

Taiwan Business Indicators in November 2016

Press Release

National Development Council (NDC)

December 27, 2016

In November 2016, the Taiwan Business Indicators showed some scattered signs of economic improvement. Among the indicators compiled by the National Development Council (NDC), the trend-adjusted leading index remained stable, the trend-adjusted coincident index increased by 0.94% from the previous month, and the overall monitoring indicator flashed the "green" signal.

1. The Monitoring Indicators: The total score in November 2016 increased by two points to 26, flashing the "green" signal for the fifth month. Among the nine components, the customs-cleared exports and the index of producer's shipment for manufacturing each gained one point to change its individual light from "yellow-blue" to "green". The light signal for the rest of seven components remained unchanged.
2. Leading Indicators: With revised data, the trend-adjusted leading index stood at 100.31, remained stable from October 2016. Among the seven indicators making up the trend-adjusted index, the index of export orders, TAIEX average closing price, net accession rate of employees on payrolls of industry and services, the TIER manufacturing sector composite indicator, and real monetary aggregates M1B had positive cyclical movements from the previous month, while building permits and the SEMI book-to-bill ratio had negative cyclical movements.
3. Coincident Indicators: With revised data, the trend-adjusted coincident index stood at 104.39, up by 0.94% from October 2016. All seven indicators making up the trend-adjusted index had positive cyclical movements, which were sales of trade and food services, real machineries and electrical equipments imports, the index of producer's shipment for manufacturing, real customs-cleared exports, the industrial production index, electric power consumption, and nonagricultural employment.
4. Lagging Indicators: With revised data, the trend-adjusted lagging index stood at 96.69, down by 0.48% from October 2016. Among the

six indicators making up the trend-adjusted index, the unemployment rate (inverted), and the interbank overnight call-loan rate had positive cyclical movements from the previous month, while the manufacturing unit output labor cost index, the inventories to sales ratio for manufacturing, regular employees on payrolls in industry and services, and loans and investments of monetary financial institutions had negative cyclical movements.

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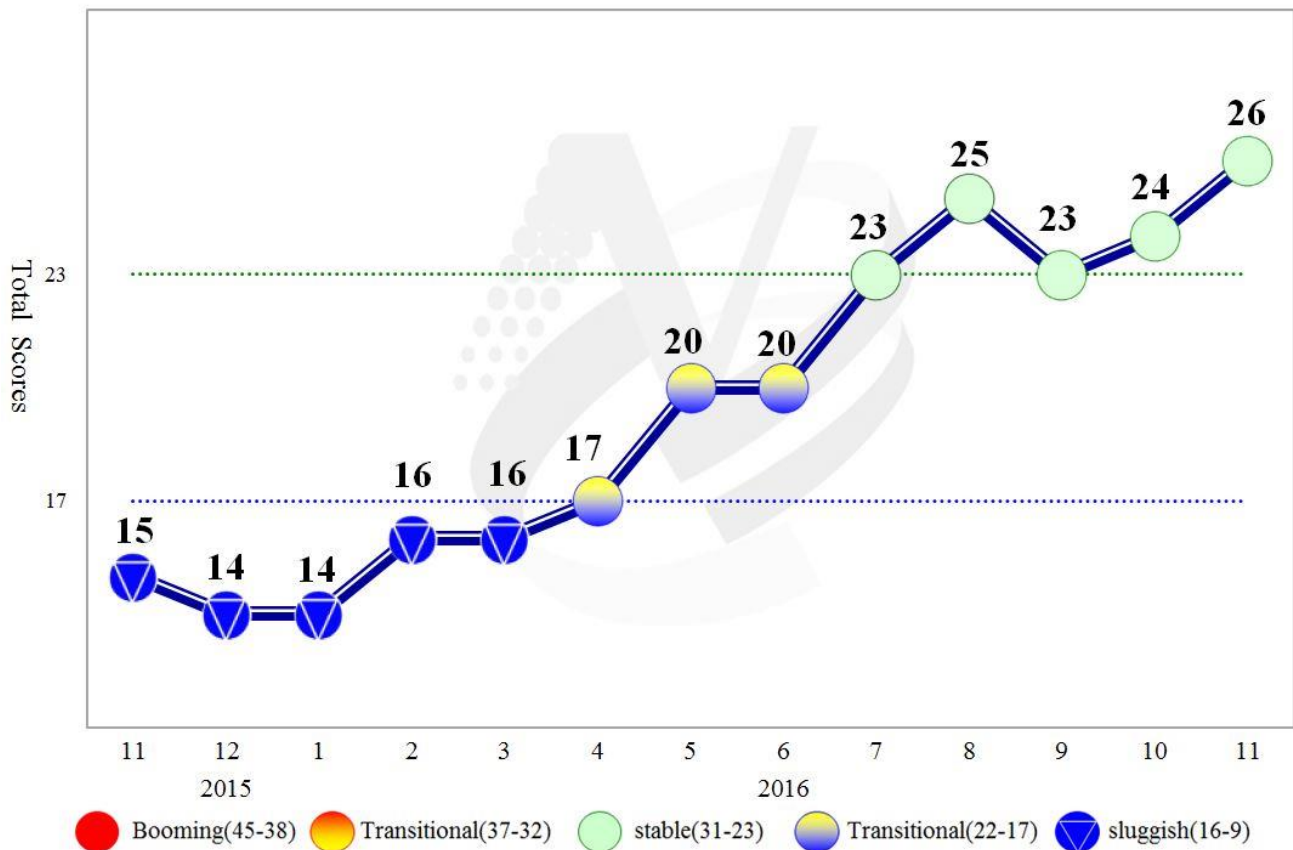


Figure 1 Total Scores in the Past Year

		2015		2016											
		11	12	1	2	3	4	5	6	7	8	9	10	11	
Total	Light	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	
	Score	15	14	14	16	16	17	20	20	23	25	23	24	26	
Monetary Aggregates M1B		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	6.3	⬇️	6.5
TAIEX Average Closing Price		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	8.5	⬇️	7.0
Industrial Production Index		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	4.9 _r	⬇️	7.1
Nonagricultural Employment		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	0.62	⬇️	0.64
Customs-Cleared Exports		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	4.4	⬇️	9.6
Imports of Machineries and Electrical Equipments		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	18.2	⬇️	12.2
Index of producer's shipment for manufacturing		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	1.6 _r	⬇️	6.0 _p
Sales of Trade and Food Services		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	0.2	⬇️	3.7
The TIER Manufacturing Sector Composite Indicator		⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	97.7 _r	⬇️	99.1

Notes : 1. Individual Componenets and check points are in terms of percentage changes over a one-year span, except the TIER Manufacturing Composite Indicator, which is in point (2006=100).

2. All components, except TAIEX average closing price, have been seasonally adjusted.

3. p = Preliminarily estimated, r = Revised.

Figure 2 Monitoring Indicators

Table 1 Leading Indicators

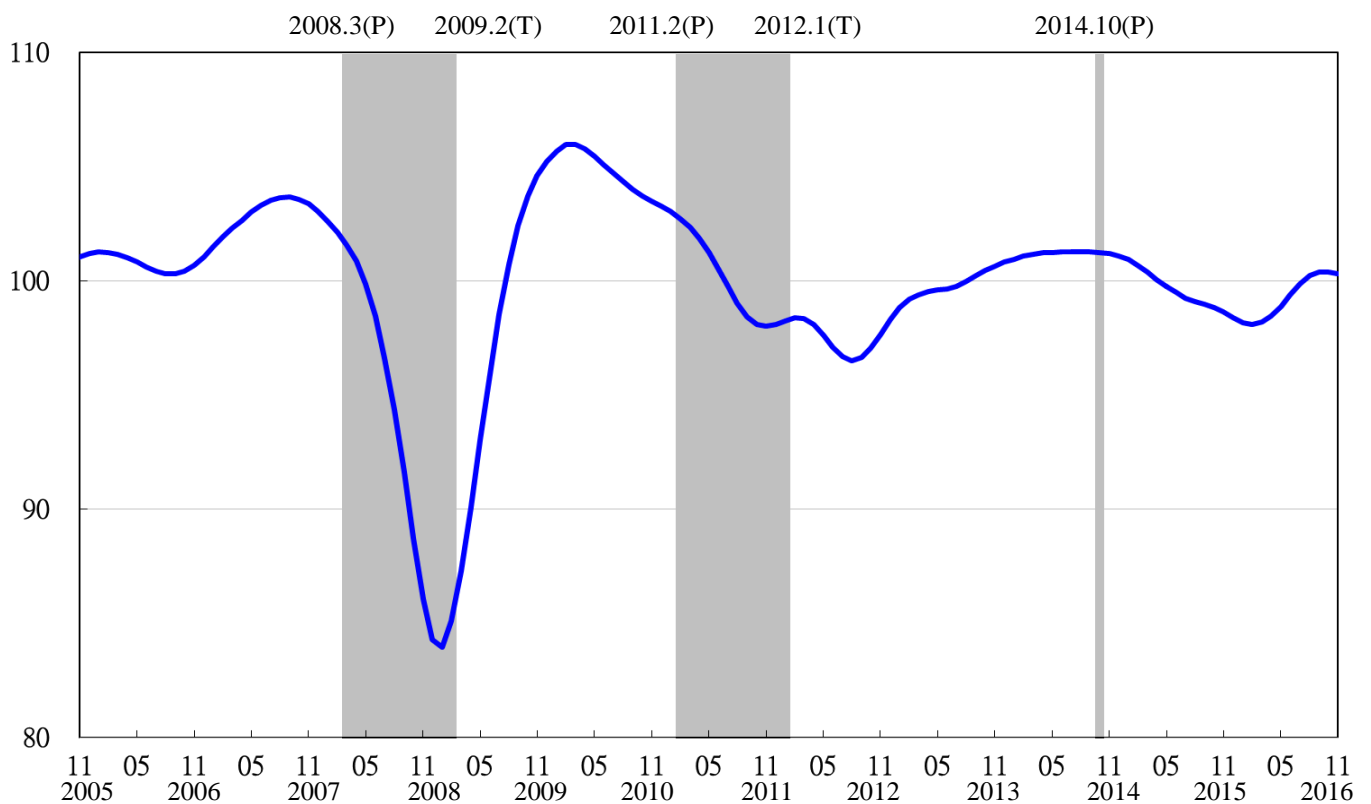
Index

	2016						
	May	Jun	Jul	Aug	Sep	Oct	Nov
Trend adjusted index	98.87	99.38	99.86	100.21	100.37	100.36	100.31
Change from preceding month (%)	0.44	0.51	0.49	0.34	0.16	-0.00	-0.06
Components¹							
Index of export orders	99.00	99.34	99.76	100.18	100.54	100.83	101.08
Real monetary aggregates M1B	99.92	99.91	99.91	99.93	99.94	99.94	99.95
TAIEX average closing price	99.68	99.80	99.92	100.05	100.15	100.25	100.33
Net accession rate of employees on payrolls of industry and services ²	99.90	99.94	99.98	100.05	100.13	100.21	100.28
Building permits ³	99.34	99.72	100.04	100.15	100.06	99.80	99.48
SEMI Book-to-Bill Ratio	100.39	100.26	100.11	99.92	99.70	99.45	99.20
The TIER manufacturing sector composite indicator	100.24	100.37	100.45	100.50	100.54	100.58	100.64

Note : 1. All components are passed through seasonal adjustment, trend-removal, smoothing and normalization.

2. Net accession rate is equal to accession rate minus separation rate.

3. Including only housing, mercantile, business and service, industry warehousing.



Note: Shaded areas represent recessions.

Figure 3 Trend-adjusted Leading Index

Table 2 Coincident Indicators

	Index						
	2016						
	May	Jun	Jul	Aug	Sep	Oct	Nov
Trend adjusted index	98.81	99.66	100.59	101.51	102.43	103.42	104.39
Change from preceding month (%)	0.72	0.86	0.93	0.91	0.91	0.96	0.94
Components							
Industrial production index	99.51	99.77	100.03	100.30	100.58	100.88	101.20
Electric power consumption	99.92	100.17	100.37	100.48	100.61	100.71	100.74
Index of producer's shipment for manufacturing	99.50	99.77	100.04	100.31	100.59	100.95	101.34
Sales of trade and food services	99.15	99.41	99.75	100.13	100.53	100.98	101.49
Nonagricultural employment	99.72	99.66	99.62	99.60	99.59	99.60	99.61
Real customs-cleared exports	99.48	99.77	100.08	100.39	100.70	101.06	101.43
Real machineries and electrical equipments imports	99.32	99.88	100.53	101.19	101.79	102.32	102.77

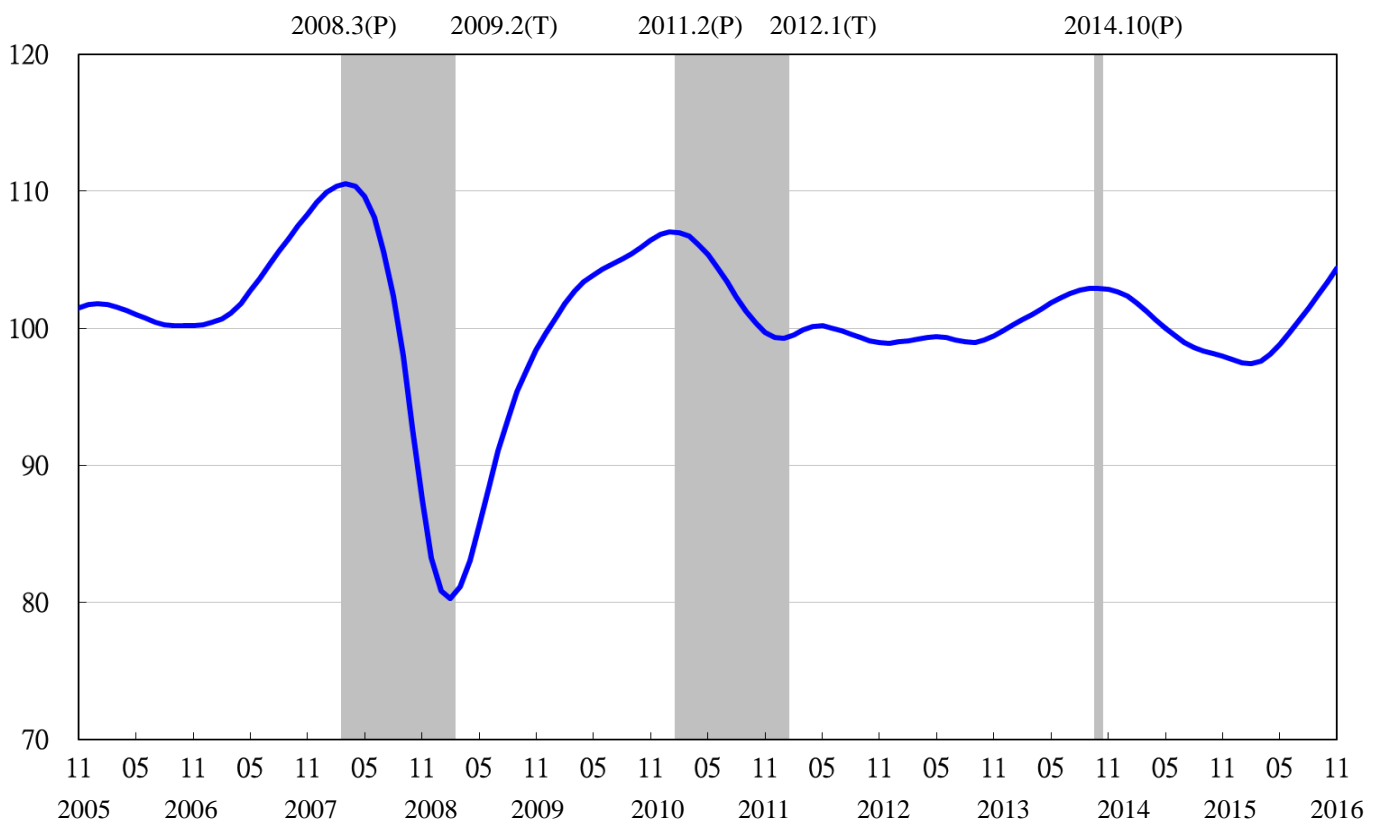


Figure 4 Trend-adjusted Coincident Index

Table 3 Lagging Indicators

	Index						
	2016						
	May	Jun	Jul	Aug	Sep	Oct	Nov
Trend adjusted index	99.33	98.88	98.46	98.03	97.61	97.15	96.69
Change from preceding month (%)	-0.50	-0.46	-0.43	-0.43	-0.43	-0.47	-0.48
Components							
Unemployment rate	99.46	99.46	99.49	99.55	99.65	99.76	99.88
Regular employees on payrolls in industry & services	99.84	99.80	99.76	99.73	99.70	99.69	99.67
The manufacturing unit output labor cost index	100.14	99.88	99.60	99.28	98.91	98.52	98.13
Interbank overnight call-loan rate	99.88	99.88	99.89	99.91	99.92	99.94	99.95
Loans and investments of monetary financial institutions	99.83	99.83	99.83	99.83	99.83	99.83	99.82
Inventories to sales ratio for manufacturing	100.06	99.82	99.59	99.35	99.13	98.88	98.60

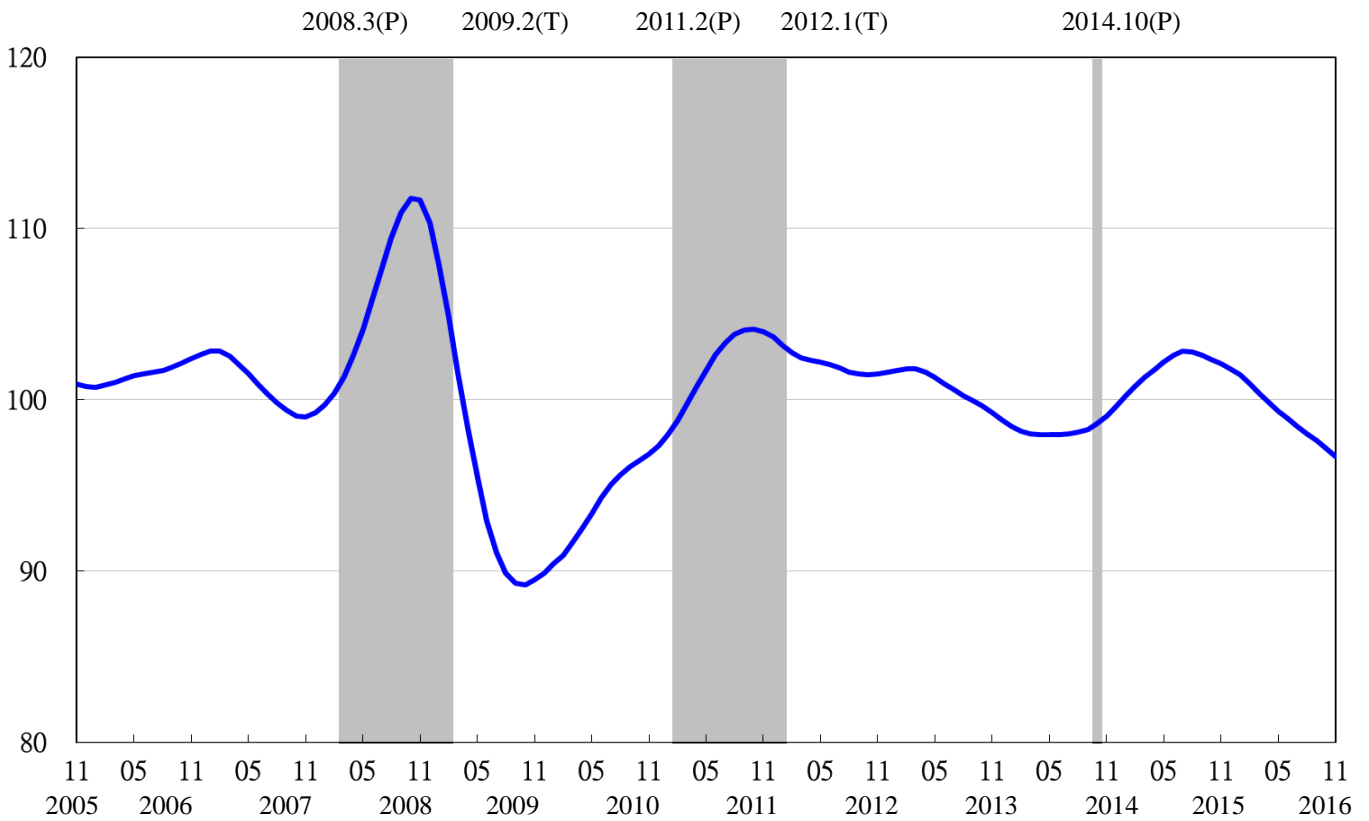


Figure 5 Trend-adjusted Lagging Index