

COVID-19 significantly holding down the domestic economy

~ Nationwide worsening with the movement of people and goods stagnating ~

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(Companies researched: 23,668; Valid responses: 10,704; Response rate: 45.2%; Survey start date: May 2002)

< Overview of February 2020: Recession phase >

The economic diffusion index (DI) in February 2020 was 38.7, down 3.2 points from the previous month, worsening for the fifth consecutive month, and below 40 for the first time in seven years. Amid a continuing recession phase, the domestic economic situation deteriorated markedly, with the additional impact of COVID-19.

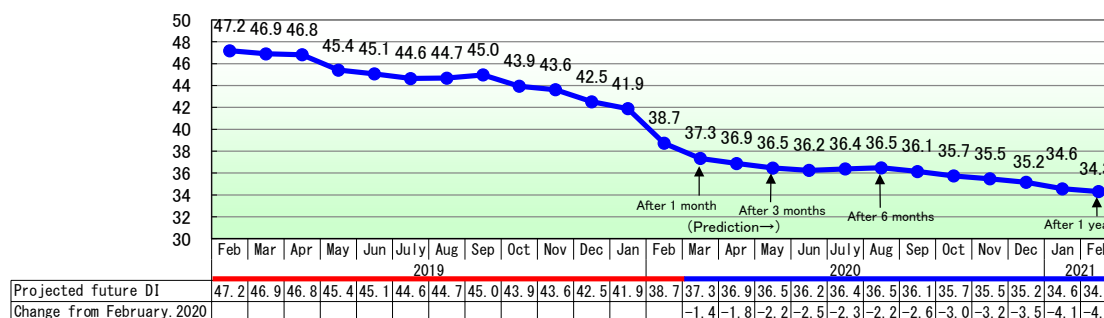
< Future outlook: Moderate recession continues >

Due to a number of risk factors, including COVID-19, a moderate recession is expected to continue in the domestic economy.

By industry : All ten industries deteriorated. The impact of COVID-19 rippled through various industries.

By size : All sizes deteriorated for the fifth month in a row, with a drop of over 2 points across the board due to COVID-19.

By region : Nationwide worsening with the movement of people and goods stagnating in 45 prefectures in all ten regions.



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

Economic Diffusion Index (Economic DI)1/2

	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Ratio to tHJ PrFDious Month
Total	47.2	46.9	46.8	45.4	45.1	44.6	44.7	45.0	43.9	43.6	42.5	41.9	38.7	▲ 3.2
Large Firms	49.8	49.8	49.7	48.8	48.7	47.7	47.9	48.0	47.1	47.0	45.7	45.3	42.0	▲ 3.3
Small to Medium-sized Firms	46.5	46.2	46.1	44.6	44.2	43.9	43.9	44.2	43.2	42.8	41.7	41.1	38.0	▲ 3.1
Micro Firms	46.5	46.3	46.2	44.5	44.1	43.8	44.2	45.1	43.9	43.5	42.1	41.4	38.8	▲ 2.6

	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Ratio to tHJ PrFDious Month	
Agriculture,Forestry,Fisheries	41.7	42.3	41.3	40.5	43.2	39.1	41.5	41.8	42.3	42.5	41.7	38.4	37.9	▲ 0.5	
Finance	45.2	45.9	45.1	44.7	44.8	45.1	44.7	45.8	45.4	46.8	44.5	44.8	42.2	▲ 2.6	
Construction	53.6	53.6	52.8	51.7	51.6	51.7	52.1	53.1	52.1	52.2	51.6	50.0	47.8	▲ 2.2	
Real Estate	47.5	47.4	48.7	47.6	48.3	47.4	46.5	48.0	45.9	46.0	44.2	45.9	42.0	▲ 3.9	
Manufacturing	Food,BEWerages,Livestock Feed	40.6	40.6	42.2	41.3	40.3	40.4	41.1	39.8	39.1	39.7	39.9	38.0	34.5	▲ 3.5
	Textile,Textile Products,Clothing	38.8	39.2	39.0	36.6	36.5	36.4	36.9	36.3	36.1	34.6	32.6	30.5	29.3	▲ 1.2
	Construction Materials,Furniture, Ceramics,Stone and Clay Products	45.5	44.1	45.7	45.4	43.5	43.8	45.2	44.1	44.8	43.8	40.2	39.9	37.2	▲ 2.7
	Pulp, Paper and Paper Products	45.2	44.1	45.7	43.0	41.7	39.6	42.3	42.8	40.2	41.7	40.6	37.3	32.0	▲ 5.3
	Publishing,Printing	33.2	34.4	35.6	34.3	33.9	32.5	33.1	34.1	33.0	32.7	32.9	30.9	29.7	▲ 1.2
	Chemical	46.3	45.4	46.2	43.9	42.5	41.9	41.8	41.0	41.2	40.6	40.1	39.0	35.8	▲ 3.2
	Steel,Nonferrous Metals,Mining	48.0	45.4	45.5	42.9	41.8	41.5	41.2	40.4	39.8	38.1	37.6	36.3	32.9	▲ 3.4
	General Machinery	51.4	48.9	49.0	46.0	45.1	44.0	41.5	41.1	40.8	39.9	38.4	37.3	35.4	▲ 1.9
	Electrical Machinery	47.6	46.0	44.7	43.1	43.0	42.8	43.9	41.2	42.2	40.5	40.4	41.0	38.5	▲ 2.5
	Transportation Machinery,Equipment	50.9	49.3	49.4	48.1	47.5	46.4	43.4	42.3	43.5	41.2	40.9	39.4	36.5	▲ 2.9
	Precision Machinery, Medical Instruments and Equipment	48.6	45.5	47.3	44.4	42.4	43.9	43.4	42.0	41.3	42.0	39.9	40.4	39.0	▲ 1.4
Other	42.1	45.3	40.2	40.2	40.2	38.0	40.7	41.8	37.4	38.4	38.0	36.9	36.8	▲ 0.1	
Total	45.8	44.5	44.8	42.9	42.0	41.5	41.4	40.6	40.3	39.6	38.6	37.6	34.9	▲ 2.7	
Wholesale	Food,BEWerages	40.5	40.5	41.1	40.8	40.4	38.8	39.0	38.8	38.1	37.9	37.4	37.3	33.1	▲ 4.2
	Textile,Textile Products,Clothing	32.0	33.6	33.2	33.2	31.6	29.8	30.8	31.6	28.8	28.8	26.5	26.2	22.0	▲ 4.2
	Construction Materials, Furniture,Ceramics, Stone and Clay Products	46.5	46.4	45.6	44.7	43.8	44.7	44.6	46.0	45.1	43.4	43.1	42.8	38.5	▲ 4.3
	Paper Products,Stationery,Books	36.0	39.0	39.2	39.0	36.4	37.0	37.1	38.0	37.7	36.3	35.0	34.9	33.5	▲ 1.4
	Chemical	44.3	44.3	44.2	41.8	41.2	42.7	42.0	42.7	41.0	40.4	39.0	38.7	35.5	▲ 3.2
	Recycled Resources	45.6	48.6	41.0	40.2	37.1	32.8	32.8	30.6	34.8	29.0	33.3	30.8	27.1	▲ 3.7
	Steel,Nonferrous Metals, Mining Products	45.0	43.7	43.4	40.8	40.4	39.0	38.8	37.6	38.0	37.0	34.8	33.9	31.9	▲ 2.0
	Machinery,Equipment	46.9	46.5	45.9	44.2	44.4	43.8	43.3	44.6	42.7	42.3	41.7	41.2	38.2	▲ 3.0
	Other	41.2	42.5	42.7	40.6	40.6	40.2	40.2	40.7	37.9	37.6	37.1	36.7	31.5	▲ 5.2
Total	43.6	43.7	43.3	41.9	41.4	41.0	40.8	41.4	39.9	39.3	38.4	37.9	34.4	▲ 3.5	

Economic Diffusion Index (Economic DI)2/2

		Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Ratio to tHJ PrFDious Month
Retail	Food,BEWerages	41.5	42.5	42.5	44.8	42.9	41.5	41.3	41.8	40.5	40.2	38.4	39.1	36.7	▲ 2.4
	Textile,Textile Products,Clothing	32.7	38.9	39.1	36.9	36.6	34.6	36.5	37.9	32.7	31.5	28.7	28.0	24.2	▲ 3.8
	Drugs,Sundries	39.7	39.7	40.9	41.0	38.5	40.0	37.7	40.6	35.8	37.3	40.2	37.7	34.7	▲ 3.0
	Furniture	33.3	33.3	38.9	39.6	48.5	40.9	45.0	53.0	33.3	26.9	31.8	31.9	29.2	▲ 2.7
	Electrical Household Appliances, Information Machinery and Equipment	40.7	38.9	41.7	39.1	43.5	34.3	38.9	45.0	34.3	32.3	38.1	38.2	36.0	▲ 2.2
	Motor Vehicles,Motor Vehicle Parts	44.3	45.2	43.3	41.5	42.5	39.2	41.1	41.4	34.5	31.4	31.9	36.7	32.9	▲ 3.8
	Special Merchandise	41.3	40.8	42.1	41.3	41.1	40.6	40.7	43.5	38.2	39.1	36.0	35.2	34.7	▲ 0.5
	Various Merchandise	41.9	43.5	43.3	43.8	44.7	39.3	38.9	43.1	36.5	36.5	36.2	37.4	34.4	▲ 3.0
	Other	31.3	33.3	43.8	39.6	46.3	41.7	41.7	40.5	48.1	40.7	47.9	48.1	43.9	▲ 4.2
Total	40.8	41.4	42.1	41.6	42.0	39.5	40.2	42.6	37.0	36.1	35.8	36.3	34.1	▲ 2.2	
Transportation,Warehousing		48.2	48.1	48.2	46.7	45.6	44.5	45.5	46.0	44.9	45.1	42.6	39.5	34.0	▲ 5.5
Service	Restaurants	41.0	37.8	42.9	40.6	42.9	39.6	38.1	43.6	37.3	39.4	40.7	41.0	32.3	▲ 8.7
	Postal,Telecommunications	57.6	62.1	57.6	56.7	60.0	58.3	60.6	56.9	56.1	59.5	52.8	64.6	57.1	▲ 7.5
	Electricity,Gas,Water,Heat	57.4	56.3	58.3	55.6	54.5	54.2	52.6	51.3	51.2	52.2	47.4	52.4	46.7	▲ 5.7
	Leasing,Rentals	52.0	52.7	54.1	50.9	52.5	51.8	51.7	53.5	54.5	53.1	50.4	50.8	46.9	▲ 3.9
	Lodging, Hotels	44.2	42.3	41.0	50.0	44.9	40.3	39.9	47.2	41.3	42.0	39.1	38.5	23.2	▲ 15.3
	Recreation	37.8	41.0	38.8	42.0	41.5	41.8	40.9	38.7	38.2	40.7	37.5	39.4	35.7	▲ 3.7
	Broadcasting	44.4	43.3	41.7	44.1	43.3	41.1	45.2	43.1	42.9	41.7	38.2	38.1	38.9	0.8
	Maintenance,Guarding,Testing	51.0	50.0	48.1	48.2	48.8	49.3	49.8	48.6	49.1	47.3	46.6	46.4	42.6	▲ 3.8
	Advertising	40.1	40.3	40.7	40.5	40.7	40.4	38.9	40.3	40.4	39.6	37.8	40.0	34.1	▲ 5.9
	Information	59.0	60.3	59.6	58.0	57.8	58.5	58.7	57.7	57.4	57.8	56.2	56.5	54.2	▲ 2.3
	Labor Dispatching	54.6	53.8	53.5	53.9	52.8	52.7	51.0	53.2	53.3	50.9	46.2	49.2	42.5	▲ 6.7
	Special Services	52.8	52.5	51.5	49.5	50.1	49.9	51.1	51.8	51.5	50.8	49.9	50.3	45.8	▲ 4.5
	Medical,Welfare,Public Health	46.5	47.1	46.9	47.8	47.0	48.7	46.5	47.3	46.5	48.5	47.7	47.8	43.2	▲ 4.6
	Education	44.7	45.8	44.2	43.6	44.0	41.1	39.5	40.0	42.4	37.8	43.1	41.4	40.0	▲ 1.4
Other	49.7	49.0	50.2	47.9	48.5	47.9	48.3	48.4	47.9	47.9	45.6	46.2	39.8	▲ 6.4	
Total	51.7	51.9	51.6	50.6	50.8	50.8	50.7	51.0	50.6	50.4	48.8	49.5	45.1	▲ 4.4	
Other		48.3	45.2	44.9	43.2	42.6	44.1	43.2	42.1	43.1	40.4	41.7	42.7	39.2	▲ 3.5

		Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Ratio to tHJ PrFDious Month
Hokkaido		44.4	44.6	45.5	45.3	45.1	45.7	46.4	46.6	45.7	45.0	43.8	42.4	39.0	▲ 3.4
Tohoku		43.1	42.8	43.1	42.2	41.9	41.7	41.7	43.2	41.9	42.2	40.9	38.8	36.7	▲ 2.1
kitakanto		44.8	44.7	44.3	43.1	42.5	42.5	42.6	42.2	40.9	40.0	40.0	39.4	36.9	▲ 2.5
minamikanto		48.1	47.8	47.7	46.0	46.0	45.5	45.7	46.1	45.5	45.5	44.3	44.5	41.1	▲ 3.4
Hokuriku		46.3	45.3	45.3	44.6	44.2	43.5	44.1	43.5	42.1	40.4	39.5	37.6	35.6	▲ 2.0
Tokai		48.6	48.4	48.0	46.8	45.8	44.7	45.0	45.2	43.6	42.7	41.8	40.6	37.3	▲ 3.3
Kinki		47.6	47.3	46.9	45.0	44.6	44.0	43.8	43.9	42.2	41.9	40.5	39.8	36.3	▲ 3.5
Chugoku		47.2	46.7	47.2	45.6	45.5	45.0	44.8	45.0	44.0	43.6	42.6	41.2	39.0	▲ 2.2
Shikoku		47.6	46.8	46.9	46.7	44.8	43.1	43.8	43.9	44.4	44.0	43.8	42.7	39.5	▲ 3.2
Kyushu		48.5	48.6	48.3	46.9	47.0	47.6	46.3	47.1	46.5	46.8	45.1	45.2	41.5	▲ 3.7

Appendix

1. Research Subjects (Companies researched: 23,668; Valid responses: 10,704; Response rate: 45.2%)

Appendix

1. Region

Hokkaido	531	Tokai	1,212
Tohoku	717	Kinki	1,800
kitaKanto	779	Chugoku	596
minamikanto	3,399	Shikoku	315
Hokuriku	594	Kyushu	761
		Total	10,704

2. Industry (10 Industries 51 Lines of business)

Agriculture, Forestry, Fisheries		58
Finance		118
Construction		1,709
Real Estate		328
Manufacturing (2,928)	Food, Beverages, Livestock Feed	338
	Textile, Textile Products, Clothing	112
	Construction Materials, Furniture, Ceramics, Stone and Clay Products	230
	Pulp, Paper and Paper Products	101
	Publishing, Printing	166
	Chemical	405
	Steel, Nonferrous Metals, Mining	514
	General Machinery	475
	Electrical Machinery	331
	Transportation Machinery, Equipment	105
	Precision Machinery, Medical Instruments and Equipment	70
Others	81	
Wholesale (2,903)	Food, Beverages	370
	Textile, Textile Products, Clothing	196
	Construction Materials, Furniture, Ceramics, Stone and Clay Products	335
	Paper Products, Stationery, Books	100
	Chemical	283
	Recycled Resources	32
	Steel, Nonferrous Metals, Mining Products	316
	Machinery, Equipment	916
	Others	355

Retail (453)	Food, Beverages	64
	Textile, Textile Products, Clothing	31
	Drugs, Sundries	25
	Furniture	12
	Electrical Household Appliances, Information Machinery and Equipment	38
	Motor Vehicles, Motor Vehicle Parts	82
	Special Merchandise	142
	Various Merchandise	48
	Others	11
Transportation, Warehousing		456
Service (1,714)	Restaurants	47
	Telecommunications	7
	Electricity, Gas, Water, Heat	15
	Leasing, Rentals	117
	Lodging, Hotels	28
	Recreation	57
	Broadcasting	15
	Maintenance, Guarding, Testing	172
	Advertising	104
	Information	492
	Labor Dispatching	62
	Special Services	261
	Medical, Welfare, Public Health	120
Education	30	
Others	187	
Others		37
Total		10,704

3. Size

Large Firms	2,056	19.2%
Small to Medium-sized Firms	8,648	80.8%
micro Firms	2,962	27.7%
Total	10,704	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 February 14 – 29 2020

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 Calculation

The DI (Diffusion Index) is calculated by multiplying the number of responses for each assessment category by the number given in parentheses in the table below, to a seven-level assessment rated by companies.

Selection category	Extremely good	good	fairly good	neither good nor bad	fairly bad	bad	very bad
points	6	5	4	3	2	1	0
number of responses for each category	N ₆	N ₅	N ₄	N ₃	N ₂	N ₁	N ₀

Economic DI

$$= \frac{\text{Total of (Points for each category} \times \text{Number of responses for each category)}}{\text{Number of valid responses} \times 6} \times 100$$

$$\equiv \frac{\sum_{i=0}^6 i \times N_i}{N} \times \frac{1}{6} \times 100$$

An economic DI of 50 is **the point separating good and bad**, so a DI over 50 means “good,” and below 50 means “bad.” (The numbers are rounded off to one decimal place.) No weight is given according to a company's size, and calculations are made on the basis of “one company, one vote.”

Size Classification

Industry	Large Firms	Small to Medium-Sized Firms (Micro Firms included)	Micro Firms
Manufacturing and Other Industries*	Capital: More than 300 million yen and No. of Employee: Over 300	Capital: Below 300 million yen 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 medium-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 medium-sized corporations in Small to Medium-Sized Enterprises Basic Act.