

Table1 Industrial Production Indexes and Comparison - By Major Divisions

2016 =100

Period	Industry	Seasonally Adjusted	Mining & Quarrying	Manu- facturing	By Usage				Electricity & Gas Supply	Water Supply	Movement of Manu- facturing Production Index
					Final Demand Goods	Investment Goods		Producer Goods			
						Investment Goods	Consumer Goods				
2018 Weights (%)	1000.00	1000.00	2.73	925.45	188.90	75.77	113.13	736.55	65.82	6.01	-
2013	93.36	93.36	117.07	92.93	96.10	94.94	96.82	92.10	97.61	101.29	-
2014	99.34	99.34	118.44	99.28	100.32	101.53	99.52	98.99	99.08	101.82	-
2015	98.07	98.07	110.70	98.13	100.04	102.81	98.22	97.61	96.68	99.50	-
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
2017	105.00	105.00	98.00	105.27	104.10	105.15	103.41	105.60	102.22	101.30	-
2018	108.83	108.83	94.42	109.41	108.21	113.82	104.64	109.74	102.62	101.39	-
Nov.	111.84	109.38	97.07	113.12	115.00	121.66	110.76	112.62	97.44	95.73	49.01
Dec.	110.49	109.13	106.03	111.68	116.51	128.98	108.58	110.38	96.02	103.43	48.15
2019											
Jan.	107.39	106.40	98.23	108.35	116.96	123.65	112.71	106.12	95.82	102.10	37.16
Feb.	86.01	106.01	71.10	86.38	80.89	89.40	75.56	87.82	81.51	91.53	59.33
Mar.	104.39	101.40	91.17	105.08	108.14	117.91	102.02	104.29	96.47	100.98	49.28
Apr.	104.19	107.26	88.61	104.69	111.14	122.05	104.31	103.03	98.82	100.30	52.96
May	108.54	106.99	95.69	108.70	115.24	124.84	109.20	107.02	107.63	103.64	49.90
June	106.91	107.71	85.81	106.63	109.40	120.65	102.35	105.92	112.25	102.75	51.84
July	113.38	110.77	91.34	113.02	118.63	126.14	113.87	111.58	120.13	104.25	49.96
Aug.	115.37	110.94	83.53	115.17	115.10	123.66	109.70	115.21	120.73	104.13	48.86
Sep.	110.79	108.49	85.31	111.25	106.44	112.67	102.49	112.51	106.99	101.71	50.71
Oct.(r)	113.86	108.67	96.72	114.60	118.07	121.40	115.90	113.71	106.00	104.44	48.85
Nov.(p)	114.24	111.56	97.35	115.71	118.53	123.66	115.27	114.98	97.41	102.46	48.96
Compared with Last Month (%)	0.33	2.66	0.65	0.97	0.39	1.86	-0.54	1.12	-8.10	-1.90	(0.11)
Compared with the same Month of last year (%)	2.15	1.99	0.29	2.29	3.07	1.64	4.07	2.10	-0.03	7.03	--
Jan.-Current Month Compared with the Same Period of Last Year (%)	-0.87	-0.88	-4.11	-0.97	3.09	5.59	1.42	-2.01	0.74	0.44	--

Table1 Industrial Production Indexes and Comparison - By Major Divisions

Annual Change Rate (%)

Period	Industry	Seasonally Adjusted (Monthly Change)	Mining & Quarrying	Manu- facturing	By Usage				Electricity & Gas Supply	Water Supply	Movement of Manu- facturing Production Index
					Final Demand Goods	Investment Goods		Producer Goods			
						Investment Goods	Consumer Goods				
2013	3.21	3.21	-8.27	3.40	0.02	-0.01	0.04	4.43	1.42	0.71	--
2014	6.41	6.41	1.17	6.83	4.39	6.94	2.79	7.48	1.51	0.52	--
2015	-1.28	-1.28	-6.53	-1.16	-0.28	1.26	-1.31	-1.39	-2.42	-2.28	--
2016	1.97	1.97	-9.67	1.91	-0.04	-2.73	1.81	2.45	3.43	0.50	--
2017	5.00	5.00	-2.00	5.27	4.10	5.15	3.41	5.60	2.22	1.30	--
2018	3.65	3.65	-3.65	3.93	3.95	8.25	1.19	3.92	0.39	0.09	--
Nov.	2.59	-3.02	1.39	2.74	5.62	8.81	3.57	1.97	0.37	-3.22	(-0.42)
Dec.	-1.06	-0.23	4.22	-1.22	6.66	10.42	4.13	-3.27	0.88	-1.79	(-0.86)
2019											
Jan.	-1.09	-2.50	1.46	-1.08	9.06	12.76	6.65	-3.66	-1.29	-1.73	(-10.99)
Feb.	-1.96	-0.37	2.94	-1.86	4.62	11.50	0.08	-3.41	-3.30	-1.28	(22.17)
Mar.	-9.38	-4.35	-1.38	-10.01	-5.21	-2.05	-7.31	-11.25	-0.43	-2.60	(-10.05)
Apr.	1.41	5.78	-0.45	1.32	11.60	15.01	9.31	-1.26	3.00	-0.17	(3.68)
May	-2.58	-0.25	-9.84	-2.48	-0.16	2.00	-1.60	-3.08	-3.44	-2.30	(-3.06)
June	-0.49	0.67	-7.92	-0.75	-0.89	4.02	-4.17	-0.68	3.30	0.85	(1.94)
July	3.77	2.84	-4.20	3.82	7.92	11.51	5.56	2.75	3.82	0.27	(-1.88)
Aug.	2.35	0.15	-7.70	2.24	1.99	6.47	-0.94	2.31	4.67	-0.26	(-1.10)
Sep.	-0.68	-2.21	-10.52	-0.52	1.87	2.69	1.32	-1.15	-2.51	1.11	(1.85)
Oct.(r)	-2.64	0.17	-5.28	-3.05	1.98	-0.10	3.37	-4.34	2.99	4.57	(-1.86)
Nov.(p)	2.15	2.66	0.29	2.29	3.07	1.64	4.07	2.10	-0.03	7.03	(0.11)

Note: 1. Movement of manufacturing production index = (The ratio of firms that expect increasing next month + The ratio of firms that expect unbiased next month × 0.5) × 100

2. () is the monthly percentage point change of movement of manufacturing production index.

Table2 Industrial Production Indexes and Comparison - By Sectors(1/3)

2016 =100

Period	C Manu- facturing	08 Food & Prepared Animal Feeds	09 Beverages	10 Tobacco Products	11 Textiles	12 Wearing Apparel & Clothing Accessories	13 Leather, Fur & Related Products	14 Wood & Bamboo Products	15 Pulp, Paper & Paper Products	16 Printing & Reproduction of Recorded Media
2018 Weights (%)	925.45	23.98	8.97	15.91	14.45	1.06	0.49	0.82	8.84	4.80
2013	92.93	95.20	101.49	82.11	101.88	115.84	160.19	96.30	98.32	106.00
2014	99.28	95.47	102.60	81.37	103.59	114.11	159.60	103.61	100.83	104.16
2015	98.13	96.36	101.57	81.04	104.74	105.97	122.11	100.88	98.91	101.74
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	105.27	100.57	102.81	119.06	97.84	89.27	103.83	103.34	100.22	96.97
2018	109.41	102.15	99.27	116.03	94.79	81.29	97.44	107.43	101.32	95.28
Nov.	113.12	103.19	102.97	134.01	93.86	77.76	86.56	109.77	102.98	110.25
Dec.	111.68	109.11	87.72	133.79	89.26	84.85	99.05	105.29	101.72	105.44
2019										
Jan.	108.35	121.92	103.16	111.31	100.61	78.03	112.72	111.52	110.45	90.53
Feb.	86.38	79.64	64.74	86.98	72.29	57.72	70.49	70.59	78.62	58.65
Mar.	105.08	102.69	84.23	111.88	96.15	67.99	105.71	92.00	102.12	84.69
Apr.	104.69	102.08	91.10	113.65	93.38	78.74	115.30	98.04	96.15	85.92
May	108.70	109.24	103.22	101.61	95.72	97.35	108.60	94.46	104.29	82.80
June	106.63	100.86	92.05	108.23	82.87	87.84	98.37	94.25	94.67	77.51
July	113.02	114.89	109.88	121.27	90.81	86.47	95.81	101.56	104.33	85.57
Aug.	115.17	110.98	102.78	110.56	92.94	79.64	94.29	102.35	101.36	83.94
Sep.	111.25	99.78	96.56	91.74	87.65	68.52	86.58	103.72	95.92	79.66
Oct.(r)	114.60	108.36	93.86	123.30	92.37	76.47	100.90	107.16	104.66	93.53
Nov.(p)	115.71	106.20	86.66	140.05	87.19	77.88	98.13	104.94	102.70	98.61
Compared with Last Month (%)	0.97	-1.99	-7.67	13.58	-5.61	1.84	-2.75	-2.07	-1.87	5.43
Compared with the same Month of last year (%)	2.29	2.92	-15.84	4.51	-7.11	0.15	13.37	-4.40	-0.27	-10.56
Jan.-Current Month Compared with the Same Period of Last Year (%)	-0.97	3.58	-6.82	-3.02	-5.36	-3.82	1.56	-8.72	-1.69	-11.22

Table2 Industrial Production Indexes and Comparison - By Sectors(1/3)

Annual Change Rate (%)

Period	C Manu- facturing	08 Food & Prepared Animal Feeds	09 Beverages	10 Tobacco Products	11 Textiles	12 Wearing Apparel & Clothing Accessories	13 Leather, Fur & Related Products	14 Wood & Bamboo Products	15 Pulp, Paper & Paper Products	16 Printing & Reproduction of Recorded Media
2013	3.40	1.33	-5.49	-0.63	3.39	0.05	-2.79	1.67	0.75	-2.02
2014	6.83	0.28	1.09	-0.90	1.68	-1.49	-0.37	7.59	2.55	-1.74
2015	-1.16	0.93	-1.00	-0.41	1.11	-7.13	-23.49	-2.63	-1.90	-2.32
2016	1.91	3.78	-1.55	23.40	-4.53	-5.63	-18.11	-0.87	1.10	-1.71
2017	5.27	0.57	2.81	19.06	-2.16	-10.73	3.83	3.34	0.22	-3.03
2018	3.93	1.57	-3.44	-2.54	-3.12	-8.94	-6.15	3.96	1.10	-1.74
Nov.	2.74	2.07	9.54	23.07	-3.86	-16.69	-10.61	-3.17	-0.91	0.92
Dec.	-1.22	7.33	-10.59	26.83	-8.39	-9.38	10.17	-2.37	-1.47	3.04
2019										
Jan.	-1.08	8.74	7.28	21.57	-1.70	-14.43	6.61	3.51	1.39	-6.50
Feb.	-1.86	-7.11	2.63	36.83	-4.05	-14.11	3.66	-7.16	-1.65	-12.54
Mar.	-10.01	0.70	-23.17	-8.54	-9.17	-12.86	-6.04	-17.95	-8.84	-13.15
Apr.	1.32	12.16	13.06	6.66	-3.13	-1.33	11.01	-5.89	-0.95	-5.20
May	-2.48	6.23	-8.20	-21.63	-4.94	10.68	1.59	-17.83	1.01	-13.65
June	-0.75	0.02	-16.35	-17.53	-10.19	10.46	3.17	-14.94	-5.70	-12.56
July	3.82	5.95	2.90	2.27	-3.75	8.21	-3.08	-10.61	1.08	-11.62
Aug.	2.24	1.23	-11.63	-10.40	-7.28	-15.93	-6.29	-12.53	-3.63	-11.29
Sep.	-0.52	2.83	-2.24	-18.90	-2.74	-0.06	-7.42	-0.28	0.09	-10.56
Oct.(r)	-3.05	4.30	-12.11	-1.00	-4.47	-11.08	2.64	-5.65	-0.61	-15.40
Nov.(p)	2.29	2.92	-15.84	4.51	-7.11	0.15	13.37	-4.40	-0.27	-10.56

Table2 Industrial Production Indexes and Comparison - By Sectors(2/3)

2016 =100

Period	17 Petroleum & Coal Products	18 Chemical, Fertilizers, Nitrogen Compounds, Plastic & Rubber, Man-made Fibres	19 Other Chemical Products	20 Pharmaceuticals & Medicinal Chemical Products	21 Rubber Products	22 Plastic Products	23 Other Non-metallic Mineral Products	24 Basic Metal	25 Fabricated Metal Products	26 Electronic Parts & Components
2018 Weights (%)	53.45	77.14	15.45	7.32	7.13	15.15	10.20	56.01	40.98	405.36
2013	98.73	100.13	94.89	96.14	102.29	100.14	109.97	99.19	101.49	86.89
2014	98.77	100.41	99.65	92.03	106.97	105.15	112.12	102.75	105.99	96.75
2015	98.99	99.80	101.52	95.51	106.41	101.96	108.57	96.01	101.40	95.55
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	95.20	102.67	107.98	99.12	102.79	101.95	97.49	102.73	100.03	108.20
2018	97.95	104.56	110.94	102.40	99.38	104.01	100.52	105.08	100.43	113.97
Nov.	101.31	104.30	113.32	102.88	98.32	104.42	105.49	103.57	101.50	118.75
Dec.	92.86	102.32	108.58	110.13	95.25	102.02	106.16	103.76	99.50	117.66
2019										
Jan.	98.20	105.45	119.24	117.51	108.43	110.93	107.74	102.85	105.28	105.11
Feb.	98.30	91.40	81.45	81.22	76.72	73.66	73.61	90.06	74.55	88.41
Mar.	88.38	104.62	109.91	98.00	106.64	101.94	101.91	106.29	98.88	105.91
Apr.	92.85	100.92	112.07	99.94	103.49	100.51	95.80	97.75	97.69	104.02
May	112.27	103.20	113.21	122.16	110.78	107.05	97.72	100.53	99.84	106.85
June	105.33	98.47	103.98	100.96	101.93	97.66	93.02	93.92	91.75	111.48
July	109.70	104.04	114.56	115.24	107.19	108.28	96.14	98.64	97.91	115.49
Aug.	100.17	102.37	110.71	113.96	102.69	108.01	92.89	98.16	94.98	125.85
Sep.	90.60	90.55	108.65	101.38	96.44	97.90	96.13	92.04	87.75	127.44
Oct.(r)	82.29	100.58	117.55	119.00	103.07	106.81	100.95	93.02	92.53	126.04
Nov.(p)	90.73	96.86	108.80	118.82	102.91	99.55	103.39	91.86	88.37	129.65
Compared with Last Month (%)	10.26	-3.70	-7.44	-0.15	-0.16	-6.80	2.42	-1.25	-4.50	2.86
Compared with the same Month of last year (%)	-10.44	-7.13	-3.99	15.49	4.67	-4.66	-1.99	-11.31	-12.94	9.18
Jan.-Current Month Compared with the Same Period of Last Year (%)	-1.26	-4.69	-1.85	6.22	2.09	-2.95	-3.71	-7.96	-6.88	-0.29

Table2 Industrial Production Indexes and Comparison - By Sectors(2/3)

Annual Change Rate (%)

Period	17 Petroleum & Coal Products	18 Chemical, Fertilizers, Nitrogen Compounds, Plastic & Rubber, Man-made Fibres	19 Other Chemical Products	20 Pharmaceuticals & Medicinal Chemical Products	21 Rubber Products	22 Plastic Products	23 Other Non-metallic Mineral Products	24 Basic Metal	25 Fabricated Metal Products	26 Electronic Parts & Components
2013	1.38	1.24	8.24	3.08	-1.92	0.17	5.19	4.02	2.01	7.19
2014	0.04	0.28	5.02	-4.28	4.58	5.00	1.96	3.59	4.43	11.35
2015	0.22	-0.61	1.88	3.78	-0.52	-3.03	-3.17	-6.56	-4.33	-1.24
2016	1.02	0.20	-1.50	4.70	-6.02	-1.92	-7.89	4.16	-1.38	4.66
2017	-4.80	2.67	7.98	-0.88	2.79	1.95	-2.51	2.73	0.03	8.20
2018	2.89	1.84	2.74	3.31	-3.32	2.02	3.11	2.29	0.40	5.33
Nov.	23.11	-0.46	-2.07	3.75	-6.31	1.75	8.51	0.83	-1.85	2.69
Dec.	-3.15	-2.90	-1.99	5.11	-9.04	-0.49	-0.82	-2.26	-3.27	-2.51
2019										
Jan.	-7.47	-2.78	-0.23	9.83	2.83	1.18	0.64	-2.80	-1.70	-5.02
Feb.	4.86	-5.11	-2.41	8.22	1.97	-6.98	-4.53	3.53	-2.69	-6.13
Mar.	-4.78	-4.74	-9.07	-13.26	-7.66	-9.39	0.46	-4.28	-10.45	-14.62
Apr.	9.03	-3.78	4.17	10.85	9.21	0.21	-3.92	-5.63	1.08	-3.43
May	13.62	-3.55	-4.04	15.43	1.28	-2.08	-7.61	-9.70	-6.62	-4.09
June	8.96	-3.65	-6.04	0.88	-0.93	-7.75	-5.29	-9.54	-8.34	2.58
July	3.44	-1.14	2.74	6.70	6.74	-0.72	-4.57	-8.59	-5.00	6.29
Aug.	-5.42	-5.00	-3.64	7.07	0.18	-1.96	-7.95	-10.86	-9.59	9.86
Sep.	-9.00	-10.23	4.44	0.40	3.81	-0.85	-0.05	-12.12	-7.43	3.43
Oct.(r)	-14.57	-4.74	-1.16	8.93	3.11	-0.10	-6.05	-14.12	-10.55	-1.58
Nov.(p)	-10.44	-7.13	-3.99	15.49	4.67	-4.66	-1.99	-11.31	-12.94	9.18

Table2 Industrial Production Indexes and Comparison - By Sectors(3/3)

2016 =100

Period			27	28	29	30	31	32	33	34
	2611 Integrated Circuits	2641 Liquid Crystal Panel & Components	Computers, Electronic & Optical Products	Electrical Equipment	Machinery & Equipment	Motor Vehicles & Parts	Other Transport Equipment & Parts	Furniture	Other Manufacturing	Repair & Installation of Industrial Mach. & Eq.
2018 Weights (%)	234.00	56.89	44.52	16.61	41.02	20.38	13.33	2.01	12.98	7.10
2013	68.83	126.71	92.12	91.65	99.03	95.01	98.26	93.79	82.87	72.93
2014	84.00	124.79	101.83	96.33	107.52	107.16	105.76	98.34	91.06	78.43
2015	88.09	110.72	104.13	98.19	106.11	103.91	105.76	100.28	94.56	86.83
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	109.36	117.69	104.49	97.94	110.86	100.38	105.72	99.96	112.04	116.28
2018	119.00	113.52	116.50	100.47	119.98	94.60	107.30	100.24	126.64	129.13
Nov.	127.00	115.22	130.44	103.90	122.09	93.12	110.69	108.73	140.25	121.61
Dec.	129.68	108.94	131.54	104.49	121.27	87.46	105.11	110.46	137.92	144.37
2019										
Jan.	106.97	104.33	136.09	103.84	113.26	99.78	118.37	110.90	146.21	128.73
Feb.	92.15	87.84	98.86	72.39	80.16	64.76	78.48	66.19	91.63	96.51
Mar.	108.50	105.46	130.97	96.03	105.50	93.18	108.46	93.40	127.50	127.70
Apr.	106.51	100.47	145.27	97.63	108.02	98.97	111.23	94.31	132.77	138.68
May	108.98	100.13	147.37	99.62	110.28	103.51	121.36	99.45	137.87	117.81
June	119.29	100.77	139.63	91.72	104.73	95.81	114.71	92.35	123.09	134.73
July	119.42	105.28	158.77	105.64	106.19	104.78	125.99	102.30	129.98	135.31
Aug.	138.81	106.16	166.53	95.20	102.33	78.20	120.80	104.27	136.08	125.99
Sep.	140.67	109.14	152.77	91.06	95.29	84.49	120.47	100.02	127.10	117.71
Oct.(r)	135.88	106.38	165.19	102.75	101.85	98.02	126.55	111.51	140.58	127.26
Nov.(p)	144.92	103.92	168.37	100.33	96.51	98.28	117.57	105.14	129.74	146.42
Compared with Last Month (%)	6.65	-2.31	1.93	-2.36	-5.24	0.27	-7.10	-5.71	-7.71	15.06
Compared with the same Month of last year (%)	14.11	-9.81	29.08	-3.44	-20.95	5.54	6.22	-3.30	-7.49	20.40
Jan.-Current Month Compared with the Same Period of Last Year (%)	1.83	-9.84	27.12	-4.09	-14.74	-2.67	6.89	-1.15	2.95	-0.59

Table2 Industrial Production Indexes and Comparison - By Sectors(3/3)

Annual Change Rate (%)

Period			27	28	29	30	31	32	33	34
	2611 Integrated Circuits	2641 Liquid Crystal Panel & Components	Computers, Electronic & Optical Products	Electrical Equipment	Machinery & Equipment	Motor Vehicles & Parts	Other Transport Equipment & Parts	Furniture	Other Manufacturing	Repair & Installation of Industrial Mach. & Eq.
2013	18.51	-2.23	0.82	-0.81	-4.17	-3.68	2.66	-2.44	5.69	-4.55
2014	22.04	-1.52	10.54	5.11	8.57	12.79	7.63	4.85	9.88	7.54
2015	4.87	-11.27	2.26	1.93	-1.31	-3.03	0.00	1.97	3.84	10.71
2016	13.52	-9.68	-3.97	1.84	-5.76	-3.76	-5.45	-0.28	5.75	15.17
2017	9.36	17.69	4.49	-2.06	10.86	0.38	5.72	-0.04	12.04	16.28
2018	8.81	-3.54	11.49	2.58	8.23	-5.76	1.49	0.28	13.03	11.05
Nov.	5.46	-1.64	13.97	-1.21	-0.43	-15.47	-0.82	-2.62	14.79	2.37
Dec.	-0.17	-7.09	17.83	1.54	-3.48	-15.76	-4.55	-0.91	15.64	12.79
2019										
Jan.	-3.92	-10.97	32.16	-1.97	-2.13	-8.21	0.00	4.35	18.61	-10.78
Feb.	-5.78	-7.85	27.12	3.80	-9.12	-2.66	-1.75	-6.15	-0.43	-1.70
Mar.	-21.25	-5.62	17.42	-14.42	-17.67	-14.10	-5.95	-5.64	-3.71	-11.35
Apr.	-4.36	-6.92	38.63	0.11	-5.50	8.67	16.14	6.24	15.17	25.95
May	-4.17	-9.52	22.84	-6.49	-16.21	-4.87	8.73	-4.03	2.51	-12.49
June	9.71	-12.31	22.83	-6.47	-19.64	-2.99	-0.99	-8.07	5.03	-6.16
July	14.72	-13.73	35.91	2.83	-14.30	0.62	13.57	5.40	5.55	5.90
Aug.	21.52	-12.79	30.69	-10.37	-18.42	-9.33	8.84	-5.29	-0.79	-0.87
Sep.	5.59	-7.84	24.90	-2.63	-16.63	-1.42	13.75	-0.84	1.54	-7.21
Oct.(r)	-2.29	-9.89	19.05	-1.98	-18.11	1.92	18.11	4.24	-0.53	0.20
Nov.(p)	14.11	-9.81	29.08	-3.44	-20.95	5.54	6.22	-3.30	-7.49	20.40