

BER Manufacturing Survey

Preliminary Results

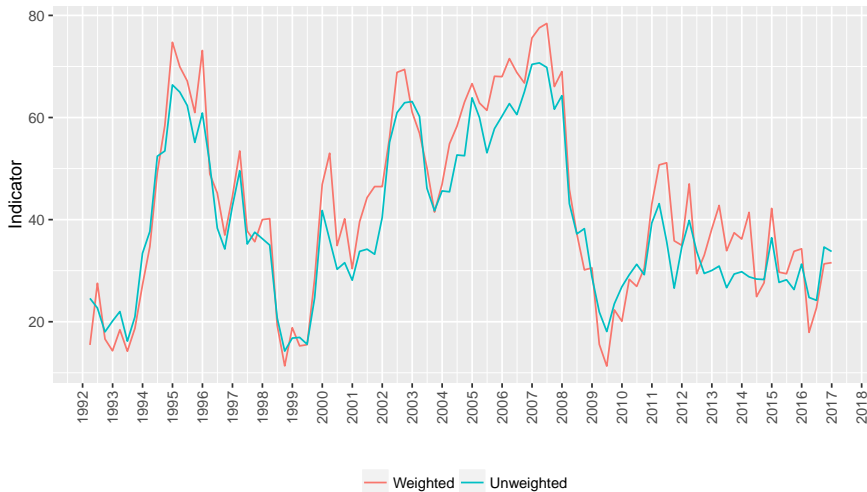
Laurie Binge

12 February 2018

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- 2 **Published Results**
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- 4 **Sectors**
- 5 **Regions**
- 6 **Reference Series**
- 7 **Exports**

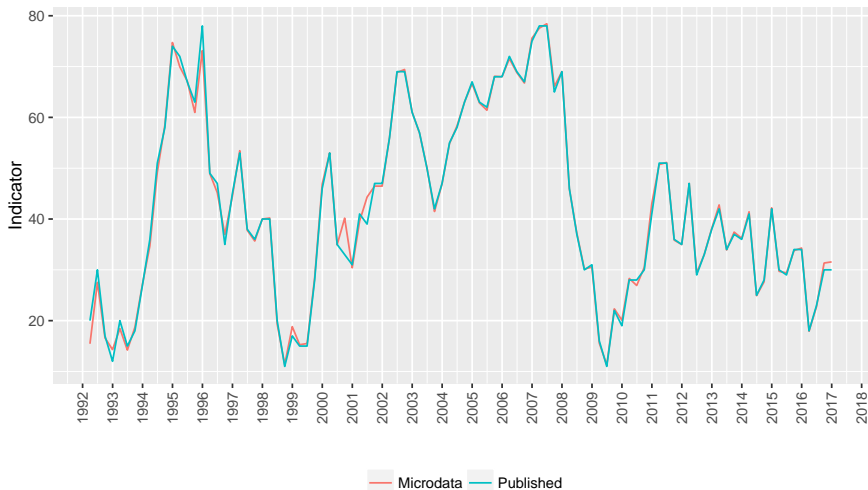
BER Manufacturing Surveys Results

Weighted and Unweighted Results for Q20 (Confidence)

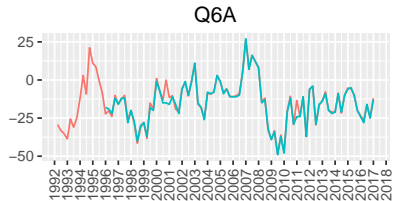
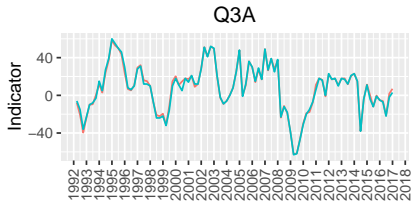
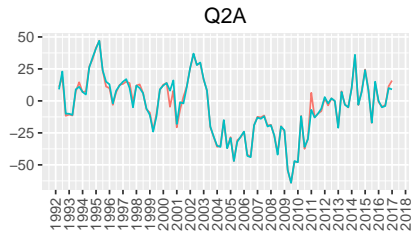
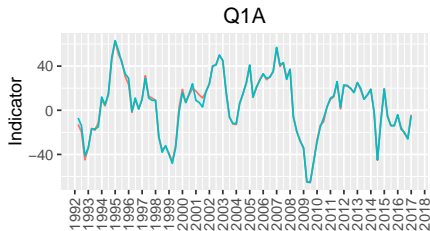


Published Results

Results for Q20 (Confidence)



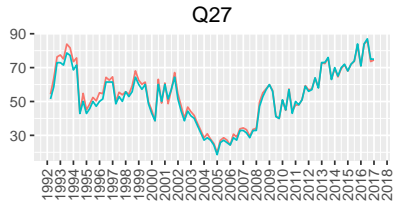
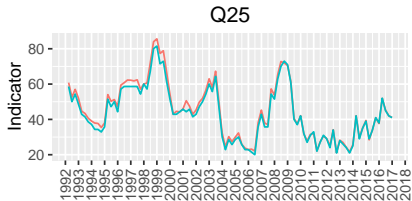
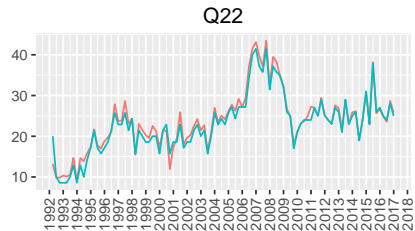
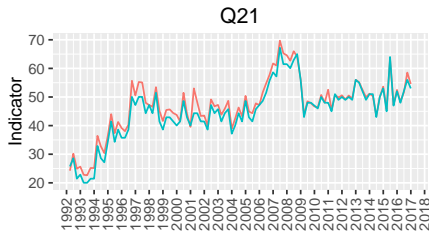
Microdata vs. Published Results



— Microdata — Published

— Microdata — Published

Microdata vs. Published Results (Constraints)

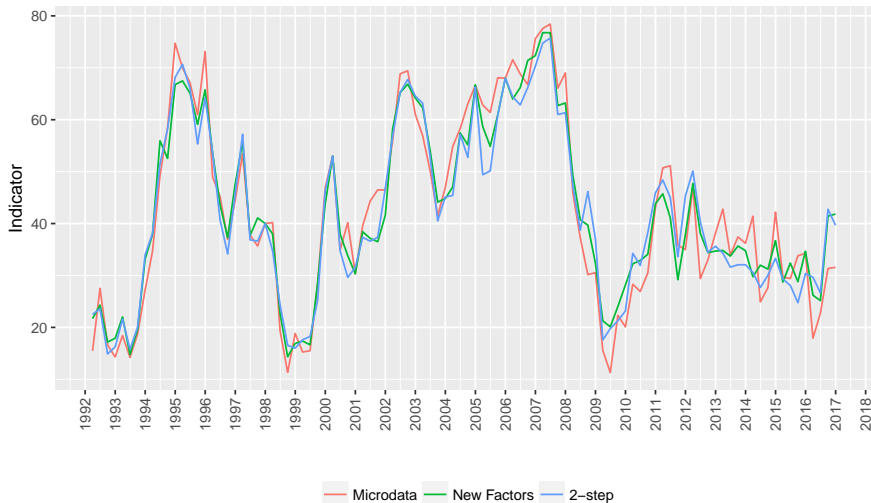


— Microdata — Published

— Microdata — Published

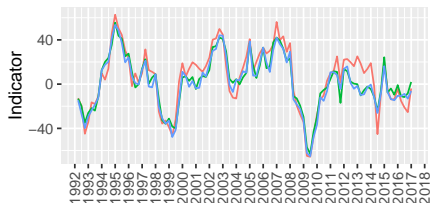
New Weights and Factors

New weights and factors: Q20 (Confidence)

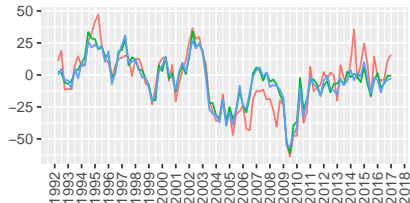


New weights and factors: Other questions

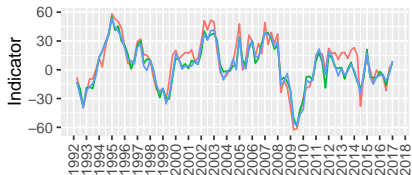
Q1A



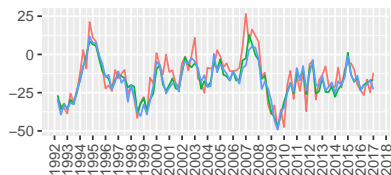
Q2A



Q3A



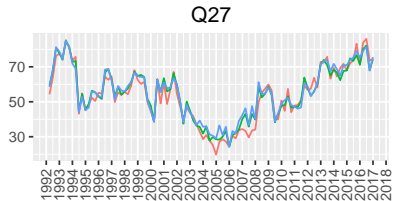
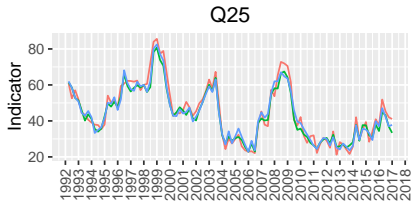
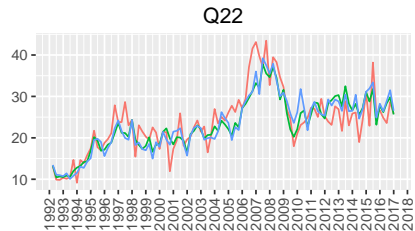
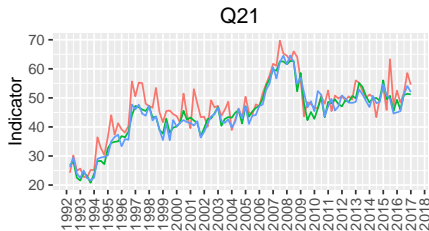
Q6A



— Microdata — New — 2-step

— Microdata — New — 2-step

New weights and factors: Constraints



Microdata New 2-step

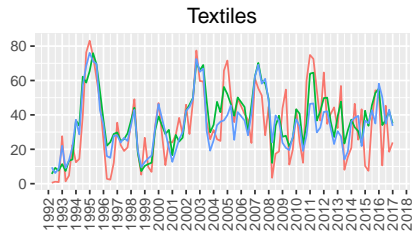
Microdata New 2-step

Sectors

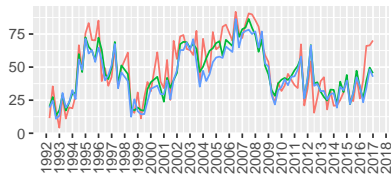
New BER classifications: Q20 (Confidence)



— Microdata — New — 2-step

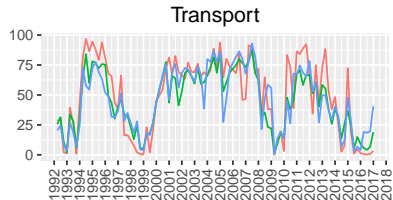
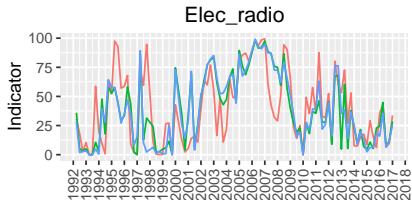
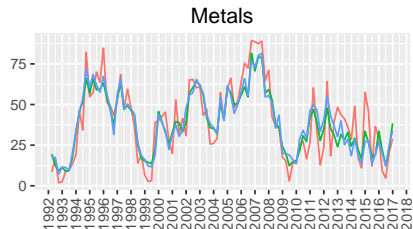
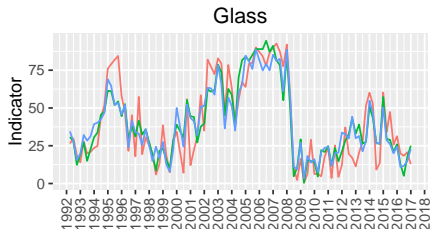


Chemicals



— Microdata — New — 2-step

New BER classifications: Q20 (Confidence)

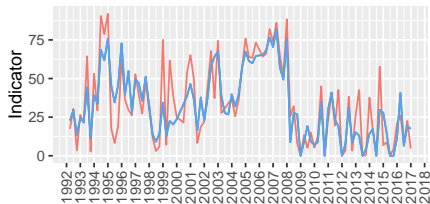


— Microdata — New — 2-step

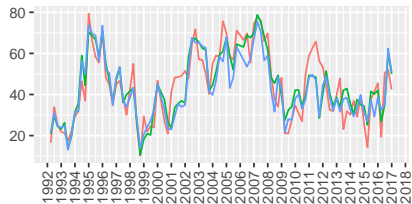
— Microdata — New — 2-step

New BER classifications: Q20 (Confidence)

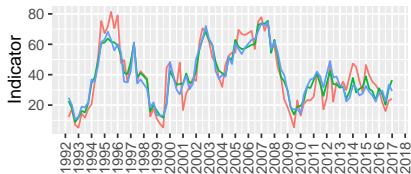
Furniture



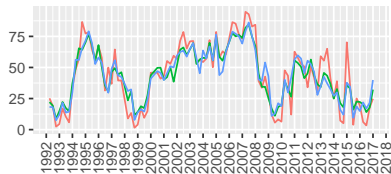
Consumer Goods



Intermediate Goods



Capital Goods

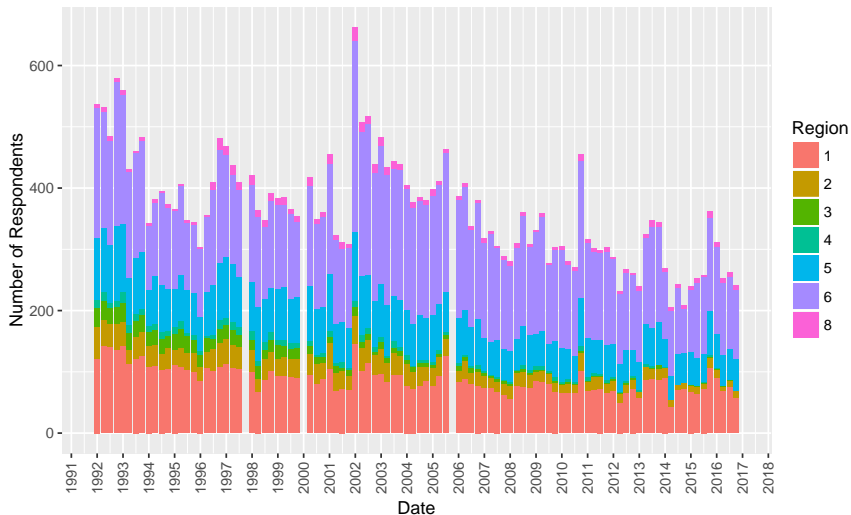


Microdata New 2-step

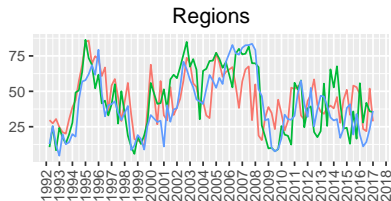
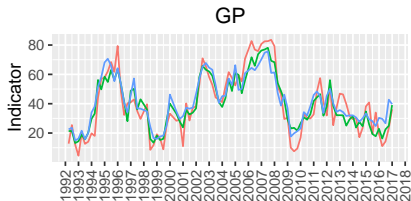
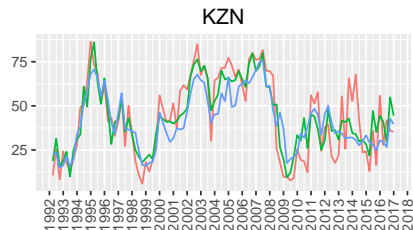
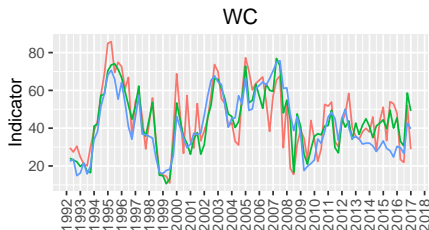
Microdata New 2-step

Regions

Regional Observations



Regional Results for Q20 (Confidence)

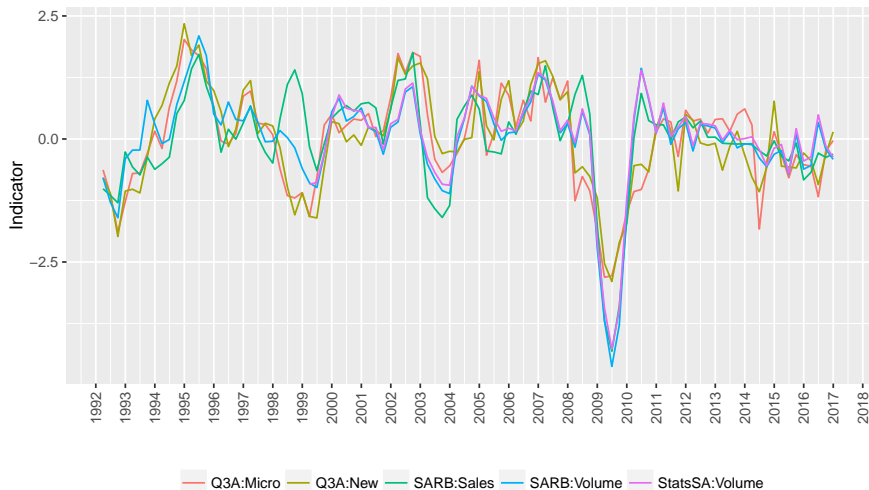


Microdata New 2-step

WC KZN GP

Reference Series

Total Manufacturing Activity



Correlations with reference series

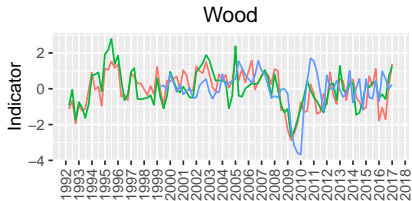
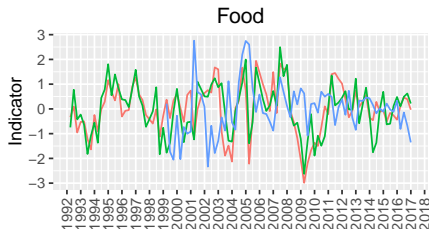
Table 1: Correlations between indicators and reference series

	Q1A	Q1A_u	Q1A_new	Q1A_2s	Q3A	Q3A_u	Q3A_new	Q3A_2s
SARB:Sales	0.62***	0.57***	0.58***	0.59***	0.65***	0.60***	0.61***	0.64***
SARB:Volume	0.72***	0.69***	0.71***	0.70***	0.74***	0.71***	0.72***	0.73***
StatsSA:Volume	0.74***	0.70***	0.72***	0.72***	0.71***	0.70***	0.71***	0.72***

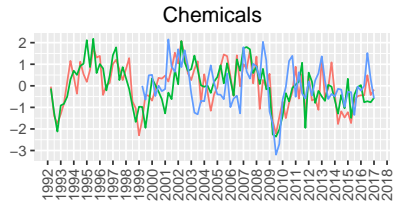
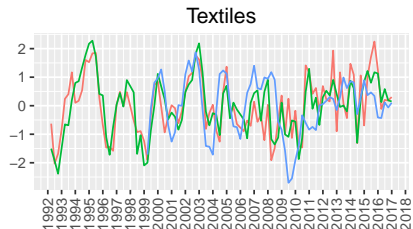
Table 2: Volatility of the indicators

	Q1A	Q1A_u	Q1A_new	Q1A_2s	Q3A	Q3A_u	Q3A_new	Q3A_2s
Volatility	27.18	22.99	23.2	24.45	24.98	21.58	21.71	22.66

Sectoral Manufacturing Activity



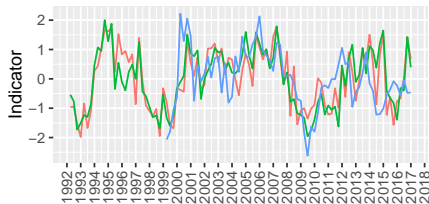
— Microdata — New — StatsSA



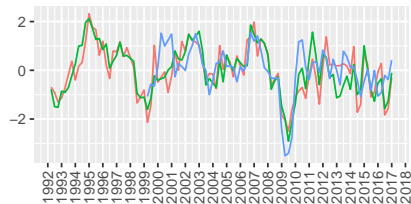
— Microdata — New — StatsSA

Sectoral Manufacturing Activity

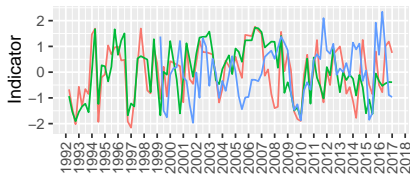
Glass



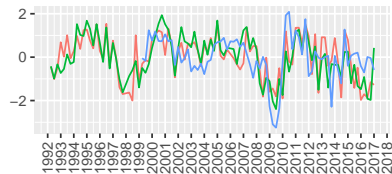
Metals



Elec_Radio



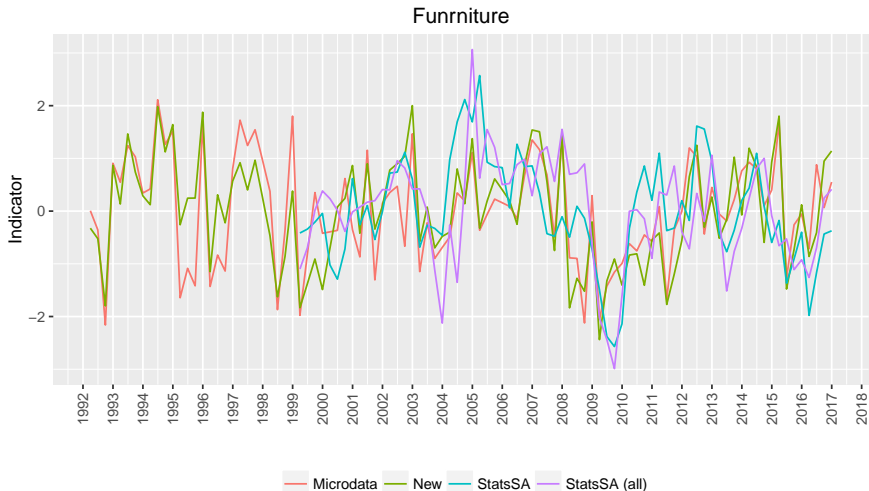
Transport



Microdata New StatsSA

Microdata New StatsSA

Sectoral Manufacturing Activity



Correlations with reference series

Table 3: Correlations between indicators and reference series

	Q1A	Q1A_U	Q1A_New	Q1A_2s	Q3A	Q3A_U	Q3A_New	Q3A_2s
Food	-0.08	0.05	0.02	0.01	-0.14	0.05	0.00	-0.02
Textiles	0.29**	0.63***	0.50***	0.63***	0.30**	0.65***	0.51***	0.62***
Wood	0.41***	0.53***	0.47***	0.45***	0.41***	0.49***	0.42***	0.42***
Chemicals	0.31***	0.30**	0.33***	0.36***	0.37***	0.34***	0.38***	0.41***
Glass	0.57***	0.59***	0.61***	0.60***	0.47***	0.56***	0.55***	0.51***
Metals	0.62***	0.68***	0.69***	0.67***	0.57***	0.69***	0.68***	0.66***
Elec_radio	0.01	0.22*	0.03	0.01	0.04	0.24**	0.07	0.07
Transport	0.43***	0.48***	0.48***	0.50***	0.49***	0.47***	0.48***	0.54***
Furniture	0.45***	0.48***	0.48***	0.54***	0.38***	0.41***	0.39***	0.44***

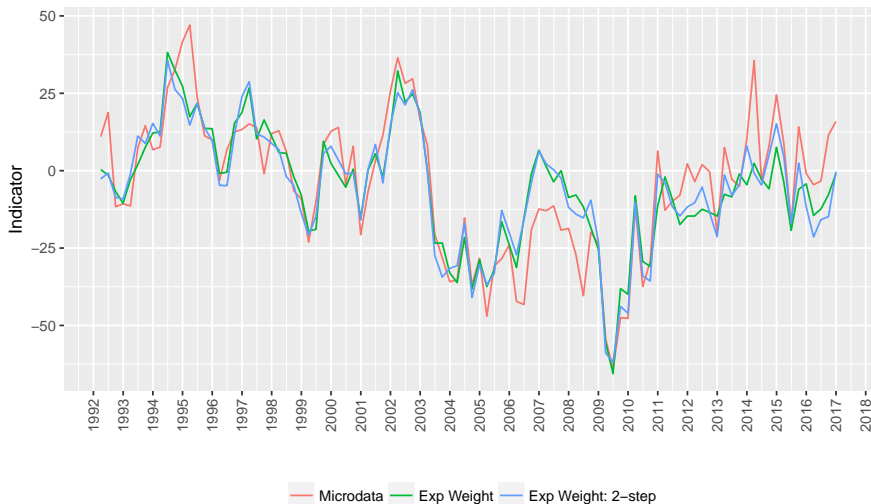
Volatility

Table 4: Volatility of the sectoral series

	Q1A	Q1A_U	Q1A_New	Q1A_2s	Q3A	Q3A_U	Q3A_New	Q3A_2s
Food	35.81	22.77	24.00	26.79	35.76	20.65	23.21	25.05
Textiles	36.12	26.12	26.96	27.43	36.62	26.24	27.25	28.45
Wood	36.86	25.63	25.96	27.93	33.28	24.45	24.67	26.01
Chemicals	32.16	23.39	24.16	24.75	30.83	22.37	22.59	23.04
Glass	46.02	31.72	36.53	34.94	43.94	28.72	32.03	31.08
Metals	37.79	28.06	29.60	30.59	34.96	27.29	28.18	29.36
Elec_radio	50.29	33.03	48.84	48.98	49.30	33.03	49.23	50.63
Transport	55.88	32.70	38.78	43.61	52.29	32.52	38.30	41.92
Furniture	44.71	31.50	35.29	35.01	43.07	30.42	34.10	33.45

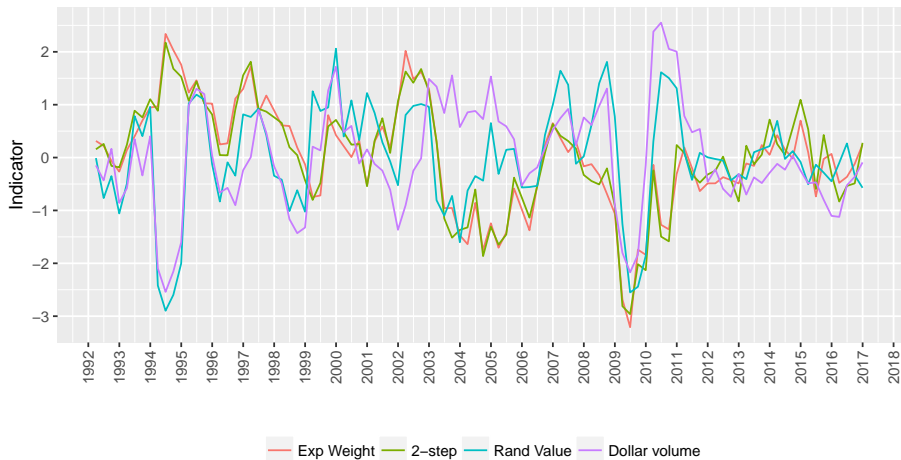
Exports

New Export Series: Q2A



Export Reference Series: Q2A

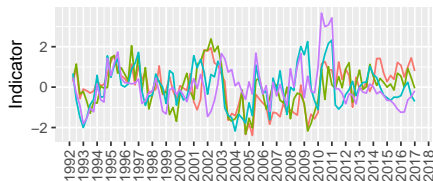
There is unrealistic decrease in the reference series in 1994 (not echoed in the sub-sectors)



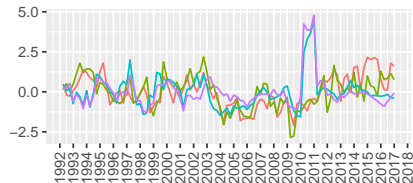
Export Sectors & Reference Series: Q2A

The sectoral reference series also have unrealistic spikes

Food



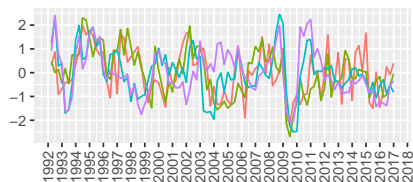
Textiles



Wood



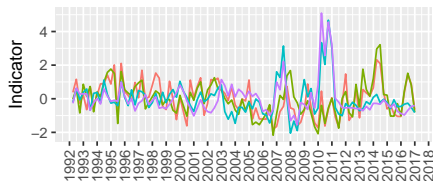
Chemicals



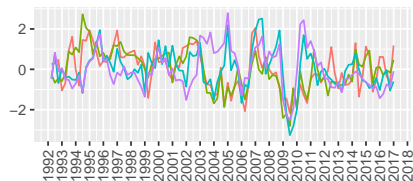
Microdata New Weights Rand value Dollar volume

Export Sectors and Reference Series: Q2A

Glass



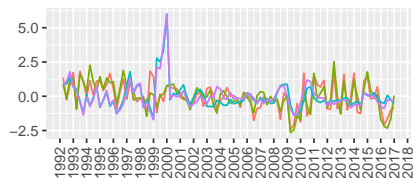
Metals



Elec_Radio



Transport



— Microdata
 — New Weights
 — Rand value
 — Dollar volume

Correlations with reference series

Correlations still improve marginally

Table 5: Correlations between the sectoral and reference series

	Q2A	Q2A_NExp	Q2A_2Exp	Q5A	Q5A_NExp	Q5A_2Exp
Total_Rval	0.13	0.16	0.22**	0.17*	0.20*	0.25**
Total_Dvol	-0.16	-0.12	-0.09	-0.10	-0.06	-0.02
Food_Rval	0.30***	0.36***	0.30***	0.31***	0.36***	0.31***
Food_Dvol	0.07	0.05	-0.01	0.09	0.08	0.04
Text_Rval	0.10	0.18*	0.16	0.10	0.16	0.14
Text_Dvol	-0.06	-0.02	-0.05	-0.08	-0.03	-0.06
Wood_Rval	0.06	0.18*	0.17*	0.08	0.20**	0.21**
Wood_Dvol	0.05	0.10	0.08	0.11	0.15	0.16
Chem_Rval	0.33***	0.37***	0.42***	0.36***	0.39***	0.46***
Chem_Dvol	0.14	0.12	0.15	0.12	0.15	0.18*
Glass_Rval	0.11	0.05	0.13	0.08	0.03	0.08
Glass_Dvol	-0.02	-0.13	-0.02	-0.02	-0.12	-0.04
Metals_Rval	0.31***	0.32***	0.37***	0.41***	0.42***	0.44***
Metals_Dvol	-0.04	0.00	0.04	0.11	0.11	0.14
Elec_Radio_Rval	0.19*	0.29***	0.23**	0.16	0.26***	0.21**
Elec_Radio_Dvol	-0.05	0.12	0.11	-0.01	0.15	0.15
Motor_Rval	0.05	0.14	0.15	0.02	0.09	0.11
Motor_Dvol	0.07	0.13	0.12	0.06	0.10	0.08
Furn_Rval	0.20**	0.18*	0.19*	0.18*	0.12	0.12
Furn_Dvol	0.03	-0.01	-0.01	0.02	-0.05	-0.05