TDB Trends Research (Research & Summary for May 2016)

Stagnation in consumption, coupled with the falsification of MPGdata and Kumamoto Earthquake, had an adverse impact on economic conditions

- The delay in implementation of a consumption tax increase is expected to help mitigate these negative factors

(Companies Researched 23, 586; Valid Responses 10, 588; Response Rate 44.9%; Survey Start Date: May 2002)

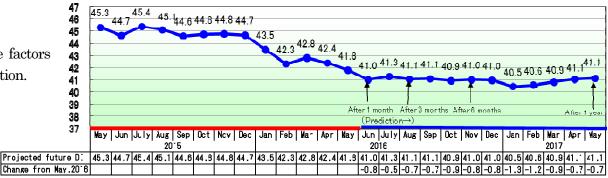
< Overview of May 2016: Shifted to declining >

Economic diffusion index (DI) in May was 41.8, down 0.6 points from the previous month. This reflects a declining trend for two consecutive months. Manufacturers' component procurement was affected by operational shutdowns of parts suppliers due to the Kumamoto Earthquake. Businesses continued to adopt a cautious stance toward capital investment, and consumer spending was in the doldrums. As a result, Japan's economy worsened during this period.

< Future Outlook: Stagnation will continue >

Economic conditions will remain weak due to a lack of positive factors needed to bring about a turnaround in manufacturing and consumption.

- By industry: <u>"Retail" industry has worsened for the first time in three months.</u> Sluggishness in personal consumption was noticeable.
- By size: <u>As with the previous month, the economy worsened</u> <u>"nationwide."</u>
- By region: <u>Miles per gallon (MPG) falsification affected the "Chugoku"</u> region and the Kumamoto Earthquake impacted the "Kyushu" region. These adverse conditions continue.



*: Economic DIs are calculated based on the structural ARIMA model, in which economic statistics are incorporated to the ARIMA model.

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	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Ratio to the PrFDious Month
Total	45.3	44.7	45.4	45.1	44.6	44.8	44.8	44.7	43.5	42.3	42.8	42.4	41.8	▲ 0.6
Large Firms	49.2	48.4	48.8	48.9	48.2	48.4	48.4	47.9	47.1	46.0	46.5	46.2	45.7	▲ 0.5
Small to Medium-sized Firms	44.3	43.6	44.5	44.1	43.6	43.7	43.7	43.8	42.5	41.3	41.8	41.4	40.8	▲ 0.6
Micro Firms	43.2	43.1	43.4	43.2	43.2	43.2	43.1	43.3	41.8	40.3	40.8	40.3	39.7	▲ 0.6

		May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Ratio to the PrFDious Month
Agriculture,Forest	ry,Fisheries	45.0	41.9	42.9	44.7	44.7	44.6	45.2	46.4	43.6	44.5	42.3	42.4	42.1	▲ 0.3
Finance		47.4	49.2	48.1	46.5	46.3	47.3	46.6	46.3	45.3	44.3	44.8	45.5	44.3	▲ 1.2
Construction		48.6	47.7	48.6	48.8	49.1	49.5	49.6	49.3	47.9	45.9	46.3	45.2	44.9	▲ 0.3
Real Estate		49.6	49.1	49.8	48.4	48.7	48.7	48.9	48.4	47.1	48.0	48.2	48.1	48.3	0.2
	Food,BEWerages,Livestock Feed	44.3	43.1	43.4	43.0	43.6	44.3	44.5	44.1	44.2	43.2	44.2	44.6	43.4	▲ 1.2
	Textile, Textile Products, Clothing	41.7	39.4	39.4	40.2	38.8	39.8	39.4	39.3	36.4	37.6	39.8	38.2	38.4	0.2
	Construction Materials,Furniture, Ceramics,Stone and Clay Products	40.9	40.3	41.2	41.2	40.9	40.2	38.9	40.7	38.5	38.0	38.6	37.9	38.3	0.4
	Pulp, Paper and Paper Products	40.0	39.0	39.7	42.0	40.8	41.1	42.4	41.7	40.3	36.8	37.6	40.2	38.6	▲ 1.6
	Publishing,Printing 3		33.5	33.7	34.9	34.8	34.8	34.6	34.7	34.0	34.6	35.3	34.1	34.0	▲ 0.1
Manufacturing	Chemical	44.4	43.9	44.7	45.3	44.4	44.4	44.9	45.4	44.3	42.8	42.7	43.0	42.7	▲ 0.3
	Steel,Nonferrous Metals,Mining	43.0	42.9	43.6	42.8	41.7	41.4	41.8	41.5	41.1	38.8	38.3	38.3	38.1	▲ 0.2
	General Machinery	51.6	51.3	51.9	50.3	47.3	47.9	47.3	48.6	46.0	45.5	45.7	45.3	44.0	▲ 1.3
	Electrical Machinery	47.3	47.4	47.4	44.8	45.2	45.2	45.2	44.9	43.0	42.8	42.8	42.3	40.4	▲ 1.9
	Transportation Machinery, Equipment	47.8	49.7	50.9	50.8	48.3	46.3	47.0	46.2	45.7	44.6	46.8	46.8	43.8	▲ 3.0
	Precision Machinery, Medical Instruments and Equipment	49.8	49.4	50.4	51.2	47.9	48.6	47.9	46.1	46.2	43.1	44.6	44.6	43.2	▲ 1.4
	Other	40.7	37.8	39.2	37.7	40.0	39.8	40.0	39.6	39.4	39.1	40.6	37.5	37.8	0.3
	Total	44.5	44.0	44.6	44.2	43.2	43.3	43.3	43.5	42.2	41.2	41.6	41.3	40.6	▲ 0.7
	Food,BEWerages	42.9	43.0	44.1	42.7	43.6	43.0	43.1	42.6	41.9	40.9	42.2	42.6	41.0	▲ 1.6
	Textile, Textile Products, Clothing	37.0	34.8	34.4	34.7	36.5	37.8	34.4	34.4	33.5	32.7	33.8	35.7	34.6	▲ 1.1
	Construction Materials, Furniture,Ceramics, Stone and Clay Products	38.7	38.1	39.8	39.7	39.5	41.3	41.5	41.8	40.5	39.1	39.4	39.2	38.4	▲ 0.8
Wholesale	Paper Products, Stationery, Books	38.1	34.5	37.1	36.5	36.8	36.8	37.4	37.2	38.1	37.4	38.0	36.6	36.7	0.1
	Chemical	43.0	43.1	43.9	42.6	42.3	42.5	42.8	43.2	40.8	39.2	40.2	39.5	39.4	▲ 0.1
	Recycled Resources	42.3	40.1	35.8	36.0	25.8	29.9	26.7	32.1	25.6	28.4	30.7	39.3	33.3	▲ 6.0
	Steel,Nonferrous Metals, Mining Products	40.3	39.3	40.4	40.3	38.5	38.8	39.4	37.7	36.4	35.8	36.1	35.2	34.6	▲ 0.6
	Machinery, Equipment	46.3	45.1	45.6	45.3	43.6	43.6	43.4	43.6	42.6	41.2	41.7	40.9	41.1	0.2
	Other	41.8	42.0	42.4	41.4	40.8	41.0	41.1	41.1	39.9	39.0	39.6	39.1	38.6	▲ 0.5
	Total	42.5	41.7	42.5	41.9	41.2	41.5	41.4	41.4	40.1	39.0	39.7	39.4	38.9	▲ 0.5

		May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Ratio to the PrFDious Month
	Food,BEWerages	41.6	42.7	45.0	44.0	44.5	44.6	41.4	43.2	39.9	40.4	43.4	42.1	38.9	▲ 3.2
	Textile, Textile Products, Clothing	40.2	37.0	38.6	38.7	36.9	40.1	36.8	32.1	34.8	31.6	33.3	35.1	32.9	▲ 2.2
	Drugs, Sundries	48.0	48.6	49.3	48.7	46.7	48.6	50.0	49.4	45.3	45.4	46.1	42.0	41.1	▲ 0.9
	Furniture 4		43.3	41.7	41.7	42.9	42.9	42.9	47.2	42.9	40.5	40.5	38.1	42.9	4.8
Retail	Electrical Household Appliances, Information Machinery and Equipment	41.5	40.6	38.9	38.3	44.6	39.6	38.7	40.7	43.8	39.2	40.4	40.7	35.8	▲ 4.9
	Motor Vehicles,Motor Vehicle Parts	39.9	37.2	38.3	38.7	38.6	39.9	38.2	37.9	40.0	37.9	38.6	40.4	37.2	▲ 3.2
	Special Merchandise			39.9	41.6	40.7	39.2	39.8	38.4	40.4	39.2	37.4	38.9	37.0	▲ 1.9
	Various Merchandise	49.7	48.1	48.8	49.0	47.3	46.5	47.3	43.8	45.0	43.7	44.8	43.3	43.7	0.4
	Other	36.1	43.3	35.7	44.4	44.4	36.1	38.9	43.3	44.4	41.7	44.4	41.7	42.9	1.2
	Total	42.1	40.7	41.9	42.4	42.2	41.6	40.9	40.2	41.0	39.5	40.1	40.2	38.0	▲ 2.2
Transportati	on,Warehousing	44.8	42.6	44.4	44.9	45.1	44.7	45.4	45.3	43.2	41.9	41.9	41.5	41.5	0.0
	Restaurants	49.6	48.3	47.4	51.3	45.3	49.2	46.2	44.4	47.1	42.1	43.6	43.1	42.3	▲ 0.8
	Postal, Telecommunications	53.7	50.0	47.0	53.0	59.3	57.6	53.0	51.5	58.3	54.2	50.0	59.1	52.4	▲ 6.7
	Electricity,Gas,Water,Heat	53.7	53.0	50.0	51.9	56.7	55.0	55.0	55.0	52.4	53.7	50.0	51.9	47.6	▲ 4.3
	Leasing,Rentals	47.9	47.9	48.7	49.9	48.0	48.0	49.2	49.7	48.1	46.2	47.1	45.9	46.7	0.8
	Lodging, Hotels	53.1	54.2	59.2	59.0	58.3	61.4	59.1	55.4	56.9	54.7	56.1	50.5	44.4	▲ 6.1
	Recreation	40.2	37.9	37.3	38.0	37.9	38.0	38.0	38.6	39.1	37.3	36.9	38.0	36.8	▲ 1.2
	Broadcasting	45.6	46.1	49.1	46.1	41.7	45.1	46.9	47.8	43.8	46.9	45.6	46.7	44.4	▲ 2.3
Service	Maintenance, Guarding, Testing	48.1	47.4	47.6	47.4	46.0	46.1	47.1	46.4	44.8	43.8	43.9	44.4	44.3	▲ 0.1
	Advertising	41.1	41.0	39.8	40.7	40.8	40.7	40.3	40.3	39.2	37.2	40.9	37.5	36.8	▲ 0.7
	Information	55.3	55.4	56.4	55.8	55.5	56.0	54.9	54.9	55.2	53.3	53.4	53.4	52.5	▲ 0.9
	Labor Dispatching	56.2	56.3	54.4	55.0	54.2	54.7	52.5	53.1	50.9	52.7	54.7	53.1	52.5	▲ 0.6
	Special Services	51.7	50.9	52.0	51.4	51.5	49.0	50.3	52.1	49.1	48.9	49.6	48.3	48.6	0.3
	Medical,Welfare,Public Health	46.3	43.3	45.3	43.6	42.8	42.3	44.1	42.2	39.9	39.2	42.5	41.5	41.4	▲ 0.1
	Education	41.1	44.4	40.6	44.1	42.1	45.0	50.8	46.7	46.3	46.8	47.4	43.0	42.2	▲ 0.8
	Other	46.8	49.5	50.9	48.5	49.3	49.2	50.1	49.0	45.9	47.5	47.1	46.7	45.7	▲ 1.0
	Total	49.9	49.7	50.4	50.1	49.6	49.6	49.6	49.6	48.4	47.4	48.2	47.5	46.8	▲ 0.7
Other		40.2	41.9	42.6	40.7	41.4	42.3	41.9	43.8	40.9	39.4	38.8	37.4	37.5	0.1

Economic Diffusion Index (Economic DI)2/2

	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May- 16	Ratio to the PrFDious Month
Hokkaido	41.6	40.9	41.8	41.8	41.8	39.3	39.8	39.4	39.0	37.9	38.6	39.2	39.6	0.4
Tohoku	44.9	45.0	46.3	46.1	45.9	45.8	45.9	45.6	43.9	43.2	43.1	43.3	41.7	▲ 1.6
kitakanto	45.2	44.8	45.0	45.2	42.6	43.3	43.8	43.0	41.1	40.3	41.5	40.8	41.2	0.4
minamikanto	46.5	46.1	46.8	46.1	45.4	45.8	45.8	45.8	44.6	43.2	43.9	43.6	43.0	▲ 0.6
Hokuriku	44.8	43.8	44.3	44.6	44.2	43.9	43.9	43.8	41.1	40.3	40.4	39.2	39.3	0.1
Tokai	46.5	45.3	46.9	46.5	46.0	46.0	45.9	46.4	45.4	43.6	43.6	43.3	42.7	▲ 0.6
Kinki	43.4	42.6	43.2	43.1	42.7	42.6	42.3	42.5	41.7	40.7	41.1	40.8	40.3	▲ 0.5
Chugoku	45.6	44.8	45.5	44.9	45.0	45.6	45.8	45.8	44.8	43.7	44.3	43.1	41.5	▲ 1.6
Shikoku	46.9	46.3	45.6	47.7	46.5	47.3	48.3	47.5	46.7	45.1	45.7	45.2	45.0	▲ 0.2
Kyushu	45.6	44.3	44.9	44.5	45.7	46.6	46.0	45.6	44.8	44.0	44.3	43.4	41.7	▲ 1.7

Appendix

1.Research Subjects(Companies Researched: 23,586; Valid Responses 10,588; Response Rate 44.9%)

Appendix

1.Region

Hokkaido	557	Tokai	1,179
Tohoku	682	Kinki	1,754
kitaKanto	724	Chugoku	593
minamikanto	3,430	Shikoku	323
Hokuriku	572	Kyushu	774
		Total	10,588

2.Industry (10 Industries 51 Lines of business)

Agriculture, For	estry,Fisheries	59
Finance		134
Construction		1,553
Real Estate		279
	Food,Beverages,Livestock Feed	341
	Textile, Textile Products, Clothing	119
Manufacturing 3,223	Construction Materials, Furniture, Ceramics, Stone and Clay Products	235
	Pulp, Paper and Paper Products	105
	Publishing, Printing	211
	Chemical	436
	Steel,Nonferrous Metals,Mining	540
	General Machinery	453
	Electrical Machinery	345
	Transportation Machinery, Equipment	107
	Precision Machinery, Medical Instruments and Equipment	83
	Others	97
	Food,Beverages	360
	Textile, Textile Products, Clothing	182
	Construction Materials, Furniture, Ceramics, Stone and Clay Products	372
Wholesale	Paper Products, Stationery, Books	110
3,959	Chemical	297
	Recycled Resources	43
	Steel,Nonferrous Metals,Mining Products	334
	Machinery,Equipment	957
	Others	355

Retail 480	Electrical Household Appliances, Information Machinery and Equipment	7			
400		41			
	Motor Vehicles,Motor Vehicle Parts	61			
	Special Merchandise	146			
	Various Merchandise	45			
	Others	461			
ansportation,Warehousing					
	Restaurants	41			
	Telecommunications	14			
	Electricity,Gas,Water,Heat	7			
	Leasing,Rentals	121			
	Lodging, Hotels	33			
	Recreation	68			
Service	Broadcasting	15			
1,384	Maintenance, Guarding, Testing	161			
	Advertising	124			
	Information	440			
	Labor Dispatching	54			
	Special Services	217			
	Medical,Welfare,Public Health	103			
	Education	15			
	Others	125			
ners		40			
	Total	10,588			

3.Size

Large Firms	2,235	21.1%
Small to Medium-sized Firms	8,353	78.9%
micro Firms	2,646	25.0%
Total	10,588	100.0%

2.Research Items

*Business Confidence (current, in 3 months, in 6 months, in 1 year) *Business Conditions (sales, purchasing and selling unit price, inventory, capacity utilization ratio, number of employees, overtime work hours)

3. Research Period and Methodology

Internet-based survey conducted May 19 - 312016

The explanation of the Economic Diffusion Index

Research Purpose/Researched Terms

TDB Economic Trend Research (started from May 2002) is a monthly statistical survey conducted for over 20,000 nationwide corporations on their general business activities including the current condition and future outlook of the industry business performance and operating climate. The primary purpose of such a survey is to assess the current state of Japan's economy.

Selection of the Subject Corporations

Companies of all sizes in all domestic industries are eligible to participate in the survey.

DI Formula

The DI (Diffusion Index) is calculated by attaching a number (in parenthesis in the diagram below) to each of seven possible responses. Then multiplying the percentage of each response by the appropriate number, and adding the results.

Very Bad	Bad	Moderately Bad	Neither Good or Bad	Moderately Good	Good	Very Good
(0)	(1/6)	(2/6)	(3/6)	(4/6)	(5/6)	(6/6)
0	16.7	33.3	DI=50 Dividing point	66.7	83.3	100

A DI over 50 is in the range of "Good." A score under 50 is "Bad." The number 50 is the dividing point ("Neither Good or Bad"). All numbers are rounded off to the hundredth. It should be noted that no weight is given to a company's responses based on its size. Calculations are made according to a "one company, one vote" rule.

For example, all corporations rated 'Very Good'. DI=6/6x100(%)=100All corporations rated 'Neither Good nor Bad'. DI=3/6x100(%)=50

Size Classification

Industry	Large Firms	Small to Medium-Sized Firms (Micro Firms included)	Micro Firms
Manufacturing and	Capital: More than 300 million yen	Capital: Below 300 million yen	
Other Industries*	and No. of Employee: Over 300	or No. of Employee: Below 300	No. of Employee: Below 20
Wholesale Trade	Capital: More than 100 million yen and No. of Employee: Over 100	Capital: Below 100 million yen or No. of Employee: Below 100	No. of Employee: Below 5
Retail Trade	Capital: More than 50 million yen and No. of Employee: Over 50	Capital: Below 50 million yen or No. of Employee: Below 50	No. of Employee: Below 5
Service**	Capital: More than 50 million yen and No. of Employee: Over 100	Capital: Below 50 million yen or No. of Employee: Below 100	No. of Employee: Below 5

Note1: Large Firms refer to companies that rank in the top 3% in terms of sales volume according to the type of business, among small to midium-sized corporations excluding micro firms, which are defined in Small and Medium Enterprises Basic Act.

Note2: Small to Medium-Sized Firms refer to companies that rank in the bottom 50% in terms of sales volume according to the type of business, among those not categorized as small to midium-sized corporations in Small to Medium-Sized Enterprises Basic Act.