

Volume of Manufacturing Index

1st Quarter 2023



VOLUME OF MANUFACTURING INDEX
1st QUARTER 2023

For more information contact:

Zimbabwe National Statistics Agency
P.O. Box CY 342
Causeway, Harare
Zimbabwe
Telephone: 263-242-706681/8 or 263-242-703971/7
Email: industry@zimstat.co.zw
Website: www.zimstat.co.zw

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1.0 Introduction

This publication presents the Volume of Manufacturing Index (VMI) covering the period 1st quarter 2019 to 1st quarter 2023. VMI is an economic indicator that shows relative changes in the volume of output in the manufacturing sector over time, in relation to a given reference period.

Construction of the VMI is based on administrative data. In order to get volume measures, the turnover was deflated using

Producer Price Indices of the respective sub-sectors. The Laspeyres index formula was used in compilation, using February 2019 as the base period. The index calculation is in line with the United Nations' International Recommendations for the Index of Industrial Production (IRIIP), 2010.

The release further presents year-on-year and quarter-on-quarter changes for the respective manufacturing sub-sectors.

1.1 Volume of Manufacturing Index

The Volume of Manufacturing Index (VMI) for 1st quarter 2023 was **289.5**, reflecting a year-on-year percentage decrease of **14.8** when compared to **339.6** recorded in 1st quarter 2022.

The quarter-on-quarter comparison shows a **42.5** percent decrease in the index from **503.7** recorded in 4th quarter 2022 to **289.5** in 1st quarter 2023. **(Figure 1.1)**

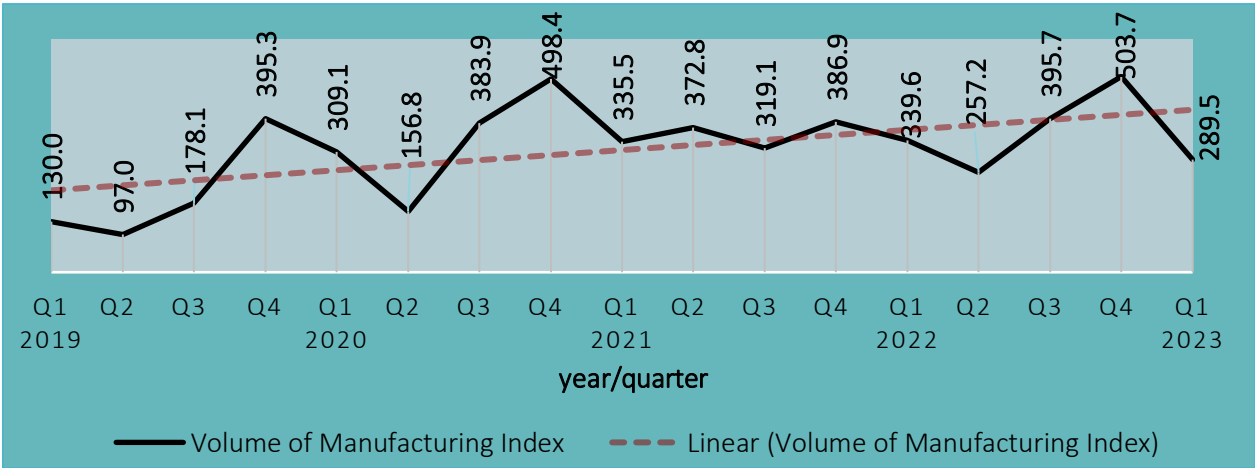


Figure 1.1: Volume of Manufacturing Index, 1st quarter 2019 to 1st quarter 2023

1.2 Indices for Manufacturing Sub-Sectors

Food Stuffs

The output index for food stuffs for 1st quarter 2023 was **390.3**, reflecting a **5.3** percent increase in production when compared to **370.8** for 1st quarter 2022.

The quarter-on-quarter comparison showed a **37.6** percent decrease in the index from **625.2** in 4th quarter 2022 to **390.3** in 1st quarter 2023. **(Figure 1.2)**

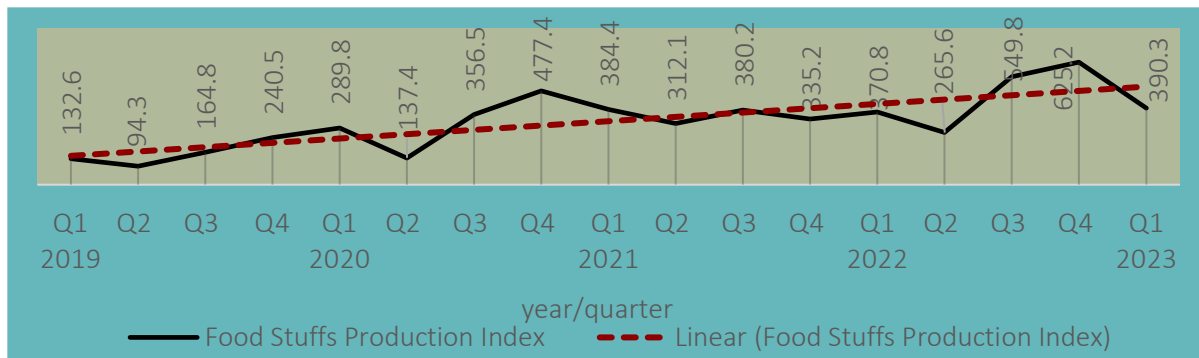


Figure 1.2: Food Stuffs production index, 1st quarter 2019 to 1st quarter 2023

Drinks, Beverages and Tobacco

The Drinks, Beverages and Tobacco production index for 1st quarter 2023 was **221.8**. The year-on-year index decreased by **62.4** percent from **590.5** recorded in 1st quarter 2022.

Quarter-on-quarter analysis shows a **60.3** percent decrease in the index from **558.6** recorded in 4th quarter 2022. **(Figure 1.3)**

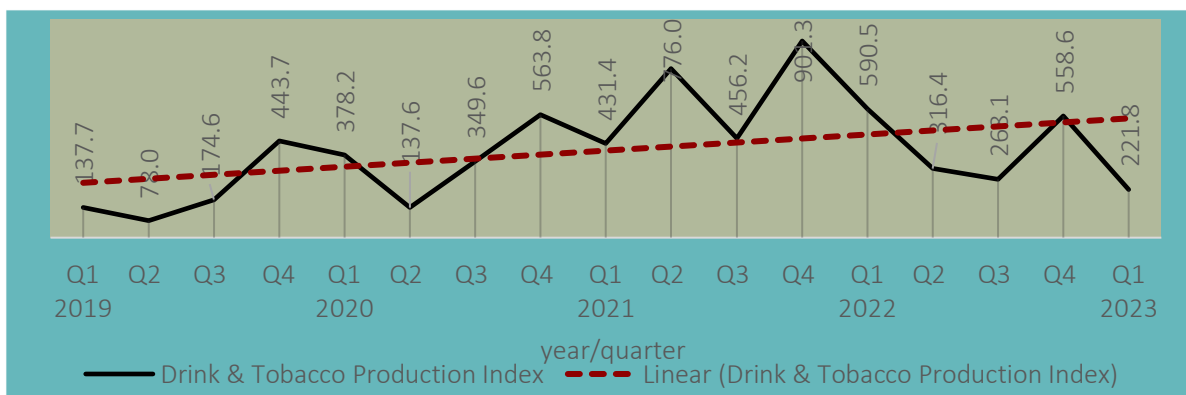


Figure 1.3: Drinks, Beverages and Tobacco production index, 1st quarter 2019 to 1st quarter 2023

Textiles

The textiles sub-sector recorded an output index of **26.5** in 1st quarter 2023 compared to **28.2** in 1st quarter 2022, resulting in a year-on-year percentage decrease in the

index of **6.0**. The quarter-on-quarter percentage change between 4th quarter 2022 and 1st quarter 2023, was **-41.4**. **(Figure 1.4)**

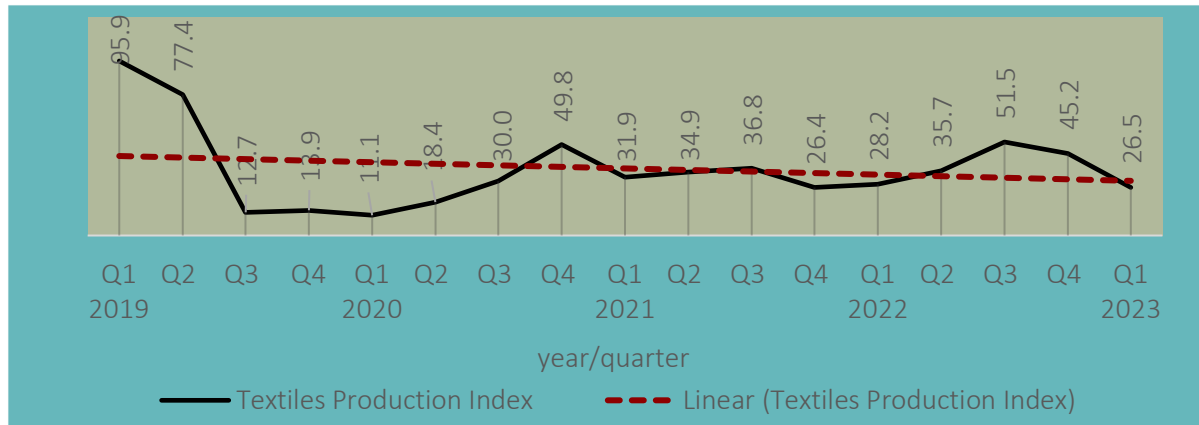


Figure 1.4: Textiles production index, 1st quarter 2019 to 1st quarter 2023

Clothing and Footwear

The 1st quarter 2023 output index for Clothing and Footwear sub-sector was **437.4**, translating to a year-on-year percentage increase of **434.7**. The quarter-

on-quarter output index recorded a percentage decrease of **13.8** when comparing 1st quarter 2023 to 4th quarter 2022. **(Figure 1.5)**



Figure 1.5: Clothing and Footwear index, 1st quarter 2019 to 1st quarter 2023

Paper, Printing and Packaging

The output index for Paper, Printing and Packaging sub-sector was **600.2**, up from **521.2** in 1st quarter 2022, resulting in a year-on year increase in the index of **15.2** percent.

The quarter-on-quarter comparison showed a **1.0** percent increase in the output index.

(Figure 1.6)

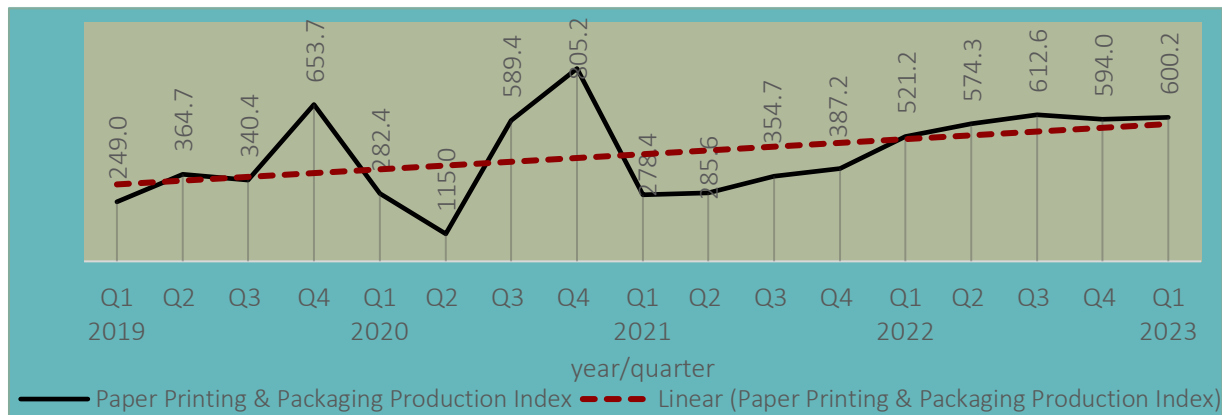


Figure 1.6: Paper, Printing and Packaging index, 1st quarter 2019 to 1st quarter 2023

Chemicals and Petroleum Products

The 1st quarter 2023 output index for chemicals and petroleum products was **231.0**, resulting in a year-on-year percentage increase of **269.6** when compared to **62.5** recorded in 1st quarter

2022. The sub-sector recorded a quarter-on-quarter percentage increase of **5.0** from **220.0** in 4th quarter 2022. **(Figure 1.7)**

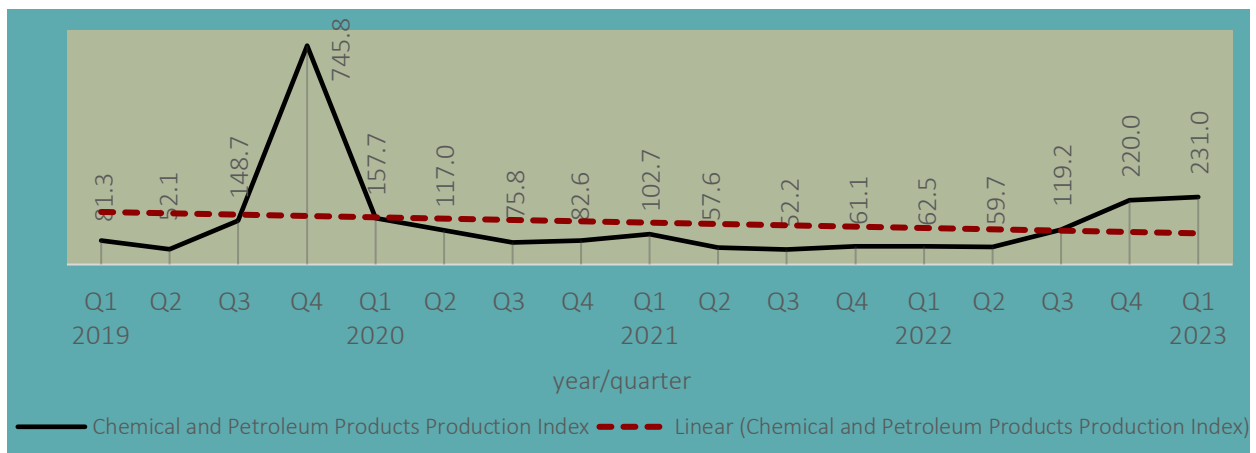


Figure 1.7: Chemicals and Petroleum Products index, 1st quarter 2019 to 1st quarter 2023

Non-Metallic Mineral Products

The index for Non-Metallic Mineral products was **184.7** for 1st quarter 2023, depicting a **33.5** percent year-on-year decrease from **277.6** recorded in 1st quarter 2022. Quarter-

on-quarter comparison showed the index declining by **61.2** percent between 4th quarter 2022 and 1st quarter 2023. **(Figure 1.8)**

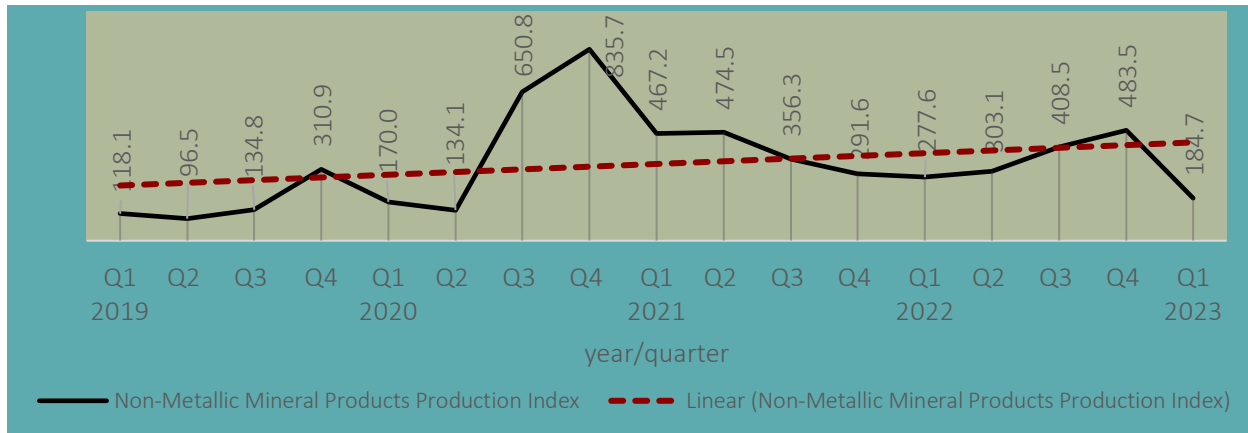


Figure 1.8: Non-Metallic Mineral Products index, 1st quarter 2019 to 1st quarter 2023

Metals and Metal Products

The 1st quarter 2023 production index for Metals and Metal Products was **210.7**, recording a year-on-year percentage decrease of **2.7** in comparison to the 1st

quarter 2022 index of **216.6**. The quarter-on-quarter percentage change in the index when compared to 4th quarter 2022, was **-58.3**. **(Figure 1.9)**

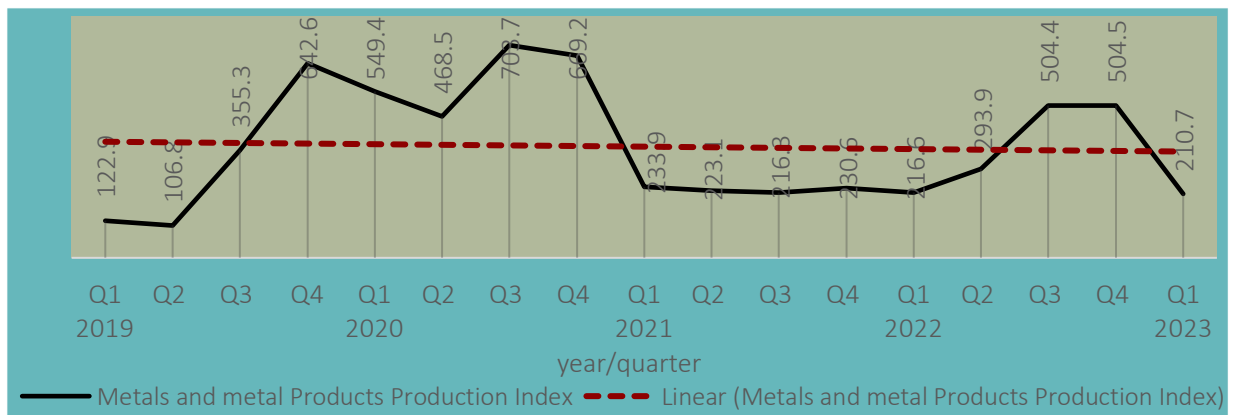


Figure 1.9: Metals and Metal Products index, 1st quarter 2019 to 1st quarter 2023

Transport and Transport equipment

The output index for Transport and Transport equipment sub-sector was **100.4**, up from **99.0** in 1st quarter 2022, resulting in a year-on-year increase in the index of **1.4**

percent. The quarter-on-quarter comparison showed a **70.0** percent decrease in the output index. **(Figure 1.10)**

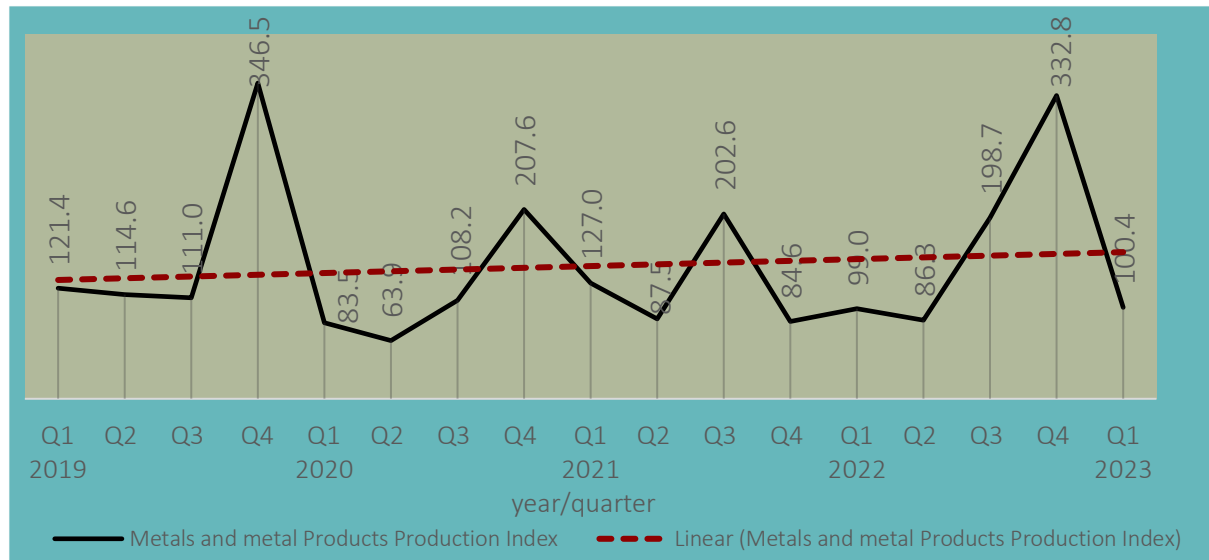


Figure 1.10: Transport and Transport equipment index, 1st quarter 2019 to 1st quarter 2023

Appendix A presents the indices by month while year-on-year and quarter-on-quarter percentage changes are Appendix C and Appendix D, respectively.

Appendix A: Volume of Manufacturing Index by month, February 2019 to March 2023

Name	Food stuffs	Drink & Tobacco	Textiles	Clothing and Footwear	Wood & Furniture	Paper & Printing	Chemicals	Non-metals	Metals & metal products	Transport	Other manufacturing	All Manufacturing
Weights	379.0	199.5	24.6	8.7	8.3	39.8	115.6	116.4	72.2	0.9	35.1	1000.0
Feb-19	100	100	100	100	100	100	100	100	100	100	100	100
Mar-19	165.1	175.5	99.1	167.8	79.6	398.1	62.6	136.2	145.7	142.7	240.9	160.2
Apr-19	88.2	86.3	73.4	105.9	31.5	345.4	51.7	62.9	51.3	176.1	99.6	88.0
May-19	71.6	91.5	62.8	122.2	30.5	315.6	35.6	93.4	100.6	68.4	48.9	84.8
Jun-19	123.2	56.4	102.9	147.3	62.7	433.0	69.2	133.3	168.6	99.2	87.5	118.3
Jul-19	132.8	147.6	17.0	159.0	45.1	348.0	105.8	114.9	509.8	32.4	123.4	162.6
Aug-19	214.2	154.4	17.3	247.9	77.0	306.4	150.9	149.8	236.1	85.2	166.9	185.3
Sept-19	147.3	221.9	11.5	163.7	137.7	366.9	189.4	139.7	319.9	215.2	216.9	186.6
Oct-19	222.8	345.8	21.5	299.1	225.4	589.7	527.9	204.7	524.0	453.5	298.9	315.4
Nov-19	226.9	566.0	16.6	387.1	116.7	844.6	777.4	335.4	532.2	266.2	656.1	427.8
Dec-19	271.9	419.5	28.9	926.5	152.4	526.8	932.2	392.6	871.7	319.8	250.3	443.1
Jan-20	355.5	583.3	20.6	463.8	163.5	416.3	126.7	211.6	635.8	100.1	921.4	391.2
Feb-20	243.7	130.0	12.9	211.0	122.3	202.7	195.1	186.4	441.2	46.1	886.0	236.7
Mar-20	270.2	421.3	16.9	231.7	149.0	228.0	151.2	112.0	571.0	104.5	820.2	299.8
Apr-20	142.4	132.9	54.2	734.3	146.4	193.3	126.0	187.7	589.4	66.2	192.0	176.1
May-20	121.8	138.8	4.9	138.6	36.8	41.0	113.1	16.5	391.9	70.2	36.3	106.7
Jun-20	147.9	141.0	16.1	245.9	165.0	110.6	112.0	198.0	424.3	55.1	203.8	162.2
Jul-20	275.4	280.8	23.4	432.6	212.2	192.1	78.4	309.2	559.7	130.4	310.6	270.6
Aug-20	292.8	310.5	61.3	545.4	273.8	738.9	56.8	888.1	547.8	125.4	519.8	378.7
Sept-20	501.2	457.3	40.9	541.0	300.0	837.1	92.2	755.1	1003.5	68.8	272.5	503.3
Oct-20	461.8	512.8	83.0	428.4	256.7	832.8	90.6	1094.8	724.0	233.4	184.1	515.2
Nov-20	546.8	353.9	38.4	718.5	294.3	748.6	79.6	782.4	610.2	188.1	303.9	472.4
Dec-20	423.6	824.7	51.4	800.1	259.6	834.1	77.6	629.9	673.5	201.3	241.9	508.2
Jan-21	246.0	227.3	52.5	410.3	447.9	218.8	64.3	258.9	164.9	162.4	21.9	206.2
Feb-21	412.3	335.1	36.5	359.6	312.7	261.0	43.3	723.3	154.4	159.1	30.4	341.7
Mar-21	494.8	731.7	63.8	878.2	280.6	355.4	200.4	419.4	382.3	59.6	33.5	460.0
Apr-21	336.9	635.6	69.5	433.5	340.1	362.9	42.1	401.5	218.0	86.9	31.1	345.8

Name	Food stuffs	Drink & Tobacco	Textiles	Clothing and Footwear	Wood & Furniture	Paper & Printing	Chemicals	Non-metals	Metals & metal products	Transport	Other manufacturing	All Manufacturing
May-21	274.3	637.1	29.4	486.0	329.3	250.9	51.3	542.1	214.3	85.2	26.1	334.2
Jun-21	325.2	1055.3	27.0	1043.9	300.9	243.2	79.3	480.0	237.1	90.3	26.3	438.9
Jul-21	296.4	339.4	44.6	185.1	377.1	356.0	53.3	424.0	187.8	177.8	30.5	270.4
Aug-21	432.0	487.1	36.3	101.7	408.5	336.8	49.5	331.5	226.5	293.6	27.9	341.4
Sep-21	412.2	542.2	29.5	181.4	398.3	371.4	53.7	313.5	234.8	136.6	30.8	345.6
Oct-21	398.4	872.1	24.6	222.5	358.1	356.5	58.5	328.5	256.9	61.2	35.3	409.5
Nov-21	300.0	692.8	29.6	288.4	446.0	373.3	56.8	255.7	195.2	84.7	26.9	325.2
Dec-21	307.4	1139.0	24.9	143.7	389.9	431.8	67.9	290.6	239.9	108.0	28.6	426.1
Jan-22	294.7	919.1	24.4	65.4	325.4	444.6	74.5	315.9	206.8	99.9	27.3	378.0
Feb-22	557.3	469.8	30.7	109.6	336.8	503.4	36.1	220.0	241.9	97.9	35.3	378.1
Mar-22	260.5	382.4	29.6	70.4	333.9	615.4	76.8	297.1	201.2	99.4	25.2	262.6
Apr-22	272.0	421.4	38.7	277.3	319.0	685.3	68.1	361.3	248.0	89.5	23.2	289.2
May-22	265.1	282.8	28.6	273.9	295.5	600.6	52.2	254.1	270.2	90.2	29.9	242.6
Jun-22	259.7	245.1	39.8	299.1	330.2	437.0	58.8	293.9	363.4	79.3	38.2	239.7
Jul-22	426.3	180.7	55.4	331.8	477.2	606.8	108.6	338.1	401.5	244.8	72.3	313.6
Aug-22	511.6	317.6	47.7	418.5	371.9	668.2	113.4	391.2	458.3	173.9	82.7	386.5
Sep-22	711.4	306.0	51.4	545.3	538.1	562.7	135.5	496.2	653.4	177.4	78.6	487.0
Oct-22	747.2	781.8	50.1	646.7	609.7	544.0	151.9	593.9	629.2	446.0	81.2	608.1
Nov-22	780.2	553.2	44.5	457.4	585.8	680.5	223.3	557.4	687.4	321.5	108.1	587.5
Dec-22	348.2	340.8	41.0	418.6	587.9	557.5	284.6	299.2	196.8	230.9	47.3	315.5
Jan-23	412.6	258.6	22.8	504.8	543.0	369.9	331.8	285.1	164.4	189.7	69.1	318.2
Feb-23	354.5	185.4	29.6	449.5	371.1	669.1	177.3	152.7	178.8	41.5	43.5	258.4
Mar-23	403.7	221.5	27.2	357.7	387.8	761.7	183.9	116.2	289.0	70.0	52.3	292.0

Appendix B: Volume of Manufacturing Index by Quarter, 1st quarter 2019 to 1st quarter 2023

	Food stuffs	Drink & Tobacco	Textiles	Clothing and Footwear	Wood & Furniture	Paper & Printing	Chemicals	Non- metals	Metals & metal products	Transport	Other manufacturing	All Manufacturing
Weights	378.97	199.52	24.57	8.68	8.31	39.82	115.57	116.41	72.19	0.89	35.08	1000.00
Q1_2019	132.6	137.7	95.9	133.9	89.8	249.0	81.3	118.1	122.9	121.4	170.4	130.0
Q2_2019	94.3	78.0	77.4	125.1	41.6	364.7	52.1	96.5	106.8	114.6	78.7	97.0
Q3_2019	164.8	174.6	12.7	190.2	86.6	340.4	148.7	134.8	355.3	111.0	169.1	178.1
Q4_2019	240.5	443.7	13.9	537.6	164.8	653.7	745.8	310.9	642.6	346.5	401.8	395.3
Q1_2020	289.8	378.2	11.1	302.2	144.9	282.4	157.7	170.0	549.4	83.5	875.9	309.1
Q2_2020	137.4	137.6	18.4	372.9	116.1	115.0	117.0	134.1	468.5	63.9	144.0	156.8
Q3_2020	356.5	349.6	30.0	506.3	262.0	589.4	75.8	650.8	703.7	108.2	367.6	383.9
Q4_2020	477.4	563.8	49.8	649.0	270.2	805.2	82.6	835.7	669.2	207.6	243.3	498.4
Q1_2021	384.4	431.4	31.9	549.4	347.1	278.4	102.7	467.2	233.9	127.0	28.6	335.5
Q2_2021	312.1	776.0	34.9	654.5	323.4	285.6	57.6	474.5	223.1	87.5	27.8	372.8
Q3_2021	380.2	456.2	36.8	156.1	394.6	354.7	52.2	356.3	216.3	202.6	29.8	319.1
Q4_2021	335.2	901.3	26.4	218.2	398.0	387.2	61.1	291.6	230.6	84.6	30.3	386.9
Q1_2022	370.8	590.5	28.2	81.8	332.0	521.2	62.5	277.6	216.6	99.0	29.2	339.6
Q2_2022	265.6	316.4	35.7	283.4	314.9	574.3	59.7	303.1	293.9	86.3	30.4	257.2
Q3_2022	549.8	268.1	51.5	431.9	462.4	612.6	119.2	408.5	504.4	198.7	77.9	395.7
Q4_2022	625.2	558.6	45.2	507.6	594.4	594.0	220.0	483.5	504.5	332.8	78.9	503.7
Q1_2023	390.3	221.8	26.5	437.4	433.9	600.2	231.0	184.7	210.7	100.4	55.0	289.5

Appendix C: Year-on-Year percentage change, 1st quarter 2020 to 1st quarter 2023

	Food stuffs	Drink & Tobacco	Textiles	Clothing and Footwear	Wood & Furniture	Paper & Printing	Chemicals	Non-metals	Metals & metal products	Transport	Other manufacturing	All Manufacturing
Weights												
Q1_2019	-	-	-	-	-	-	-	-	-	-	-	-
Q2_2019	-	-	-	-	-	-	-	-	-	-	-	-
Q3_2019	-	-	-	-	-	-	-	-	-	-	-	-
Q4_2019	-	-	-	-	-	-	-	-	-	-	-	-
Q1_2020	118.6	174.6	-88.4	125.7	61.4	13.4	93.9	44.0	347.2	-31.2	413.9	137.8
Q2_2020	45.6	76.3	-76.2	198.0	179.4	-68.5	124.5	38.9	338.6	-44.3	83.1	61.6
Q3_2020	116.3	100.2	135.1	166.2	202.5	73.1	-49.0	382.9	98.1	-2.5	117.4	115.6
Q4_2020	98.5	27.1	259.6	20.7	63.9	23.2	-88.9	168.8	4.1	-40.1	-39.4	26.1
Q1_2021	32.6	14.1	186.0	81.8	139.5	-1.4	-34.9	174.8	-57.4	52.0	-96.7	8.5
Q2_2021	127.2	464.1	89.7	75.5	178.6	148.4	-50.8	253.9	-52.4	37.0	-80.7	137.7
Q3_2021	6.7	30.5	22.9	-69.2	50.6	-39.8	-31.2	-45.2	-69.3	87.3	-91.9	-16.9
Q4_2021	-29.8	59.9	-47.1	-66.4	47.3	-51.9	-26.1	-65.1	-65.5	-59.2	-87.6	-22.4
Q1_2022	-3.5	36.9	-11.4	-85.1	-4.3	87.2	-39.2	-40.6	-7.4	-22.0	2.3	1.2
Q2_2022	-14.9	-59.2	2.3	-56.7	-2.6	101.1	3.7	-36.1	31.7	-1.3	9.4	-31.0
Q3_2022	44.6	-41.2	39.9	176.7	17.2	72.7	128.5	14.6	133.1	-1.9	161.6	24.0
Q4_2022	86.5	-38.0	71.5	132.6	49.4	53.4	260.3	65.8	118.7	293.1	160.4	30.2
Q1_2023	5.2	-62.4	-6.1	434.6	30.7	15.2	269.7	-33.5	-2.7	1.4	88.1	-14.7

Appendix D: Quarter-on-Quarter percentage change, 2nd quarter 2019 to 1st quarter 2023

	Food stuffs	Drink & Tobacco	Textiles	Clothing and Footwear	Wood & Furniture	Paper & Printing	Chemicals	Non-metals	Metals & metal products	Transport	Other manufacturing	All Manufacturing
Weights	379.0	199.5	24.6	8.7	8.3	39.8	115.6	116.4	72.2	0.9	35.1	1000.0
Q1_2019	-	-	-	-	-	-	-	-	-	-	-	-
Q2_2019	-28.8	-43.3	-19.3	-6.5	-53.7	46.4	-35.9	-18.3	-13.0	-5.6	-53.8	-25.4
Q3_2019	74.7	123.8	-83.5	52.0	108.4	-6.6	185.2	39.6	232.6	-3.2	114.9	83.6
Q4_2019	46.0	154.1	8.8	182.6	90.3	92.0	401.6	130.7	80.9	212.3	137.6	122.0
Q1_2020	20.5	-14.8	-19.6	-43.8	-12.1	-56.8	-78.9	-45.3	-14.5	-75.9	118.0	-21.8
Q2_2020	-52.6	-63.6	65.1	23.4	-19.9	-59.3	-25.8	-21.1	-14.7	-23.6	-83.6	-49.3
Q3_2020	159.5	154.1	62.8	35.8	125.7	412.6	-35.2	385.4	50.2	69.4	155.3	144.8
Q4_2020	33.9	61.3	66.3	28.2	3.1	36.6	9.0	28.4	-4.9	91.9	-33.8	29.8
Q1_2021	-19.5	-23.5	-36.0	-15.3	28.4	-65.4	24.3	-44.1	-65.1	-38.8	-88.3	-32.7
Q2_2021	-18.8	79.9	9.5	19.1	-6.8	2.6	-43.9	1.6	-4.6	-31.1	-2.6	11.1
Q3_2021	21.8	-41.2	5.5	-76.1	22.0	24.2	-9.4	-24.9	-3.0	131.7	6.9	-14.4
Q4_2021	-11.8	97.6	-28.4	39.8	0.8	9.2	17.1	-18.2	6.6	-58.2	1.7	21.2
Q1_2022	10.6	-34.5	7.1	-62.5	-16.6	34.6	2.3	-4.8	-6.1	17.0	-3.5	-12.2
Q2_2022	-28.4	-46.4	26.4	246.4	-5.2	10.2	-4.5	9.2	35.7	-12.8	4.1	-24.3
Q3_2022	107.0	-15.3	44.3	52.4	46.8	6.7	99.6	34.8	71.6	130.1	155.8	53.9
Q4_2022	13.7	108.3	-12.2	17.5	28.6	-3.0	84.6	18.4	0.0	67.5	1.3	27.3
Q1_2023	-37.6	-60.3	-41.3	-13.8	-27.0	1.0	5.0	-61.8	-58.2	-69.8	-30.3	-42.5