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JABATAN PERANGKAAN MALAYSIA

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# INDEKS VOLUM PERDAGANGAN BORONG & RUNCIT SUKU TAHUNAN

QUARTERLY VOLUME INDEX  
OF WHOLESALE & RETAIL TRADE

SUKU TAHUN KEEMPAT  
FOURTH QUARTER  
**2022**

JABATAN PERANGKAAN MALAYSIA  
DEPARTMENT OF STATISTICS MALAYSIA





**KEMENTERIAN EKONOMI  
JABATAN PERANGKAAN MALAYSIA**

**INDEKS VOLUM PERDAGANGAN BORONG &  
RUNCIT SUKU TAHUNAN**

**QUARTERLY VOLUME INDEX OF WHOLESALE & RETAIL  
TRADE**

**(2015=100)**

**SUKU TAHUN KEEMPAT 2022**

*FOURTH QUARTER 2022*

**Dikeluarkan pada : 8 Februari 2023**

*Released on : 8 February 2023*

**Pemakluman**

Jabatan Perangkaan Malaysia (DOSM) akan menjalankan Banci Ekonomi pada tahun 2023. DOSM amat menghargai kerjasama daripada responden untuk memberikan maklumat kepada DOSM serta menjayakan banci ini. Sila layari [www.dosm.gov.my](http://www.dosm.gov.my) untuk maklumat lanjut.

DOSM telah melancarkan OpenDOSM NextGen sebagai platform yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai jenis data. OpenDOSM NextGen ialah medium perkongsian data sumber terbuka dan boleh diakses melalui portal <https://open.dosm.gov.my>.

Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah "Connecting the World with Data We Can Trust".

**Announcement**

*The Department of Statistics Malaysia (DOSM) will conduct the Economic Census in 2023. DOSM greatly appreciates the cooperation from respondents to provide information with DOSM and make this census a success. Please visit [www.dosm.gov.my](http://www.dosm.gov.my) for more information.*

*DOSM has launched OpenDOSM NextGen as a platform that provides a catalogue of data and visualisation that facilitates users in analysing various types of data. OpenDOSM NextGen is an open source data sharing medium and accessible through <https://open.dosm.gov.my> portal.*

*Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20 each year. MyStats Day theme is "Connecting the World with Data We Can Trust".*

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## KATA PENGANTAR

Penerbitan ini memaparkan **Indeks Volum Perdagangan Borong & Runcit bagi Suku Tahun Keempat 2022** meliputi subsektor Kenderaan Bermotor, Perdagangan Borong dan Perdagangan Runcit. Indeks ini telah disusun buat pertama kali dengan menggunakan tahun 2008 sebagai tahun asas (2008=100). Bermula suku tahun pertama 2014, ianya telah diasaskan semula kepada tahun 2010 dan seterusnya, pada suku tahun kedua 2019, ia telah menggunakan tahun asas 2015. Indeks ini disusun secara suku tahunan dan menggunakan klasifikasi industri yang terperinci berdasarkan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008, Ver. 1.0 yang selari dengan *International Standard Industrial Classification of All Economic Activities Revision 4*, yang diterbitkan oleh *United Nations Statistics Division*.

Penerbitan ini mengandungi ringkasan penemuan utama, jadual terperinci dan nota teknikal yang menjelaskan aspek sumber data, metodologi dan konsep yang digunakan bagi meningkatkan kefahaman berkenaan data.

Jabatan ingin merakamkan setinggi-tinggi penghargaan atas kerjasama semua pihak dalam membekalkan data yang diperlukan. Cadangan dan pandangan ke arah memperbaiki lagi penerbitan ini pada masa hadapan amatlah dihargai.

**DATO' SRI DR. MOHD UZIR MAHIDIN**

Ketua Perangkawan Malaysia

**Februari 2023**

## **PREFACE**

*This publication highlights the **Volume Index of Wholesale & Retail Trade for The Fourth Quarter 2022** encompassing the Motor Vehicles, Wholesale Trade and Retail Trade sub-sectors. This index was compiled for the first time using 2008 as the base year (2008=100). Beginning in first quarter 2014, it has been rebased to 2010 and subsequently, in second quarter 2019, 2015 as the base year has been implemented. This index is published on a quarterly basis and uses the detailed classification of industries in the Malaysia Standard Industrial Classification (MSIC) 2008, Ver. 1.0 which is in line with the International Standard Industrial Classification of All Economic Activities Revision 4, published by the United Nations Statistics Division.*

*This publication consists summary of the main findings, detailed tables and technical notes which describes data sources, methodology and concepts used to enhance the understanding of data.*

*The Department gratefully acknowledges the co-operation of all parties concerned in providing the required data. Comments and suggestions towards improving future reports are greatly appreciated.*

**DATO' SRI DR. MOHD UZIR MAHIDIN**

*Chief Statistician Malaysia*

**February 2023**



# KALENDAR AWALAN KELUARAN 2023 INDEKS VOLUM PERDAGANGAN BORONG & RUNCIT SUKU TAHUNAN

## ADVANCE RELEASE CALENDAR YEAR 2023 QUARTERLY VOLUME INDEX OF WHOLESALE & RETAIL TRADE

---

<b>Suku tahun rujukan</b> <i>Reference quarter</i>	<b>Tarikh</b> <i>Date</i>
<b>Suku Keempat 2022</b> <i>Fourth quarter 2022</i>	<b>8 Februari 2023</b> <i>8 February 2023</i>
<b>Suku Pertama 2023</b> <i>First quarter 2023</i>	<b>10 Mei 2023</b> <i>10 May 2023</i>
<b>Suku Kedua 2023</b> <i>Second quarter 2023</i>	<b>9 Ogos 2023</b> <i>9 August 2023</i>
<b>Suku Ketiga 2023</b> <i>Third quarter 2023</i>	<b>9 November 2023</b> <i>9 November 2023</i>

---

**Nota.**

Merujuk kepada tarikh data disebarikan kepada media atau dalam penerbitan khusus.  
Tarikh siaran tertakluk kepada pindaan.

**Note.**

Refers to the date of release of the data to the media or in the specific publication.  
Release dates are subject to change.

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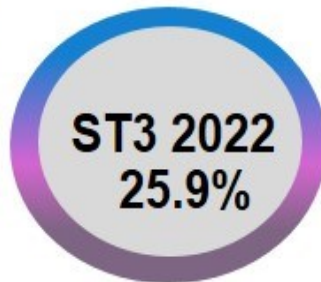
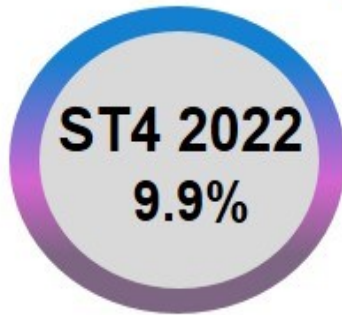
**SEPINTAS LALU**  
*SNAPSHOTS*

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## INDEKS VOLUM PERDAGANGAN BORONG & RUNCIT SUKU TAHUN KEEMPAT 2022

Indeks Volum Perdagangan Borong & Runcit Malaysia merekodkan pertumbuhan 9.9 peratus pada suku tahun keempat 2022



Indeks Volum Pelarasan Musim merosot -1.8% berbanding suku tahun sebelumnya

### Perdagangan Borong 0.9%



13.7%

Jualan Borong Bahan Mentah Pertanian & Haiwan Hidup

11.7%

Jual Borong Berdasarkan Kontrak atau Yuran

### Perdagangan Runcit 19.3%



35.7%

Jualan Runcit di Kedai Khusus yang Menjual Bahan Api Kenderaan

32.9%

Jualan Runcit di Kedai Khusus yang Menjual Barangan Lain

### Kenderaan Bermotor 7.0%



29.2%

Jualan Komponen & Aksesori Kenderaan Bermotor

25.6%

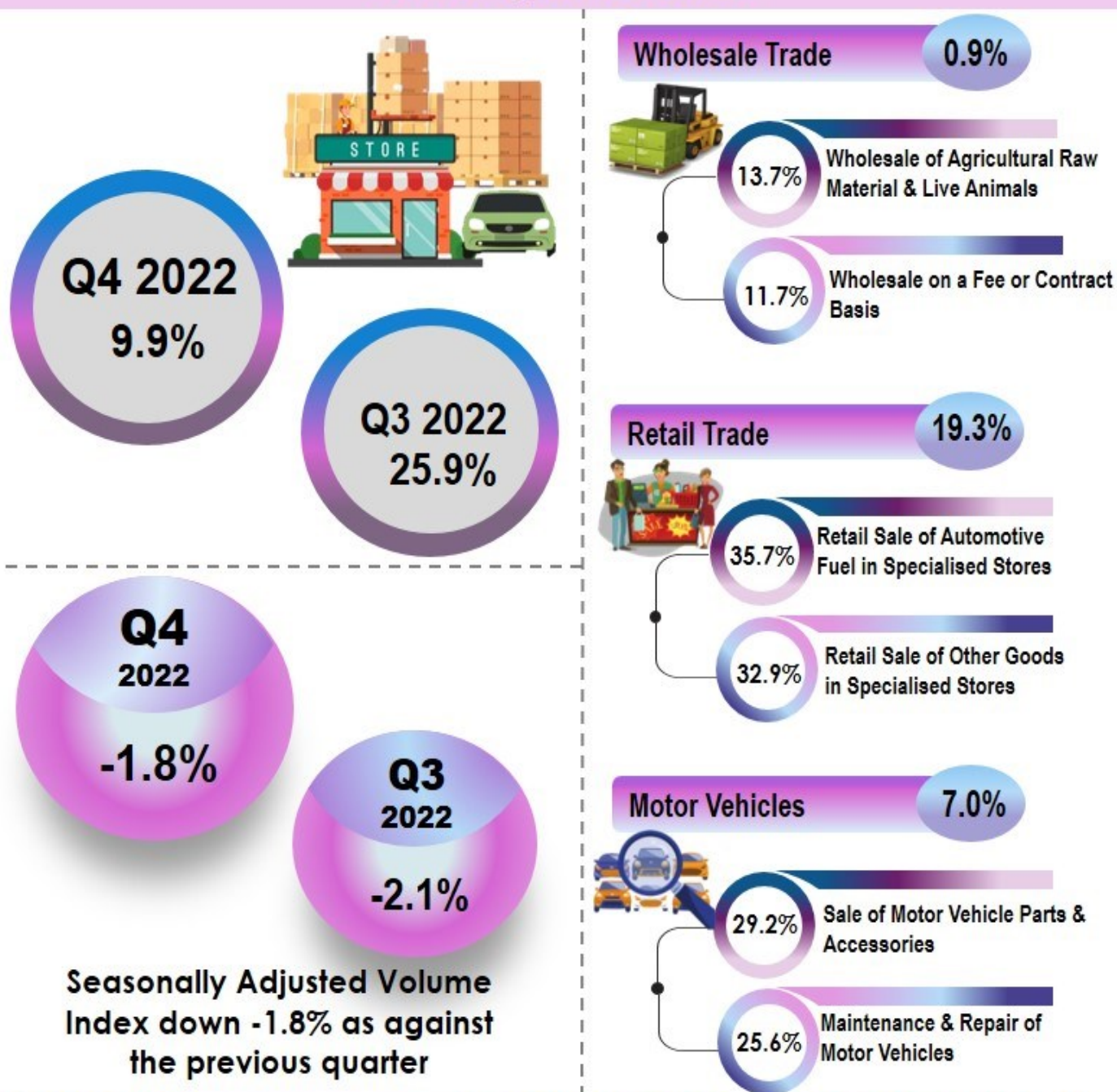
Penyelenggaraan & Pembaikan Kenderaan Bermotor





## VOLUME INDEX OF WHOLESALE & RETAIL TRADE FOURTH QUARTER 2022

### Volume Index of Wholesale & Retail Trade Malaysia registered a growth of 9.9 per cent in fourth quarter 2022









**RINGKASAN PENEMUAN**  
*SUMMARY OF FINDINGS*

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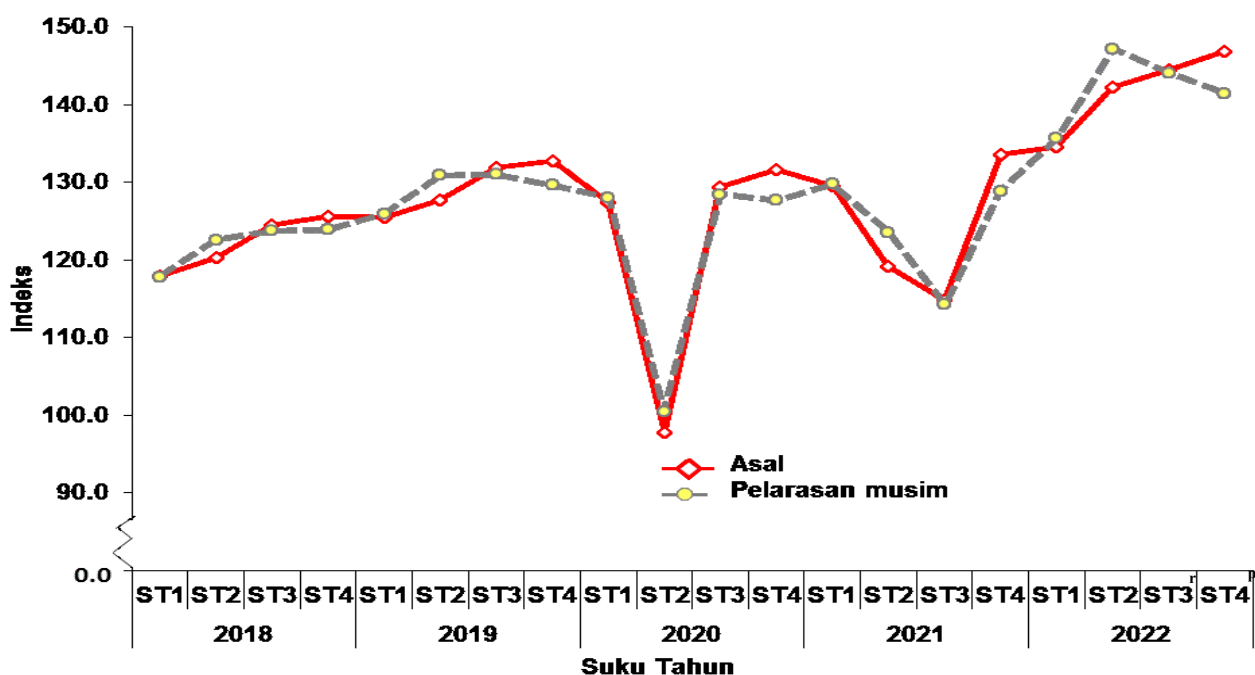
# RINGKASAN PENEMUAN

Subsektor (2015=100)	Indeks			
	Asal	% Perubahan YoY	Pelarasan Musim	% Perubahan QoQ
 Indeks Volum Perdagangan Borong & Runcit	146.9	9.9	141.5	-1.8
 Indeks Volum Perdagangan Borong	132.4	0.9	128.0	-2.0
 Indeks Volum Perdagangan Runcit	170.1	19.3	165.0	-0.1
 Indeks Volum Kenderaan Bermotor	124.2	7.0	116.9	1.2

Pada suku tahun keempat 2022, indeks volum Perdagangan Borong & Runcit mencatatkan pertumbuhan **9.9 peratus** untuk mencapai **146.9 mata** berbanding suku tahun yang sama setahun lalu, menjadikan pertumbuhan keseluruhan 2022 kepada **14.3 peratus** berbanding tahun 2021. Pertumbuhan suku tahunan yang positif ini disumbangkan oleh subsektor Perdagangan Runcit dan Kenderaan Bermotor yang masing-masing merekodkan pertumbuhan **19.3 peratus** dan **7.0 peratus**, diikuti oleh Perdagangan Borong yang meningkat **0.9 peratus** pada tempoh yang sama. Sementara itu, bagi perbandingan antara suku tahun sebelumnya, indeks volum Perdagangan Borong & Runcit juga meningkat **1.6 peratus**.

Indeks volum pelarasan musim Perdagangan Borong & Runcit merosot **-1.8 peratus** berbanding suku tahun ketiga 2022, disebabkan oleh Perdagangan Borong dan Perdagangan Runcit yang merekodkan masing-masing **-2.0 peratus** dan **-0.1 peratus**.

**Carta 1: Indeks Volum Perdagangan Borong & Runcit, ST1 2018 - ST4 2022**

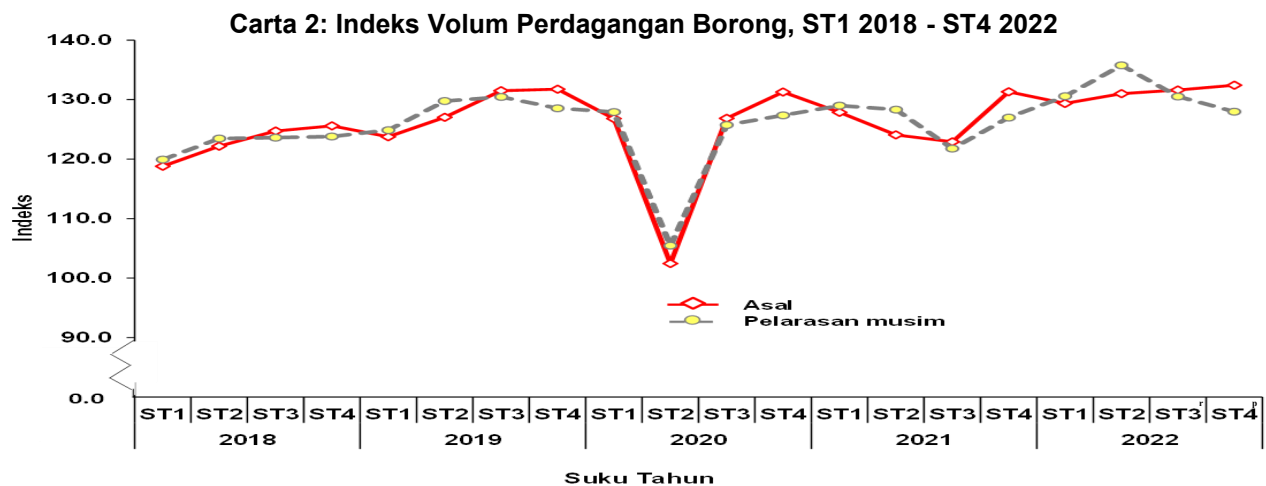


# PRESTASI MENGIKUT SUBSEKTOR

## SUBSEKTOR PERDAGANGAN BORONG

Indeks volum subsektor Perdagangan Borong meningkat **0.9 peratus** kepada 132.4 mata pada suku tahun keempat 2022 berbanding suku tahun sama 2021. Peningkatan ini didorong oleh Jualan Borong Bahan Mentah Pertanian & haiwan Hidup dengan **13.7 peratus**, diikuti oleh Jualan Borong Berdasarkan Kontrak atau Yuran yang merekodkan kenaikan **11.7 peratus**. Bagi pertumbuhan suku tahunan, indeks volum Perdagangan Borong meningkat **0.6 peratus**.

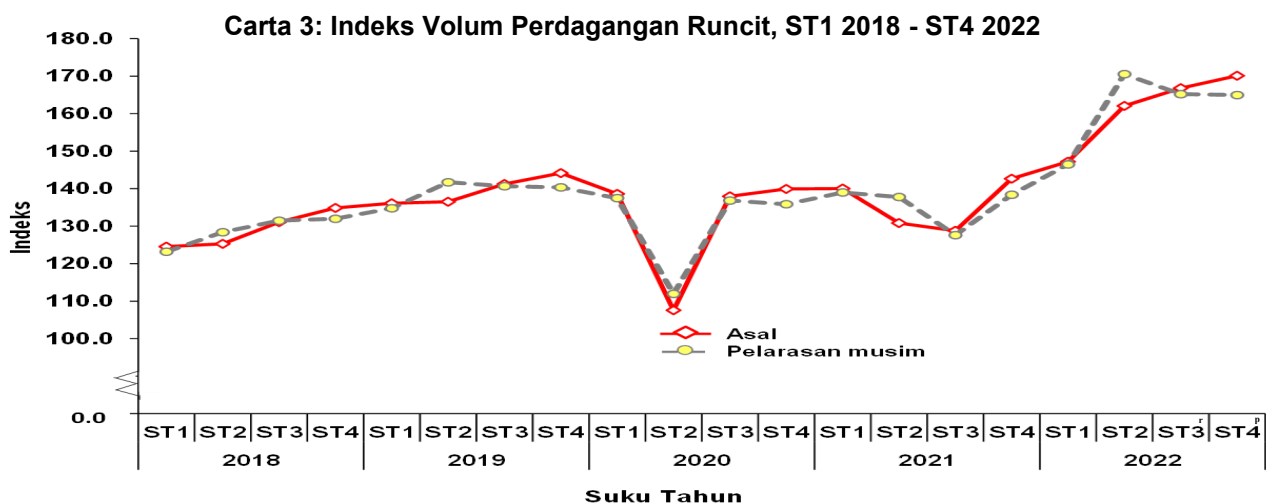
Bagi indeks volum pelarasan musim, Perdagangan Borong menguncup **-2.0 peratus** berbanding suku tahun sebelumnya.



## SUBSEKTOR PERDAGANGAN RUNCIT

Bagi suku tahun keempat 2022, Perdagangan Runcit merekodkan pertumbuhan positif **19.3 peratus** kepada **170.1 mata** berbanding suku tahun yang sama tahun sebelumnya. Pertumbuhan ini dapat dilihat pada Jualan Runcit di Kedai Khusus yang Menjual Bahan Api Kenderaan (**35.7%**), Jualan Runcit di Kedai Khusus yang Menjual Barangan Lain (**32.9%**) dan Jualan Runcit di Kedai Bukan Pengkhususan (**22.0%**). Bagi perbandingan suku tahun ke suku tahun, indeks volum subsektor ini meningkat **2.0 peratus**.

Pada tempoh yang sama, indeks volum pelarasan musim Perdagangan Runcit turun **-0.1 peratus** berbanding suku tahun yang lepas.

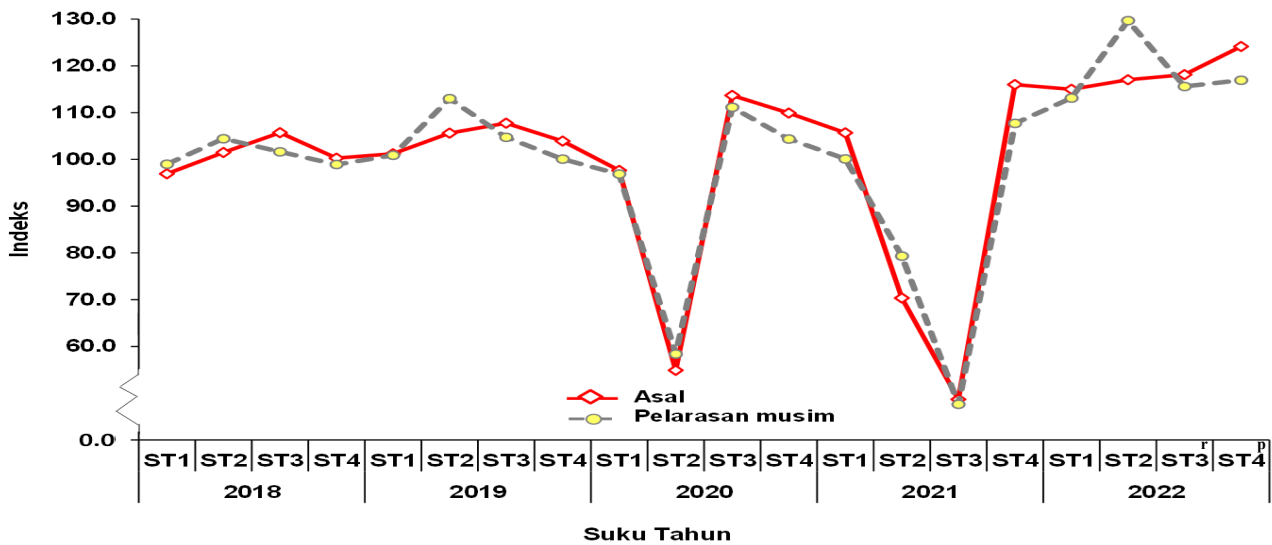


## SUBSEKTOR KENDERAAN BERMOTOR





Indeks volum Kenderaan Bermotor merekodkan pertumbuhan **7.0 peratus** tahun ke tahun. Momentum pertumbuhan positif ini didorong oleh Jualan Komponen & Aksesori Kenderaan Bermotor dan Penyelenggaraan & Pembaikan Kenderaan Bermotor yang meningkat masing-masing **29.2 peratus** dan **25.6 peratus**. Bagi prestasi subsektor ini berbanding suku tahun sebelum, ia bertumbuh **5.1 peratus**.

Bagi indeks volum pelarasan musim, subsektor Kenderaan Bermotor menokok **1.2 peratus** pada suku tahun semasa berbanding suku tahun ketiga 2022.

Carta 4: Indeks Volum Kenderaan Bermotor, ST1 2018 - ST4 2022



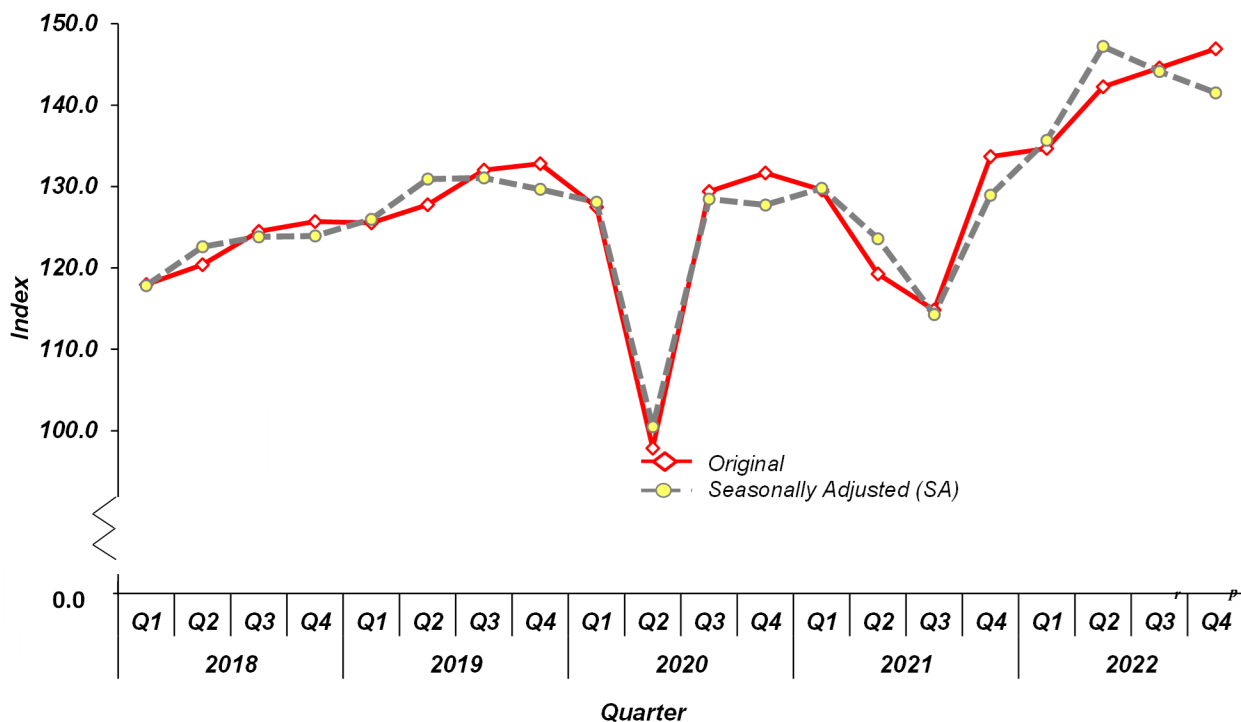
# SUMMARY OF FINDINGS

Sub-sector (2015=100)	Index			
	Original	% Change YoY	Seasonally Adjusted	% Change QoQ
 Volume Index of Wholesale & Retail Trade	146.9	9.9	141.5	-1.8
 Volume Index of Wholesale Trade	132.4	0.9	128.0	-2.0
 Volume Index of Retail Trade	170.1	19.3	165.0	-0.1
 Volume Index of Motor Vehicles	124.2	7.0	116.9	1.2

In the fourth quarter of 2022, volume index of Wholesale & Retail Trade registered a growth of **9.9 per cent** to reach **146.9 points** as compared to the same quarter of the previous year, bringing the overall performance for 2022 to **14.3 per cent** as compared to 2021. The positive quarterly growth was recorded in Retail Trade and Motor Vehicles sub-sectors with **19.3 per cent** and **7.0 per cent**, respectively, followed by Wholesale Trade of **0.9 per cent**. Meanwhile, for quarter-on-quarter comparison, volume index also increased **1.6 per cent** in this quarter.

Seasonally adjusted volume index of Wholesale & Retail Trade decreased **-1.8 per cent** as against the third quarter of 2022, pulled down by Wholesale Trade and Retail Trade sub-sectors of **-2.0 per cent** and **-0.1 per cent**, respectively.

**Chart 1: Volume Index of Wholesale & Retail Trade, Q1 2018 - Q4 2022**



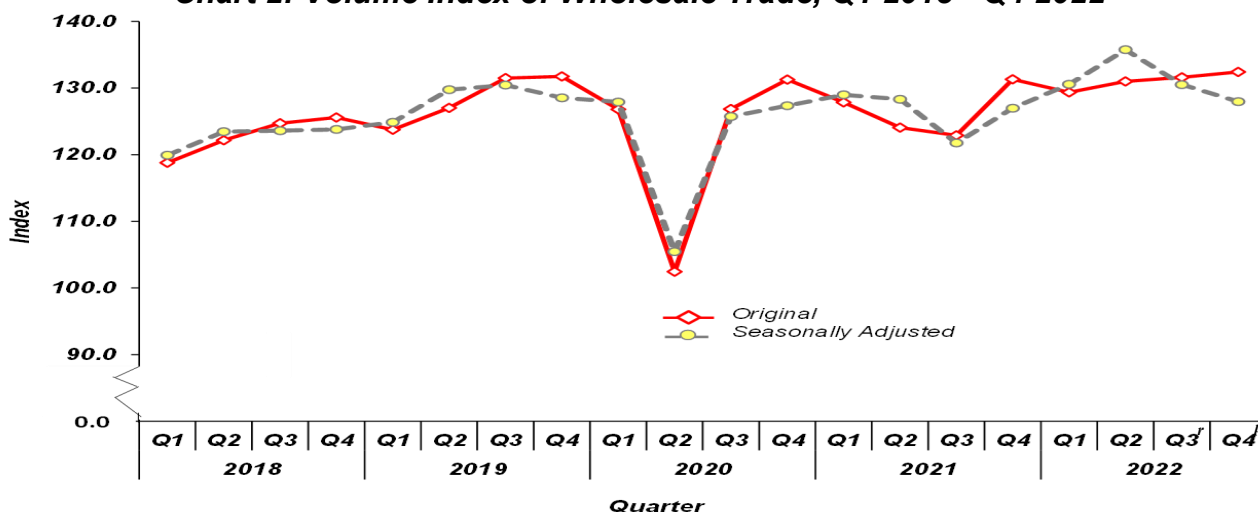
# PERFORMANCE BY SUB-SECTOR

## WHOLESALE TRADE SUB-SECTOR

Volume index of Wholesale Trade sub-sector went up **0.9 per cent** to **132.4 points** in fourth quarter 2022 as compared to the same quarter in 2021. This increment was attributed to Wholesale of Agricultural Raw Material & Live Animals with **13.7 per cent**, followed by Wholesale on a Fee or Contract Basis of **11.7 per cent**. For quarterly growth, volume index of Wholesale Trade went up **0.6 per cent**.

As for seasonally adjusted volume index, Wholesale Trade went down **-2.0 per cent** as compared to the previous quarter.

**Chart 2: Volume Index of Wholesale Trade, Q1 2018 - Q4 2022**

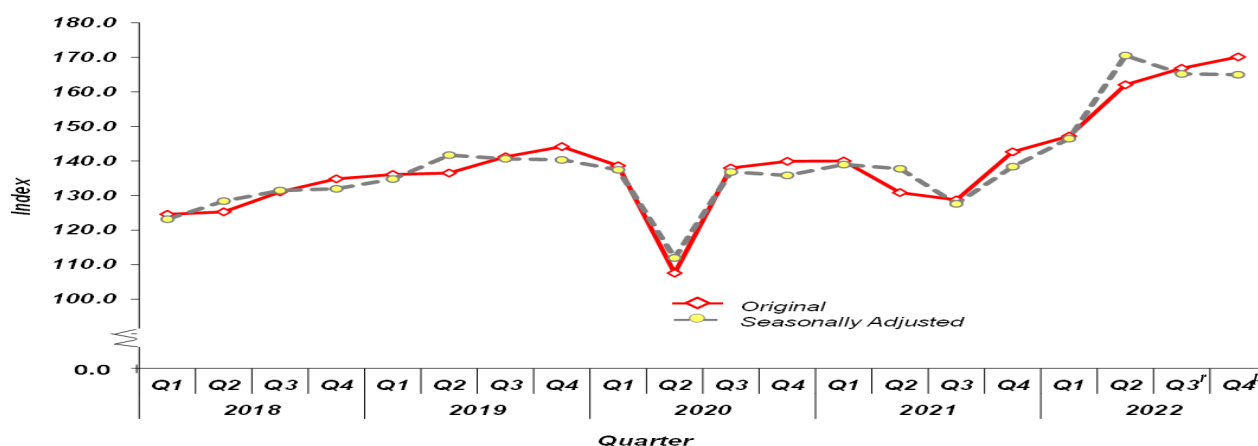


## RETAIL TRADE SUB-SECTOR

For the fourth quarter of 2022, Retail Trade recorded a positive growth of **19.3 per cent** to **170.1 points** as against the same quarter of the previous year. The growth was attributed to Retail Sale of Automotive Fuel in Specialised Stores (**35.7%**), Retail Sale of Other Goods in Specialised Stores (**32.9%**), and Retail Sale in Non-specialised Stores (**22.0%**). For quarter-on-quarter comparison, volume index of this sub-sector posted an increment of **2.0 per cent**.

Within the same period, seasonally adjusted volume index of Retail Trade declined **-0.1 per cent** as against the preceding quarter.

**Chart 3: Volume Index of Retail Trade, Q1 2018 - Q4 2022**

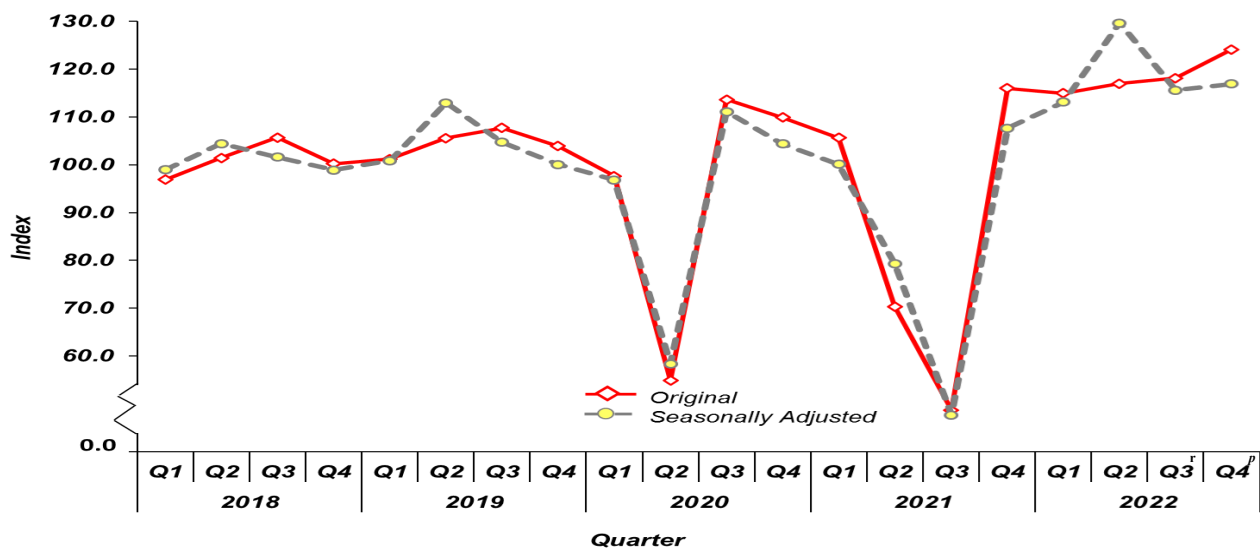


## MOTOR VEHICLES SUB-SECTOR

Volume index of Motor Vehicles registered a positive growth of **7.0 per cent** year-on-year. This positive momentum was contributed by Sale of Motor Vehicle Parts & Accessories and Maintenance & Repair of Motor Vehicles which increased **29.2 per cent** and **25.6 per cent**, respectively. For performance of this sub-sector as against the previous quarter, it increased **5.1 per cent**.

In terms of seasonally adjusted volume index, Motor Vehicles sub-sector increased **1.2 per cent** in the current quarter as compared to the third quarter of 2022.

**Chart 4: Volume Index of Motor Vehicles, Q1 2018 - Q4 2022**





**SENARAI JADUAL**  
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Jadual 1 : Indeks Volum Perdagangan Borong & Runcit, Suku Tahun Keempat 2022

Table 1 : Volume Index of Wholesale & Retail Trade, Fourth Quarter 2022

(2015=100)

Kod / Code	Subsektor	Wajaran** Weight**	Asal <sup>P</sup> Original <sup>P</sup>	Indeks / Index		Pelarasan Musim <sup>P</sup> Seasonally Adjusted <sup>P</sup>	% Perubahan / Change Change QoQ
				% Perubahan / Change			
				QoQ	YoY		
<b>PERDAGANGAN BORONG &amp; RUNCIT</b> <i>WHOLESALE &amp; RETAIL TRADE</i>		<b>100.0</b>	<b>146.9</b>	<b>1.6</b>	<b>9.9</b>	<b>141.5</b>	<b>-1.8</b>
45	<b>Kenderaan Bermotor</b> <i>Motor Vehicles</i>	<b>14.2</b>	<b>124.2</b>	<b>5.1</b>	<b>7.0</b>	<b>116.9</b>	<b>1.2</b>
451	<b>Jualan Kenderaan Bermotor</b> <i>Sale of Motor Vehicles</i>	6.9	128.2	7.3	5.9	123.9	8.2
452	<b>Penyelenggaraan dan Pembaikan Kenderaan Bermotor</b> <i>Maintenance and Repair of Motor Vehicles</i>	2.4	120.8	2.8	25.6	114.3	0.3
453	<b>Jualan Komponen dan Aksesori Kenderaan Bermotor</b> <i>Sale of Motor Vehicles Parts and Accessories</i>	3.5	140.9	2.7	29.2	131.0	-5.5
454	<b>Jualan, Penyelenggaraan dan Pembaikan Motosikal dan Komponen dan Aksesori Berkaitan</b> <i>Sale, Maintenance and Repair of Motorcycles and Related Parts and Accessories</i>	1.4	93.9	-9.8	-28.3	84.5	-20.4
46	<b>Perdagangan Borong</b> <i>Wholesale Trade</i>	<b>44.9</b>	<b>132.4</b>	<b>0.6</b>	<b>0.9</b>	<b>128.0</b>	<b>-2.0</b>
461	<b>Jualan Borong Berdasarkan Kontrak atau Yuran</b> <i>Wholesale on a Fee or Contract Basis</i>	2.7	117.1	10.8	11.7	115.3	11.2
462*	<b>Jualan Borong Bahan Mentah Pertanian dan Haiwan Hidup</b> <i>Wholesale of Agricultural Raw Materials and Live Animals</i>	2.8	134.6	1.2	13.7	134.6	1.2
463*	<b>Jualan Borong Makanan, Minuman dan Tembakau</b> <i>Wholesale of Food, Beverages and Tobacco</i>	6.7	148.6	5.9	2.9	148.6	5.9
464	<b>Jualan Borong Barangan Isi Rumah</b> <i>Wholesale of Household Goods</i>	9.6	146.8	0.0	8.1	140.9	-6.3
465	<b>Jualan Borong Jentera, Peralatan dan Bekalan</b> <i>Wholesale of Machinery, Equipment and Supplies</i>	6.6	122.0	-1.0	-3.6	115.8	-5.1
466	<b>Lain-lain Pengkhususan Jual Borong</b> <i>Other Specialised Wholesale</i>	15.0	122.0	-2.9	-7.3	114.8	-8.6
469*	<b>Perdagangan Borong Tanpa Pengkhususan</b> <i>Non - specialised Wholesale Trade</i>	1.5	133.4	2.2	2.0	133.4	2.2
47	<b>Perdagangan Runcit</b> <i>Retail Trade</i>	<b>40.9</b>	<b>170.1</b>	<b>2.0</b>	<b>19.3</b>	<b>165.0</b>	<b>-0.1</b>
471	<b>Jualan Runcit di Kedai Bukan Pengkhususan</b> <i>Retail Sale in Non-specialised Stores</i>	9.6	185.7	3.0	22.0	183.8	2.7
472	<b>Jualan Runcit Makanan, Minuman dan Tembakau di Kedai Pengkhususan</b> <i>Retail Sale of Food, Beverages and Tobacco in Specialised Stores</i>	2.9	176.9	2.2	10.5	176.5	1.9
473*	<b>Jualan Runcit di Kedai Khusus yang Menjual Bahan Api Kenderaan</b> <i>Retail Sale of Automotive Fuel in Specialised Stores</i>	1.8	192.9	4.6	35.7	192.9	4.6
474*	<b>Jualan Runcit di Kedai Khusus yang Menjual Peralatan Komunikasi dan Maklumat</b> <i>Retail Sale of Information and Communications Equipment in Specialised Stores</i>	5.0	161.8	-0.3	7.4	161.8	-0.3
475	<b>Jualan Runcit di Kedai Khusus yang Menjual Peralatan Lain Isi Rumah</b> <i>Retail Sale of Other Household Equipment in Specialised Stores</i>	7.6	137.6	0.0	11.2	131.7	-2.7
476	<b>Jualan Runcit di Kedai Khusus yang Menjual Barangan Kesenian dan Rekreasi</b> <i>Retail Sale of Cultural and Recreation Goods in Specialised Stores</i>	3.0	146.9	-1.3	8.1	139.2	-10.1
477	<b>Jualan Runcit di Kedai Khusus yang Menjual Barang Lain</b> <i>Retail Sale of Other Goods in Specialised Stores</i>	10.3	179.9	3.6	32.9	173.2	2.3
478	<b>Jualan Runcit di Gerai dan Pasar</b> <i>Retail Sale via Stalls and Markets</i>	0.1	185.4	0.7	20.3	182.4	-3.7
479*	<b>Jualan Runcit Bukan di Kedai, Gerai atau Pasar</b> <i>Retail Trade Not in Stores, Stalls or Markets</i>	0.6	207.9	1.3	9.0	207.9	1.3

<sup>P</sup> Data awalan/ Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data/

Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series

\*\*Bermula daripada suku tahun pertama 2016, wajaran yang digunakan dalam pengiraan Indeks volum Perdagangan Borong & Runcit adalah wajaran baru yang diperolehi daripada Banci Perdagangan Edaran 2014 (tahun rujukan 2013)

Commencing in first quarter 2016, the weights used in the calculation of the Volume Index of Wholesale & Retail Trade obtained from the Census of Distributive Trade 2014 (reference year 2013)

Jadual 2 : Indeks Volum Perdagangan Borong & Runcit mengikut Subsektor  
 Table 2: Volume Index of Wholesale & Retail Trade by Sub-sector  
 (2015=100)

Subsektor	Perdagangan Borong & Runcit		Kenderaan Bermotor		Perdagangan Borong		Perdagangan Runcit		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
<b>Wajaran / Weight</b>	<b>100.0</b>		<b>14.2</b>		<b>44.9</b>		<b>40.9</b>		
<b>Tempoh / Period</b>									
<b>2019</b>	<b>Q1</b>	125.5	126.0	101.2	100.9	123.8	124.9	136.1	134.8
	<b>Q2</b>	127.8	130.9	105.6	113.0	127.0	129.8	136.5	141.7
	<b>Q3</b>	132.0	131.1	107.7	104.7	131.5	130.4	141.2	140.7
	<b>Q4</b>	132.8	129.7	103.9	100.1	131.8	128.5	144.2	140.3
<b>2020</b>	<b>Q1</b>	127.5	128.1	97.6	96.9	126.8	127.9	138.6	137.5
	<b>Q2</b>	97.8	100.5	54.9	58.4	102.5	105.4	107.6	112.0
	<b>Q3</b>	129.4	128.5	113.7	111.1	126.9	125.7	138.0	136.8
	<b>Q4</b>	131.7	127.7	109.9	104.4	131.3	127.4	139.9	135.8
<b>2021</b>	<b>Q1</b>	129.6	129.8	105.7	100.1	127.9	129.0	140.0	139.0
	<b>Q2</b>	119.3	123.6	70.3	79.3	124.1	128.3	130.8	137.8
	<b>Q3</b>	114.8	114.3	48.7	47.6	122.9	121.8	128.8	127.6
	<b>Q4</b>	133.7	128.9	116.0	107.7	131.3	127.0	142.7	138.4
<b>2022</b>	<b>Q1</b>	134.7	135.7	115.0	113.1	129.4	130.6	147.2	146.5
	<b>Q2</b>	142.2	147.2	117.0	129.7	131.0	135.8	162.1	170.5
	<b>Q3<sup>r</sup></b>	144.6	144.1	118.1	115.6	131.6	130.5	166.8	165.2
	<b>Q4<sup>p</sup></b>	146.9	141.5	124.2	116.9	132.4	128.0	170.1	165.0
<b>% Perubahan / % Changes (YoY)</b>									
<b>2019</b>	<b>Q1</b>	6.4		4.4		4.2		9.3	
	<b>Q2</b>	6.1		4.1		4.0		9.0	
	<b>Q3</b>	6.0		1.9		5.4		7.8	
	<b>Q4</b>	5.7		3.6		4.9		6.9	
<b>2020</b>	<b>Q1</b>	1.5		-3.5		2.5		1.8	
	<b>Q2</b>	-23.4		-48.0		-19.3		-21.2	
	<b>Q3</b>	-2.0		5.5		-3.5		-2.3	
	<b>Q4</b>	-0.9		5.8		-0.4		-2.9	
<b>2021</b>	<b>Q1</b>	1.7		8.2		0.8		1.0	
	<b>Q2</b>	21.9		28.2		21.1		21.6	
	<b>Q3</b>	-11.3		-57.2		-3.1		-6.7	
	<b>Q4</b>	1.5		5.6		0.03		2.0	
<b>2022</b>	<b>Q1</b>	3.9		8.8		1.2		5.1	
	<b>Q2</b>	19.3		66.4		5.6		23.9	
	<b>Q3<sup>r</sup></b>	25.9		142.6		7.1		29.6	
	<b>Q4<sup>p</sup></b>	9.9		7.0		0.9		19.3	
<b>% Perubahan / % Changes (QoQ)</b>									
<b>2019</b>	<b>Q1</b>	-0.1	1.7	0.9	2.0	-1.5	0.9	0.9	2.1
	<b>Q2</b>	1.8	3.9	4.3	12.0	2.6	3.9	0.3	5.1
	<b>Q3</b>	3.3	0.1	2.0	-7.3	3.5	0.5	3.5	-0.7
	<b>Q4</b>	0.6	0.1	-3.6	-7.3	0.2	0.5	2.1	-0.7
<b>2020</b>	<b>Q1</b>	-4.0	-1.2	-6.0	-3.2	-3.7	-0.5	-3.8	-2.1
	<b>Q2</b>	-23.2	-21.5	-43.8	-39.7	-19.2	-17.6	-22.4	-18.5
	<b>Q3</b>	32.2	27.8	107.1	90.3	23.8	19.2	28.3	22.2
	<b>Q4</b>	1.8	-0.6	-3.3	-6.1	3.5	1.3	1.4	-0.7
<b>2021</b>	<b>Q1</b>	-1.6	1.6	-3.8	-4.1	-2.6	1.3	0.08	2.3
	<b>Q2</b>	-8.0	-4.8	-33.4	-20.8	-3.0	-0.5	-6.6	-0.9
	<b>Q3</b>	-3.7	-7.5	-30.8	-39.9	-0.9	-5.1	-1.6	-7.4
	<b>Q4</b>	16.4	12.8	138.2	126.1	6.8	4.3	10.8	8.4
<b>2022</b>	<b>Q1</b>	0.7	5.2	-0.9	5.0	-1.5	2.8	3.2	5.9
	<b>Q2</b>	5.6	8.5	1.8	14.6	1.3	4.0	10.1	16.4
	<b>Q3<sup>r</sup></b>	1.6	-2.1	0.9	-10.9	0.5	-3.9	2.9	-3.1
	<b>Q4<sup>p</sup></b>	1.6	-1.8	5.1	1.2	0.6	-2.0	2.0	-0.1
<b>Sub-sector</b>	<b>Wholesale &amp; Retail Trade</b>		<b>Motor Vehicles</b>		<b>Wholesale Trade</b>		<b>Retail Trade</b>		

<sup>p</sup> Data awalan/ Preliminary data

Jadual 3 : Indeks Volum Kenderaan Bermotor  
Table 3 : Volume Index of Motor Vehicles  
(2015=100)

Subsektor	Jualan Kenderaan Bermotor		Penyelenggaraan & Pembaikan Kenderaan Bermotor		Jualan Komponen & Aksesori Kenderaan Bermotor		Jualan, Penyelenggaraan & Pembaikan Motosikal & Komponen & Aksesori Berkaitan		
	451		452		453		454		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
<b>Wajaran / Weight</b>	6.9		2.4		3.5		1.4		
<b>Tempoh / Period</b>									
<b>2019</b>	<b>Q1</b>	94.3	95.4	101.4	105.8	114.8	110.8	99.5	103.3
	<b>Q2</b>	98.3	103.9	110.7	114.6	114.8	125.2	107.7	112.4
	<b>Q3</b>	98.8	93.6	114.1	116.2	119.2	119.5	109.8	107.8
	<b>Q4</b>	92.8	91.4	108.1	105.7	119.1	113.1	110.4	103.6
<b>2020</b>	<b>Q1</b>	88.4	90.0	99.4	102.7	113.6	108.7	97.8	100.2
	<b>Q2</b>	48.5	49.4	59.2	63.0	60.3	66.8	63.2	68.9
	<b>Q3</b>	114.2	109.1	108.8	104.4	115.6	116.7	114.2	113.3
	<b>Q4</b>	110.2	107.2	100.9	97.7	112.6	105.5	116.4	107.2
<b>2021</b>	<b>Q1</b>	102.6	98.0	96.0	98.9	110.2	105.0	122.7	108.9
	<b>Q2</b>	70.0	78.4	63.2	71.8	73.2	82.8	76.0	80.6
	<b>Q3</b>	51.9	49.9	47.2	46.2	51.6	51.7	33.1	32.0
	<b>Q4</b>	121.0	116.8	96.1	94.7	109.1	103.1	131.1	107.2
<b>2022</b>	<b>Q1</b>	112.0	112.2	111.8	113.7	130.6	124.5	105.4	105.3
	<b>Q2</b>	117.2	126.7	114.6	125.0	135.5	152.9	124.8	138.3
	<b>Q3<sup>P</sup></b>	119.5	114.5	117.4	114.0	137.2	138.7	104.2	106.1
	<b>Q4<sup>P</sup></b>	128.2	123.9	120.8	114.3	140.9	131.0	93.9	84.5
<b>% Perubahan / % Changes (YoY)</b>									
<b>2019</b>	<b>Q1</b>	3.0		2.6		6.6		7.9	
	<b>Q2</b>	2.3		2.7		7.2		5.6	
	<b>Q3</b>	-0.9		4.6		4.6		2.6	
	<b>Q4</b>	3.7		3.0		4.3		2.8	
<b>2020</b>	<b>Q1</b>	-6.2		-1.9		-1.0		-1.7	
	<b>Q2</b>	-50.7		-46.6		-47.5		-41.3	
	<b>Q3</b>	15.6		-4.7		-3.1		4.0	
	<b>Q4</b>	18.8		-6.6		-5.4		5.5	
<b>2021</b>	<b>Q1</b>	16.1		-3.5		-3.0		25.5	
	<b>Q2</b>	44.3		6.8		21.4		20.3	
	<b>Q3</b>	-54.6		-56.6		-55.4		-71.1	
	<b>Q4</b>	9.8		-4.7		-3.1		12.6	
<b>2022</b>	<b>Q1</b>	9.1		16.5		18.5		-14.1	
	<b>Q2</b>	67.4		81.4		85.0		64.2	
	<b>Q3<sup>P</sup></b>	130.3		148.8		166.2		215.1	
	<b>Q4<sup>P</sup></b>	5.9		25.6		29.2		-28.3	
<b>% Perubahan / % Changes (QoQ)</b>									
<b>2019</b>	<b>Q1</b>	5.3	5.8	-3.4	3.2	0.6	0.1	-7.4	0.1
	<b>Q2</b>	4.3	8.9	9.3	8.3	0.1	13.0	8.3	8.8
	<b>Q3</b>	0.5	-9.8	3.0	1.4	3.8	-4.5	1.9	-4.1
	<b>Q4</b>	-6.1	-9.8	-5.3	1.4	-0.2	-4.5	0.6	-4.1
<b>2020</b>	<b>Q1</b>	-4.7	-1.5	-8.0	-2.8	-4.6	-3.9	-11.4	-3.2
	<b>Q2</b>	-45.1	-45.1	-40.5	-38.7	-46.9	-38.5	-35.4	-31.3
	<b>Q3</b>	135.5	120.8	83.8	65.8	91.6	74.6	80.7	64.4
	<b>Q4</b>	-3.5	-1.8	-7.2	-6.5	-2.6	-9.5	1.9	-5.3
<b>2021</b>	<b>Q1</b>	-6.9	-8.6	-4.9	1.3	-2.1	-0.5	5.4	1.6
	<b>Q2</b>	-31.8	-19.9	-34.2	-27.4	-33.6	-21.2	-38.1	-26.0
	<b>Q3</b>	-25.9	-36.3	-25.3	-35.7	-29.6	-37.5	-56.5	-60.4
	<b>Q4</b>	133.3	133.8	103.6	105.2	111.7	99.3	296.5	235.2
<b>2022</b>	<b>Q1</b>	-7.5	-3.9	16.3	20.1	19.7	20.8	-19.6	-1.8
	<b>Q2</b>	4.7	13.0	2.5	10.0	3.7	22.8	18.3	31.3
	<b>Q3<sup>P</sup></b>	1.9	-9.7	2.5	-8.9	1.3	-9.3	-16.5	-23.2
	<b>Q4<sup>P</sup></b>	7.3	8.2	2.8	0.3	2.7	-5.5	-9.8	-20.4
<b>Sub-sector</b>	<b>Sale of Motor Vehicles</b>		<b>Maintenance &amp; Repair of Motor Vehicles</b>		<b>Sale of Motor Vehicles Parts &amp; Accessories</b>		<b>Sale, Maintenance &amp; Repair of Motorcycles &amp; Related Parts &amp; Accessories</b>		

<sup>P</sup> Data awalan/ Preliminary data

<sup>\*</sup> Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data/  
Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series

Jadual 4 : Indeks Volum Perdagangan Borong  
Table 4 : Volume Index of Wholesale Trade  
(2015=100)

Subsektor	Jualan Borong Berdasarkan Kontrak atau Yuran		Jualan Borong Bahan Mentah Pertanian & Haiwan Hidup		Jualan Borong Makanan, Minuman & Tembakau		Jualan Borong Barangan Isi Rumah		
	461		462*		463*		464		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
<b>Wajaran / Weight</b>	2.7		2.8		6.7		9.6		
<b>Tempoh / Period</b>									
<b>2019</b>	Q1	107.2	112.8	123.5	123.5	123.1	123.1	120.0	120.1
	Q2	119.1	118.1	116.3	116.3	129.9	129.9	123.8	125.3
	Q3	124.4	120.8	121.8	121.8	132.3	132.3	123.3	125.7
	Q4	118.7	119.3	111.2	111.2	129.6	129.6	129.2	124.7
<b>2020</b>	Q1	111.9	116.9	116.8	116.8	127.6	127.6	124.7	124.9
	Q2	100.5	100.9	117.9	117.9	131.6	131.6	105.2	106.5
	Q3	116.3	112.8	124.3	124.3	136.7	136.7	128.2	130.9
	Q4	113.4	113.2	112.5	112.5	133.7	133.7	135.0	129.9
<b>2021</b>	Q1	108.7	113.0	112.4	112.4	133.2	133.2	131.0	130.5
	Q2	101.3	101.5	124.7	124.7	135.7	135.7	118.1	120.7
	Q3	91.6	89.7	122.8	122.8	140.4	140.4	118.1	120.5
	Q4	104.8	103.9	118.4	118.4	144.3	144.3	135.8	130.1
<b>2022</b>	Q1	109.1	113.4	121.8	121.8	139.3	139.3	135.3	135.7
	Q2	107.4	107.6	129.0	129.0	138.3	138.3	144.2	147.5
	Q3 <sup>f</sup>	105.7	103.7	133.0	133.0	140.2	140.2	146.9	150.3
	Q4 <sup>P</sup>	117.1	115.3	134.6	134.6	148.6	148.6	146.8	140.9
<b>% Perubahan / % Changes (YoY)</b>									
<b>2019</b>	Q1	2.2		9.8		7.0		7.6	
	Q2	2.0		7.2		8.3		6.8	
	Q3	4.5		7.1		6.8		6.9	
	Q4	5.4		-2.2		5.5		6.3	
<b>2020</b>	Q1	4.4		-5.4		3.6		3.9	
	Q2	-15.7		1.4		1.3		-15.1	
	Q3	-6.5		2.1		3.3		4.0	
	Q4	-4.5		1.2		3.2		4.5	
<b>2021</b>	Q1	-2.8		-3.8		4.4		5.1	
	Q2	0.8		5.7		3.1		12.3	
	Q3	-21.2		-1.3		2.7		-7.9	
	Q4	-7.5		5.3		7.9		0.6	
<b>2022</b>	Q1	0.3		8.4		4.6		3.3	
	Q2	6.0		3.4		2.0		22.2	
	Q3 <sup>f</sup>	15.4		8.4		-0.1		24.3	
	Q4 <sup>P</sup>	11.7		13.7		2.9		8.1	
<b>% Perubahan / % Changes (QoQ)</b>									
<b>2019</b>	Q1	-4.8	-0.8	8.6	8.6	0.3	0.3	-1.3	1.6
	Q2	11.1	4.7	-5.8	-5.8	5.5	5.5	3.2	4.3
	Q3	4.4	2.3	4.7	4.7	1.9	1.9	-0.5	0.4
	Q4	-4.6	2.3	-8.7	4.7	-2.1	1.9	4.8	0.4
<b>2020</b>	Q1	-5.7	-2.1	5.0	5.0	-1.5	-1.5	-3.5	0.1
	Q2	-10.2	-13.7	1.0	1.0	3.1	3.1	-15.6	-14.8
	Q3	15.7	11.8	5.4	5.4	3.9	3.9	21.9	22.9
	Q4	-2.5	0.3	-9.5	-9.5	-2.2	-2.2	5.3	-0.8
<b>2021</b>	Q1	-4.1	-0.2	-0.1	-0.1	-0.4	-0.4	-3.0	0.5
	Q2	-6.8	-10.1	11.0	11.0	1.9	1.9	-9.9	-7.5
	Q3	-9.6	-11.7	-1.5	-1.5	3.5	3.5	0.1	-0.1
	Q4	14.5	15.8	-3.6	-3.6	2.8	2.8	15.0	8.0
<b>2022</b>	Q1	4.0	9.2	2.9	2.9	-3.5	-3.5	-0.4	4.3
	Q2	-1.5	-5.1	5.9	5.9	-0.7	-0.7	6.6	8.7
	Q3 <sup>f</sup>	-1.6	-3.6	3.1	3.1	1.4	1.4	1.9	1.9
	Q4 <sup>P</sup>	10.8	11.2	1.2	1.2	5.9	5.9	0.0	-6.3
<b>Sub-sector</b>	<i>Wholesale on a Fee or Contract Basis</i>		<i>Wholesale of Agricultural Raw Materials &amp; Live Animals</i>		<i>Wholesale of Food, Beverages &amp; Tobacco</i>		<i>Wholesale of Household Goods</i>		

<sup>P</sup> Data awalan/ Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data/  
Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series

Jadual 4 (samb.): Indeks Volum Perdagangan Borong  
Table 4 (cont'd): Volume Index of Wholesale Trade  
(2015=100)

Subsektor	Jualan Borong Jentera, Peralatan & Bekalan		Lain-Lain Pengkhususan Jual Borong		Perdagangan Borong Tanpa Pengkhususan		
	465		466		469*		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
<b>Wajaran / Weight</b>	<b>6.6</b>		<b>15.0</b>		<b>1.5</b>		
<b>Tempoh / Period</b>							
<b>2019</b>	<b>Q1</b>	115.2	117.9	132.4	133.3	122.5	122.5
	<b>Q2</b>	119.2	121.9	134.6	140.0	116.9	116.9
	<b>Q3</b>	120.4	118.8	144.2	143.5	120.8	120.8
	<b>Q4</b>	121.1	116.9	145.8	139.5	117.1	117.1
<b>2020</b>	<b>Q1</b>	113.6	116.0	137.3	138.2	125.9	125.9
	<b>Q2</b>	90.9	94.4	90.2	94.7	93.3	93.3
	<b>Q3</b>	121.8	120.1	125.2	124.8	127.8	127.8
	<b>Q4</b>	125.2	119.7	137.0	129.8	126.7	126.7
<b>2021</b>	<b>Q1</b>	119.1	121.5	132.7	134.0	130.3	130.3
	<b>Q2</b>	111.6	116.5	130.7	138.1	130.2	130.2
	<b>Q3</b>	112.2	110.7	123.9	123.8	127.2	127.2
	<b>Q4</b>	126.5	120.4	131.6	124.2	130.7	130.7
<b>2022</b>	<b>Q1</b>	122.3	124.7	128.7	129.8	129.0	129.0
	<b>Q2</b>	123.8	129.7	126.6	134.1	129.8	129.8
	<b>Q3<sup>f</sup></b>	123.2	122.0	125.6	125.6	130.6	130.6
	<b>Q4<sup>P</sup></b>	122.0	115.8	122.0	114.8	133.4	133.4
<b>% Perubahan / % Changes (YoY)</b>							
<b>2019</b>	<b>Q1</b>	1.0		1.5		7.0	
	<b>Q2</b>	0.8		1.7		4.0	
	<b>Q3</b>	1.3		5.8		2.4	
	<b>Q4</b>	2.1		6.1		3.5	
<b>2020</b>	<b>Q1</b>	-1.4		3.7		2.8	
	<b>Q2</b>	-23.8		-33.0		-20.2	
	<b>Q3</b>	1.1		-13.2		5.8	
	<b>Q4</b>	3.3		-6.0		8.2	
<b>2021</b>	<b>Q1</b>	4.8		-3.3		3.5	
	<b>Q2</b>	22.9		44.9		39.5	
	<b>Q3</b>	-7.9		-1.0		-0.5	
	<b>Q4</b>	1.1		-4.0		3.1	
<b>2022</b>	<b>Q1</b>	2.7		-3.1		-1.0	
	<b>Q2</b>	10.9		-3.1		-0.3	
	<b>Q3<sup>f</sup></b>	9.8		1.3		2.7	
	<b>Q4<sup>P</sup></b>	-3.6		-7.3		2.0	
<b>% Perubahan / % Changes (QoQ)</b>							
<b>2019</b>	<b>Q1</b>	-2.9	1.0	-3.7	-0.2	8.3	8.3
	<b>Q2</b>	3.5	3.4	1.7	5.0	-4.6	-4.6
	<b>Q3</b>	1.0	-2.5	7.1	2.6	3.3	3.3
	<b>Q4</b>	0.6	-2.5	1.1	2.6	-3.0	3.3
<b>2020</b>	<b>Q1</b>	-6.2	-0.7	-5.9	-0.9	7.5	7.5
	<b>Q2</b>	-20.0	-18.6	-34.3	-31.5	-25.9	-25.9
	<b>Q3</b>	34.0	27.2	38.8	31.8	37.0	37.0
	<b>Q4</b>	2.8	-0.4	9.5	4.1	-0.8	-0.8
<b>2021</b>	<b>Q1</b>	-4.8	1.5	-3.1	3.2	2.8	2.8
	<b>Q2</b>	-6.3	-4.1	-1.5	3.0	-0.1	-0.1
	<b>Q3</b>	0.5	-4.9	-5.2	-10.3	-2.3	-2.3
	<b>Q4</b>	12.8	8.7	6.2	0.3	2.8	2.8
<b>2022</b>	<b>Q1</b>	-3.3	3.6	-2.2	4.5	-1.4	-1.4
	<b>Q2</b>	1.2	4.0	-1.6	3.3	0.7	0.7
	<b>Q3<sup>f</sup></b>	-0.5	-6.0	-0.8	-6.3	0.6	0.6
	<b>Q4<sup>P</sup></b>	-1.0	-5.1	-2.9	-8.6	2.2	2.2
<b>Sub-sector</b>	<i>Wholesale of Machinery, Equipment &amp; Supplies</i>		<i>Other Specialised Wholesale</i>		<i>Non-specialised Wholesale Trade</i>		

<sup>P</sup> Data awalan/ Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data  
Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series

**Jadual 5 : Indeks Volum Perdagangan Runcit**  
*Table 5 : Volume Index of Retail Trade*  
(2015=100)

Subsektor	Jualan Runcit di Kedai Bukan Pengkhususan		Jualan Runcit Makanan, Minuman & Tembakau di Kedai Pengkhususan		Jualan Runcit di Kedai Khusus yang Menjual Bahan Api Kenderaan		
	471		472		473*		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
<b>Wajaran / Weight</b>	<b>9.6</b>		<b>2.9</b>		<b>1.8</b>		
<b>Tempoh / Period</b>							
<b>2019</b>	<b>Q1</b>	132.3	130.6	136.4	135.5	140.5	140.5
	<b>Q2</b>	135.2	137.4	140.3	141.2	141.9	141.9
	<b>Q3</b>	138.5	138.4	141.5	141.8	146.5	146.5
	<b>Q4</b>	140.4	139.2	142.9	142.5	150.8	150.8
<b>2020</b>	<b>Q1</b>	138.8	137.3	143.9	143.2	138.9	138.9
	<b>Q2</b>	128.8	131.4	143.1	144.0	96.8	96.8
	<b>Q3</b>	145.1	144.2	150.4	150.5	138.1	138.1
	<b>Q4</b>	143.0	141.7	150.3	149.9	135.9	135.9
<b>2021</b>	<b>Q1</b>	143.3	142.1	151.4	150.8	128.4	128.4
	<b>Q2</b>	134.9	139.2	149.6	150.9	110.1	110.1
	<b>Q3</b>	136.3	135.5	150.5	150.6	121.5	121.5
	<b>Q4</b>	152.2	150.3	160.1	159.7	142.1	142.1
<b>2022</b>	<b>Q1</b>	159.2	158.1	161.3	160.8	142.0	142.0
	<b>Q2</b>	175.2	180.9	172.3	173.7	176.5	176.5
	<b>Q3<sup>r</sup></b>	180.3	179.1	173.2	173.1	184.4	184.4
	<b>Q4<sup>p</sup></b>	185.7	183.8	176.9	176.5	192.9	192.9
<b>% Perubahan / % Changes (YoY)</b>							
<b>2019</b>	<b>Q1</b>	7.5		8.8		6.7	
	<b>Q2</b>	9.6		9.0		7.1	
	<b>Q3</b>	8.8		8.7		8.4	
	<b>Q4</b>	7.7		7.2		8.7	
<b>2020</b>	<b>Q1</b>	4.9		5.5		-1.1	
	<b>Q2</b>	-4.7		2.0		-31.8	
	<b>Q3</b>	4.7		6.3		-5.8	
	<b>Q4</b>	1.9		5.2		-9.9	
<b>2021</b>	<b>Q1</b>	3.2		5.2		-7.6	
	<b>Q2</b>	4.8		4.6		13.7	
	<b>Q3</b>	-6.1		0.1		-12.0	
	<b>Q4</b>	6.4		6.5		4.6	
<b>2022</b>	<b>Q1</b>	11.1		6.6		10.6	
	<b>Q2</b>	29.8		15.2		60.4	
	<b>Q3<sup>r</sup></b>	32.3		15.0		51.7	
	<b>Q4<sup>p</sup></b>	22.0		10.5		35.7	
<b>% Perubahan / % Changes (QoQ)</b>							
<b>2019</b>	<b>Q1</b>	1.5	0.6	2.3	2.1	1.3	1.3
	<b>Q2</b>	2.2	5.2	2.9	4.2	1.0	1.0
	<b>Q3</b>	2.5	0.7	0.9	0.5	3.2	3.2
	<b>Q4</b>	1.3	0.7	1.0	0.5	2.9	3.2
<b>2020</b>	<b>Q1</b>	-1.1	-1.4	0.7	0.5	-7.9	-7.9
	<b>Q2</b>	-7.2	-4.3	-0.6	0.5	-30.3	-30.3
	<b>Q3</b>	12.7	9.7	5.1	4.5	42.7	42.7
	<b>Q4</b>	-1.4	-1.7	0.0	-0.4	-1.6	-1.6
<b>2021</b>	<b>Q1</b>	0.2	0.3	0.7	0.6	-5.5	-5.5
	<b>Q2</b>	-5.9	-2.0	-1.2	0.04	-14.3	-14.3
	<b>Q3</b>	1.0	-2.7	0.6	-0.2	10.4	10.4
	<b>Q4</b>	11.7	10.9	6.4	6.1	16.9	16.9
<b>2022</b>	<b>Q1</b>	4.6	5.1	0.8	0.7	-0.10	-0.10
	<b>Q2</b>	10.0	14.4	6.8	8.0	24.35	24.35
	<b>Q3<sup>r</sup></b>	2.9	-1.0	0.5	-0.3	4.44	4.44
	<b>Q4<sup>p</sup></b>	3.0	2.7	2.2	1.9	4.61	4.61
<b>Sub-sector</b>	<i>Retail Sale in Non-specialised Stores</i>		<i>Retail Sale of Food, Beverages &amp; Tobacco in Specialised Stores</i>		<i>Retail Sale of Automotive Fuel in Specialised Stores</i>		

<sup>p</sup> Data awalan/ Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data  
Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series



Jadual 5 (samb.): Indeks Volum Perdagangan Runcit  
Table 5 (cont'd): Volume Index of Retail Trade  
(2015=100)

Subsektor	Jualan Runcit di Kedai Khusus yang Menjual Peralatan Komunikasi & Maklumat 474*		Jualan Runcit di Kedai Khusus yang Menjual Peralatan Lain Isi Rumah 475		Jualan Runcit di Kedai Khusus yang Menjual Barangan Kesenian & Rekreasi 476		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
Wajaran / Weight	5.0		7.6		3.0		
Tempoh / Period							
2019	Q1	142.5	142.5	124.5	124.5	145.2	136.9
	Q2	141.0	141.0	125.1	131.3	133.3	142.9
	Q3	146.8	146.8	129.8	128.1	136.9	143.0
	Q4	153.1	153.1	131.0	126.2	143.2	137.7
2020	Q1	146.4	146.4	122.0	122.3	143.4	134.4
	Q2	114.0	114.0	87.2	91.3	88.9	96.5
	Q3	142.8	142.8	124.1	122.3	122.3	126.8
	Q4	150.6	150.6	125.2	120.0	135.5	129.2
2021	Q1	153.6	153.6	123.2	123.7	140.4	132.9
	Q2	144.5	144.5	118.0	125.2	120.5	132.1
	Q3	139.3	139.3	113.1	111.3	120.7	126.0
	Q4	150.7	150.7	123.8	118.5	135.9	129.3
2022	Q1	152.1	152.1	125.3	126.3	146.3	137.8
	Q2	159.1	159.1	138.1	146.4	146.4	160.0
	Q3 <sup>r</sup>	162.3	162.3	137.7	135.4	148.7	154.9
	Q4 <sup>p</sup>	161.8	161.8	137.6	131.7	146.9	139.2
% Perubahan / % Changes (YoY)							
2019	Q1	12.9		6.1		10.9	
	Q2	10.3		6.0		9.0	
	Q3	8.3		4.7		6.9	
	Q4	6.6		3.9		5.2	
2020	Q1	2.7		-2.0		-1.2	
	Q2	-19.1		-30.3		-33.3	
	Q3	-2.7		-4.4		-10.7	
	Q4	-1.7		-4.5		-5.3	
2021	Q1	4.9		1.0		-2.1	
	Q2	26.7		35.3		35.6	
	Q3	-2.5		-8.9		-1.3	
	Q4	0.1		-1.1		0.3	
2022	Q1	-0.9		1.7		4.2	
	Q2	10.1		17.0		21.5	
	Q3 <sup>r</sup>	16.5		21.7		23.2	
	Q4 <sup>p</sup>	7.4		11.2		8.1	
% Perubahan / % Changes (QoQ)							
2019	Q1	-0.8	-0.8	-1.3	1.9	6.7	3.0
	Q2	-1.0	-1.0	0.5	5.5	-8.2	4.4
	Q3	4.1	4.1	3.8	-2.5	2.7	0.1
	Q4	4.3	4.1	1.0	-2.5	4.5	0.1
2020	Q1	-4.4	-4.4	-6.9	-3.1	0.2	-2.4
	Q2	-22.1	-22.1	-28.5	-25.4	-38.0	-28.2
	Q3	25.3	25.3	42.3	34.0	37.7	31.3
	Q4	5.4	5.4	0.9	-1.9	10.8	1.9
2021	Q1	2.0	2.0	-1.6	3.0	3.6	2.9
	Q2	-5.9	-5.9	-4.2	1.3	-14.1	-0.6
	Q3	-3.6	-3.6	-4.2	-11.1	0.2	-4.6
	Q4	8.2	8.2	9.4	6.5	12.6	2.6
2022	Q1	0.9	0.9	1.3	6.6	7.6	6.6
	Q2	4.6	4.6	10.2	15.9	0.1	16.1
	Q3 <sup>r</sup>	2.0	2.0	-0.3	-7.5	1.6	-3.2
	Q4 <sup>p</sup>	-0.3	-0.3	0.0	-2.7	-1.3	-10.1
Sub-sector	Retail Sale of Information & Communication Equipment in Specialised Stores		Retail Sale of Other Household Equipment in Specialised Stores		Retail Sale of Cultural & Recreation Goods in Specialised Stores		

<sup>p</sup> Data awalan/ Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data  
Seasonally adjusted volume index is the same as original index because no seasonal pattern is detected in the data series

Jadual 5 (samb.): Indeks Volume Perdagangan Runcit  
Table 5 (cont'd): Volume Index of Retail Trade  
(2015=100)

Subsektor	Jualan Runcit di Kedai Khusus yang Menjual Barangan Lain		Jualan Runcit di Gerai & Pasar		Jualan Runcit Bukan di Kedai, Gerai atau Pasar		
	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	Asal Original	Pelarasan Musim Seasonally Adjusted	
	477		478		479*		
Wajaran / Weight	10.3		0.1		0.6		
Tempoh / Period							
2019	Q1	140.0	139.7	134.0	132.1	125.1	125.1
	Q2	141.8	148.3	132.9	133.5	122.9	122.9
	Q3	148.4	145.9	131.4	134.8	128.8	128.8
	Q4	150.1	145.4	141.3	138.9	139.9	139.9
2020	Q1	141.5	141.5	141.9	139.8	134.2	134.2
	Q2	93.4	97.9	140.7	141.6	133.4	133.4
	Q3	138.2	135.1	143.4	147.2	140.7	140.7
	Q4	138.3	133.5	145.6	143.3	153.9	153.9
2021	Q1	138.2	138.6	148.5	149.3	145.1	145.1
	Q2	127.3	136.2	151.9	153.3	155.4	155.4
	Q3	120.9	118.0	151.3	155.2	168.3	168.3
	Q4	135.3	130.4	154.2	151.7	190.8	190.8
2022	Q1	142.6	143.3	156.8	154.4	183.3	183.3
	Q2	163.9	175.1	179.3	180.9	196.7	196.7
	Q3 <sup>r</sup>	173.6	169.3	184.2	189.5	205.2	205.2
	Q4 <sup>p</sup>	179.9	173.2	185.4	182.4	207.9	207.9
% Perubahan / % Changes (YoY)							
2019	Q1	10.9		10.9		10.1	
	Q2	9.9		9.7		5.9	
	Q3	8.5		6.9		4.6	
	Q4	8.2		7.0		7.5	
2020	Q1	1.1		6.0		7.3	
	Q2	-34.1		5.9		8.5	
	Q3	-6.9		9.1		9.2	
	Q4	-7.8		3.1		10.0	
2021	Q1	-2.3		4.6		8.2	
	Q2	36.3		7.9		16.4	
	Q3	-12.6		5.5		19.7	
	Q4	-2.2		5.9		23.9	
2022	Q1	3.2		5.6		26.3	
	Q2	28.7		18.1		26.6	
	Q3 <sup>r</sup>	43.6		21.7		21.9	
	Q4 <sup>p</sup>	32.9		20.3		9.0	
% Perubahan / % Changes (QoQ)							
2019	Q1	0.9	3.0	1.5	1.8	-3.8	-3.8
	Q2	1.3	6.2	-0.8	1.1	-1.7	-1.7
	Q3	4.7	-1.6	-1.1	0.9	4.7	4.7
	Q4	1.1	-1.6	7.5	0.9	8.6	4.7
2020	Q1	-5.7	-2.6	0.5	0.6	-4.1	-4.1
	Q2	-34.0	-30.8	-0.9	1.3	-0.6	-0.6
	Q3	48.0	38.0	1.9	4.0	5.4	5.4
	Q4	0.1	-1.2	1.5	-2.6	9.4	9.4
2021	Q1	-0.1	3.9	2.0	4.2	-5.7	-5.7
	Q2	-7.8	-1.8	2.3	2.6	7.0	7.0
	Q3	-5.1	-13.4	-0.4	1.3	8.3	8.3
	Q4	12.0	10.5	1.9	-2.2	13.3	13.3
2022	Q1	5.3	9.9	1.7	1.8	-3.9	-3.9
	Q2	15.0	22.2	14.4	17.2	7.3	7.3
	Q3 <sup>r</sup>	5.9	-3.4	2.7	4.8	4.3	4.3
	Q4 <sup>p</sup>	3.6	2.3	0.7	-3.7	1.3	1.3
Sub-sector		Retail Sale of Other Goods in Specialised Stores		Retail Sale Via Stalls & Markets		Retail Trade Not in Stores, Stalls or Markets	

<sup>r</sup> Data awalan / Preliminary data

\* Indeks volum pelarasan bermusim adalah sama dengan indeks asal kerana tiada corak bermusim dikesan pada siri data  
Seasonally adjusted volum index is the same as original index because no seasonal pattern is detected in the data series

**NOTA TEKNIKAL**  
*TECHNICAL NOTES*

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## NOTA TEKNIKAL

### 1. Pengenalan

**Indeks Volum Perdagangan Borong & Runcit** mula dibangunkan secara berperingkat pada tahun 2008 bermula dengan Perdagangan Runcit dan Kenderaan Bermotor. Pada tahun 2009, Indeks Volum Perdagangan Borong telah mula dibangunkan dan seterusnya Komposit Indeks Volum Perdagangan Borong & Runcit telah disusun mulai suku ketiga 2010. Indeks Volum Perdagangan Borong & Runcit telah dikeluarkan kepada umum mulai rujukan suku pertama 2012. Indeks volum Perdagangan Borong & Runcit digunakan untuk menilai prestasi semasa aktiviti jualan dalam subsektor Perdagangan Borong, Perdagangan Runcit dan Kenderaan Bermotor.

### 2. Objektif

Objektif penyusunan Indeks Volum Perdagangan Borong & Runcit adalah :

- a. Mengukur perubahan corak dan prestasi subsektor Borong, Runcit dan Kenderaan Bermotor secara suku tahunan dan tahunan;
- b. Memberikan maklumat yang relevan dan terkini terhadap pencapaian aktiviti perdagangan edaran; dan
- c. Memberikan penunjuk segera terhadap perubahan corak perbelanjaan pengguna.

### 3. Jenis Indeks

Indeks Volum Perdagangan Borong & Runcit diukur pada tempoh rujukan berbanding tahun asas, (2015=100).

### 4. Sumber Data

Indeks Volum Perdagangan Borong & Runcit dibentuk berdasarkan data daripada Survei Bulanan Perdagangan Borong & Runcit. Pertubuhan yang memberi sumbangan yang signifikan terhadap nilai jualan setiap kumpulan dalam subsektor Perdagangan Borong, Perdagangan Runcit dan Kenderaan Bermotor telah dipilih dalam penyusunan indeks.

### 5. Skop dan Liputan

Indeks Volum Perdagangan Borong & Runcit meliputi 179 industri yang merangkumi Indeks Volum Perdagangan Borong, Perdagangan Runcit dan Kenderaan Bermotor.

Indeks Volum Perdagangan Borong meliputi tujuh kumpulan seperti di bawah:

- a. Jualan borong berdasarkan kontrak atau yuran
- b. Jualan borong bahan mentah pertanian dan haiwan hidup
- c. Jualan borong makanan, minuman dan tembakau
- d. Jual borong barangan isi rumah
- e. Jualan borong jentera, peralatan dan bekalan
- f. Lain-lain pengkhususan jual borong
- g. Perdagangan borong tanpa pengkhususan

Indeks Volum Perdagangan Runcit meliputi sembilan kumpulan seperti di bawah:

- a. Jualan di kedai bukan pengkhususan
- b. Jualan runcit makanan, minuman dan tembakau di kedai pengkhususan
- c. Jualan runcit di kedai khusus yang menjual bahan api kenderaan
- d. Jualan runcit di kedai khusus yang menjual peralatan komunikasi dan maklumat
- e. Jualan runcit di kedai khusus yang menjual peralatan lain isi rumah
- f. Jualan runcit di kedai khusus yang menjual barangan kesenian dan rekreasi
- g. Jualan runcit di kedai khusus yang menjual barangan lain

- h. Jualan runcit di gerai dan pasar
- i. Jualan runcit bukan di kedai, gerai atau pasar

Indeks Volum Kenderaan Bermotor meliputi empat kumpulan seperti di bawah:

- a. Jualan kenderaan bermotor
- b. Penyelenggaraan dan pembaikan kenderaan bermotor
- c. Jualan komponen dan aksesori kenderaan bermotor
- d. Jualan penyelenggaraan dan pembaikan motosikal dan komponen dan aksesori berkaitan

Klasifikasi industri yang digunakan adalah berdasarkan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008. MSIC 2008 yang digunakan adalah selaras dengan *International Standard Industrial Classification (ISIC), Revision 4, United Nations Statistics Division*.

## 6. Wajaran

Bermula daripada suku tahun pertama 2016, wajaran yang digunakan dalam pengiraan Indeks Volum Perdagangan Borong & Runcit adalah merujuk kepada nilai ditambah yang diperolehi daripada Banci Perdagangan Edaran 2014 (tahun rujukan 2013).

Wajaran industri adalah berpandukan kepada nisbah nilai ditambah terhadap kumpulan dan subsektor masing-masing yang diliputi dalam Banci Perdagangan Edaran 2014 (tahun rujukan 2013). Wajaran adalah dikira berdasarkan formula berikut:

$$W_{ij} = \frac{V_{ij}}{V_j}$$

$W_{ij}$

$V_{ij}$

Di mana :

$V_j$

ialah pembahagian relatif bagi industri  $i$  terhadap kumpulan  $j$ ;

ialah jumlah nilai ditambah bagi industri  $i$  terhadap kumpulan  $j$ ; dan

ialah jumlah nilai ditambah bagi subsektor utama  $j$

## 7. Prosedur Pengiraan

Berkuatkuasa mulai penerbitan untuk rujukan suku tahun pertama 2016, kaedah indeks rantaian Laspeyres akan digunakan dalam pengiraan Indeks Volum Perdagangan Borong & Runcit. Ia menggunakan asas rujukan Disember 2015 = 100.

Indeks Volum Perdagangan Borong & Runcit dihitung sebagai indeks rantaian bakul tetap. Ini bermakna bahawa urutan indeks bakul tetap dirantai bersama untuk mewujudkan satu siri masa yang berterusan. Perkara ini perlu untuk mengelakkan perubahan yang tidak dijangka dalam indeks apabila pengemaskinian bakul dilakukan.

Dalam usaha untuk indeks dirantai bersama antara bakul, *annual chain-linked monthly Laspeyres* telah digunakan. Bulan pautan adalah pada Disember 2015.

$$I_{2010:t \text{ dirantai}} = I_{Dis2015:t 2013} \times I_{Dis2015 2010}$$

di mana:

$I_{2010:t \text{ dirantai}}$  adalah indeks rantaian bagi tempoh pemerhatian output  $t$  dengan tempoh rujukan output 2010;

Dalam kes indeks rantaian, penjumlahan indeks purata berwajaran bagi kumpulan peringkat rendah atau industri adalah tidak sepadan dengan kumpulan peringkat yang lebih tinggi (indeks rantaian tidak berdaya tambah).

Indeks Volum Perdagangan Borong & Runcit disusun dengan menjumlahkan nilai jualan bagi setiap pertubuhan yang berada dalam satu industri yang sama dan mendeflasi dengan deflator harga. Formula Laspeyres digunakan dalam menyusun indeks ini.

Oleh itu, indeks bagi kumpulan  $i$  daripada subsektor utama  $j$ :

$$I_{ij,t} = \frac{R_{ij,t}}{R_{ij,0}} \times 100$$

$I_{ij,t}$  Di mana:

merujuk kepada pengiraan relatif jualan bagi industri  $i$  terhadap kumpulan  $j$  pada masa  $t$  (tempoh semasa);

$R_{ij,t}$  adalah agregat jualan yang telah dideflasi dengan deflator harga bagi industri  $i$  terhadap kumpulan  $j$  pada masa  $t$  (tempoh semasa); dan

$R_{ij,0}$  adalah purata agregat jualan yang telah dideflasi dengan deflator harga bagi industri  $i$  terhadap kumpulan  $j$  pada masa 0 (tempoh asas=2010).

Indeks untuk kumpulan  $j$  :

$$I_{j,t} = \frac{\sum(W_{ij}I_{ij,t})}{\sum W_{ij}}$$

Di mana :

$I_{j,t}$

$W_{ij}$  merujuk kepada indeks bagi kumpulan  $j$  pada masa  $t$ ;

$I_{j,t}$  adalah syer relatif bagi nilai ditambah industri  $i$  terhadap jumlah nilai ditambah kumpulan  $j$ ; dan

adalah pengiraan indeks bagi industri  $i$  terhadap kumpulan  $j$  pada masa  $t$ .

## 8. Pendeflasi Harga

Item bagi setiap subsektor dipilih daripada bakul barangan Indeks Harga Pengguna (IHP) dan Indeks Harga Pengeluar (IHPR) dan perubahan harga diperingkat subsektor diukur.

## 9. Asas Masa

“Tempoh rujukan indeks” di mana indeks diberi nilai 100 adalah tahun 2015 Tempoh asas bagi Indeks Volum Perdagangan Borong & Runcit dikemaskini setiap 5 tahun.

## 10. Perubahan Peratusan Indeks

Peratus perubahan indeks dikira berdasarkan formula berikut:

$$y_t = \frac{I_t - I_{t-1}}{I_{t-1}} \times 100$$

Di mana:

$y_t$  merujuk kepada peratus perubahan indeks;

$I_t$  adalah indeks pada masa  $t$  (tempoh semasa); dan

$I_{t-1}$  adalah indeks pada masa  $t-1$  (tempoh sebelum).

## 11. Pelarasan Musim

Data siri masa adalah amat berguna untuk ahli ekonomi, pembuat dasar & polisi dan penganalisis siri masa untuk mengenal pasti ciri-ciri penting siri ekonomi seperti arah, *turning point* dan konsistensi antara penunjuk ekonomi yang lain. Kadang-kadang ciri ini sukar untuk diperhatikan kerana pergerakan musim. Oleh itu, sekiranya kesan musim boleh disingkirkan, perilaku data siri ini dapat dilihat dengan lebih baik. Anggaran dan penyingkiran kesan musim dikenali sebagai **pelarasan musim**.

Pelarasan musim adalah satu proses untuk mengenal pasti dan menyingkirkan bentuk pola musim yang biasa berlaku dalam tempoh satu tahun, yang mungkin juga merangkumi pengaruh dari kesan cuti yang bergerak dan hari bekerja/berdagang bagi suatu tempoh. Objektif utama proses ini adalah untuk menunjukkan arah aliran dan pergerakan jangka pendek dalam siri ini.

Di Malaysia, kebanyakan data siri masa terjejas oleh kesan musim. Oleh itu, untuk menghapuskan kesan musim dan juga melaraskan musim data siri masa ekonomi Malaysia, pakej pelarasan musim standard, X-12 ARIMA telah digunakan oleh Jabatan Perangkaan Malaysia.

Data siri masa ekonomi Malaysia dipengaruhi oleh perayaan utama seperti Aidil Fitri bagi umat Islam, Tahun Baru Cina untuk kaum Cina dan Deepavali untuk kaum India. Tarikh perayaan-perayaan ini tetap mengikut tahun lunar tetapi berbeza-beza mengikut kalendar Gregorian. Oleh itu, untuk menganggar dan menyingkirkan kesan cuti yang bergerak dari data siri masa, satu prosedur telah dibangunkan iaitu *Seasonal Adjustment for Malaysia* (SEAM).

## 12. Konsep dan Definisi

Konsep dan definisi Perdagangan Borong & Runcit yang diguna pakai dalam penerbitan ini berasaskan saranan di dalam Manual *International Recommendations for Distributive Trade Statistics (IRDTS) 2008* yang diterbitkan oleh *United Nations Statistics Division*.

**13. Pertubuhan** ditakrifkan sebagai "satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah. Ia menjalankan satu jenis aktiviti ekonomi utama di satu tempat/lokasi fizikal".

**14. Perdagangan Borong** ditakrifkan sebagai "penjualan semula (tanpa pengubahsuaian) barangan baru dan barangan yang telah digunakan kepada peruncit, pengguna perindustrian, perdagangan, institusi atau profesional; atau kepada pemborong lain; atau bertindak sebagai agen atau broker dalam pembelian barang dagangan untuk, atau menjual dagangan kepada orang atau syarikat berkenaan".

**15. Perdagangan Runcit** ditakrifkan sebagai "penjualan semula (tanpa pengubahsuaian) barang baru dan terpakai kepada orang awam untuk kegunaan persendirian atau isi rumah".



**16. Kenderaan Bermotor** meliputi jualan secara borong dan runcit kenderaan bermotor dan motosikal, sama ada baru atau terpakai, jualan alat-alat ganti dan aksesori kenderaan, penyelenggaraan dan pembaikan kenderaan bermotor dan motosikal termasuk mencuci, mengilap dan menunda kenderaan serta kegiatan agen berkominen yang terlibat dalam jualan.

#### **17. Polisi Pindaan**

- Bagi data bulanan, perubahan tertakluk kepada sumber data, semakan adalah t-1 di mana t merujuk kepada bulan semasa.
- Bagi data suku tahunan, perubahan tertakluk kepada sumber data, semakan adalah t-1 di mana t merujuk kepada suku tahun.semasa.
- Bagi data tahunan, perubahan tertakluk kepada sumber data, semakan adalah t-3 di mana t merujuk kepada tahun semasa.

#### **18. Pembundaran**

Jumlah bagi komponen mungkin berbeza daripada jumlah besar di jadual penerbitan ini oleh kerana pembundaran angka.

#### **19. Singkatan**

QoQ	Suku Tahun ke Suku Tahun
YoY	Tahun ke Tahun
t.t.t.l.	Tidak terkelas di tempat lain
SA	Pelarasan Musim
P	Permulaan
r	Pindaan

## **TECHNICAL NOTES**

### **1. Introduction**

*The Volume Index of Wholesale & Retail Trade was first developed in 2008 in stages with the Retail Trade and Motor Vehicles. In 2009, the Volume Index of Wholesale Trade was constructed and subsequently the Composite Volume Index of Wholesale & Retail Trade was compiled beginning third quarter 2010. The Volume Index of Wholesale & Retail Trade was released to public commencing for reference of first quarter 2012. The Volume Index of Wholesale & Retail Trade is used to assess the current performance of sales activity in the Wholesale Trade, Retail Trade and Motor Vehicles sub-sectors.*

### **2. Objectives**

*The objectives of the compilation of the Volume Index of Wholesale & Retail Trade are :*

- a. Measure quarterly and annual changes on the pattern and performance of Wholesale, Retail and Motor Vehicles sub-sectors;*
- b. Provide relevant and timely information on the performances of distributive trade activities; and*
- c. Produce a quick indication of the changes in the trend of consumer spending.*

### **3. Type of Index**

*The Volume Index of Wholesale & Retail Trade measured in the reference period as compared to the base period, (2015=100).*

### **4. Data Sources**

*The Volume Index of Wholesale & Retail Trade is compiled from the Monthly Survey of Wholesale & Retail Trade. The establishments which contributed significantly to the sales value in each group of Wholesale Trade, Retail Trade and Motor Vehicles sub-sectors are selected in the index compilation.*

### **5. Scope and Coverage**

*The Volume Index of Wholesale & Retail Trade covers 179 industries which encompasses the Volume Index of Wholesale Trade, Retail Trade and Motor Vehicles.*

*The Volume Index of Wholesale Trade covered seven groups as below:*

- a. Wholesale on a fee or contract basis*
- b. Wholesale of agricultural raw materials and lives animals*
- c. Wholesale of food, beverages and tobacco*
- d. Wholesale of household goods*
- e. Wholesale of machinery, equipment and supplies*
- f. Other specialised wholesale*
- g. Non - specialised wholesale trade*

*The Volume Index of Retail Trade covered nine groups as below:*

- a. Retail sale in non-specialised stores*
- b. Retail sale of food, beverages and tobacco in specialised stores*
- c. Retail sale of automotive fuel in specialised stores*
- d. Retail sale of information and communications equipment in specialised stores*
- e. Retail sale of other household equipment in specialised stores*
- f. Retail sale of cultural and recreation goods in specialised stores*

- g. Retail sale of other goods in specialised stores
- h. Retail sale via stalls and markets
- i. Retail trade not in stores, stalls or markets

The Volume Index of Motor Vehicles covered four groups as below:

- a. Sale of motor vehicles
- b. Maintenance and repair of motor vehicles
- c. Sale of motor vehicles parts and accessories
- d. Sale, maintenance and repair of motorcycles and related parts and accessories

The classification of the industry used is based on the Malaysia Standard Industrial Classification (MSIC) 2008. The MSIC 2008 is inline with the International Standard Industrial Classification (ISIC), Revision 4, United Nations Statistics Division.

## 6. Weights

Commencing first quarter 2016, the weights used in the calculation of the Volume Index of Wholesale & Retail Trade are based on value added obtained from the Census of Distributive Trade 2014 (reference year 2013).

The weights of the industry are obtained from the ratios of the total value added to the sub-sector and group covered in the Census of Distributive Trade 2014 (reference year 2013). The weights are computed using the following formula:

$$W_{ij} = \frac{V_{ij}}{V_j}$$

Where :

$V_{ij}$  is the relative share of industry  $i$  to the group  $j$ ;

$V_j$  is the total value added of industry  $i$  of group  $j$ ; and

is the total value added of group  $j$ .

## 7. Computational Procedures

Effective with release of publication for the reference of first quarter 2016, Laspeyres Chain Index method will be used in the calculation of the Volume Index of Wholesale & Retail Trade. It employs a December 2015=100 reference base.

The Volume Index of Wholesale & Retail Trade are calculated as a chain of fixed-basket indices. This means that a sequence of fixed-basket indices have been chained together to create a continuous time series. This is necessary to avoid having breaks in an index when a basket update is performed.

In order to chain indices across baskets, annual chain-linked monthly Laspeyres is used. The link month is at December 2015.

$$I_{2010:t \text{ chained}} = I_{\text{Dec}2015:t \text{ 2013}} \times I_{\text{Dec}2015 \text{ 2010}}$$

where:

$I_{2010:t \text{ chained}}$  is a chained index for the output observation period  $t$  with a output reference period equal to 2010;

$I_{\text{Dec}2015:t \text{ 2013}}$  is an index for December 2015, calculated using the 2013 basket;

In the case of the chain index, the weighted averages of indices of lower level groups or industry do not match those of the corresponding upper level groups (the chain index has no additivity).

The Volume Index of Wholesale & Retail Trade is generated by aggregating the sales value of establishments belonging to the same industry and deflated the aggregate value using price deflator. The Laspeyres formula is used to compile these indices.

Thus, index for the sub-sector group  $i$  of sub-sector  $j$ :

$$I_{ij,t} = \frac{R_{ij,t}}{R_{ij,0}} \times 100$$

Where :

$I_{ij,t}$  refers to the computed sales relative for industry  $i$  of group  $j$  at time  $t$  (current period);  
 $R_{ij,t}$  is the aggregated sales which deflated with price deflator for industry  $i$  of group  $j$  at time  $t$  (current period); and  
 $R_{ij,0}$  is the average aggregated sales which is deflated with price deflator for industry  $i$  of group  $j$  at time 0 (base period=2010).

The index for the group  $j$  is :

$$I_{j,t} = \frac{\sum (W_{ij} I_{ij,t})}{\sum W_{ij}}$$

$I_{j,t}$  Where :

$W_{ij}$  refers to the index for group  $j$  at time  $t$ ;

$I_{j,t}$  is the relative share of value added industry  $i$  to the total value added group  $j$ ; and

is the aggregated index for industry  $i$  of group  $j$  at time  $t$ .

## 8. Price Deflator

Items of each sub-sector are selected from the basket of goods of Consumer Price Index (CPI) and Producer Price Index (PPI) and the price changes at sub-sector level are measured.

## 9. Time Base

The 'index reference period' in which the index is given a value of 100 is the year 2015. The base period for the Volume Index of Wholesale & Retail Trade is revised approximately every 5 years.

## 10. Index Changes

Percentage formula:

$$y_t = \frac{I_t - I_{t-1}}{I_{t-1}} \times 100$$

change of the index is calculated based on the following

Where:

$y_t$  refers to index percentage change;

$I_t$  is the index at time  $t$  (current period); and

$I_{t-1}$  is the index at time  $t-1$  (previous period).

## 11. Seasonal Adjustment

Time-series data are very useful for economists, policy & decision makers and time-series analysts to identify the important features of economic series such as direction, turning point and consistency between other economic indicators. Sometimes this feature is difficult to observe because of seasonal movements. Thus, if the seasonal effect can be removed, the real behaviour of the series would be revealed. The estimation and removal of the seasonal effects is known as **seasonal adjustment**.

Seasonal adjustment is a process to identify and to remove the regular within-a-year seasonal pattern, which may also include the influences of moving holidays and working/trading days effect in each period. The ultimate objective of the process is to highlight the underlying trends and short-term movements in the series.

In Malaysia, most of the time series data are affected by seasonal effects. Hence, to eliminate the seasonal effect as well as to seasonally adjust the Malaysian economic time series data, a standard seasonal adjustment package, X-12 ARIMA was used by Department of Statistics, Malaysia.

Malaysian economic time series data are affected by major festivals such as Eid-ul Fitr of the Muslims, Chinese New Year of the Chinese and Deepavali of the Indians. These festivals' dates are fixed according to the lunar year but vary according to the Gregorian calendar. Therefore, to estimate and remove moving holiday effect from time-series data, a procedure was developed, namely Seasonal Adjustment for Malaysia (SEAM).

## 12. Concepts and Definitions

The concepts and definitions of Wholesale & Retail Trade adopted in this publication is based on the Manual of International Recommendations for Distributive Trade Statistics (IRDTS) 2008 published by the United Nations Statistics Division.

**13. An establishment** is defined as "an economic unit that engaged in one activity, under a single legal entity and operating in a single physical location".

**14. Wholesale Trade** refers to "the resale (sale without transformation) of new and used goods to retailers; to industrial, commercial, institutional or professional users; or to other wholesalers; or involves acting as an agent or broker in buying merchandise for, or selling merchandise to, such persons or companies".

**15. Retail Trade** refers to "the resale (sale without transformation) of new and used goods to the general public for personal or household consumption or utilization."

**16. Motor Vehicles** refer to activity of wholesale and retail sale of motor vehicles and motorcycles, either new or used, sale of motor vehicle parts and accessories, maintenance and repair of motor vehicles and motorcycles including washing, polishing and towing as well as commission agents.

## **17. REVISION POLICY**

- *For monthly data, subject to changes in data source, revision is t-1 where t refers to current month.*
- *For quarterly data, subject to changes in data source, revision is t-1 where t refers to current quarter.*
- *For annual data, subject to changes in data source, revision is t-3 where t refers to current year.*

## **18. Rounding**

*The sum of components may not add up to the total in the tables presented in this publication due to rounding.*

## **19. Abbreviation**

QoQ	Quarter-on-Quarter
YoY	Year-on-Year
n.e.c.	Not elsewhere classified
SA	Seasonal Adjustment
P	Preliminary
r	Revision

**LAMPIRAN**  
*APPENDIX*

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## LAMPIRAN / APPENDIX

### Piawaian Klasifikasi Industri Malaysia 2008 Ver. 1.0 / Malaysia Standard Industrial Classification 2008 Ver.1.0

<b>Perdagangan Borong</b> <i>Wholesale Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
46	461		<b>Jualan borong berdasarkan kontrak atau yuran</b> <i>Wholesale on a fee or contract basis</i>
		46100	<b>Jualan borong berdasarkan kontrak atau yuran</b> <i>Wholesale on a fee or contract basis</i>
	462		<b>Jualan borong bahan mentah pertanian dan haiwan hidup</b> <i>Wholesale of agricultural raw materials and live animals</i>
		46201	<b>Jualan borong getah</b> <i>Wholesale of rubber</i>
		46202	<b>Jualan borong minyak kelapa sawit</b> <i>Wholesale of palm oil</i>
		46203	<b>Jualan borong kayu balak dan kayu kayan</b> <i>Wholesale of lumber and timber</i>
		46204	<b>Jualan borong bunga-bunga dan tumbuh-tumbuhan</b> <i>Wholesale of flowers and plants</i>
		46205	<b>Jualan borong ternakan</b> <i>Wholesale of livestock</i>
		46209	<b>Jualan borong bahan mentah pertanian dan haiwan hidup t.t.t.l</b> <i>Wholesale of agricultural raw material and live animals n.e.c</i>
	463		<b>Jualan borong makanan, minuman dan tembakau</b> <i>Wholesale of food, beverages and tobacco</i>
		46311	<b>Jualan borong daging, unggas dan telur</b> <i>Wholesale of meat, poultry and eggs</i>
		46312	<b>Jualan borong ikan dan lain-lain makanan laut</b> <i>Wholesale of fish and other seafood</i>
		46313	<b>Jualan borong buah-buahan</b> <i>Wholesale of fruits</i>
		46314	<b>Jualan borong sayur-sayuran</b> <i>Wholesale of vegetables</i>
		46319	<b>Jualan borong daging, ikan, buah-buahan dan sayur-sayuran t.t.t.l</b> <i>Wholesale of meat, fish, fruits and vegetables n.e.c</i>
		46321	<b>Jualan borong beras, bijirin lain, tepung dan gula</b> <i>Wholesale of rice, other grains, flour and sugars</i>
		46322	<b>Jualan borong hasil tenusu</b> <i>Wholesale of dairy products</i>
		46323	<b>Jualan borong konfeksi</b> <i>Wholesale of confectionary</i>
		46324	<b>Jualan borong biskut, kek, roti dan produk bakeri lain</b> <i>Wholesale of biscuits, cakes, breads and other bakery products</i>
		46325	<b>Jualan borong kopi, teh dan minuman lain</b> <i>Wholesale of coffee, tea, cocoa and other beverages</i>

<b>Perdagangan Borong</b>			
<i>Wholesale Trade</i>			
<b>BAHAGIAN</b>	<b>KUMPULAN</b>	<b>PERKARA</b>	<b>KETERANGAN</b>
<i>DIVISION</i>	<i>GROUP</i>	<i>ITEM</i>	<i>DESCRIPTION</i>
		<b>46326</b>	<b>Jualan borong bir, wain dan spirit</b> <i>Wholesale of beer, wine and spirits</i>
		<b>46327</b>	<b>Jualan borong tembakau, cerut, rokok</b> <i>Wholesale of tobacco, cigar, cigarettes</i>
		<b>46329</b>	<b>Jualan borong bahan makanan lain</b> <i>Wholesale of other foodstuffs</i>
	<b>464</b>		<b>Jualan borong barangan isi rumah</b> <i>Wholesale of household goods</i>
		<b>46411</b>	<b>Jualan borong benang dan fabrik</b> <i>Wholesale of yarn and fabrics</i>
		<b>46412</b>	<b>Jualan borong linen, tuala dan selimut isi rumah</b> <i>Wholesale of household linen, towels, blankets</i>
		<b>46413</b>	<b>Jualan borong pakaian</b> <i>Wholesale of clothing</i>
		<b>46414</b>	<b>Jualan borong aksesori pakaian</b> <i>Wholesale of clothing accessories</i>
		<b>46415</b>	<b>Jualan borong pakaian daripada bulu binatang</b> <i>Wholesale of fur articles</i>
		<b>46416</b>	<b>Jualan borong kasut</b> <i>Wholesale of footwear</i>
		<b>46417</b>	<b>Jualan borong bahan jahitan</b> <i>Wholesale of haberdashery</i>
		<b>46419</b>	<b>Jualan borong tekstil, pakaian, t.t.t.l</b> <i>Wholesale of textiles, clothing n.e.c</i>
		<b>46421</b>	<b>Jualan borong barangan farmaseutikal dan perubatan</b> <i>Wholesale of pharmaceutical and medical goods</i>
		<b>46422</b>	<b>Jualan borong pewangi, kosmetik, sabun dan kelengkapan dandanan diri</b> <i>Wholesale of perfumeries, cosmetics, soap and toiletries</i>
		<b>46431</b>	<b>Jualan borong basikal dan komponen (termasuk alat ganti) dan aksesori</b> <i>Wholesale of bicycles and their parts and accessories</i>
		<b>46432</b>	<b>Jualan borong barangan fotografi dan optic</b> <i>Wholesale of photographic and optical goods</i>
		<b>46433</b>	<b>Jualan borong barangan kulit dan aksesori kembara</b> <i>Wholesale of leather goods and travel accessories</i>
		<b>46434</b>	<b>Jualan borong peralatan muzik, permainan dan barang mainan, barangan sukan</b> <i>Wholesale of musical instruments, games and toys, sports goods</i>
		<b>46441</b>	<b>Jualan borong kraftangan dan bunga tiruan</b> <i>Wholesale of handicrafts and artificial flowers</i>
		<b>46442</b>	<b>Jualan borong bunga keratan dan tumbuhan</b> <i>Wholesale of cut flowers and plants</i>

<b>Perdagangan Borong</b> <i>Wholesale Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		46443	<b>Jualan borong jam tangan dan jam dinding</b> <i>Wholesale of watches and clocks</i>
		46444	<b>Jualan borong barang kemas</b> <i>Wholesale of jewellery</i>
		46491	<b>Jualan borong perabot isi rumah</b> <i>Wholesale of household furniture</i>
		46492	<b>Jualan borong perkakas isi rumah</b> <i>Wholesale of household appliances</i>
		46493	<b>Jualan borong peralatan lampu</b> <i>Wholesale of lighting equipment</i>
		46494	<b>Jualan borong perkakas dapur dan kutleri, pinggan mangkuk, barangan kaca dan barangan tembikar</b> <i>Wholesale of household utensils and cutlery, crockery, glassware, chinaware and pottery</i>
		46495	<b>Jualan borong barangan kayu, anyaman rotan dan barangan gabus</b> <i>Wholesale of woodenware, wickerwork and corkware</i>
		46496	<b>Jualan borong barangan elektrik dan elektronik</b> <i>Wholesale of electrical and electronic goods</i>
		46497	<b>Jualan borong alat tulis, buku, majalah dan surat khabar</b> <i>Wholesale of stationery, books, magazines and newspaper</i>
		46499	<b>Jualan borong lain-lain barangan isi rumah t.t.t.l</b> <i>Wholesale of other household goods n.e.c</i>
	465		<b>Jualan borong jentera, peralatan dan bekalan</b> <i>Wholesale of machinery, equipment and supplies</i>
		46510	<b>Jualan borong perkakasan komputer, perisian dan peranti</b> <i>Wholesale of computer hardware, software and peripherals</i>
		46521	<b>Jualan borong kelengkapan telefon dan telekomunikasi, telefon selular, alat kelui</b> <i>Wholesale of telephone and telecommunications equipment, cell phones, pagers</i>
		46522	<b>Jualan borong komponen elektronik dan aksesori pendawaian</b> <i>Wholesale of electronic components and wiring accessories</i>
		46531	<b>Jualan borong jentera, kelengkapan dan bekalan pertanian</b> <i>Wholesale of agricultural machinery, equipment and supplies</i>
		46532	<b>Jualan borong jentera pemotong rumput sebarang cara operasi</b> <i>Wholesale of lawn movers howewer operated</i>
		46591	<b>Jualan borong mesin pejabat dan kelengkapan perniagaan, kecuali komputer dan kelengkapan peranti komputer (peripheral)</b> <i>Wholesale of office machinery and business equipment, except computers and computer peripheral equipment</i>
		46592	<b>Jualan borong perabot pejabat</b> <i>Wholesale of office furniture</i>
		46593	<b>Jualan borong peralatan mesin berkawalan komputer</b> <i>Wholesale of computer-controlled machines tools</i>
		46594	<b>Jualan borong jentera, kelengkapan dan bekalan perindustrian</b> <i>Wholesale of industrial machinery, equipment and supplies</i>

<b>Perdagangan Borong</b> <i>Wholesale Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		<b>46595</b>	<b>Jualan borong jentera dan kelengkapan pembinaan dan kejuruteraan awam</b> <i>Wholesale of construction and civil engineering machinery and equipment</i>
		<b>46596</b>	<b>Jualan borong lif, eskalator, penghawa dingin, kelengkapan keselamatan dan pemadam api</b> <i>Wholesale of lift escalators, air-conditioning, security and fire fighting equipment</i>
		<b>46599</b>	<b>Jualan borong lain-lain jentera untuk kegunaan industri, perdagangan dan pengemudian dan lain-lain perkhidmatan t.t.t.l</b> <i>Wholesale of other machinery for use in industry, trade and navigation and other services n.e.c</i>
	<b>466</b>		<b>Lain-lain pengkhususan jualan borong</b> <i>Other specialised wholesale</i>
		<b>46611</b>	<b>Jualan borong petrol, diesel, pelincir</b> <i>Wholesale of petrol, diesel, lubricants</i>
		<b>46612</b>	<b>Jualan borong gas petroleum cecair</b> <i>Wholesale of liquefied petroleum gas</i>
		<b>46619</b>	<b>Jualan borong bahan api pepejal, cecair dan gas dan produk berkaitan t.t.t.l</b> <i>Wholesale of other solid, liquid and gaseous fuels and related products n.e.c</i>
		<b>46621</b>	<b>Jualan borong bijih besi dan bukan besi dan logam</b> <i>Wholesale of ferrous and non-ferrous metal ores and metals</i>
		<b>46622</b>	<b>Jualan borong bijih besi dan bukan besi dan logam separuh siap dan produk t.t.t.l</b> <i>Wholesale of ferrous and non-ferrous semi-finished metal ores and products n.e.c</i>
		<b>46631</b>	<b>Jualan borong kayu balak, kayu bergergaji, papan lapis, venier dan produk berkaitan</b> <i>Wholesale of logs, sawn timber, plywood, veneer and related products</i>
		<b>46632</b>	<b>Jualan borong cat dan varnish</b> <i>Wholesale of paints and varnish</i>
		<b>46633</b>	<b>Jualan borong bahan pembinaan</b> <i>Wholesale of construction materials</i>
		<b>46634</b>	<b>Jualan borong kelengkapan dan lekapan</b> <i>Wholesale of fittings and fixtures</i>
		<b>46635</b>	<b>Jualan borong pemanas air</b> <i>Wholesale of hot water heaters</i>
		<b>46636</b>	<b>Jualan borong pemasangan dan peralatan kebersihan</b> <i>Wholesale of sanitary installation and equipment</i>
		<b>46637</b>	<b>Jualan borong alatan</b> <i>Wholesale of tools</i>
		<b>46639</b>	<b>Jualan borong dan bekalan lain-lain bahan binaan, hardwer, peralatan paip dan alat pemanas t.t.t.l</b> <i>Wholesale of other construction materials, hardware, plumbing and heating equipment and supplies n.e.c</i>
		<b>46691</b>	<b>Jualan borong bahan kimia industri</b> <i>Wholesale of industrial chemicals</i>

<b>Perdagangan Borong</b>			
<i>Wholesale Trade</i>			
<b>BAHAGIAN</b>	<b>KUMPULAN</b>	<b>PERKARA</b>	<b>KETERANGAN</b>
<i>DIVISION</i>	<i>GROUP</i>	<i>ITEM</i>	<i>DESCRIPTION</i>
		<b>46692</b>	<b>Jualan borong baja dan produk agrokimia</b> <i>Wholesale of fertilizers and agrochemical products</i>
		<b>46693</b>	<b>Jualan borong bahan plastik dalam bentuk asal</b> <i>Wholesale of plastic materials in primary forms</i>
		<b>46694</b>	<b>Jualan borong sekerap getah</b> <i>Wholesale of rubber scrap</i>
		<b>46695</b>	<b>Jualan borong gentian tekstil</b> <i>Wholesale of textile fibres</i>
		<b>46696</b>	<b>Jual borong kertas secara pukal, bahan pembungkusan</b> <i>Wholesale of paper in bulk, packaging materials</i>
		<b>46697</b>	<b>Jual borong batu permata berharga</b> <i>Wholesale of precious stones</i>
		<b>46698</b>	<b>Jual borong bahan buangan dan sekerap dan bahan lain sama ada logam dan bukan logam untuk kitar semula</b> <i>Wholesale of metal and non-metal waste and scrap and materials for recycling</i>
		<b>46699</b>	<b>Meleraikan bahagian kenderaan, komputer, televisyen dan peralatan lain untuk mendapatkan bahagian yang boleh digunakan dan jual semula</b> <i>Dismantling of automobiles, computer, televisions and other equipment to obtain and re-sell usable parts</i>
	<b>469</b>		<b>Perdagangan borong tanpa pengkhususan</b> <i>Non-specialised wholesale trade</i>
		<b>46901</b>	<b>Jualan borong ikan akuarium, burung dan haiwan peliharaan</b> <i>Wholesale of aquarium fishes, pet birds and animals</i>
		<b>46902</b>	<b>Jualan borong makanan haiwan/haiwan peliharaan</b> <i>Wholesale of animal/pet food</i>
		<b>46909</b>	<b>Jualan borong pelbagai jenis barang tanpa pengkhususan tertentu t.t.t.l</b> <i>Wholesale of variety of goods without any particular specialisation n.e.c</i>

<b>Perdagangan Runcit</b> <i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
<b>47</b>	<b>471</b>		<b>Jualan runcit di kedai bukan pengkhususan</b> <i>Retail sale in non-specialised stores</i>
		<b>47111</b>	<b>Kedai runcit</b> <i>Provision stores</i>
		<b>47112</b>	<b>Pasar raya</b> <i>Supermarket</i>
		<b>47113</b>	<b>Pasar mini</b> <i>Mini market</i>
		<b>47114</b>	<b>Kedai 'convenience'</b> <i>Convenience stores</i>
		<b>47191</b>	<b>Gedung serbaneka</b> <i>Department stores</i>
		<b>47192</b>	<b>Gedung serbaneka dan pasar raya</b> <i>Department stores and supermarket</i>
		<b>47193</b>	<b>Pasar raya besar (Hypermarket)</b> <i>Hypermarket</i>
		<b>47194</b>	<b>Agan surat khabar dan kedai pelbagai barangan</b> <i>News agent and miscellaneous goods store</i>
		<b>47199</b>	<b>Jualan runcit lain di kedai tanpa pengkhususan t.t.t.l</b> <i>Other retail sale in non-specialised stores n.e.c</i>
	<b>472</b>		<b>Jualan runcit makanan, minuman dan tembakau di kedai pengkhususan</b> <i>Retail sale of food, beverages and tobacco in specialised stores</i>
		<b>47211</b>	<b>Jualan runcit beras, tepung, bijirin lain dan gula</b> <i>Retail sale of rice, flour, other grains and sugars</i>
		<b>47212</b>	<b>Jualan runcit sayur-sayuran dan buah-buahan segar atau diawet</b> <i>Retail sale of fresh or preserved vegetables and fruits</i>
		<b>47213</b>	<b>Jualan runcit produk tenusu dan telur</b> <i>Retail sale of dairy products and eggs</i>
		<b>47214</b>	<b>Jualan runcit daging dan produk daging (unggas)</b> <i>Retail sale of meat and meat products (including poultry)</i>
		<b>47215</b>	<b>Jualan runcit ikan dan makanan laut lain dan lain-lain produk yang berkaitan</b> <i>Retail sale of fish, other seafood and products thereof</i>
		<b>47216</b>	<b>Jualan runcit produk bakeri dan konfeksi</b> <i>Retail sale of bakery products and sugar confectionery</i>
		<b>47217</b>	<b>Jualan runcit mi, kueh teow, mihun, kulit wantan dan produk makanan lain yang dihasilkan daripada tepung atau soya</b> <i>Retail sale of mee, kuey teow, mee hoon, wantan skins and other food products made from flour or soya</i>

<b>Perdagangan Runcit</b>			
<i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		<b>47219</b>	<b>Jualan runcit produk makanan lain t.t.t.l</b> <i>Retail sale of other food products n.e.c</i>
		<b>47221</b>	<b>Jualan runcit bir, wain dan spirit</b> <i>Retail sale of beer, wine and spirits</i>
		<b>47222</b>	<b>Jualan runcit teh, kopi, minuman ringan, air mineral dan minuman lain</b> <i>Retail sale of tea, coffee, soft drinks, mineral water and other beverages</i>
		<b>47230</b>	<b>Jualan runcit produk tembakau di kedai khusus</b> <i>Retail sale of tobacco products in specialised store</i>
	<b>473</b>		<b>Jualan runcit di kedai khusus yang menjual bahan api kenderaan</b> <i>Retail sale of automotive fuel in specialised stores</i>
		<b>47300</b>	<b>Jualan runcit bahan api kenderaan di kedai khusus</b> <i>Retail sale of automotive fuel in specialised store</i>
	<b>474</b>		<b>Jualan runcit di kedai khusus yang menjual peralatan komunikasi dan maklumat</b> <i>Retail sale of information and communication equipment in specialised stores</i>
		<b>47411</b>	<b>Jualan runcit komputer, peralatan dan kelengkapan komputer</b> <i>Retail sale of computers, computer equipment and supplies</i>
		<b>47412</b>	<b>Jualan runcit konsol permainan video dan perisian bukan ditempah khas</b> <i>Retail sale of video game consoles and non-customised software</i>
		<b>47413</b>	<b>Jualan runcit di peralatan telekomunikasi</b> <i>Retail sale of telecommunication equipment</i>
		<b>47420</b>	<b>Jualan runcit peralatan audio dan video di kedai pengkhususan</b> <i>Retail sale of audio and video equipment in specialised store</i>
	<b>475</b>		<b>Jualan runcit di kedai khusus yang menjual peralatan lain isi rumah</b> <i>Retail sale of other household equipment in specialised stores</i>
		<b>47510</b>	<b>Jualan runcit di kedai khusus yang menjual tekstil</b> <i>Retail sale of textiles in specialised stores</i>
		<b>47520</b>	<b>Jualan runcit bahan binaan, perkakasan, cat dan kaca</b> <i>Retail sale of construction materials, hardware, paints and glass</i>
		<b>47531</b>	<b>Jualan runcit karpet dan hamparan</b> <i>Retail sale of carpets and rugs</i>
		<b>47532</b>	<b>Jualan runcit langsir dan net</b> <i>Retail sale of curtain and net curtain</i>
		<b>47533</b>	<b>Jualan runcit kertas dinding dan alas lantai</b> <i>Retail sale of wallpaper and floor coverings</i>
		<b>47591</b>	<b>Jualan runcit perabot isi rumah</b> <i>Retail sale of household furniture</i>

<b>Perdagangan Runcit</b> <i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		47592	<b>Jualan runcit peralatan lampu</b> <i>Retail sale of articles for lighting</i>
		47593	<b>Jualan runcit perkakasan isi rumah, perkakas dapur dan kutleri, pinggan mangkuk, barangan kaca dan barangan tembikar</b> <i>Retail sale of household utensils and cutlery, crockery, glassware, chinaware and pottery</i>
		47594	<b>Jualan runcit kayu, barangan gabus dan barangan anyaman rotan</b> <i>Retail sale of wood, cork goods and wickerwork goods</i>
		47595	<b>Jualan runcit perkakas isi rumah</b> <i>Retail sale of household appliances</i>
		47596	<b>Jualan runcit peralatan muzik dan skor</b> <i>Retail sale of musical instruments and scores</i>
		47597	<b>Jualan runcit sistem keselamatan</b> <i>Retail sale of security systems</i>
		47598	<b>Jualan runcit barangan dan peralatan isi rumah t.t.t.l</b> <i>Retail sale of household articles and equipment n.e.c</i>
	476		<b>Jualan runcit di kedai khusus yang menjual barangan kesenian dan rekreasi</b> <i>Retail sale of cultural and recreation goods in specialised stores</i>
		47611	<b>Jualan runcit bekalan dan peralatan pejabat</b> <i>Retail sale of office supplies and equipment</i>
		47612	<b>Jualan runcit buku, surat khabar dan alat tulis</b> <i>Retail sale of books, newspapers and stationery</i>
		47620	<b>Jualan runcit rekod muzik, pita audio, cakera padat, kaset, pita video, VCD dan DVD, pita dan cakera kosong</b> <i>Retail sale of musical records, audio tapes, compact discs, cassettes, video tapes, VCDs and DVDs, blank tapes and discs</i>
		47631	<b>Jualan runcit barangan dan peralatan sukan</b> <i>Retail sale of sports goods and equipments</i>
		47632	<b>Jualan runcit peralatan memancing</b> <i>Retail sale of fishing equipment</i>
		47633	<b>Jualan runcit barangan perkhemahan</b> <i>Retail sale of camping goods</i>
		47634	<b>Jualan runcit bot dan peralatannya</b> <i>Retail sale of boats and equipments</i>



<b>Perdagangan Runcit</b> <i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		47635	<b>Jualan runcit basikal dan komponen (termasuk alat ganti) dan aksesori yang berkaitan</b> <i>Retail sale of bicycles and related parts and accessories</i>
		47640	<b>Jualan runcit permainan dan barang mainan, diperbuat dari pelbagai bahan</b> <i>Retail sale of games and toys, made of all materials</i>
	477		<b>Jualan runcit di kedai khusus yang menjual barangan lain</b> <i>Retail sale of other goods in specialised stores</i>
		47711	<b>Jualan runcit pakaian, artikel bagi bulu binatang dan aksesori pakaian</b> <i>Retail sale of articles of clothing, articles of fur and clothing accessories</i>
		47712	<b>Jualan runcit kasut</b> <i>Retail sale of footwear</i>
		47713	<b>Jualan runcit barangan kulit, aksesori kulit serta gantian kulit</b> <i>Retail sale of leather goods, accessories of leather and leather substitutes</i>
		47721	<b>Jualan runcit di kedai khusus yang menjual barang farmaseutikal, perubatan dan ortopedik</b> <i>Stores specialised in retail sale of pharmaceuticals, medical and orthopaedic goods</i>
		47722	<b>Jualan runcit di kedai khusus yang menjual pewangi, kosmetik dan kelengkapan dandanan diri</b> <i>Stores specialised in retail sale of perfumery, cosmetic and toilet articles</i>
		47731	<b>Jualan runcit peralatan fotografi dan kepersisan</b> <i>Retail sale of photographic and precision equipment</i>
		47732	<b>Jualan runcit jam tangan dan jam dinding</b> <i>Retail sale of watches and clocks</i>
		47733	<b>Jualan runcit barang kemas</b> <i>Retail sale of jewellery</i>
		47734	<b>Jualan runcit bunga, tumbuhan, biji benih dan baja</b> <i>Retail sale of flowers, plants, seeds, fertilizers</i>
		47735	<b>Jualan runcit cenderahati, kraftangan dan barang keagamaan</b> <i>Retail sale of souvenir, craftwork and religious articles</i>
		47736	<b>Jualan runcit minyak tanah, gas memasak, batu arang dan kayu api</b> <i>Retail sale of household fuel oil, cooking gas, coal and fuel wood</i>
		47737	<b>Jualan runcit cermin mata dan barang optik lain</b> <i>Retail sale of spectacles and other optical goods</i>
		47738	<b>Jualan runcit ikan akuarium, haiwan peliharaan dan makanannya</b> <i>Retail sale of aquarium fishes, pet animals and pet food</i>

<b>Perdagangan Runcit</b> <i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
		47739	<b>Jualan runcit di kedai khusus yang menjual barang baru lain t.t.t.l</b> <i>Other retail sale of new goods in specialised stores n.e.c</i>
		47741	<b>Jualan runcit buku terpakai</b> <i>Retail sale of second-hand books</i>
		47742	<b>Jualan runcit barang elektrik dan elektronik terpakai</b> <i>Retail sale of second-hand electrical and electronic goods</i>
		47743	<b>Jualan runcit barang antik</b> <i>Retail sale of antiques</i>
		47744	<b>Aktiviti pusat lelongan (runcit)</b> <i>Activities of auctioning houses (retail)</i>
		47749	<b>Jualan runcit barangan terpakai t.t.t.l</b> <i>Retail sale of second-hand goods n.e.c</i>
	478		<b>Jualan runcit di gerai dan pasar</b> <i>Retail sale via stalls and markets</i>
		47810	<b>Jualan runcit makanan, minuman dan produk tembakau di gerai atau pasar</b> <i>Retail sale of food, beverages and tobacco products via stalls or markets</i>
		47820	<b>Jualan runcit tekstil, baju dan kasut di gerai atau pasar</b> <i>Retail sale of textiles, clothing and footwear via stalls or markets</i>
		47891	<b>Jualan runcit permaidani dan di gerai dan pasar</b> <i>Retail sale of carpets and rugs via stalls or markets</i>
		47892	<b>Jualan runcit buku di gerai atau pasar</b> <i>Retail sale of books via stalls or markets</i>
		47893	<b>Jualan runcit alat permainan dan barang mainan di gerai atau pasar</b> <i>Retail sale of games and toys via stalls or markets</i>
		47894	<b>Jualan runcit peralatan isi rumah dan barang elektronik di gerai atau pasar</b> <i>Retail sale of household appliances and consumer electronics via stall or markets</i>
		47895	<b>Jualan runcit rekod muzik dan video di gerai atau pasar</b> <i>Retail sale of music and video recordings via stall or markets</i>

<b>Perdagangan Runcit</b> <i>Retail Trade</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
	<b>479</b>		<b>Jualan runcit bukan di kedai, gerai atau pasar</b> <i>Retail trade not in stores, stalls or markets</i>
		<b>47911</b>	<b>Jualan runcit sebarang jenis produk melalui pesanan mel</b> <i>Retail sale of any kind of products by mail order</i>
		<b>47912</b>	<b>Jualan runcit sebarang jenis produk melalui internet</b> <i>Retail sale of any kind of product over the Internet</i>
		<b>47913</b>	<b>Jualan langsung melalui televisyen, radio dan telefon</b> <i>Direct sale via television, radio and telephone</i>
		<b>47914</b>	<b>Jualan runcit lelongan melalui internet</b> <i>Internet retail auctions</i>
		<b>47991</b>	<b>Jualan runcit sebarang jenis produk melalui jualan langsung atau penjualan dari pintu ke pintu</b> <i>Retail sale of any kind of product by direct sales or door-to-door sales persons</i>
		<b>47992</b>	<b>Jualan runcit sebarang jenis produk melalui mesin layan diri (vending machine)</b> <i>Retail sale of any kind of product through vending machines</i>
		<b>47999</b>	<b>Jualan runcit lain bukan di kedai, gerai atau pasar t.t.t.l</b> <i>Other retail sale not in stores, stalls or markets n.e.c</i>

<b>Kendaraan Bermotor</b> <i>Motor Vehicles</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
<b>45</b>	<b>451</b>		<b>Jualan kendaraan bermotor</b> <i>Sale of motor vehicles</i>
		<b>45101</b>	<b>Jualan borong dan runcit kendaraan bermotor baru</b> <i>Wholesale and retail of new motor vehicles</i>
		<b>45102</b>	<b>Jualan borong dan runcit kendaraan bermotor terpakai</b> <i>Wholesale and retail of used motor vehicles</i>
		<b>45103</b>	<b>Jualan kendaraan industri, komersial dan pertanian - baru</b> <i>Sale of industrial, commercial and agriculture vehicles - new</i>
		<b>45104</b>	<b>Jualan kendaraan industri, komersial dan pertanian - terpakai</b> <i>Sale of industrial, commercial and agriculture vehicles - used</i>
		<b>45105</b>	<b>Jualan oleh agen komisen</b> <i>Sale of commission agents</i>
		<b>45106</b>	<b>Lelongan kereta</b> <i>Car auctions</i>
		<b>45109</b>	<b>Jualan lain-lain kendaraan bermotor t.t.t.l</b> <i>Sale of other motor vehicles n.e.c</i>
	<b>452</b>		<b>Penyelenggaraan dan perbaikan kendaraan bermotor</b> <i>Maintenance and repair of motor vehicles</i>
		<b>45201</b>	<b>Penyelenggaraan dan perbaikan kendaraan bermotor</b> <i>Maintenance and repair of motor vehicles</i>
		<b>45202</b>	<b>Menyembur dan mengecat</b> <i>Spraying and painting</i>
		<b>45203</b>	<b>Mencuci dan mengilap (cuci kereta)</b> <i>Washing and polishing (car wash)</i>
		<b>45204</b>	<b>Pembaikan tempat duduk kendaraan bermotor</b> <i>Repair or motor vehicle seats</i>
		<b>45205</b>	<b>Pemasangan komponen (termasuk alat ganti) dan aksesori bukan sebahagian daripada proses pembuatan</b> <i>Installation of parts and accessories not as part of the manufacturing process</i>
	<b>453</b>		<b>Jualan komponen (termasuk alat ganti) dan aksesori kendaraan bermotor</b> <i>Sale of motor vehicle parts and accessories</i>
		<b>45300</b>	<b>Jualan borong dan runcit semua jenis komponen, alat ganti, bekalan, peralatan dan aksesori kendaraan bermotor</b> <i>Wholesale and retail sale of all kinds of parts, components, supplies, tools and accessories for motor vehicles</i>

<b>Kenderaan Bermotor</b> <i>Motor Vehicles</i>			
<b>BAHAGIAN</b> <i>DIVISION</i>	<b>KUMPULAN</b> <i>GROUP</i>	<b>PERKARA</b> <i>ITEM</i>	<b>KETERANGAN</b> <i>DESCRIPTION</i>
	<b>454</b>		<b>Jualan, penyelenggaraan dan pembaikan motosikal dan komponen (termasuk alat ganti) dan aksesori berkaitan</b> <i>Sale, maintenance and repair of motorcycles and related parts and accessories</i>
		<b>45401</b>	<b>Jualan borong dan runcit motosikal</b> <i>Wholesale and retail sale of motorcycles</i>
		<b>45402</b>	<b>Jualan borong dan runcit komponen (termasuk alat ganti) dan aksesori motosikal</b> <i>Wholesale and retail sale of parts and accessories for motorcycles</i>
		<b>45403</b>	<b>Pembaikan dan penyelenggaraan motosikal</b> <i>Repair and maintenance of motorcycles</i>

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