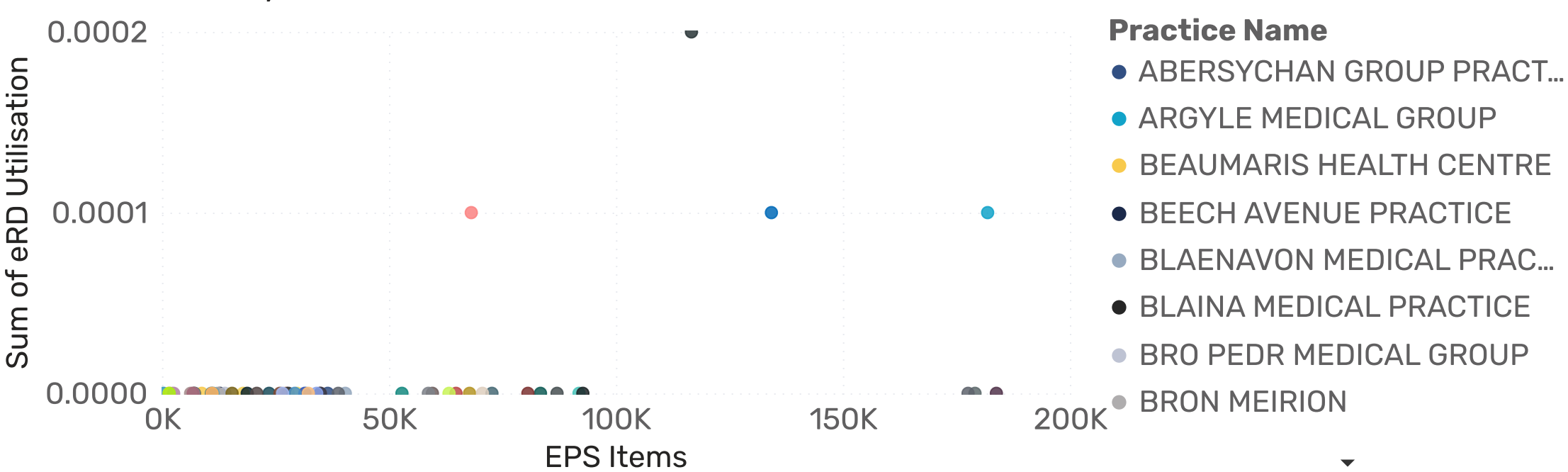
All

Clear all slicers

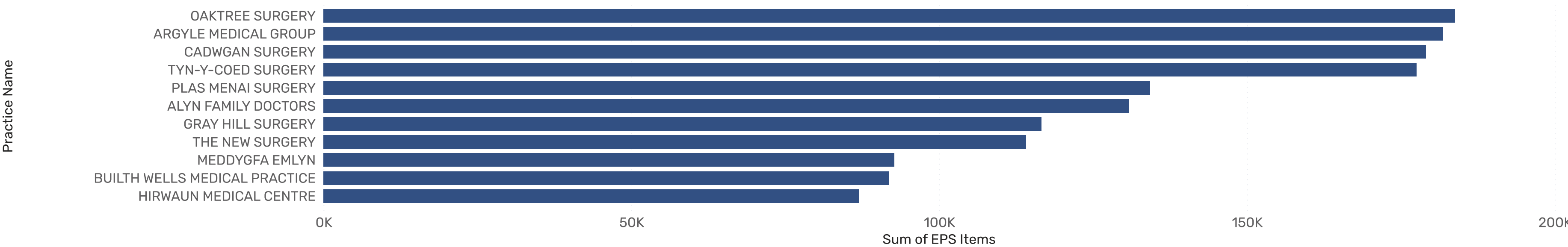
Dispensing vs Non-Dispensing Practices



eRD Utilisation by Practice and EPS Items



EPS Items by Practice



Cadwgan Monthly EPS & Carbon Paper Trends

Pharmacy Trading Name



All



Dispensing Practice



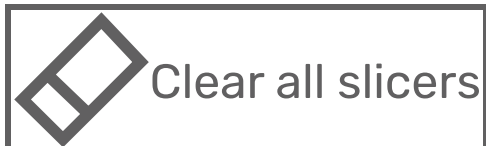
All



Month



All



19K

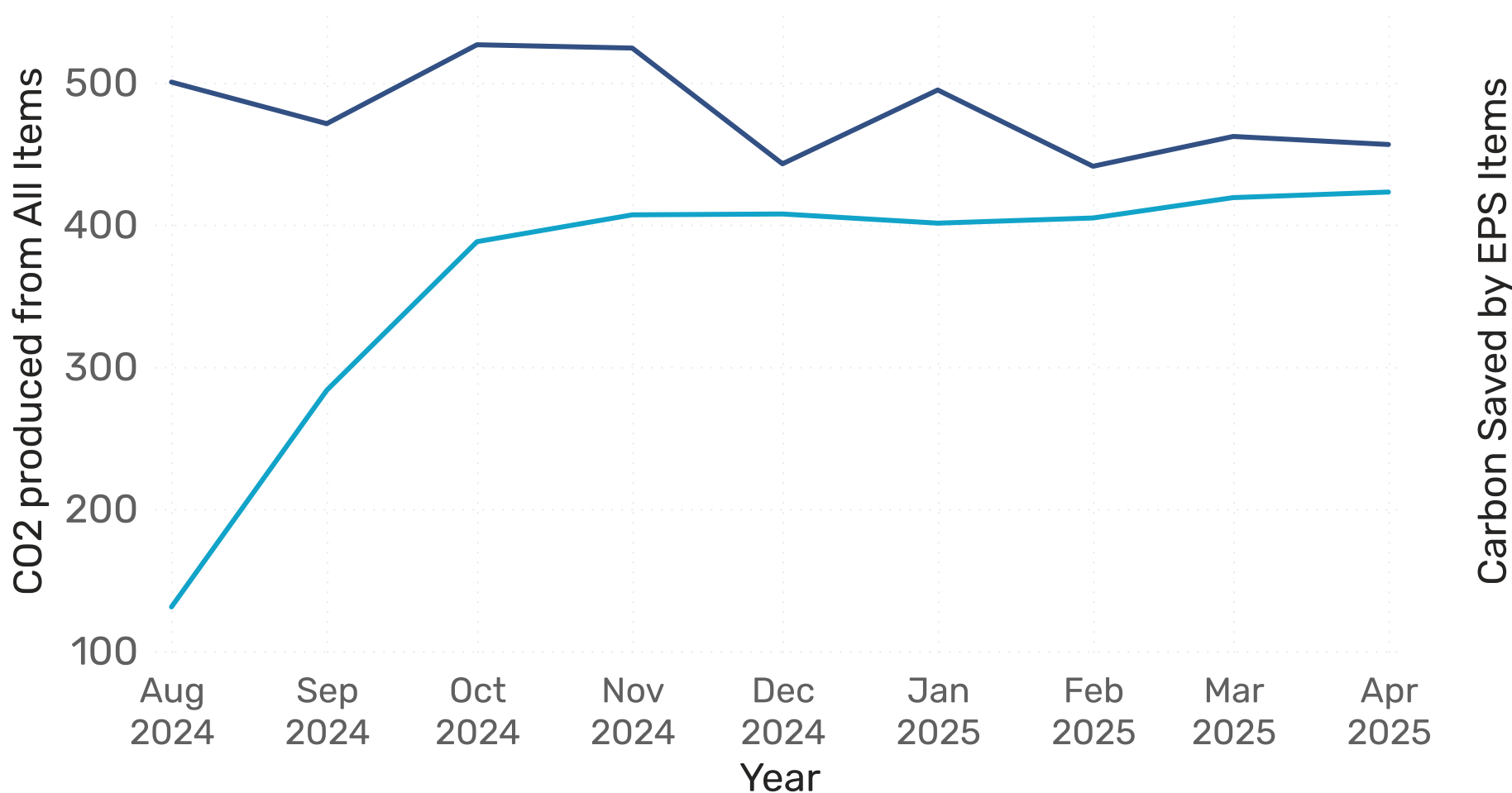
Total EPS Items Last Month

423

Total CO2 (kg) Savings Last Month

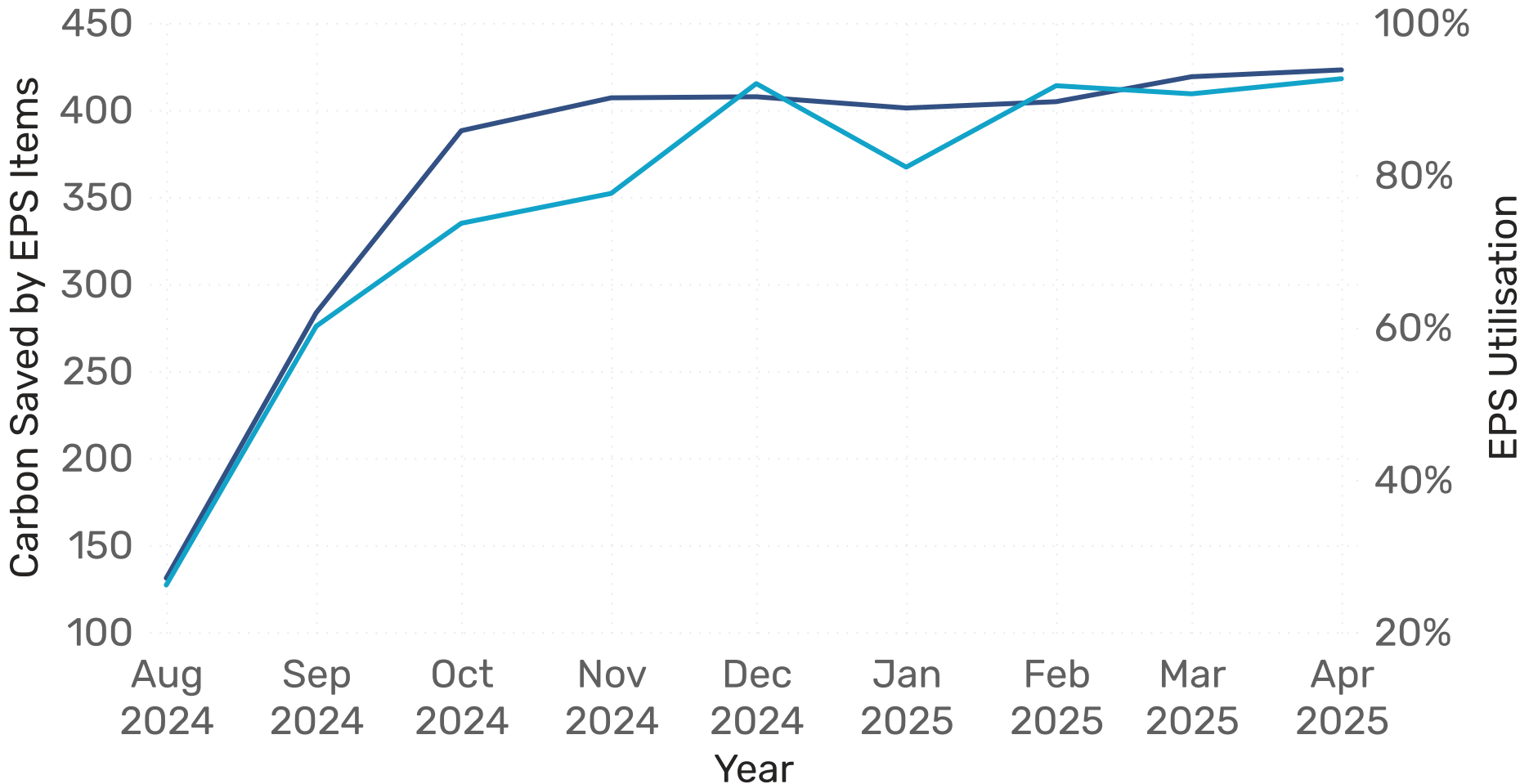
Carbon produced if all prescriptions were paper vs the carbon saved by EPS

● CO2 produced from All Items ● Carbon Saved by EPS Items



Carbon Paper Savings over time

● Carbon Saved by EPS Items ● EPS Utilisation



Pharmacy Transport Emissions Overview

Practice Name

All

Pharmacy Trading Name

All

Dispensing Practice

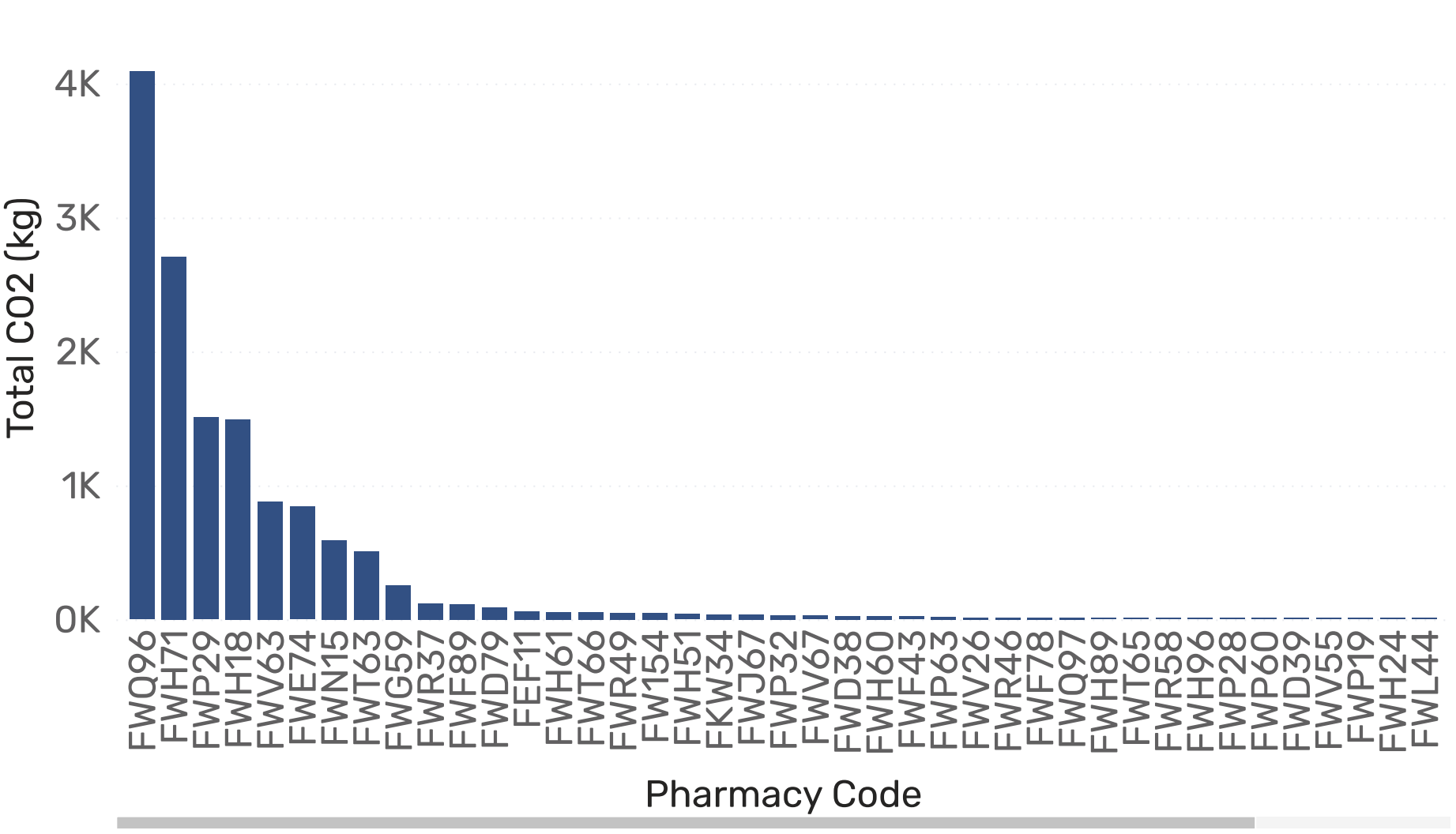
All

 Clear all slicers

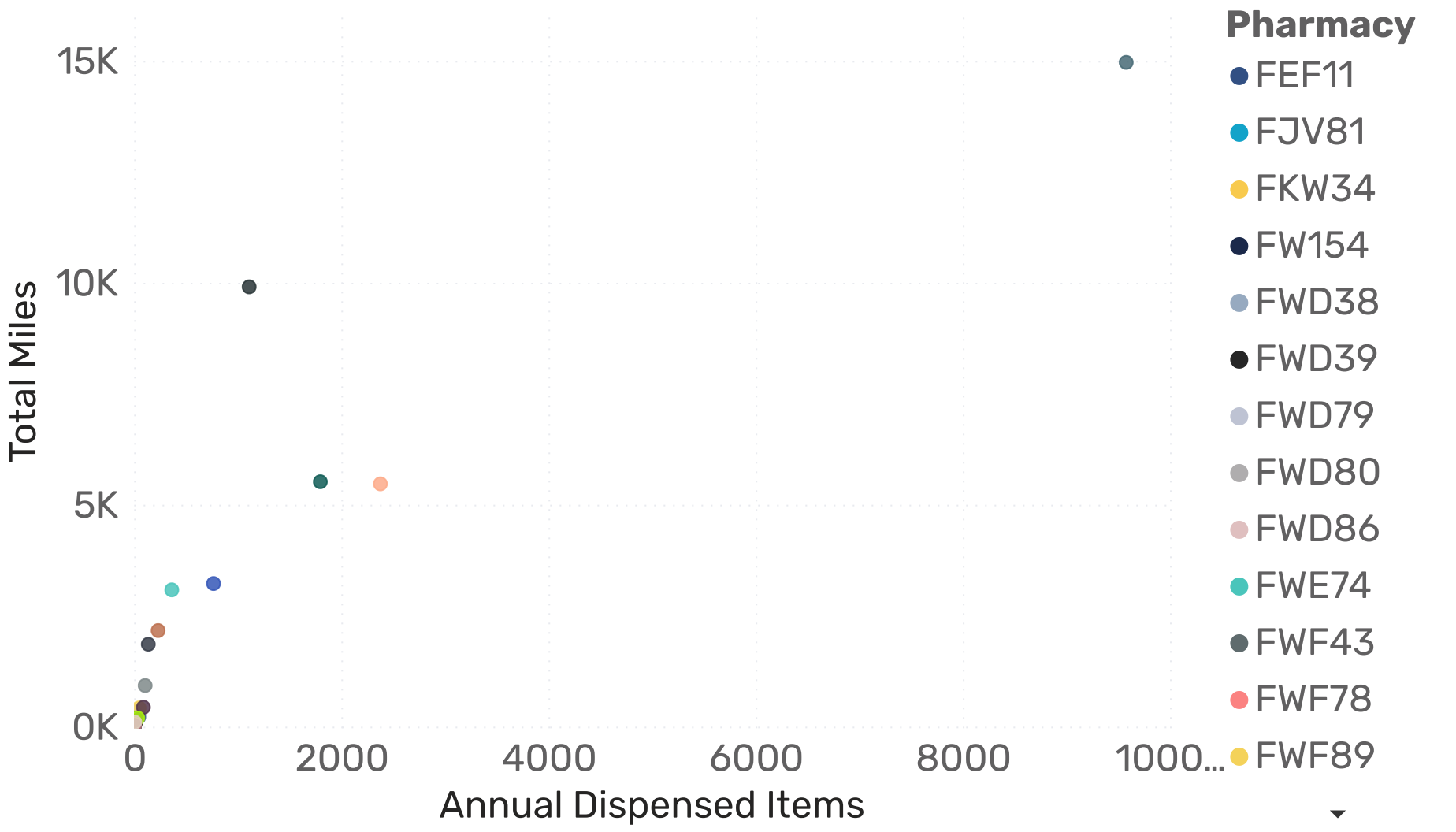
50.96K
Total Miles

13.93K
Total CO2 (kg)

Total Transport Carbon Savings by Pharmacy



Annual Dispensed Items and Total Miles per Pharmacy



Pharmacy Efficiency - Transport Emissions

Pharmacy Trading Name

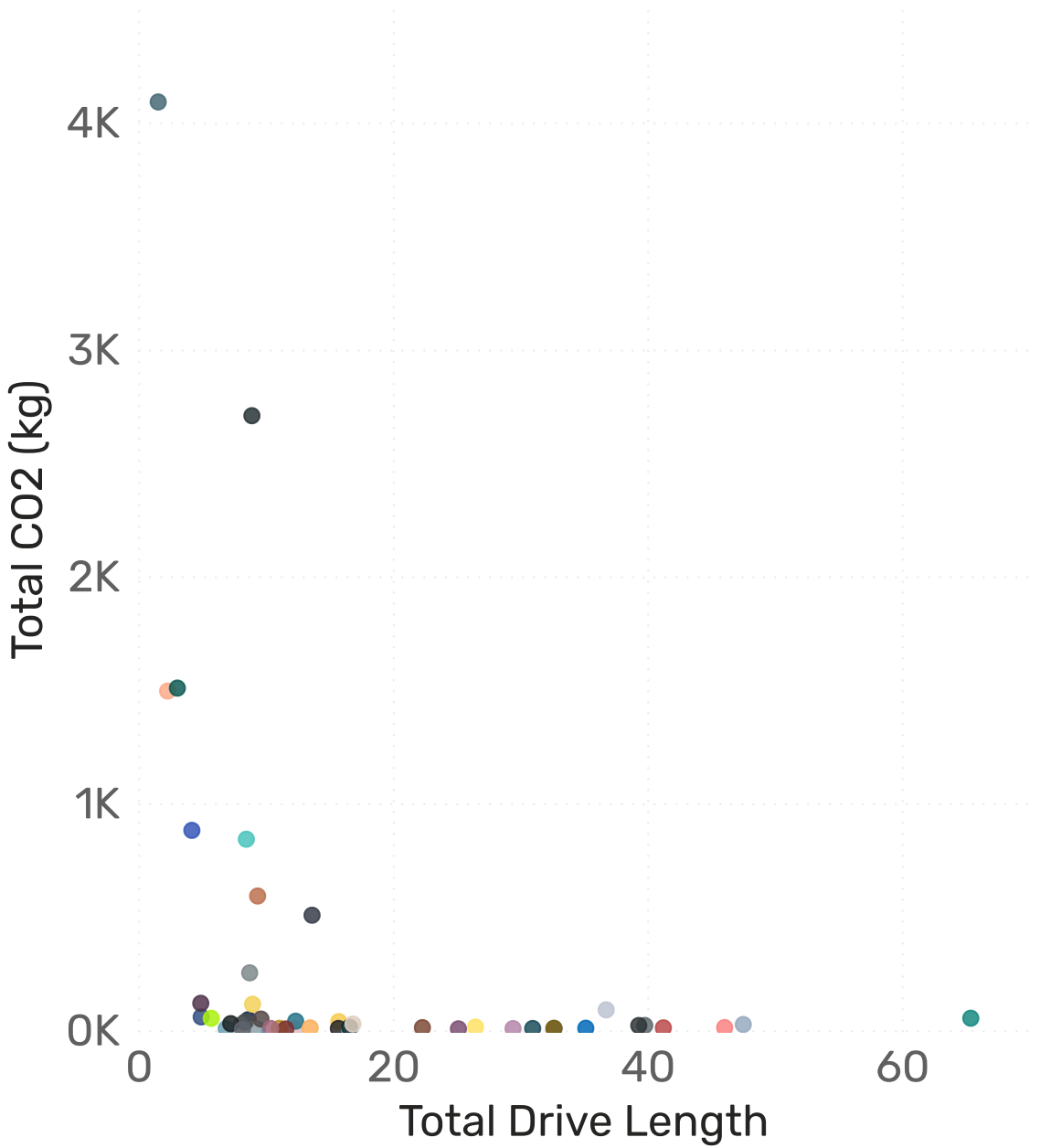
Pharmacy Code

Dispensing Practice

 Clear all slicers

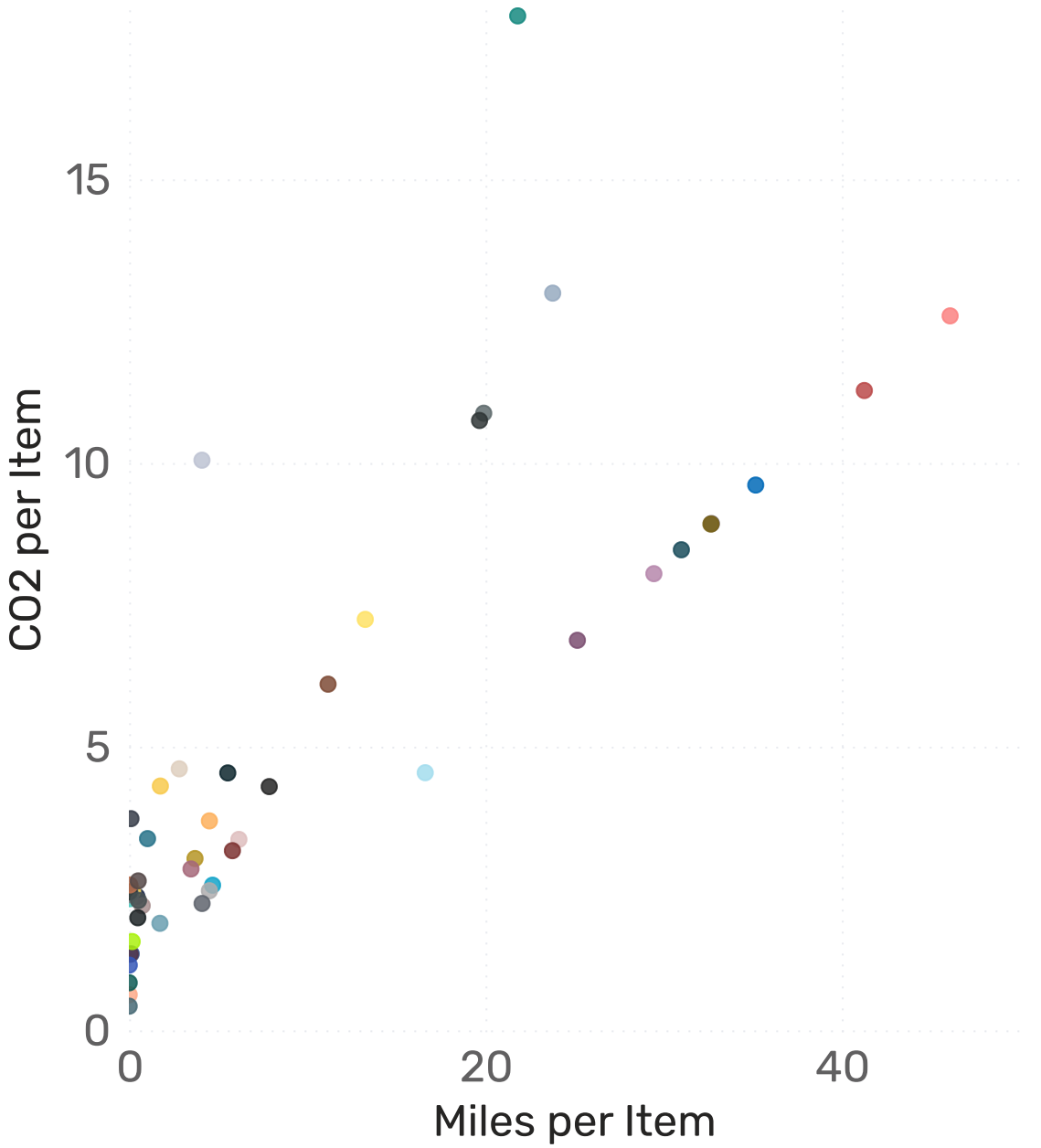
Drive Length by Carbon Savings (kg) per Pharmacy

Pharmacy ... ● FEF... ● FJV... ● FK... ● FW1... ● FW... ▶



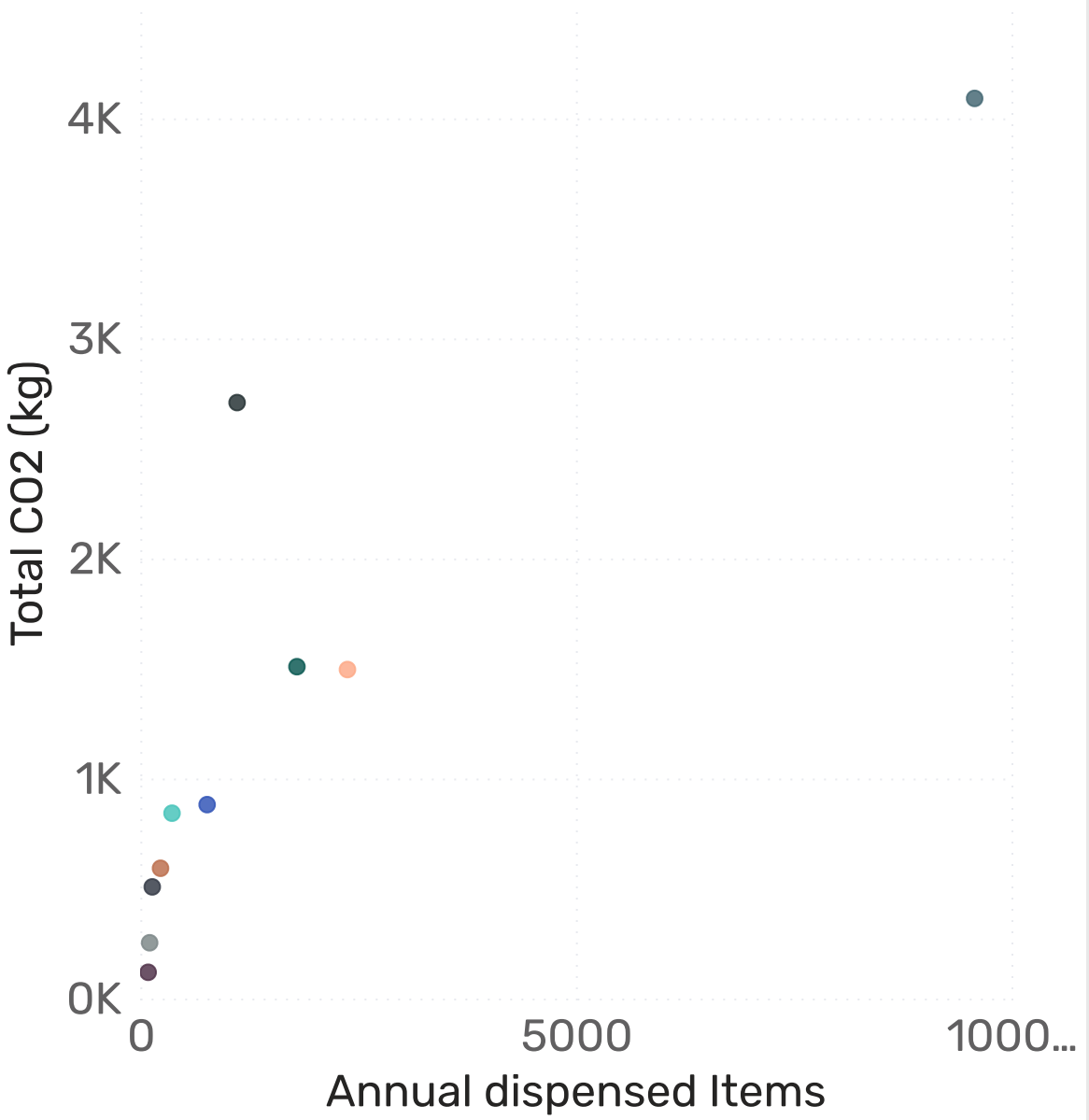
Miles vs Carbon Savings per Item by Pharmacy

Pharmacy... ● FEF... ● FJV... ● FK... ● FW1... ● FW... ▶



Annual dispensed items by Total Carbon Savings per Pharmacy

Pharmacy ● FW... ● FW... ● FW... ● FW... ● FW... ▶



GP to Pharmacy Transport Emissions

Pharmacy Trading Name

All

Pharmacy Code

All

 Clear all slicers

Pharmacy Name	Pharmacy Code	Total Miles	Total kg co2	Annual dispensed items	CO2 per item
Allied Pharmacy Abergele	FEF11	217.42	59.42	44	1.35
Allied Pharmacy Prestatyn	FKW34	141.81	38.76	9	4.31
Allied Pharmacy Rhyl	FJV81	18.73	5.12	2	2.56
Asda Pharmacy	FWE74	3,082.36	842.46	363	2.32
Bodelwyddan Pharmacy	FWN15	2,166.48	592.13	231	2.56
Boots	FWT67	16.37	4.47	2	2.24
Boots	FWR58	35.17	9.61	1	9.61
Boots	FWT65	40.53	11.08	3	3.69
Boots	FWR46	49.81	13.61	3	4.54
Boots	FWV67	101.20	27.66	6	4.61
Boots	FWR49	183.15	50.06	19	2.63
Boots	FWT66	194.83	53.25	34	1.57
Boots	FWR37	436.91	119.42	89	1.34
Boots	FWG59	927.90	253.61	106	2.39
Boots	FWT63	1,856.97	507.54	136	3.73
Boots	FWV63	3,224.79	881.39	766	1.15
Boots	FWH71	9,909.94	2,708.54	1110	2.44
Cohens Chemist	FWG74	16.62	4.54	1	4.54
Cohens Chemist	FWH60	88.47	24.18	11	2.20
Cohens Chemist	FWH18	5,470.88	1,495.28	2377	0.63