



JABATAN PERDANA MENTERI
JABATAN PERANGKAAN MALAYSIA

PENUNJUK EKONOMI MALAYSIA INDEKS PELOPOR, SERENTAK & SUSULAN

*MALAYSIAN ECONOMIC INDICATORS
LEADING, COINCIDENT & LAGGING INDEXES*

MEI
MAY 2023

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA



KEMENTERIAN EKONOMI
JABATAN PERANGKAAAN MALAYSIA

PENUNJUK EKONOMI MALAYSIA

INDEKS PELOPOR, SERENTAK & SUSULAN

MALAYSIAN ECONOMIC INDICATORS

LEADING, COINCIDENT & LAGGING INDEXES

MEI
MAY **2023**

Pemakluman

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

DOSM telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data. OpenDOSM NextGen ialah platform 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".

DOSM akan mengeluarkan Anggaran KDNK Awalan bermula pada suku tahun kedua 2023. Anggaran awalan ini merupakan inisiatif yang dilaksanakan oleh DOSM untuk memberikan gambaran prestasi ekonomi empat (4) minggu awal sebelum KDNK Suku Tahunan dikeluarkan.

Announcement

The Department of Statistics Malaysia (DOSM) is conducting the Economic Census in 2023. DOSM greatly appreciates the cooperation of respondents in providing information and ensuring the success of this census. Please visit www.dosm.gov.my for more information.

DOSM has launched OpenDOSM NextGen as a medium that provides a catalogue of data and visualisation to facilitate users in analysing various data. OpenDOSM NextGen is an open source data sharing platform 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".

DOSM will release the Advance GDP Estimates beginning in the second quarter of 2023. These advance estimates are an initiative by DOSM to provide an overview of the economic performance four (4) weeks prior to the release of the Quarterly GDP.

JABATAN PERANGKAAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

Diterbitkan dan dicetak oleh / *Published and printed by:*

Jabatan Perangkaan Malaysia

Department of Statistics Malaysia

Blok C6 & C7, Kompleks C,

Pusat Pentadbiran Kerajaan Persekutuan,

62514 Putrajaya,

MALAYSIA

Tel. : 03-8885 7000
Faks : 03-8888 9248
Portal : <https://www.dosm.gov.my>
Facebook / Twitter / Instagram : StatsMalaysia
Emel / *Email* : info@dosm.gov.my (*pertanyaan umum / general enquiries*)
data@dosm.gov.my (*pertanyaan & permintaan data / data request & enquiries*)

Harga / *Price* : RM5.00

Diterbitkan pada Julai 2023 / *Published on July 2023*

Hakcipta terpelihara / *All rights reserved.*

Tiada bahagian daripada terbitan ini boleh diterbitkan semula, disimpan untuk pengeluaran atau ditukar dalam apa-apa bentuk atau alat apa jua pun kecuali setelah mendapat kebenaran daripada Jabatan Perangkaan Malaysia.

Pengguna yang mengeluarkan sebarang maklumat dari terbitan ini sama ada yang asal atau diolah semula hendaklah meletakkan kenyataan berikut:

“Sumber : Jabatan Perangkaan Malaysia”.

No part of this publication may be reproduced or distributed in any form or by any means or stored in data base without the prior written permission from Department of Statistics, Malaysia. Users reproducing content of this publication with or without adaptation should quote the following:

“*Source : Department of Statistics Malaysia*”.

ISSN 1511 - 872X

KATA PENGANTAR

Penerbitan ini membentangkan statistik Penunjuk Ekonomi Malaysia (PEM) secara bulanan yang terdiri daripada Indeks Pelopor, Serentak dan Susulan. Statistik ini menunjukkan isyarat pergerakan ekonomi di Malaysia dan disusun berasaskan garis panduan *Handbook on Cyclical Composite Indicators, 2017*.

Indikator ini digunakan oleh penggubal dasar, pelabur, penyelidik serta masyarakat umum untuk menilai prestasi ekonomi, meramal kenaikan dan penurunan ekonomi dalam purata empat hingga enam bulan ke hadapan.

Ringkasan penemuan dipaparkan di bahagian pertama penerbitan ini. Bahagian kedua memuatkan jadual terperinci bagi membolehkan pengguna menganalisis keadaan ekonomi di Malaysia. Aspek teknikal seperti konsep, sumber data dan metodologi diterangkan di bahagian ketiga bagi membantu pengguna memahami statistik yang diterbitkan.

Jabatan merakamkan penghargaan kepada semua pihak yang telah memberikan kerjasama dan menyumbang dalam menjayakan penerbitan ini. Setiap maklum balas dan cadangan untuk penambahbaikan penerbitan ini pada masa akan datang amat dihargai.

DATO' SRI DR. MOHD UZIR MAHIDIN

Ketua Perangkawan Malaysia

Julai 2023

PREFACE

This publication presents the statistics on Malaysian Economic Indicators (MEI) on a monthly basis which consists of Leading, Coincident and Lagging Indexes. These statistics provide signals on economic movement in Malaysia and are compiled based on the guidelines of the Handbook on Cycle Composite Indicators, 2017.

This indicator is used by policy makers, investors, researchers as well as the public to assess the economic performance, forecast an economic upturns and downturns on average of four to six months ahead.

Summary of findings are highlighted in the first part of this publication. The second part presents detailed tables to enable users to analyse the economic situation in Malaysia. Technical aspects such as concepts, data sources and methodology are described in the third part to assist users to understand the published statistics.

The Department acknowledges all the parties concerned for their cooperation and contribution in realising this publication. Any feedback and suggestions towards future improvements of this publication are greatly appreciated.

DATO' SRI DR. MOHD UZIR MAHIDIN

Chief Statistician, Malaysia

July 2023

KANDUNGAN CONTENTS

	Muka surat Page
Kata pengantar <i>Preface</i>	i
Penemuan utama <i>Main findings</i>	1
Ringkasan penemuan <i>Summary of findings</i>	3
Jadual <i>Tables</i>	
1. Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Pelopor daripada Bulan Sebelumnya <i>Contribution of Each Component to the Percentage Change in the Leading Index from the Previous Month</i>	4
2. Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Serentak daripada Bulan Sebelumnya <i>Contribution of Each Component to the Percentage Change in the Coincident Index from the Previous Month</i>	4
3. Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Susulan daripada Bulan Sebelumnya <i>Contribution of Each Component to the Percentage Change in the Lagging Index from the Previous Month</i>	4
4. Indeks Komposit dan Indeks Difusi <i>Composite Index and Diffusion Index</i>	7
Carta <i>Chart</i>	
1. Kadar Pertumbuhan bagi Indeks Pelopor (Terlicin) dan Kitaran Perniagaan <i>Growth Rate of Leading Index (Smoothed) and Business Cycle</i>	5
2. Indeks Komposit Pelopor dan Aktiviti Ekonomi (Arah Aliran Jangka Panjang=100) <i>Leading Composite Index and Economic Activity (Long Term Trend=100)</i>	5
3. Indeks Difusi Pelopor dan Kitaran Perniagaan <i>Leading Diffusion Index and Business Cycle</i>	6
4. Indeks Difusi Serentak dan Kitaran Perniagaan <i>Coincident Diffusion Index and Business Cycle</i>	6
Nota Keterangan <i>Explanatory Notes</i>	15
Kalendar Awalan Keluaran <i>Advance Release Calendar</i>	23

Muka surat ini sengaja dibiarkan kosong.
This page is deliberately left blank.

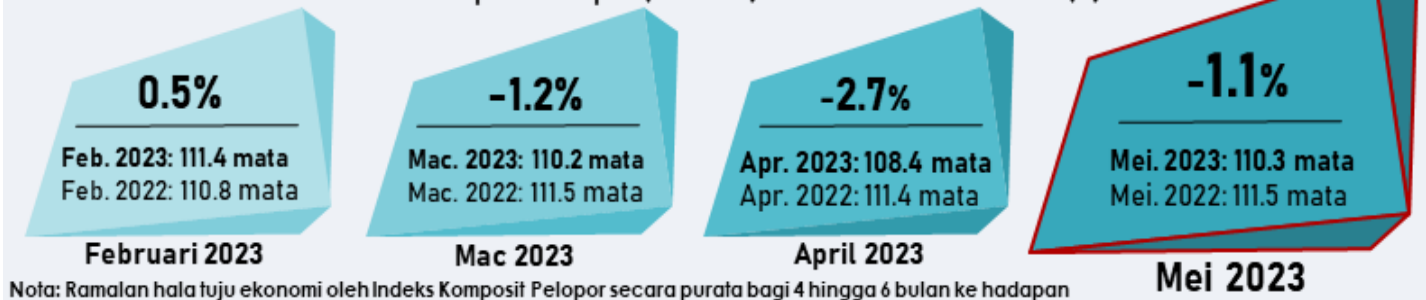
PENEMUAN UTAMA



PENUNJUK EKONOMI MALAYSIA INDEKS PELOPOR, SERENTAK & SUSULAN, MEI 2023

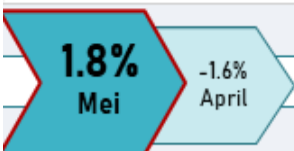
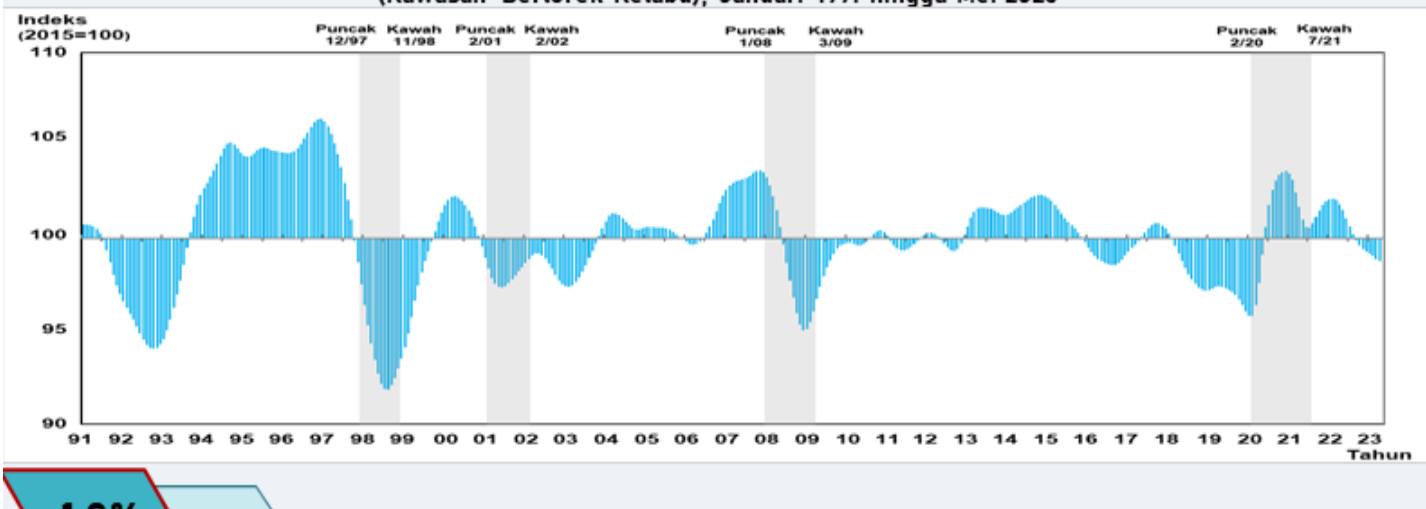
INDEKS PELOPOR MENCATATKAN 110.3 MATA PADA MEI 2023,
MENJANGKAKAN PROSPEK EKONOMI YANG MENGGALAKKAN
NAMUN DALAM SENTIMEN BERHATI-HATI

Indeks Komposit Pelopor (2015=100) dan Perubahan Tahunan (%)



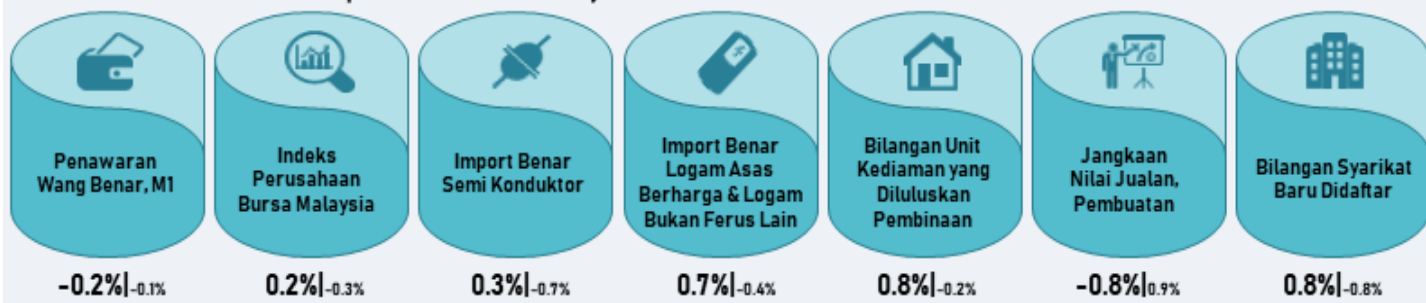
DATA SIRI MASA

Indeks Komposit Pelopor (Arah Aliran Jangka Panjang = 100) dan Kitaran Perniagaan (Kawasan Berlorek Kelabu), Januari 1991 hingga Mei 2023



INDEKS KOMPOSIT PELOPOR, PERUBAHAN BULANAN (%)

Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Komposit Pelopor daripada Bulan Sebelumnya



Note: Mei 2023 | April 2023

Sumber: Penunjuk Ekonomi Malaysia- Indeks Pelopor, Serentak & Susulan, Mei 2023, Jabatan Perangkaan Malaysia (DOSM)

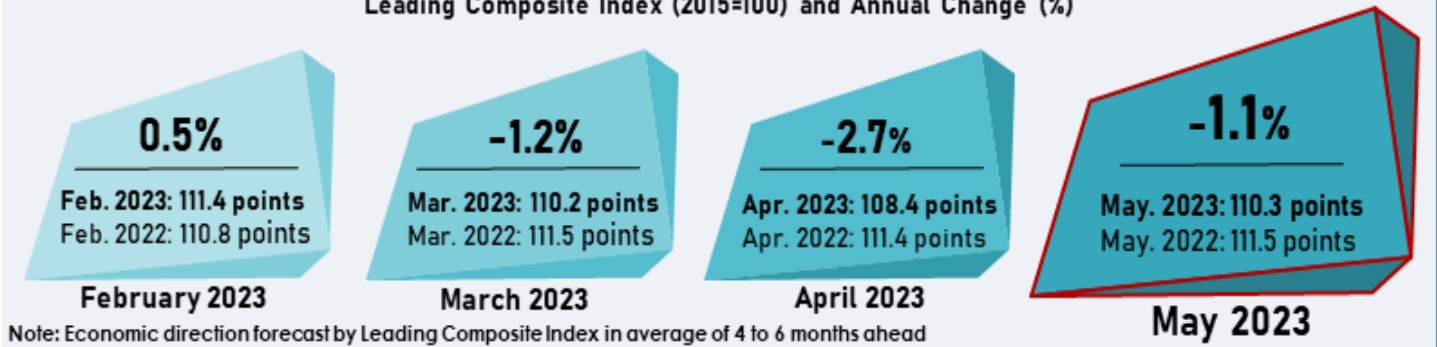
MAIN FINDINGS



MALAYSIAN ECONOMIC INDICATORS LEADING, COINCIDENT & LAGGING INDEXES, MAY 2023

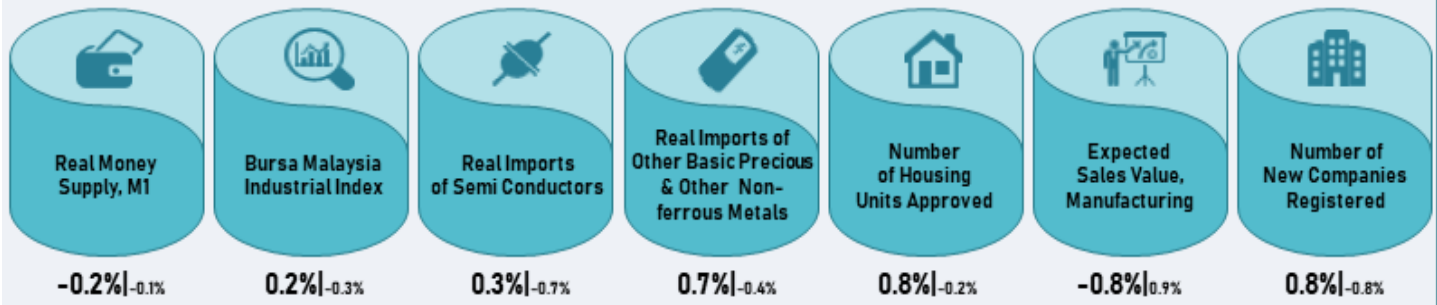
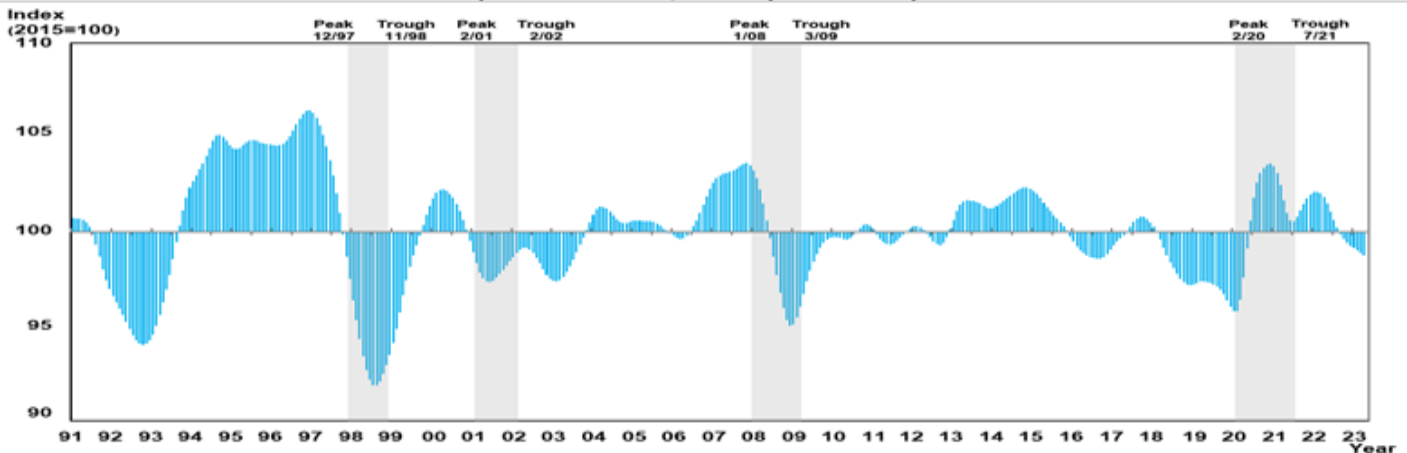
THE LEADING INDEX RECORDED 110.3 POINTS IN MAY 2023,
EXPECTING AN ENCOURAGING ECONOMIC OUTLOOK ALBEIT CAUTIOUS SENTIMENT

Leading Composite Index (2015=100) and Annual Change (%)



TIME SERIES DATA

Leading Composite Index (Long Term Trend = 100) and Business Cycle (Grey Shaded Areas), January 1991 to May 2023



Note: May 2023 | April 2023

Source: Malaysian Economic Indicators- Leading, Coincident & Lagging Indexes, May 2023, Department of Statistics Malaysia (DOSM)

**Indeks pelopor mencatatkan 110.3 mata pada Mei 2023,
menjangkakan prospek ekonomi yang menggalakkan namun dalam sentimen berhati-hati**

Prestasi Indeks Pelopor pada Mei 2023 mencatatkan pertumbuhan negatif yang lebih baik iaitu 1.1 peratus dengan 110.3 mata berbanding negatif 2.7 peratus pada April 2023. Prestasi negatif ini disebabkan oleh Import Benar Semi Konduktor dan Import Benar Logam Asas Berharga & Logam Bukan Ferus Lain. Sementara itu, prestasi bulanan IP pula bertumbuh sebanyak 1.8 peratus, disebabkan oleh peningkatan lima (5) komponen IP kecuali Jangkaan Nilai Jualan dalam Pembuatan (-0.8%) dan Penawaran Wang Benar, M1 (-0.3%).

Walaupun kedua-dua indeks menunjukkan peningkatan pada bulan ini, kadar pertumbuhan IP terlicin Mei 2023 masih kekal di bawah aliran 100.0 mata. Sehubungan dengan itu, ekonomi Malaysia dijangka menggalakkan dalam masa terdekat namun perlu mengambil kira cabaran global yang semakin meningkat.

Bagi keadaan ekonomi semasa, Indeks Serentak (IS) mengekalkan momentum pertumbuhan tahunan yang positif sejak September 2021 dengan mencatatkan 3.1 peratus kepada 124.3 mata pada Mei 2023 berbanding 120.6 mata pada bulan yang sama tahun sebelumnya, disumbangkan oleh prestasi yang baik bagi semua komponen. Pada masa yang sama, perubahan bulanan IS turut meningkat 2.5 peratus dengan Kapasiti Penggunaan dalam Pembuatan (1.2%) menyumbang dengan ketara kepada peningkatan ini.

Indeks Difusi bagi IP kekal pada 57.1 peratus pada bulan rujukan. Manakala Indeks Difusi bagi IS meningkat kepada 100.0 peratus buat pertama kali pada tahun 2023.

***The Leading Index recorded 110.3 points in May 2023,
expecting an encouraging economic outlook albeit cautious sentiment***

The performance of the Leading Index in May 2023 recorded a better negative growth of 1.1 per cent with 110.3 points as compared to a negative 2.7 per cent in April 2023. This negative performance was pulled down by Real Imports of Semi Conductors and Real Imports of Other Basic Precious & Other Non-Ferrous Metals. Nevertheless, LI's monthly performance grew by 1.8 per cent, as a result of growth in five (5) LI components except Expected Sales Value in Manufacturing (-0.8%) and Real Money Supply, M1 (-0.3%).

Despite improvement in both indices for this reference month, the smoothed LI growth rate remained below the 100.0 points trend. Accordingly, Malaysia's economy is foreseen encouraging in the near term however, heighten global challenges should be taken into consideration.

As for the current economic situation, the Coincident Index (CI) maintained a positive annual growth momentum since September 2021 by registering 3.1 per cent to 124.3 points in May 2023 as compared to 120.6 points in the same month of the previous year, contributed by the good performance of all components. Simultaneously, the monthly change in CI also increased by 2.5 per cent, with Capacity Utilisation in Manufacturing (1.2%) contributed significantly to the rise.

The Diffusion Index for LI remained 57.1 per cent in the reference month. Meanwhile, the Diffusion Index for CI increased to 100.0 per cent for the first time in 2023.

Jadual 1: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Pelopor daripada Bulan Sebelumnya
Table 1: Contribution of Each Component to the Percentage Change in the Leading Index from the Previous Month

Komponen Indeks Pelopor <i>Leading Index Components</i>	Mac 2023 <i>March 2023</i>	April 2023 <i>April 2023</i>	Mei 2023 <i>May 2023</i>
1. Penawaran Wang Benar, M1 <i>Real Money Supply, M1</i>	-0.1	-0.1	-0.2
2. Indeks Perusahaan Bursa Malaysia <i>Bursa Malaysia Industrial Index</i>	0.3	-0.3	0.2
3. Import Benar Semi Konduktor <i>Real Imports of Semi Conductors</i>	0.2	-0.7	0.3
4. Import Benar Logam Asas Berharga & Logam Bukan Ferus Lain <i>Real Imports of Other Basic Precious & Other Non-ferrous Metals</i>	-0.5	-0.4	0.7
5. Bilangan Unit Kediaman yang Diluluskan Pembinaan <i>Number of Housing Units Approved</i>	-0.3	-0.2	0.8
6. Jangkaan Nilai Jualan, Pembuatan <i>Expected Sales Value, Manufacturing</i>	-0.7	0.9	-0.8
7. Bilangan Syarikat Baru Didaftarkan <i>Number of New Companies Registered</i>	0.0	-0.8	0.8
Perubahan Peratusan <i>Percentage Change</i>	-1.1	-1.6	1.8

Jadual 2: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Serentak daripada Bulan Sebelumnya
Table 2: Contribution of Each Component to the Percentage Change in the Coincident Index from the Previous Month

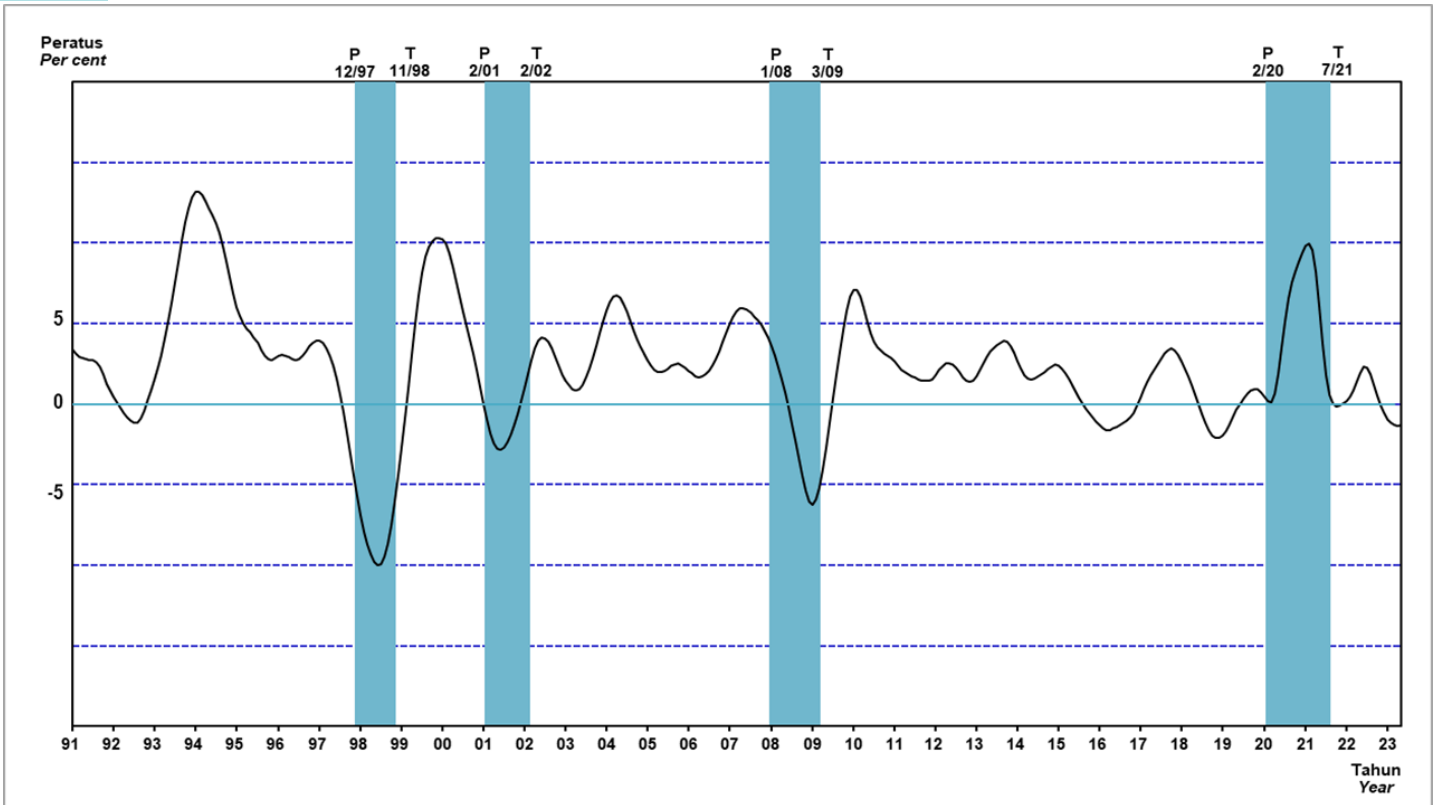
Komponen Indeks Serentak <i>Coincident Index Components</i>	Mac 2023 <i>March 2023</i>	April 2023 <i>April 2023</i>	Mei 2023 <i>May 2023</i>
1. Jumlah Guna Tenaga, Pembuatan <i>Total Employment, Manufacturing</i>	0.1	0.1	0.2
2. Gaji & Upah Benar, Pembuatan <i>Real Salaries & Wages, Manufacturing</i>	0.0	0.0	0.2
3. Indeks Pengeluaran Perindustrian <i>Industrial Production Index</i>	0.0	-0.6	0.8
4. Nilai Caruman Benar, KWSP <i>Real Contributions, EPF</i>	0.1	-0.4	0.5
5. Kapasiti Penggunaan, Pembuatan <i>Capacity Utilisation, Manufacturing</i>	-0.1	-0.3	1.2
6. Indeks Kuantiti Perdagangan Runcit <i>Volume Index of Retail Trade</i>	0.3	0.4	-0.4
Perubahan Peratusan <i>Percentage Change</i>	0.4	-0.8	2.5

Jadual 3: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Susulan daripada Bulan Sebelumnya
Table 3: Contribution of Each Component to the Percentage Change in the Lagging Index from the Previous Month

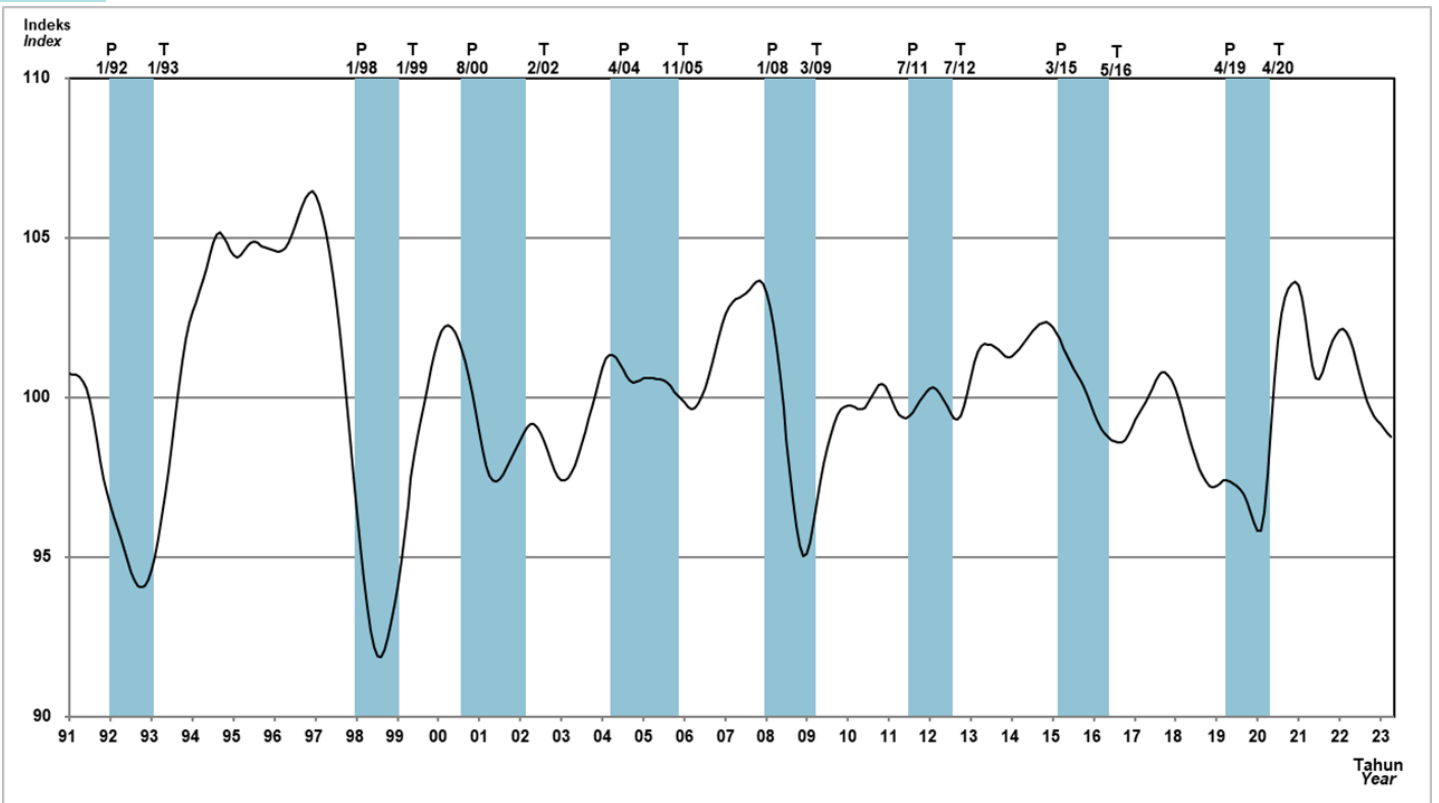
Komponen Indeks Susulan <i>Lagging Index Components</i>	Mac 2023 <i>March 2023</i>	April 2023 <i>April 2023</i>	Mei 2023 <i>May 2023</i>
1. Kos Seunit Buruh, Pembuatan <i>Unit Labour Cost, Manufacturing</i>	0.0	0.8	-0.8
2. Bilangan Projek Pelaburan Baru Diluluskan <i>Number of Investment Projects Approved</i>	0.0	0.3	0.0
3. Bilangan Kenderaan Baru Didaftarkan <i>Number of New Vehicles Registered</i>	-0.3	-1.0	1.3
4. Eksport Gas Asli & Minyak Mentah <i>Exports of Natural Gas & Crude Oil</i>	0.1	-1.3	1.2
5. IHP Perkhidmatan <i>CPI for Services</i>	0.1	0.3	0.3
Perubahan Peratusan <i>Percentage Change</i>	-0.1	-0.9	2.0



Carta 1: Kadar Pertumbuhan bagi Indeks Pelopor (Terlicin) dan Kitaran Perniagaan
Chart 1: Growth Rate of Leading Index (Smoothed) and Business Cycle



Carta 2: Indeks Komposit Pelopor dan Aktiviti Ekonomi (Arah Aliran Jangka Panjang=100)
Chart 2: Leading Composite Index and Economic Activity (Long Term Trend=100)



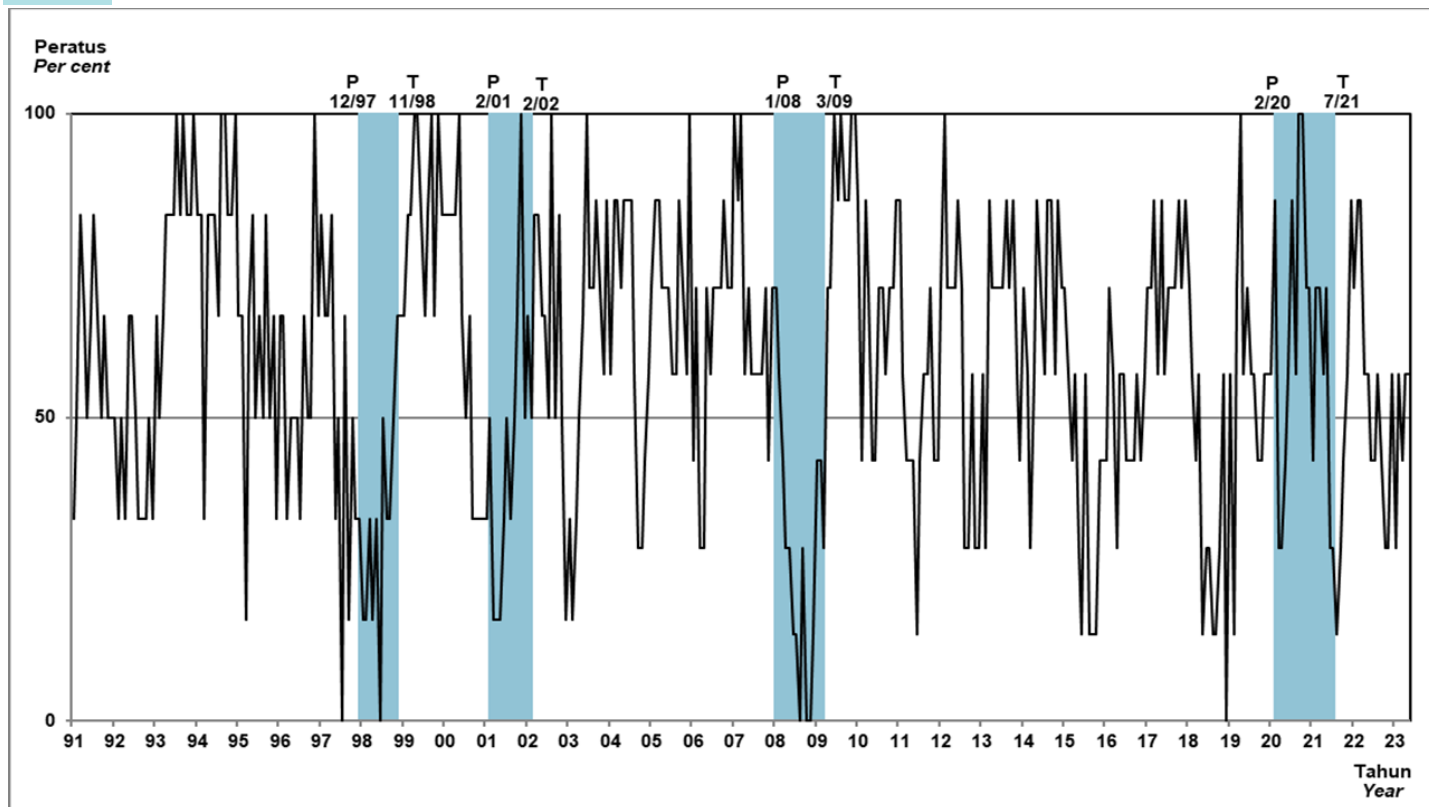
Nota/Note :

Kawasan berlorek adalah kemelesetan kitaran perniagaan (Carta 1) dan kemelesetan kitaran pertumbuhan (Carta 2) di Malaysia.
 Shaded areas are business cycle recession (Chart 1) and growth cycle recession (Chart 2) in Malaysia.

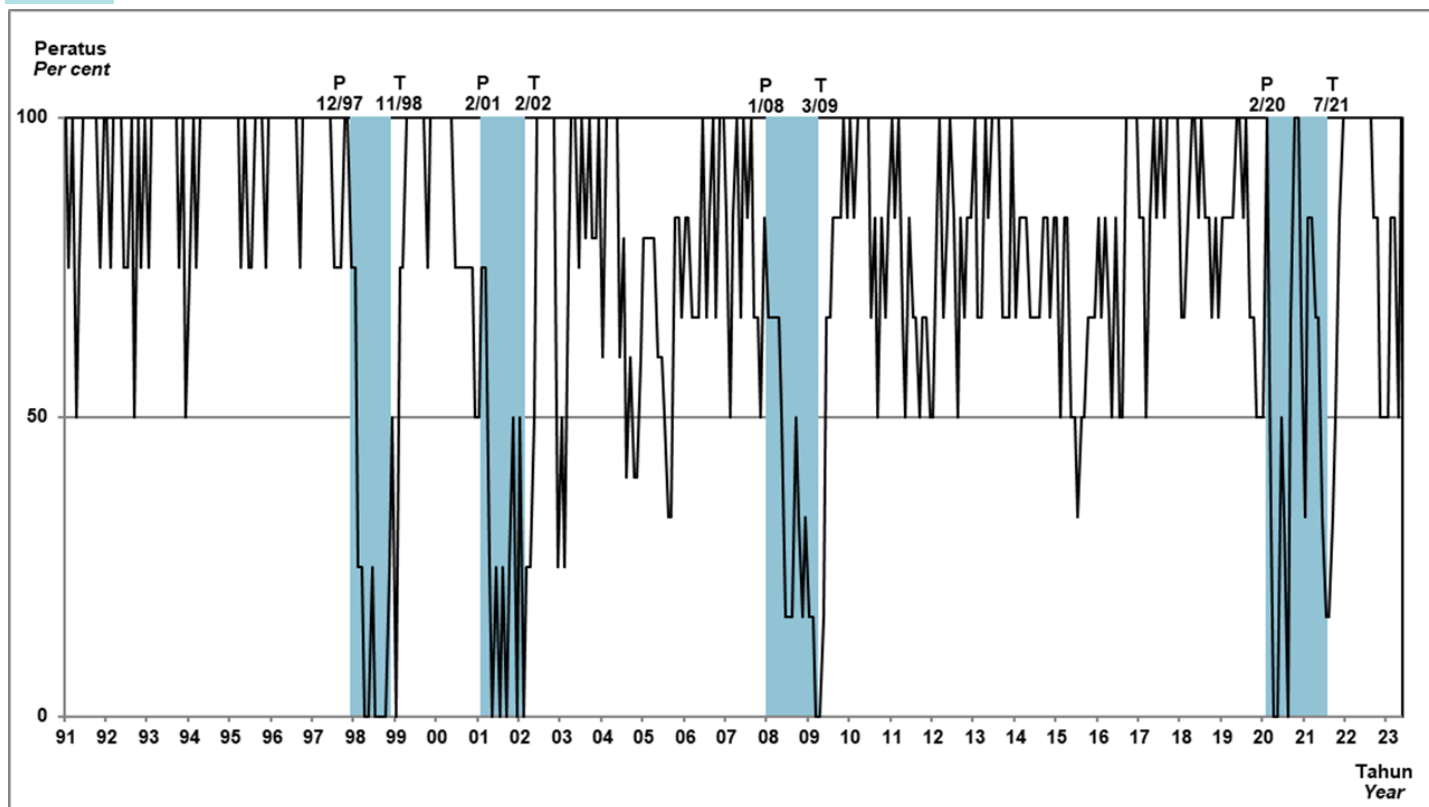
- P Puncak/Peak T Kawah/Trough
- P Puncak/Peak T Kawah/Trough



Carta 3 : Indeks Difusi Pelopor dan Kitaran Perniagaan
Chart 3 : Leading Diffusion Index and Business Cycle



Carta 4 : Indeks Difusi Serentak dan Kitaran Perniagaan
Chart 4 : Coincident Diffusion Index and Business Cycle



Nota/Note :

Kawasan berlorek adalah kemelesetan kitaran perniagaan di Malaysia.

Shaded areas are business cycle recession in Malaysia.

P Puncak/Peak

T Kawah/Trough


Jadual 4 : Indeks Komposit dan Indeks Difusi
Table 4 : Composite Index and Diffusion Index

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2000								
Jan/Jan	75.1	7.7	73.6	9.2	64.3	3.0	83.3	100.0
Feb/Feb	76.2	9.6	74.8	9.7	65.1	5.5	83.3	100.0
Mac/Mar	76.5	10.2	74.7	7.9	65.2	4.3	83.3	100.0
Apr/Apr	76.7	7.3	74.3	5.8	65.2	3.8	83.3	100.0
Mei/May	76.7	6.1	75.6	7.4	65.1	3.2	100.0	100.0
Jun/June	76.2	4.7	76.3	7.5	65.2	3.7	66.7	75.0
Jul/July	76.5	3.9	75.9	6.3	65.9	3.6	50.0	75.0
Ogos/Aug	77.1	5.0	76.7	6.8	65.9	3.6	66.7	75.0
Sep/Sep	76.1	3.0	76.9	6.1	66.2	3.3	33.3	75.0
Okt/Oct	76.4	3.8	76.8	6.2	66.3	3.1	33.3	75.0
Nov/Nov	76.2	2.7	77.3	5.7	66.5	3.1	33.3	75.0
Dis/Dec	76.1	0.0	76.8	4.2	66.8	2.5	33.3	50.0
2001								
Jan/Jan	75.7	0.8	76.9	4.5	66.8	3.9	33.3	50.0
Feb/Feb	75.9	-0.4	77.5	3.6	67.5	3.7	50.0	75.0
Mac/Mar	74.6	-2.5	77.7	4.0	67.4	3.4	16.7	75.0
Apr/Apr	74.3	-3.1	76.4	2.8	67.4	3.4	16.7	25.0
Mei/May	74.3	-3.1	75.8	0.3	67.9	4.3	16.7	0.0
Jun/June	74.8	-1.8	75.1	-1.6	66.8	2.5	33.3	25.0
Jul/July	74.9	-2.1	75.0	-1.2	67.3	2.1	50.0	0.0
Ogos/Aug	74.8	-3.0	75.0	-2.2	67.4	2.3	33.3	25.0
Sep/Sep	75.2	-1.2	74.8	-2.7	67.2	1.5	50.0	0.0
Okt/Oct	75.5	-1.2	75.0	-2.3	66.9	0.9	66.7	25.0
Nov/Nov	76.2	0.0	74.6	-3.5	66.9	0.6	100.0	50.0
Dis/Dec	75.6	-0.7	73.7	-4.0	67.1	0.4	50.0	0.0
2002								
Jan/Jan	76.4	0.9	74.0	-3.8	66.6	-0.3	66.7	50.0
Feb/Feb	76.1	0.3	73.1	-5.7	67.4	-0.1	50.0	0.0
Mac/Mar	76.7	2.8	73.7	-5.1	68.3	1.3	83.3	25.0
Apr/Apr	77.4	4.2	73.9	-3.3	69.3	2.8	83.3	25.0
Mei/May	77.5	4.3	74.4	-1.8	68.2	0.4	66.7	50.0
Jun/June	77.2	3.2	75.3	0.3	68.6	2.7	66.7	100.0
Jul/July	77.6	3.6	75.7	0.9	69.2	2.8	50.0	100.0
Ogos/Aug	77.6	3.7	75.6	0.8	69.9	3.7	100.0	100.0
Sep/Sep	77.2	2.7	75.5	0.9	69.4	3.3	50.0	100.0
Okt/Oct	77.7	2.9	75.5	0.7	69.8	4.3	83.3	100.0
Nov/Nov	78.0	2.4	75.5	1.2	69.1	3.3	50.0	100.0
Dis/Dec	75.8	0.3	74.7	1.4	68.4	1.9	16.7	25.0



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2003								
Jan/Jan	77.2	1.0	75.7	2.3	70.3	5.6	33.3	50.0
Feb/Feb	77.8	2.2	75.5	3.3	69.8	3.6	16.7	25.0
Mac/Mar	77.0	0.4	75.4	2.3	69.7	2.0	33.3	75.0
Apr/Apr	77.4	0.0	76.1	3.0	70.0	1.0	50.0	100.0
Mei/May	77.8	0.4	76.1	2.3	69.8	2.3	66.7	100.0
Jun/June	78.2	1.3	76.0	0.9	69.7	1.6	100.0	75.0
Jul/July	78.7	1.4	77.0	1.7	70.2	1.4	71.4	100.0
Ogos/Aug	78.4	1.0	76.7	1.5	70.1	0.3	71.4	80.0
Sep/Sep	79.5	3.0	76.7	1.6	70.3	1.3	85.7	100.0
Okt/Oct	80.2	3.2	77.2	2.3	70.3	0.7	71.4	80.0
Nov/Nov	80.0	2.6	77.3	2.4	70.3	1.7	57.1	80.0
Dis/Dec	80.2	5.8	78.3	4.8	70.6	3.2	85.7	100.0
2004								
Jan/Jan	80.6	4.4	78.1	3.2	71.0	1.0	57.1	60.0
Feb/Feb	81.5	4.8	78.8	4.4	70.7	1.3	85.7	100.0
Mac/Mar	83.2	8.1	78.7	4.4	70.7	1.4	85.7	100.0
Apr/Apr	82.1	6.1	79.3	4.2	71.4	2.0	71.4	100.0
Mei/May	82.0	5.4	78.6	3.3	71.2	2.0	85.7	100.0
Jun/June	82.7	5.8	78.7	3.6	71.5	2.6	85.7	60.0
Jul/July	82.3	4.6	78.6	2.1	71.4	1.7	85.7	80.0
Ogos/Aug	82.4	5.1	78.6	2.5	71.9	2.6	57.1	40.0
Sep/Sep	82.7	4.0	78.5	2.3	71.9	2.3	28.6	60.0
Okt/Oct	82.1	2.4	78.8	2.1	72.5	3.1	28.6	40.0
Nov/Nov	82.0	2.5	78.2	1.2	72.7	3.4	42.9	40.0
Dis/Dec	83.1	3.6	79.2	1.1	72.6	2.8	57.1	60.0
2005								
Jan/Jan	82.6	2.5	78.8	0.9	72.3	1.8	71.4	80.0
Feb/Feb	84.1	3.2	79.2	0.5	72.6	2.7	85.7	80.0
Mac/Mar	83.5	0.4	79.7	1.3	72.8	3.0	85.7	80.0
Apr/Apr	83.4	1.6	79.4	0.1	73.6	3.1	71.4	80.0
Mei/May	83.6	2.0	79.0	0.5	73.7	3.5	71.4	60.0
Jun/June	83.5	1.0	79.3	0.8	74.3	3.9	71.4	60.0
Jul/July	84.2	2.3	79.0	0.5	73.6	3.1	57.1	50.0
Ogos/Aug	84.1	2.1	79.6	1.3	74.5	3.6	57.1	33.3
Sep/Sep	84.6	2.3	80.0	1.9	74.6	3.8	85.7	33.3
Okt/Oct	84.8	3.3	80.3	1.9	75.0	3.4	71.4	83.3
Nov/Nov	83.4	1.7	80.5	2.9	74.6	2.6	57.1	83.3
Dis/Dec	84.9	2.2	80.3	1.4	75.0	3.3	100.0	66.7



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2006								
Jan/Jan	84.2	1.9	80.4	2.0	74.8	3.5	42.9	83.3
Feb/Feb	85.7	1.9	81.8	3.3	74.6	2.8	71.4	83.3
Mac/Mar	84.2	0.8	82.2	3.1	75.7	4.0	28.6	66.7
Apr/Apr	84.2	1.0	82.3	3.7	75.4	2.4	28.6	66.7
Mei/May	84.9	1.6	82.9	4.9	75.8	2.8	71.4	66.7
Jun/June	85.4	2.3	83.5	5.3	75.3	1.3	57.1	100.0
Jul/July	85.2	1.2	83.5	5.7	75.5	2.6	71.4	66.7
Ogos/Aug	86.4	2.7	84.2	5.8	75.8	1.7	71.4	83.3
Sep/Sep	85.8	1.4	84.8	6.0	75.9	1.7	71.4	100.0
Okt/Oct	86.6	2.1	84.1	4.7	76.3	1.7	85.7	66.7
Nov/Nov	87.4	4.8	86.4	7.3	76.0	1.9	71.4	100.0
Dis/Dec	87.4	2.9	85.5	6.5	76.2	1.6	71.4	100.0
2007								
Jan/Jan	88.5	5.1	85.6	6.5	76.7	2.5	100.0	83.3
Feb/Feb	88.8	3.6	85.1	4.0	76.5	2.5	85.7	50.0
Mac/Mar	89.3	6.1	88.2	7.3	76.1	0.5	100.0	83.3
Apr/Apr	88.9	5.6	87.9	6.8	77.2	2.4	57.1	100.0
Mei/May	89.7	5.7	88.3	6.5	77.4	2.1	71.4	66.7
Jun/June	89.2	4.4	87.7	5.0	78.0	3.6	57.1	100.0
Jul/July	90.0	5.6	87.9	5.3	78.1	3.4	57.1	83.3
Ogos/Aug	89.5	3.6	87.9	4.4	78.2	3.2	57.1	100.0
Sep/Sep	89.4	4.2	88.5	4.4	78.6	3.6	57.1	66.7
Okt/Oct	90.9	5.0	88.0	4.6	79.3	3.9	71.4	66.7
Nov/Nov	90.2	3.2	89.0	3.0	79.2	4.2	42.9	50.0
Dis/Dec	91.4	4.6	89.8	5.0	79.4	4.2	71.4	83.3
2008								
Jan/Jan	91.2	3.1	87.7	2.5	79.8	4.0	71.4	66.7
Feb/Feb	90.9	2.4	87.0	2.2	79.8	4.3	57.1	66.7
Mac/Mar	90.4	1.2	86.5	-1.9	79.4	4.3	42.9	66.7
Apr/Apr	90.8	2.1	86.9	-1.1	81.2	5.2	28.6	66.7
Mei/May	90.4	0.8	86.2	-2.4	81.6	5.4	28.6	50.0
Jun/June	89.3	0.1	85.3	-2.7	82.2	5.4	14.3	16.7
Jul/July	88.5	-1.7	86.0	-2.2	82.2	5.2	14.3	16.7
Ogos/Aug	87.6	-2.1	85.5	-2.7	82.3	5.2	0.0	16.7
Sep/Sep	88.5	-1.0	86.1	-2.7	83.9	6.7	28.6	50.0
Okt/Oct	87.2	-4.1	84.6	-3.9	82.8	4.4	0.0	33.3
Nov/Nov	86.5	-4.1	83.3	-6.4	84.1	6.2	0.0	16.7
Dis/Dec	84.7	-7.3	81.9	-8.8	84.3	6.2	14.3	33.3



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2009								
Jan/Jan	85.2	-6.6	80.5	-8.2	82.7	3.6	42.9	16.7
Feb/Feb	85.4	-6.1	81.3	-6.6	82.7	3.6	42.9	16.7
Mac/Mar	85.7	-5.2	79.4	-8.2	82.9	4.4	28.6	0.0
Apr/Apr	87.8	-3.3	79.8	-8.2	81.3	0.1	71.4	0.0
Mei/May	88.0	-2.7	79.8	-7.4	82.2	0.7	71.4	16.7
Jun/June	88.8	-0.6	80.8	-5.3	82.4	0.2	100.0	66.7
Jul/July	89.7	1.4	82.3	-4.3	82.6	0.5	85.7	66.7
Ogos/Aug	89.5	2.2	82.6	-3.4	83.3	1.2	100.0	83.3
Sep/Sep	89.5	1.1	82.3	-4.4	83.2	-0.8	85.7	83.3
Okt/Oct	89.9	3.1	83.6	-1.2	83.6	1.0	85.7	83.3
Nov/Nov	91.6	5.9	83.7	0.5	83.8	-0.4	100.0	100.0
Dis/Dec	91.2	7.7	84.0	2.6	84.6	0.4	100.0	83.3
2010								
Jan/Jan	90.8	6.6	85.0	5.6	84.3	1.9	85.7	100.0
Feb/Feb	91.1	6.7	85.2	4.8	85.0	2.8	42.9	83.3
Mac/Mar	92.5	7.9	86.8	9.3	85.4	3.0	85.7	100.0
Apr/Apr	91.4	4.1	86.8	8.8	85.3	4.9	71.4	100.0
Mei/May	91.4	3.9	87.4	9.5	85.3	3.8	42.9	100.0
Jun/June	91.6	3.2	87.2	7.9	85.9	4.2	42.9	100.0
Jul/July	91.3	1.8	86.9	5.6	85.3	3.3	71.4	66.7
Ogos/Aug	92.2	3.0	87.5	5.9	86.2	3.5	71.4	83.3
Sep/Sep	92.5	3.4	87.9	6.8	85.9	3.2	57.1	50.0
Okt/Oct	92.5	2.9	88.8	6.2	85.6	2.4	71.4	83.3
Nov/Nov	93.4	2.0	88.9	6.2	86.0	2.6	71.4	66.7
Dis/Dec	94.1	3.2	88.8	5.7	86.1	1.8	85.7	83.3
2011								
Jan/Jan	93.9	3.4	90.3	6.2	87.5	3.8	85.7	100.0
Feb/Feb	93.2	2.3	88.7	4.1	86.6	1.9	57.1	83.3
Mac/Mar	93.0	0.5	90.4	4.1	87.4	2.3	42.9	100.0
Apr/Apr	92.8	1.5	89.8	3.5	89.0	4.3	42.9	66.7
Mei/May	92.9	1.6	89.6	2.5	88.4	3.6	42.9	50.0
Jun/June	93.3	1.9	90.4	3.7	89.3	4.0	14.3	83.3
Jul/July	93.0	1.9	91.8	5.6	89.3	4.7	42.9	66.7
Ogos/Aug	93.2	1.1	90.7	3.7	89.6	3.9	57.1	66.7
Sep/Sep	93.5	1.1	90.2	2.6	89.2	3.8	57.1	50.0
Okt/Oct	94.6	2.3	89.9	1.2	90.2	5.4	71.4	66.7
Nov/Nov	94.2	0.9	90.4	1.7	90.4	5.1	42.9	66.7
Dis/Dec	94.0	-0.1	90.5	1.9	90.7	5.3	42.9	50.0



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2012								
Jan/Jan	94.4	0.5	90.3	0.0	90.4	3.3	71.4	50.0
Feb/Feb	96.1	3.1	93.2	5.1	90.5	4.5	100.0	83.3
Mac/Mar	95.2	2.4	92.9	2.8	91.8	5.0	71.4	100.0
Apr/Apr	94.9	2.3	92.1	2.6	92.4	3.8	71.4	66.7
Mei/May	95.2	2.5	92.6	3.3	92.3	4.4	71.4	83.3
Jun/June	95.6	2.5	92.6	2.4	91.9	2.9	85.7	100.0
Jul/July	95.2	2.4	92.2	0.4	91.3	2.2	71.4	83.3
Ogos/Aug	95.3	2.3	93.0	2.5	92.5	3.2	28.6	50.0
Sep/Sep	94.7	1.3	93.0	3.1	91.8	2.9	28.6	83.3
Okt/Oct	95.0	0.4	93.0	3.4	92.4	2.4	57.1	66.7
Nov/Nov	94.3	0.1	93.8	3.8	92.5	2.3	28.6	83.3
Dis/Dec	95.5	1.6	93.5	3.3	92.8	2.3	28.6	83.3
2013								
Jan/Jan	95.7	1.4	94.3	4.4	93.1	3.0	57.1	100.0
Feb/Feb	97.1	1.0	93.5	0.3	92.7	2.4	28.6	66.7
Mac/Mar	98.0	2.9	94.9	2.2	93.8	2.2	85.7	66.7
Apr/Apr	98.3	3.6	95.2	3.4	93.2	0.9	71.4	100.0
Mei/May	98.3	3.3	95.5	3.1	93.9	1.7	71.4	83.3
Jun/June	97.9	2.4	95.1	2.7	93.9	2.2	71.4	100.0
Jul/July	97.5	2.4	96.1	4.2	94.7	3.7	71.4	100.0
Ogos/Aug	97.9	2.7	95.6	2.8	93.6	1.2	85.7	100.0
Sep/Sep	98.8	4.3	96.1	3.3	94.5	2.9	71.4	66.7
Okt/Oct	98.9	4.1	96.5	3.8	93.1	0.8	85.7	66.7
Nov/Nov	98.2	4.1	96.8	3.2	95.4	3.1	57.1	66.7
Dis/Dec	97.8	2.4	97.5	4.3	96.1	3.6	42.9	100.0
2014								
Jan/Jan	98.2	2.6	97.0	2.9	96.5	3.7	71.4	66.7
Feb/Feb	98.6	1.5	97.3	4.1	96.5	4.1	57.1	83.3
Mac/Mar	98.2	0.2	96.2	1.4	96.8	3.2	28.6	83.3
Apr/Apr	99.6	1.3	97.8	2.7	98.5	5.7	57.1	83.3
Mei/May	99.4	1.1	97.7	2.3	97.5	3.8	85.7	66.7
Jun/June	98.9	1.0	98.2	3.3	97.8	4.2	71.4	66.7
Jul/July	99.7	2.3	98.3	2.3	97.3	2.7	57.1	66.7
Ogos/Aug	99.7	1.8	99.2	3.8	97.9	4.6	85.7	66.7
Sep/Sep	100.4	1.6	99.0	3.0	97.8	3.5	85.7	83.3
Okt/Oct	99.7	0.8	99.1	2.7	98.5	5.8	57.1	83.3
Nov/Nov	100.5	2.3	99.1	2.4	97.9	2.6	85.7	66.7
Dis/Dec	101.0	3.3	99.6	2.2	97.7	1.7	71.4	83.3



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2015								
Jan/Jan	100.3	2.1	100.2	3.3	98.9	2.5	71.4	83.3
Feb/Feb	99.8	1.2	99.8	2.6	98.9	2.5	57.1	50.0
Mac/Mar	101.1	3.0	100.5	4.5	99.8	3.1	42.9	83.3
Apr/Apr	100.8	1.2	99.8	2.0	98.5	0.0	57.1	83.3
Mei/May	99.4	0.0	99.4	1.7	99.6	2.2	28.6	50.0
Jun/June	99.8	0.9	99.6	1.4	99.8	2.0	14.3	50.0
Jul/July	100.3	0.6	98.9	0.6	100.0	2.8	57.1	33.3
Ogos/Aug	99.1	-0.6	99.8	0.6	99.6	1.7	14.3	50.0
Sep/Sep	100.0	-0.4	100.2	1.2	100.4	2.7	14.3	50.0
Okt/Oct	99.9	0.2	100.5	1.4	101.4	2.9	14.3	66.7
Nov/Nov	99.6	-0.9	100.5	1.4	101.9	4.1	42.9	66.7
Dis/Dec	99.8	-1.2	100.8	1.2	101.2	3.6	42.9	66.7
2016								
Jan/Jan	99.3	-1.0	101.9	1.7	100.5	1.6	42.9	83.3
Feb/Feb	98.7	-1.1	102.0	2.2	101.0	2.1	71.4	66.7
Mac/Mar	99.0	-2.1	101.8	1.3	100.7	0.9	57.1	83.3
Apr/Apr	98.2	-2.6	101.4	1.6	100.5	2.0	28.6	66.7
Mei/May	98.8	-0.6	101.3	1.9	100.5	0.9	57.1	50.0
Jun/June	99.5	-0.3	102.3	2.7	101.7	1.9	57.1	83.3
Jul/July	97.9	-2.4	101.5	2.6	100.4	0.4	42.9	50.0
Ogos/Aug	99.3	0.2	102.3	2.5	102.5	2.9	42.9	50.0
Sep/Sep	99.3	-0.7	103.5	3.3	103.1	2.7	42.9	100.0
Okt/Oct	98.6	-1.3	103.5	3.0	102.4	1.0	57.1	100.0
Nov/Nov	98.2	-1.4	103.8	3.3	103.2	1.3	42.9	100.0
Dis/Dec	99.5	-0.3	104.2	3.4	103.8	2.6	57.1	100.0
2017								
Jan/Jan	99.9	0.6	103.8	1.9	103.6	3.1	71.4	83.3
Feb/Feb	100.0	1.3	104.7	2.6	104.0	3.0	71.4	83.3
Mac/Mar	100.9	1.9	105.2	3.3	105.0	4.3	85.7	50.0
Apr/Apr	99.7	1.5	105.7	4.2	105.7	5.2	57.1	83.3
Mei/May	100.9	2.1	106.5	5.1	104.9	4.4	85.7	100.0
Jun/June	100.2	0.7	106.7	4.3	105.9	4.1	57.1	83.3
Jul/July	100.8	3.0	107.2	5.6	106.0	5.6	71.4	100.0
Ogos/Aug	102.0	2.7	107.2	4.8	107.2	4.6	71.4	83.3
Sep/Sep	102.1	2.8	107.2	3.6	105.9	2.7	71.4	100.0
Okt/Oct	101.9	3.3	107.3	3.7	107.3	4.8	85.7	100.0
Nov/Nov	102.6	4.5	107.7	3.8	107.2	3.9	71.4	100.0
Dis/Dec	101.4	1.9	107.8	3.5	107.6	3.7	85.7	100.0



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2018								
Jan/Jan	102.3	2.4	107.4	3.5	109.1	5.3	71.4	66.7
Feb/Feb	102.2	2.2	108.8	3.9	108.9	4.7	57.1	66.7
Mac/Mar	102.2	1.3	109.8	4.4	110.5	5.2	42.9	83.3
Apr/Apr	102.0	2.3	110.7	4.7	111.4	5.4	57.1	100.0
Mei/May	100.7	-0.2	110.1	3.4	111.1	5.9	14.3	100.0
Jun/June	100.8	0.6	110.0	3.1	110.3	4.2	28.6	83.3
Jul/July	100.6	-0.2	110.1	2.7	111.7	5.4	28.6	100.0
Ogos/Aug	100.9	-1.1	110.2	2.8	112.1	4.6	14.3	83.3
Sep/Sep	100.0	-2.1	111.3	3.8	111.5	5.3	14.3	83.3
Okt/Oct	100.3	-1.6	111.4	3.8	113.6	5.9	28.6	66.7
Nov/Nov	100.3	-2.2	110.6	2.7	113.5	5.9	57.1	83.3
Dis/Dec	99.3	-2.1	110.8	2.8	113.3	5.3	0.0	66.7
2019								
Jan/Jan	101.0	-1.3	111.7	4.0	114.6	5.0	57.1	83.3
Feb/Feb	99.1	-3.0	112.0	2.9	115.4	6.0	14.3	83.3
Mac/Mar	100.2	-2.0	112.5	2.5	113.7	2.9	71.4	83.3
Apr/Apr	102.5	0.5	113.6	2.6	114.5	2.8	100.0	83.3
Mei/May	100.9	0.2	114.4	3.9	115.0	3.5	57.1	100.0
Jun/June	100.5	-0.3	113.9	3.5	114.2	3.5	71.4	100.0
Jul/July	101.3	0.7	114.0	3.5	114.8	2.8	57.1	83.3
Ogos/Aug	101.0	0.1	113.9	3.4	115.5	3.0	57.1	100.0
Sep/Sep	100.2	0.2	113.1	1.6	114.9	3.0	42.9	66.7
Okt/Oct	102.3	2.0	113.6	2.0	116.0	2.1	42.9	66.7
Nov/Nov	101.7	1.4	113.7	2.8	115.3	1.6	57.1	50.0
Dis/Dec	101.6	2.3	113.5	2.4	116.3	2.6	57.1	50.0
2020								
Jan/Jan	101.8	0.8	113.8	1.9	116.1	1.3	57.1	50.0
Feb/Feb	102.6	3.5	115.6	3.2	114.9	-0.4	85.7	100.0
Mac/Mar	96.5	-3.7	109.8	-2.4	108.2	-4.8	28.6	33.3
Apr/Apr	96.5	-5.9	94.8	-16.5	118.3	3.3	28.6	0.0
Mei/May	101.8	0.9	103.6	-9.4	121.9	6.0	42.9	0.0
Jun/June	105.6	5.1	111.2	-2.4	123.0	7.7	57.1	50.0
Jul/July	109.5	8.1	112.0	-1.8	123.2	7.3	57.1	33.3
Ogos/Aug	109.4	8.3	111.5	-2.1	124.0	7.4	57.1	0.0
Sep/Sep	109.2	9.0	111.9	-1.1	125.0	8.8	100.0	66.7
Okt/Oct	109.0	6.5	111.0	-2.3	123.7	6.6	100.0	100.0
Nov/Nov	109.2	7.4	111.1	-2.3	123.5	7.1	85.7	100.0
Dis/Dec	109.2	7.5	111.9	-1.4	124.2	6.8	71.4	66.7



Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)

Table 4 : Composite Index and Diffusion Index (cont'd)

Tempoh Period	Indeks Komposit Composite Index						Indeks Difusi Diffusion Index	
	Indeks Pelopor (IP) Leading Index (LI)		Indeks Serentak (IS) Coincident Index (CI)		Indeks Susulan (ISL) Lagging Index (LG)		Indeks Pelopor (IP) Leading Index (LI)	Indeks Serentak (IS) Coincident Index (CI)
	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	2015=100	Perubahan Tahunan Annual Change (%)	Peratus (%) Per cent (%)	Peratus (%) Per cent (%)
2021								
Jan/Jan	110.1	8.2	111.3	-2.2	122.7	5.7	42.9	50.0
Feb/Feb	111.4	8.6	113.2	-2.1	123.4	7.4	71.4	83.3
Mac/Mar	113.0	17.1	114.3	4.1	125.9	16.4	85.7	83.3
Apr/Apr	111.4	15.4	114.2	20.5	125.9	6.4	57.1	83.3
Mei/May	108.8	6.9	114.0	10.0	125.8	3.2	71.4	66.7
Jun/June	106.1	0.5	107.9	-3.0	118.8	-3.4	28.6	33.3
Jul/July	105.2	-3.9	106.3	-5.1	122.9	-0.2	28.6	16.7
Ogos/Aug	107.0	-2.2	109.7	-1.6	124.5	0.4	14.3	16.7
Sep/Sep	109.6	0.4	112.0	0.1	128.1	2.5	14.3	33.3
Okt/Oct	109.2	0.2	113.1	1.9	128.2	3.6	42.9	33.3
Nov/Nov	110.9	1.6	114.3	2.9	128.4	4.0	71.4	50.0
Dis/Dec	111.4	2.0	114.5	2.3	129.5	4.3	71.4	100.0
2022								
Jan/Jan	110.2	0.1	114.6	3.0	130.3	6.2	71.4	100.0
Feb/Feb	110.8	-0.5	116.0	2.5	130.4	5.7	85.7	100.0
Mac/Mar	111.5	-1.3	117.5	2.8	134.0	6.4	85.7	100.0
Apr/Apr	111.4	0.0	119.2	4.4	134.6	6.9	57.1	100.0
Mei/May	111.5	2.5	120.6	5.8	135.4	7.6	57.1	100.0
Jun/June	112.1	5.7	121.3	12.4	137.9	16.1	42.9	100.0
Jul/July	110.0	4.6	120.8	13.6	137.6	12.0	42.9	100.0
Ogos/Aug	110.3	3.1	121.0	10.3	139.4	12.0	57.1	100.0
Sep/Sep	109.6	0.0	121.2	8.2	139.8	9.1	42.9	83.3
Okt/Oct	109.4	0.2	120.6	6.6	140.7	9.8	28.6	83.3
Nov/Nov	110.0	-0.8	120.6	5.5	139.8	8.9	28.6	50.0
Dis/Dec	109.8	-1.4	120.3	5.1	138.9	7.3	57.1	50.0
2023								
Jan/Jan	108.3	-1.7	119.5	4.3	140.3	7.7	28.6	50.0
Feb/Feb	111.4	0.5	121.6	4.8	140.8	8.0	57.1	66.7
Mac/Mar	110.2	-1.2	122.3	4.1	140.7	5.0	42.9	83.3
Apr/Apr	108.4	-2.7	121.3	1.8	139.4	3.6	57.1	50.0
Mei/May	110.3	-1.1	124.3	3.1	142.2	5.0	57.1	100.0

1.0 PENGENALAN

Penerbitan Penunjuk Ekonomi Malaysia ini memberikan maklumat ekonomi semasa yang bertujuan untuk memantau kedudukan ekonomi Negara. Ia terdiri daripada Indeks Pelopor, Serentak dan Susulan bagi Indeks Komposit dan Indeks Difusi yang diterbitkan secara bulanan.

2.0 OBJEKTIF

Objektif utama Penunjuk Ekonomi Malaysia adalah untuk memantau prestasi ekonomi Malaysia secara bulanan dan membantu penggubal dasar, pelabur, penyelidik serta masyarakat umum untuk menilai prestasi ekonomi.

3.0 SUMBER DATA

Data bagi penyediaan Indeks Komposit dan Indeks Difusi diperoleh daripada Jabatan Perangkaan Malaysia serta agensi berikut:

- i. Kementerian Perumahan dan Kerajaan Tempatan (KPKT);
- ii. Bank Negara Malaysia (BNM);
- iii. Jabatan Pengangkutan Jalan (JPJ);
- iv. Lembaga Pembangunan Pelaburan Malaysia (MIDA);
- v. Kumpulan Wang Simpanan Pekerja (KWSP);
- vi. Suruhanjaya Syarikat Malaysia (SSM); dan
- vii. Bursa Malaysia.

4.0 METODOLOGI

- 4.1 Pemilihan setiap komponen bagi Indeks Komposit adalah mengikut garis panduan yang terkandung dalam *Business Cycle Indicators Handbook*¹ iaitu:
 - i. **Keakuran terhadap kitaran perniagaan**
Data siri yang dipilih perlu seiring dengan kitaran perniagaan.
 - ii. **Konsisten terhadap fungsi indeks**
Data siri perlu sentiasa berfungsi secara konsisten sama ada sebagai indeks pelopor, serentak atau susulan.
 - iii. **Signifikan terhadap ekonomi**
Data siri yang dipilih perlu menyumbang secara signifikan kepada aktiviti ekonomi.
 - iv. **Kecukupan statistik**
Data mestilah dikumpul dan diproses dengan menggunakan kaedah statistik yang diperaku.
 - v. **Kelicinan**
Pergerakan data siri masa bulan ke bulan mestilah licin dan tidak banyak elemen ketidaktentuan.
 - vi. **Ketepatan**
Komponen yang terpilih mestilah mempunyai data siri yang bertepatan masa, tepat dan terkini untuk menghasilkan penunjuk yang berguna kepada analisis semasa.
- 4.2 Data siri masa yang terpilih perlu menjalani ujian pelarasan musim bagi mengeluarkan pengaruh musim terhadap data siri tersebut.

¹ McGuckin R.H. *et al.* (2000) *Business Cycle Indicators Handbook*. The Conference Board, United States.

NOTA KETERANGAN

4.3 Komponen-komponen yang terkandung dalam Penunjuk Ekonomi Malaysia adalah seperti berikut:

Indeks	Komponen
Pelopor	<ul style="list-style-type: none">i. Penawaran Wang Benar, M1ii. Indeks Perusahaan Bursa Malaysiaiii. Import Benar Semi Konduktor;iv. Import Benar Logam Asas Berharga & Logam Bukan Ferus Lainv. Bilangan Unit Kediaman yang Diluluskan Pembinaanvi. Jangkaan Nilai Jualan, Pembuatanvii. Bilangan Syarikat Baru Didaftarkan
Serentak	<ul style="list-style-type: none">i. Jumlah Guna Tenaga, Pembuatanii. Gaji & Upah Benar, Pembuataniii. Indeks Pengeluaran Perindustrianiv. Nilai Caruman Benar, KWSPv. Kapasiti Penggunaan, Pembuatanvi. Indeks Kuantiti Perdagangan Runcit
Susulan	<ul style="list-style-type: none">i. Kos Seunit Buruh, Pembuatanii. Bilangan Projek Pelaburan Baru Diluluskaniii. Bilangan Kenderaan Baru Didaftarkaniv. Eksport Gas Asli & Minyak Mentahv. IHP Perkhidmatan

5.0 KONSEP DAN DEFINISI

5.1 Indeks Komposit

Indeks Komposit merupakan gabungan komponen individu yang digunakan untuk mengukur gelagat kitaran ekonomi. Kebaikan Indeks Komposit berbanding analisis komponen individu ialah ianya dapat mengeluarkan pengaruh ketidakstabilan sesuatu komponen. Pada umumnya, Indeks Komposit lebih berupaya menghasilkan isyarat titik pusing yang jelas dan konsisten berbanding penunjuk secara individu. Terdapat tiga jenis Indeks Komposit dalam Penunjuk Ekonomi Malaysia iaitu indeks pelopor, serentak dan susulan.

i. Indeks Pelopor (IP)

Indeks Pelopor merupakan ukuran jangkaan keseluruhan aktiviti ekonomi dalam purata empat hingga enam bulan ke hadapan.

ii. Indeks Serentak (IS)

Indeks Serentak merupakan ukuran komprehensif terhadap prestasi keseluruhan ekonomi semasa.

iii. Indeks Susulan (ISL)

Indeks Susulan berfungsi sebagai pengesah kepada isyarat Indeks Pelopor dan Indeks Serentak.

5.2 Indeks Difusi

Indeks Difusi adalah pelengkap kepada Indeks Komposit. Ia digunakan untuk membantu membuat keputusan terutamanya dalam penentuan titik pusing kitaran ekonomi.

Nilai 100 bagi Indeks Difusi menunjukkan semua komponen meningkat dan nilai sifar bermaksud semua komponen mengalami penurunan. Sebagai contoh, nilai Indeks Difusi pada 85 mata bagi IP menunjukkan bahawa 85 peratus komponen IP meningkat pada bulan berkenaan.

NOTA KETERANGAN

5.3 Kitaran Perniagaan

Kitaran perniagaan merujuk kepada turun naik aktiviti ekonomi agregat seperti pengeluaran, pendapatan, guna tenaga, perdagangan dan sebagainya. Terdapat 2 fasa utama kitaran perniagaan iaitu fasa pengembangan dan kemelesetan.

Peningkatan dari titik kawah ke puncak ditakrifkan sebagai fasa pengembangan manakala penurunan dari titik puncak ke kawah ditakrifkan sebagai fasa kemelesetan. Fasa kemelesetan kitaran perniagaan ditentukan oleh kejatuhan Indeks Komposit Serentak sekurang-kurangnya enam bulan secara berturut-turut.

Sebagai contoh, Paparan 1 menunjukkan puncak bagi kitaran kelima Indeks Serentak pada Januari 2008 menandakan bermulanya fasa kemelesetan ekonomi dan kawah pada Mac 2009 menandakan berakhirnya fasa kemelesetan atau bermulanya fasa pengembangan ekonomi.

Paparan 1: Tempoh Rujukan Kitaran Perniagaan Malaysia

Bilangan Kitaran	Tempoh Rujukan	Kawah ke Puncak (Bulan)	Puncak ke Kawah (Bulan)	Tempoh Rujukan	Kitaran Penuh (Bulan)
Kitaran Pertama	Jul 74		7	Jul 74 - Feb 75	
Kitaran Kedua	Feb 75 - Jan 85	119	12	Jan 85 - Jan 86	131
Kitaran Ketiga	Jan 86 - Dis 97	143	11	Dis 97 - Nov 98	154
Kitaran Keempat	Nov 98 - Feb 01	27	12	Feb 01 - Feb 02	39
Kitaran Kelima	Feb 02 - Jan 08	71	14	Jan 08 - Mac 09	85
Kitaran Keenam	Mac 09 - Feb 20	131	17	Feb 20 - Jul 21	148
	Purata	98	12	Purata	110

5.4 Kitaran Pertumbuhan

Kitaran pertumbuhan ialah turun naik aktiviti ekonomi agregat di sepanjang arah aliran jangka panjangnya. Arah aliran jangka panjang aktiviti ekonomi agregat dianggarkan menggunakan kaedah *Hodrick Prescott Filter* terhadap Indeks Serentak. Kitaran pertumbuhan dihasilkan melalui penyisihan indeks daripada arah aliran jangka panjangnya.

Puncak kitaran pertumbuhan bermaksud berakhirnya fasa kenaikan dan bermulanya fasa penurunan pertumbuhan ekonomi. Sementara kawah bagi kitaran pertumbuhan menunjukkan berakhirnya fasa penurunan atau bermulanya fasa kenaikan pertumbuhan ekonomi.

Sebagai contoh, Paparan 2 menunjukkan titik puncak bagi kitaran kesembilan pada bulan April 2004 menandakan bahawa ekonomi telah memasuki fasa pertumbuhan perlahan dan kawah bagi kitaran pertumbuhan pada November 2005 menunjukkan bermulanya fasa pertumbuhan tinggi.

NOTA KETERANGAN

Paparan 2: Tempoh Rujukan Kitaran Pertumbuhan Malaysia

Bilangan Kitaran	Tempoh Rujukan	Kawah ke Puncak (Bulan)	Puncak ke Kawah (Bulan)	Tempoh Rujukan	Kitaran Penuh (Bulan)
Kitaran Pertama	Feb 73 - Mei 74	15	10	Mei 74 - Mac 75	25
Kitaran Kedua	Mac 75 - Nov 76	20	8	Nov 76 - Jul 77	28
Kitaran Ketiga	Jul 77 - Jul 81	48	16	Jul 81 - Nov 82	64
Kitaran Keempat	Nov 82 - Jan 85	26	24	Jan 85 - Jan 87	50
Kitaran Kelima	Jan 87 - Okt 88	21	18	Okt 88 - Apr 90	39
Kitaran Keenam	Apr 90 - Jan 92	21	12	Jan 92 - Jan 93	33
Kitaran Ketujuh	Jan 93 - Jan 98	60	12	Jan 98 - Jan 99	72
Kitaran Kelapan	Jan 99 - Ogo 00	19	18	Ogo 00 - Feb 02	37
Kitaran Kesembilan	Feb 02 - Apr 04	26	19	Apr 04 - Nov 05	45
Kitaran Kesepuluh	Nov 05 - Jan 08	26	14	Jan 08 - Mac 09	40
Kitaran Kesebelas	Mac 09 - Jul 11	28	12	Jul 11 - Jul 12	40
Kitaran Keduabelas	Jul 12 - Mac 15	32	14	Mac 15 - Mei 16	46
Kitaran Ketigabelas	Mei 16 - Apr 19	35	12	Apr 19 - Apr 20	47
Purata		29	15	Purata	44

6.0 KEKANGAN PENUNJUK EKONOMI MALAYSIA

Terdapat beberapa kekangan Penunjuk Ekonomi Malaysia yang perlu diambil perhatian oleh pengguna:

- i. Indeks Pelopor tidak dapat mengukur atau meramal perubahan magnitud dalam aktiviti ekonomi. Indeks ini hanya menunjukkan arah tuju ekonomi di masa hadapan.
- ii. Indeks Serentak tidak menggambarkan tahap situasi ekonomi semasa. Justeru itu, ia tidak boleh ditafsirkan sebagai aras Keluaran Dalam Negeri Kasar (KDNK) semasa bulanan.
- iii. Sistem penunjuk ekonomi tidak berupaya untuk mengambil kira kejutan pengaruh dalaman atau/dan luaran kepada ekonomi.

EXPLANATORY NOTES

1.0 INTRODUCTION

The publication of Malaysian Economic Indicators presents current economic information with the purpose of monitoring the economic situation of the country. It consists of Leading, Coincident and Lagging for Composite and Diffusion Indexes which published on the monthly basis.

2.0 OBJECTIVES

The main objectives of Malaysian Economic Indicators are to monitor Malaysian economic performance on a monthly basis and to assist the policy makers, investors, researchers as well as the public to assess the economic performance.

3.0 SOURCES OF DATA

Data for the compilation of Composite and Diffusion Indexes is obtained from the Department of Statistics Malaysia and the following agencies:

- i. Ministry of Housing and Local Government (MHLG);
- ii. Bank Negara Malaysia (BNM);
- iii. Road Transport Department (RTD);
- iv. Malaysian Investment Development Authority (MIDA);
- v. Employees Provident Fund (EPF);
- w. Companies Commission of Malaysia (SSM); and
- x. Bursa Malaysia.

4.0 METHODOLOGY

4.1 Selection of each component for the Composite Index is based on the guideline in the Business Cycle Indicators Handbook¹ namely:

- i. **Conformity to business cycle**
The selected data series must conform to the business cycle.
- ii. **Consistent timing**
The data series must exhibit a consistent timing pattern over time as leading, coincident or lagging indexes.
- iii. **Economic significance**
The selected data series must significantly contribute to the economy.
- iv. **Statistical adequacy**
Data must be collected and processed in a statistically reliable manner.
- v. **Smoothness**
The month to month movements of the data series must not be too erratic.
- vi. **Promptness**
The selected components must be timely, accurate and updated to contribute to the current analysis.

4.2 The selected time series data are seasonally adjusted to remove the seasonal influences of the data series.

¹ McGuckin R.H. et al. (2000) Business Cycle Indicators Handbook. The Conference Board, United States.

EXPLANATORY NOTES

4.3 The components contained in the Malaysian Economic Indicators are as follows:

Index	Components
Leading	<ul style="list-style-type: none"> i. Real Money Supply, M1 ii. Bursa Malaysia Industrial Index iii. Real Imports of Semi Conductors iv. Real Imports of Other Basic Precious & Other Non-ferrous Metals v. Number of Housing Units Approved vi. Expected Sales Value, Manufacturing vii. Number of New Companies Registered
Coincident	<ul style="list-style-type: none"> i. Total Employment, Manufacturing ii. Real Salaries & Wages, Manufacturing iii. Industrial Production Index iv. Real Contributions, EPF v. Capacity Utilisation, Manufacturing vi. Volume Index of Retail Trade
Lagging	<ul style="list-style-type: none"> i. Unit Labour Cost, Manufacturing ii. Number of Investment Projects Approved iii. Number of New Vehicles Registered iv. Exports of Natural Gas & Crude Oil v. CPI for Services

5.0 CONCEPTS AND DEFINITIONS

5.1 Composite Index

The Composite Index is the combination of individual indicators which measures the economic cycles behaviour. The advantage of Composite Index compared to individual analysis is the tendency to smooth out some of the volatility of the series. The Composite Index is generally more reliable in generating clear and consistent turning points than individual indicators. There are three types of Composite Index in the Malaysian Economic Indicators, i.e. leading, coincident and lagging indexes.

- i. **Leading Index (LI)**
The Leading Index measures anticipations of the overall economic activity on average of four to six months ahead.
- ii. **Coincident Index (CI)**
The Coincident Index is a comprehensive measure of the overall current economic performance.
- iii. **Lagging Index (LG)**
The Lagging Index is to validate the signal of the Leading and Coincident Indexes.

5.2 Diffusion Index

The Diffusion Index is a complement to the Composite Index. It is used to assist in making a decision especially in determining turning point of economic cycle.

The value of 100 for Diffusion Index implies that all components are increasing and the value of zero shows that all components are decreasing. For example, the Diffusion Index of 85 points for the LI shows that 85 per cent of LI components are increasing for that particular month.

EXPLANATORY NOTES

5.3 Business Cycle

Business cycle is a fluctuation of the aggregated economic activity such as production, income, employment, trade and etc. There are two main phases of business cycle namely expansion and recession phases.

The upward movement from trough to peak is defined as expansion phase meanwhile the downward movement from peak to trough is classified as recession phase. The phase of business cycle recession is determined by declining of the Coincident Composite Index for at least six months successively.

For example, Exhibit 1 shows that the peak of the fifth cycle of Coincident Index in January 2008 indicates the beginning of business cycle recession and the trough in March 2009 indicates the end of recession phase or the beginning of economic expansion phase.

Exhibit 1: Malaysian Business Cycles Reference Periods

Number of Cycle	Reference Periods	Trough to Peak (Month)	Peak to Trough (Month)	Reference Periods	Full Cycle (Month)
First Cycle	Jul 74		7	Jul 74 - Feb 75	
Second Cycle	Feb 75 - Jan 85	119	12	Jan 85 - Jan 86	131
Third Cycle	Jan 86 - Dec 97	143	11	Dec 97 - Nov 98	154
Fourth Cycle	Nov 98 - Feb 01	27	12	Feb 01 - Feb 02	39
Fifth Cycle	Feb 02 - Jan 08	71	14	Jan 08 - Mar 09	85
Sixth Cycle	Mar 09 - Feb 20	131	17	Feb 20 - Jul 21	148
	Average	98	12	Average	110

5.4 Growth Cycle

The growth cycle is a fluctuation of the aggregated economic activity along its long term trend. The long term trend of the aggregated economic activity is estimated using the Hodrick Prescott Filter method on the Coincident Index. The growth cycle is generated through the deviation of the index from its long term trend.

The peak of growth cycle reflects the end of the upswing and the beginning of downswing phase of economic growth. Meanwhile trough for growth cycle indicates the end of downswing or the beginning of upswing phase of economic growth.

For example, Exhibit 2 shows that the peak point of the ninth cycle in April 2004 reflects that economy is entering the slow growth phase and the trough for growth cycle in November 2005 shows the beginning of a higher growth phase.

EXPLANATORY NOTES

Exhibit 2: Malaysian Growth Cycles Reference Periods

Number of Cycle	Reference Periods	Trough to Peak (Month)	Peak to Trough (Month)	Reference Periods	Full Cycle (Month)
First Cycle	Feb 73 - May 74	15	10	May 74 - Mar 75	25
Second Cycle	Mar 75 - Nov 76	20	8	Nov 76 - Jul 77	28
Third Cycle	Jul 77 - Jul 81	48	16	Jul 81 - Nov 82	64
Fourth Cycle	Nov 82 - Jan 85	26	24	Jan 85 - Jan 87	50
Fifth Cycle	Jan 87 - Oct 88	21	18	Oct 88 - Apr 90	39
Sixth Cycle	Apr 90 - Jan 92	21	12	Jan 92 - Jan 93	33
Seventh Cycle	Jan 93 - Jan 98	60	12	Jan 98 - Jan 99	72
Eighth Cycle	Jan 99 - Aug 00	19	18	Aug 00 - Feb 02	37
Nineth Cycle	Feb 02 - Apr 04	26	19	Apr 04 - Nov 05	45
Tenth Cycle	Nov 05 - Jan 08	26	14	Jan 08 - Mar 09	40
Eleventh Cycle	Mar 09 - Jul 11	28	12	Jul 11 - Jul 12	40
Twelfth Cycle	Jul 12 - Mar 15	32	14	Mar 15 - May 16	46
Thirteenth Cycle	Mei 16 - Apr 19	35	12	Apr 19 - Apr 20	47
Average		29	15	Average	44

6.0 LIMITATION OF MALAYSIAN ECONOMIC INDICATORS

There are some limitations of the Malaysian Economic Indicators that users should be aware of:

- i. The Leading Index is unable to measure or predict the magnitude of any changes of economic activity. The index shows the direction of the economy in advance.
- ii. The Coincident Index does not represent the level of the current economic situation. Thus it should not be interpreted as the level of current monthly Gross Domestic Product (GDP).
- iii. The economic indicators are unable to take into account the internal or/and external shock to the economy.



KALENDAR AWALAN KELUARAN 2023
PENUNJUK EKONOMI MALAYSIA: INDEKS PELOPOR, SERENTAK & SUSULAN

ADVANCE RELEASE CALENDAR 2023
 MALAYSIAN ECONOMIC INDICATORS: LEADING, COINCIDENT & LAGGING INDEXES

Bulan Rujukan
Reference Month

Tarikh Keluaran
Release Date

Nota : TLD Tidak lewat daripada
 Note : NLT Not later than





www.dosm.gov.my



@StatsMalaysia