

Industrial Production Status

Indicators	2018	2019	2020				2021								
% YoY	Year	Year	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.
MPI	-3.4	-9.3	-2.6	-1.3	-0.6	-2.8	-2.0	-1.4	5.9	18.0	25.7	18.3	3.9	-4.7	-1.3

The industrial economy in September 2021, when considered from the Manufacturing Production Index (MPI), shrinks 1.3 percent from the same period last year. Partly, it results from the decrease in automobile production which shortages of chips and some auto parts affected by COVID-19 in the country and overseas. However, the situation tends to be better.

When considering MPI data for the past three months compared to the previous year (% YoY), production in June, July and August 2021, increased by 18.3, 3.9 and 4.7 percent, respectively.

Indicators	2020				2021								
% MoM	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.
MPI	3.8	0.3	1.6	-0.7	6.9	-3.1	10.2	-16.5	9.7	-2.1	-8.1	-3.5	7.5

In the past three months (June, July, and August 2021), the MPI change rates (%MoM) were as follows: a decrease of 2.1, 8.1 and 3.5 percent in June, July and August respectively.

Key industries that contributed to the MPI shrank in September 2021 compared to the same month last year were:

- **Hard Disk Drive:** The MPI decreased 18.9 percent from the spread of COVID-19 in factories including the quarantine of high-risk contacts and the shortage of auto parts that result in inefficient production.
- **Automobiles and parts:** The MPI decreased 5.43 percent from shortages of chips and effects of COVID-19. As a result, some automobile assembly plants and auto parts factories have to close temporarily or stop their production for some time.
- **Petroleum refining:** The MPI decreased 5.56 percent from the closure of some refineries including the slowdown in domestic demand caused by the COVID-19 situation.

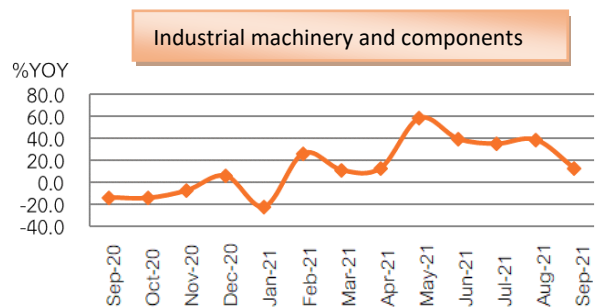
Key industries that contributed to the MPI expand in September 2021 compared to the same month last year were:

- **Electronic components:** The MPI increased by 13.12 percent in line with the expanding demand of the global market in the last years. As a result, the new technology product has more composed of electronic components.
- **Iron and steel:** The MPI increased by 13.61 percent according to the growing use demand in the industrial section and a low base after the lockdown period in the last year which decreased in demand at the beginning. In addition, there is a production for waiting to be sold due to steel prices are still trending high.

Other Industrial Economic Indicators in September 2021

Other Industrial Economic Indicators in September 2021

Imports of Thailand Industrial Sector



Source: Ministry of Commerce

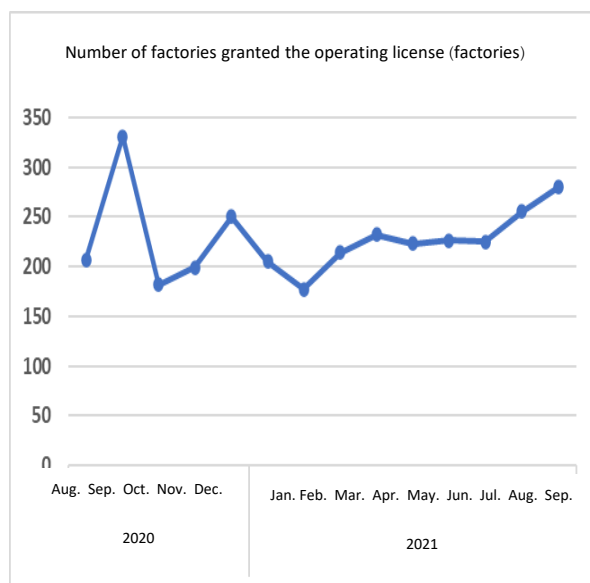


Source: Ministry of Commerce

+ In September 2021, Imports of industrial machinery and components increased by 12.3 percent compared to the same month of the previous year to 1,467.0 million USD. The increase was from transmission shafts, and other parts, other industrial machinery and components, bellows, liquid pumps, rubber or plastic processing machinery, and construction machinery and parts.

+ In September 2021, Imports of raw and semi-finished goods (excluding gold) increased by 43.6 percent compared to the same month last year to 9,033.2 million USD. The increase was from the importation of chemical products, iron and steel products, equipment, electrical, and electronic components.

■ Industrial Operation Status



Source: Department of Industrial Works



Source: Department of Industrial Works

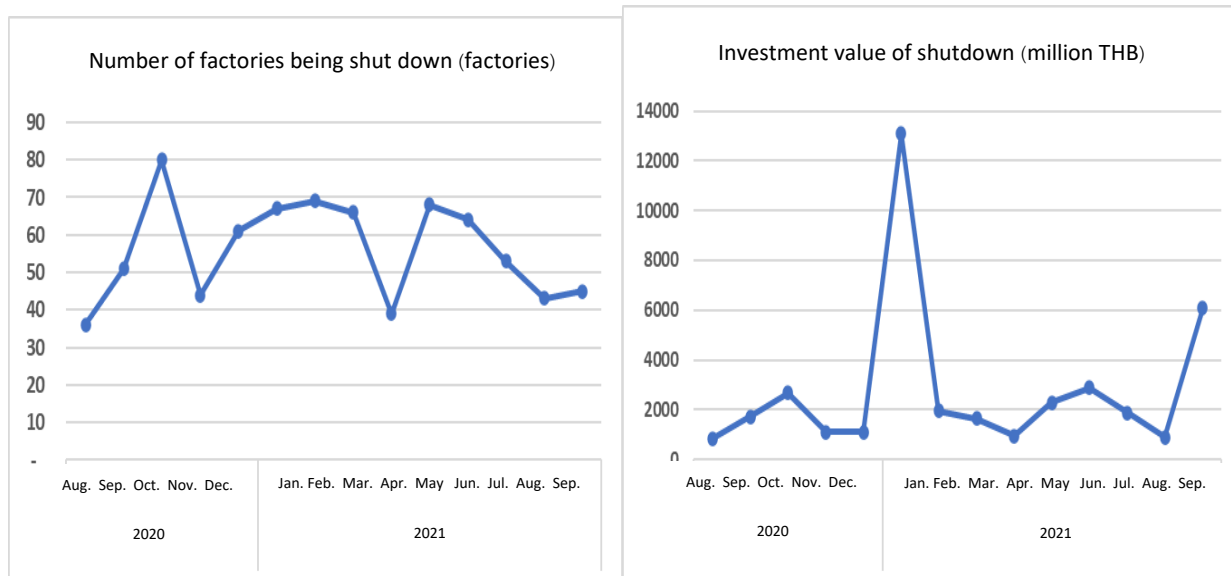
➕ The total number of factories licensed for operation in September 2021 was 280 factories, an increase of 9.8 percent (%MoM) from August 2021 but a decrease of 15.41 percent (%YoY) from the same month last year.

➕ The total investment from factories licensed for operating in September 2021 increased by 35.09 percent (%MoM) from August 2021 to 16,840 million THB and increased by 8.34 percent (%YoY) from the same month last year.

“The industry with the highest number of newly licensed factories to operate in September 2021 was the manufacture of concrete, ready-mixed concrete articles, and gypsum products (38 factories) and the excavation or dredging industry of gravel, sand, or soil (21 factories).”

“In September 2021, the industry with the highest investment value was non-tyre rubber products manufacturing industry from natural rubber or synthetic rubber (7,400 million THB) and follow by fertilizer or pesticides industry (962 million THB).”

■ Industrial Operation Status (Cont.)



Source: Department of Industrial Works

Source: Department of Industrial Works

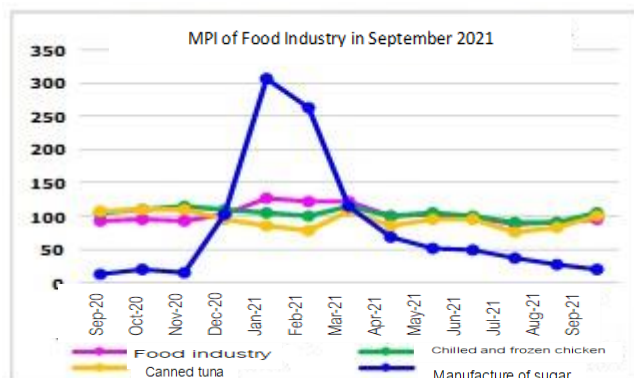
- 🚫 A total of 45 factories were shut down in September 2021, increasing by 4.65 percent (% MoM) from August 2021 but decreasing by 11.76 percent (% YoY) from the same month last year.
- 🚫 The lost investment value on shutdown in September 2021 totaled 6,082 million THB, increasing by 585.07 percent (%MoM) and increasing by 252.89 percent (%YoY) from the same month last year.

“In September 2021, the industry with the highest number of factory shutdowns was the excavation industry of gravel, sand, or soil (7 factories), followed the sand suction industry (2 factories).”

“In September 2021, industries that were shut down with the highest investment value were the industry of building, assembling, modifying, repairing or altering the condition of aircraft (2,900 million THB), followed by non-tyre rubber products manufacturing industry from natural rubber or synthetic rubber (200 million THB).”

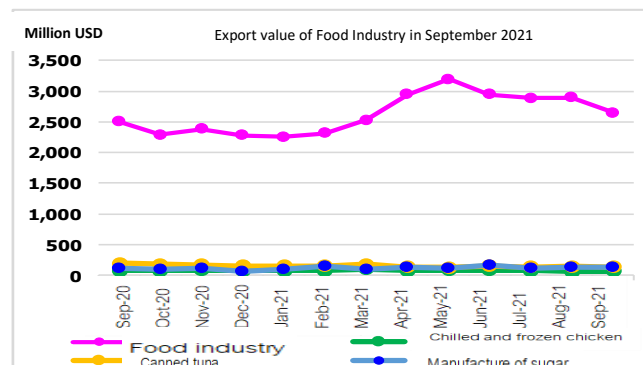
Industrial Economic Status by Industrial Sectors in September 2021

1. Food Industry



Source: The Office of Industrial Economics

Production: In September 2021, production increased by 3.6 percent (%YoY) due to the global economic recovery. In addition, the COVID-19 situation in the food industrial section tends to be controlled by the decrease in the number of infected patients. Productions include 1) tobacco products—an increase of 71.3 percent from key products, which is cigarette (71.35 percent) due to accelerating production to support more incoming orders affected by the restructuring of the new tobacco tax that will be used on October 1, 2021; 2) sugar—an increase of 62.6 percent from key products, which is white sugar (80.6 percent) and refined sugar (60.7 percent) because factories speed up production to response the due of contract after some factories affected by the outbreak; 3) livestock—an increase of 5.5 percent from meat and poultry products (15.9 percent) which are sausage, bacon, and ham. This results from the situation of COVID-19 in the country tends to improve making such products to be in demand in the market; 4) ready-made feed grew by 3.0 percent from the main products, namely ready-made pet food grew by 1.6 percent as the pet food market continues to grow in line with the popularity of animal husbandry around the world. And ready-made chicken food grew by 10.6 percent due to labor shortages in the chicken processing and slaughterhouse industries. Most of them are foreign workers causing the need to extend the time of raising chickens as a result, the demand for ready-made chicken feed has increased and 5) cassava grew by 2.1 percent due to the major products tapioca starch grew by 0.8 percent due to domestic and international consumer demand especially China, which is the main export market has imported cassava starch to be used as a substitute during the period when corn flour prices remained at a high level.



Source: Ministry of Commerce

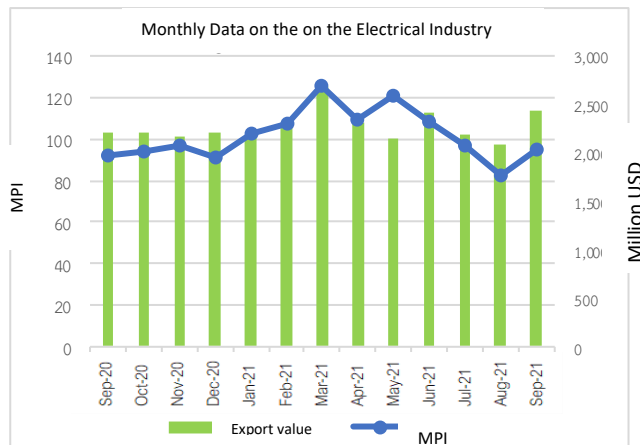
Domestic sales: Production volume for food products in September 2021 decreased by 5.5 percent (%YoY) due to the contraction of food products as follows: 1) Processed vegetables and fruits decreased by 33.1 percent from key products, namely canned sweet corn and frozen fruits and vegetables 2) Palm oil declined 19.7 percent from major products crude palm oil and refined palm oil 3) Other food products declined by 13.1 percent due to key products, namely ready-to-cook set meals and 4) Vegetable oil declined by 10.6 percent due to major products, namely pure soybean oil.

Export markets: Overall, food exports in September 2021 were worth 2,651.32 million USD grew by 6.0 percent compared to the same period last year. The products are as follows: 1) Cassava products because consumers are confident in the quality and standards of the products. The main export markets are China, Japan, Taiwan. 2) Canned and processed fruits because the quality of the products is acceptable to world-class standards. The main export markets are America, Japan, Russia and 3) pet food due to the depreciation of the baht and the trend of raising pets like family members, the pet food business expanded well. The main export markets are America, Japan and Malaysia.

Forecasts and trends: The production index of the food industry in October 2021 is expected to expand slightly compared to the same period last year due to the epidemic situation of COVID-19 among the food industry workers, the trend is improving as the number of infected people has decreased coupled with the gradual recovery of the world economy for export value. There is a tendency to expand continually according to the consumption demand of trading partner countries and the depreciation of the baht.

2. Electrical and Electronics Industry

■ Electrical Industry



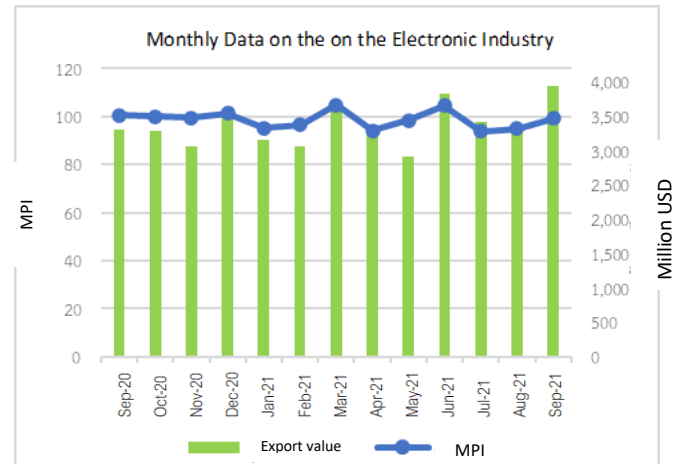
Source: Office of Industrial Economics Institute of Electrical and Electronics and the Ministry of Commerce

+ **Production of electrical appliances** increased by 3.1 percent compared to the same month last year. The MPI was at 94.8. products that increased were compressors, electric motors, electric cables, air conditioners, cables and household fans by 34.3 percent, 19.9, 19.5, 18.2, 8.1 and 1.1, respectively, due to the increase in domestic sales and foreign orders while the decline in products such as transformer rice cooker, washing machine, thermos, refrigerators and microwave ovens decreased by 48.8 percent, 36.7, 31.2, 28.1, 19.6 and 8.5, respectively, due to a decrease in domestic demand and orders from abroad.

+ **Export of electrical appliances** valued at 2,430.6 million USD increased 10.2 percent compared to the same month last year. Increased orders, including cables, wire harnesses, were valued at 194.8 million USD. In the ASEAN, the united states of America, and the EU markets, rice cookers, grills, and grill ovens were valued at 65.9 million USD. In the EU and the united states of American markets, electric motors are valued at 72.9 million USD increased by 30.4 percent in The EU, ASEAN, and Japanese markets. Microwave ovens are worth 18.5 million USD increased by 24.5 percent in the United States of America and Japan. Air conditioners were valued at 417.3 million USD. The value of washing machines was 80.1 million USD, a decrease of 26.5 percent in China, the United States of America, and ASEAN markets, and refrigerators were valued at 156.4 million USD, a decrease 8.0 percent in ASEAN and Japan. Fans valued at 6.8 million USD, a decrease of 6.4 percent in the Chinese, ASEAN and the United States of America markets.

“Production forecast for October 2021, the electrical appliance industry is expected to will increase approximately 3.0-8.0 percent compared to the same month of the previous year as the economies of trading partners have begun to recover from the COVID-19 situation as well as the demand for electrical appliances from domestic consumers has increased due to the impact of the flood situation.”

■ Electronics Industry



Source: Office of Industrial Economics Institute of Electrical and Electronics and the Ministry of Commerce

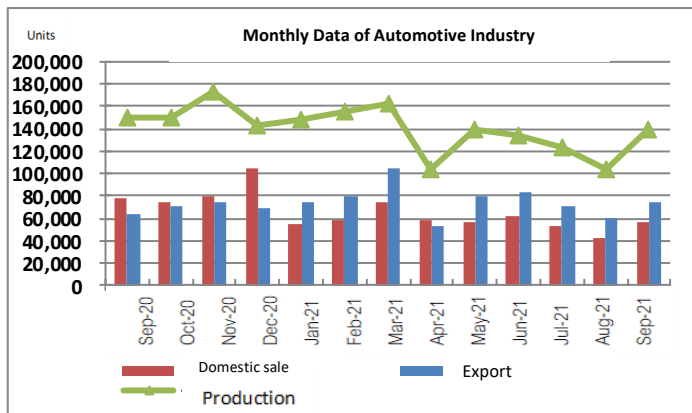
- **Production of electronics** decreased by 1.3 percent compared to the same month of the previous year. The MPI was at 99.2. The products that declined were HDD and printer, decreasing 19.4 percent and 12.3 percent, respectively, due to the decline in demand from both domestic and international markets. Meanwhile, the products that rose included PWB, Semiconductor devices transistor, PCBA, and IC, with an increase of 28.6 percent, 21.3, 17.1 and 9.6 percent, respectively, due to increased domestic sales and foreign orders.

+ **Export of electronics product** with an export value of 3,948.7 million USD increased by 19.1 percent compared to the same month of the previous year. Products with more orders, including HDD, were valued at 801.8 million USD up 49.8 percent in Japan, the United States of America and the EU markets, semiconductors, transistors, and diodes were valued at 177.7 million USD increased 23.5 percent in the United States of America, the EU and ASEAN markets. Integrated circuits were valued at 744.1 million USD. A 17.2 percent increase in the EU, the United States of America and Japanese markets. Printed circuit board valued at 131.9 million USD increases 10.8 percent in the United State of America, the EU and Japanese markets.

“Production forecast for October 2021, the electronics industry is expected that it will continue to increase by 5.0-10.0 percent compared to the same month of the previous year. Due to the increasing demand for semiconductor parts in the production of modern products both at home and abroad especially IoT products such as smart products in the electrical appliance industry and the automotive industry, etc.”

3. Automotive Industry

■ Automotive Manufacturing Industry



Source: Office of Industrial Economics Collected from the automotive industry Federation of Thai Industries

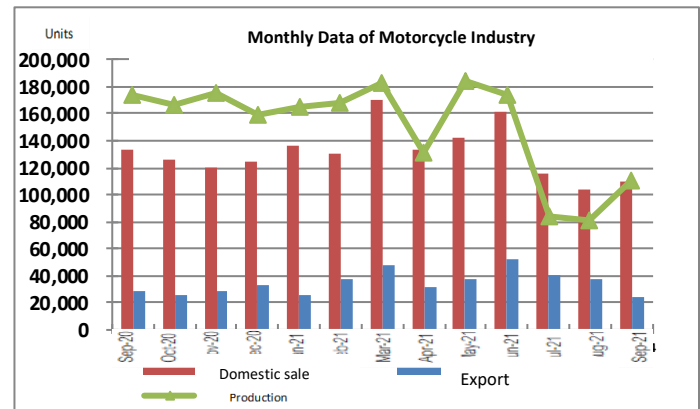
+ Automotive production: In September 2021, there were 140,038 units, an increase of 34.47 percent from August 2021 (%MoM), but a 6.43 percent decrease from the same month of the previous year (%YoY) due to the decline in passenger cars, a 1-ton pickup truck and its derivatives.

+ Domestic automobile sales: In September 2021, there were 56,871 units, an increase of 34.84 percent from August 2021 (%MoM) due to the easing of lockdowns since September 1, 2021, resulting in more economic activity assembled with factory automakers get more chips and auto parts and financial institutions began to ease the austerity of approval. However, car sales declined from the same month of the previous year by 19.12 percent (%YoY) due to a decline in passenger car sales, commercial vehicles, 1-ton pickup trucks, PPV cars and SUV.

- Automobile export: In September 2021, there were 73,831 vehicles, an increase of 23.94 percent from August 2021 (%MoM) and a 15.47 percent increase from the same month of the previous year (%YoY), due to the huge expansion of economic activities of trading partners increased with an increase in the Oceania, Middle East, Africa, Europe, Central, and South America markets. However, export markets declined in Asian markets and North America due to the spread of COVID-19, car sales in trading partner countries have decreased.

"The outlook for the automotive manufacturing industry in October 2021 is expected to increase compared to October 2020 as the direct and indirect impacts of the COVID-19 pandemic begin to ease."

■ Motorcycle Manufacturing Industry



Source: Office of Industrial Economics Collected from the automotive industry Federation of Thai Industries

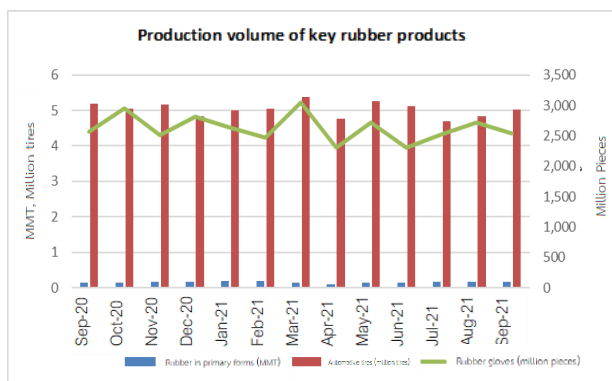
+ Motorcycle production: In September 2021, there were 110,017 units, an increase of 36.71 percent from August 2021 (%MoM), but a 37.01 percent decrease from the same month of the previous year (%YoY) due to a decrease in the production of utility-grade motorcycles, and sporty.

+ Domestic sales of motorcycles: In September 2021, sales of 109,879 units, an increase of 5.22 percent from August 2021 (% MoM), but a decrease of 17.66 percent from the same month of the previous year (%YoY) due to a decrease in Motorcycle sales of 51-110 cc, 111-125 cc, 126-250 cc and greater than or equal to 400 cc.

- Motorcycle export: In September 2021, there were 24,319 units, a decrease of 33.88 percent from August 2021 (%MoM) and a 14.71 percent decrease from the same month of the previous year (%YoY). There has been a decline in China, the United Kingdom and Myanmar.

"Forecasts and trends of the motorcycle manufacturing industry in October 2021, it was flat compared to October 2020 due to the easing of measures to control the spread of COVID-19."

4. Rubber and Rubber Product Industry



Source: Office of Industrial Economics

Production

+ Primary processed rubber (smoked rubber sheet, rubber blocks and concentrated latex) increased by 9.95 percent due to the expansion of production of all types of primarily processed rubber according to the expansion of the export market.

- Automotive tires decreased 3.05 percent as the domestic automotive industry continued to slow down from the previous month.

- Rubber gloves decreased 1.30 percent following a slowdown in export markets, especially the United Kingdom, Japan and China markets.

Domestic sales

- Primary processed rubber (smoked rubber sheet, rubber block and concentrated latex) decreased by 10.28 percent from sales smoked rubber sheet and concentrated latex are decreases.

- Automotive tires decreased 6.74 percent following a slowdown in the domestic automotive industry.

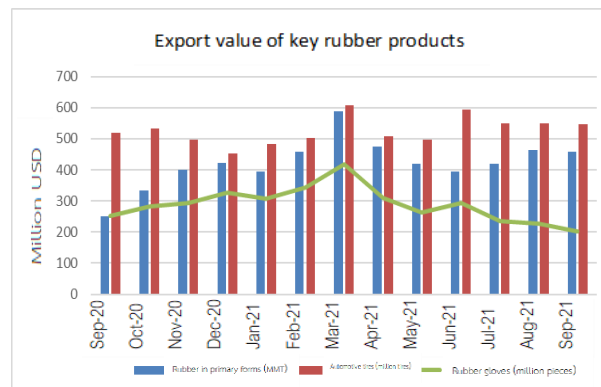
+ Rubber gloves increase of 14.88 percent in line with rising demand.

Export

+ Primary processed rubber (smoked rubber sheet rubber, block rubber and concentrated latex) value increased by 83.64 percent due to the expansion of smoked rubber sheet and block rubber exports to China, the United States of America, and Japan and the expansion of exports latex to China.

+ Automotive tires value increased 5.32 percent in line with the good expansion of the Japanese and South Korean markets.

- Rubber gloves decreased by 20.07 percent following the slowdown in the United Kingdom, Japan and China markets.



Source: Ministry of Commerce

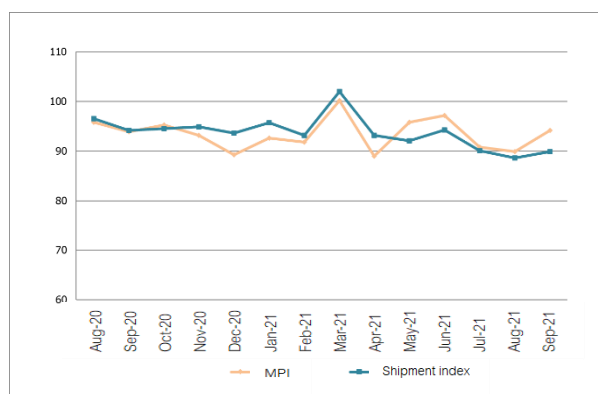
Outlook for the industry in October 2021

Primary processed rubber production (smoked rubber sheet rubber, block rubber and concentrated latex) is expected to expand in line with the trend of higher demand in the international market. It is also a factor that pressures the amount of rubber entering the market decreases. The production and distribution of tires are expected to slow down from the previous month in line with the slowdown trend of the automotive industry. Although the chip shortage situation began to ease, the production of rubber gloves is expected to continue to expand at a reduced rate due to the recent development of China's medical rubber glove manufacturing industry in the country become a major producer in another world. In addition, China has high price competitiveness causing Thai entrepreneurs to start receiving fewer orders.

Export of primary processed rubber (smoked rubber sheet, block rubber and concentrated latex) is expected to increase in value, especially in the China, the United States of America and Japanese markets because the rubber products manufacturing industry in such countries has good growth prospects. The export value of tires is expected to increase due to the good trend expansion of the second export market especially Japan and South Korea. As for the export of rubber gloves, it is expected that the overall value will decrease because last year's number base was quite high. In addition, Thailand has more competitors. This made it necessary to adjust the cost reduction of production to be able to compete on The price in the world market.

5. Plastics Industry

MPI and Shipment Index



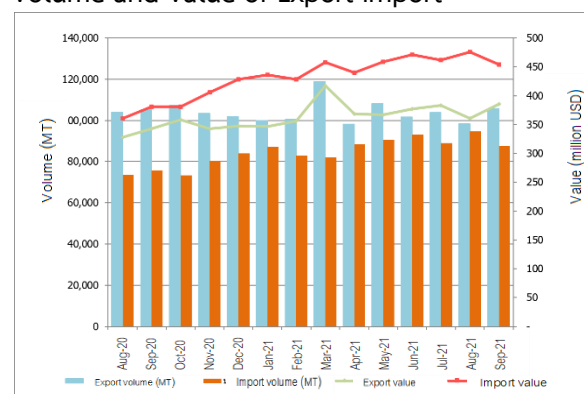
Source: Office of Industrial Economics

+ Manufacturing production index: In September 2021, the MPI was at 94.12, expanding by 0.29 percent compared to the same period last year, with the MPI expanding in many product groups such as plastic film grew 33.30 percent and other plastic packaging grew 14.63 percent.

- Shipment index: In September 2021, the shipping In September 2021, the shipping Index was at 89.91, shrinking 4.55 percent compared to the same period last year, with products that contracted such as tableware, kitchen and bathroom appliances, shrinking 19.45 percent, plastic bags shrinking 13.58 percent and plastic sacks shrinking 8.72 percent.

+ Export: September 2021 is worth 385.57 million USD or increased by 12.39 percent compared to the same period last year. Products that contributed to the expansion of exports such as the single fiber product group (HS 3916) increased by 80.21 percent, tube or pipe product group (HS 3917) increased by 41.91 percent, and household appliances group (HS 3924) expanded 26.09 percent and compared to the same period last year. Exports expanded in key markets such as Japan, the United States of America, China and the Philippines.

Volume and Value of Export-Import

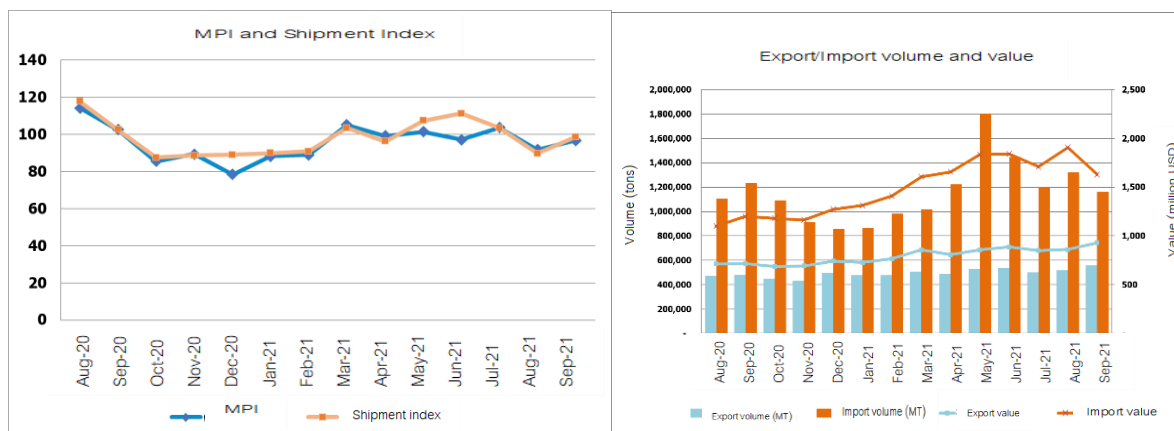


Source: Office of the Permanent Secretary, Ministry of Commerce

+ Import: In September 2021, is worth 453.77 million USD increased by 19.13 percent compared to the same period last year. The main products that contributed to the expansion of imports included the monofilament product group (HS 3916), a 63.61 percent growth, the tube or pipe product group (HS 3917), a 32.08 percent growth, and the sanitary ware product group (HS 3922) 41.92 percent compared to the same period last year.

Outlook for the plastics industry in October 2021, exports are expected to continue to expand, however, the situation must be monitored. The spread of the COVID-19 virus after the government has relaxed the lockdown. It also must be monitor the direction of the world crude oil prices with an upward trend which crude oil is the starting raw material of plastic pellets. As a result, the cost of raw materials used in the production of products in the plastics industry has increased as well.

6. Chemical Products Industry



Source: Office of Industrial Economics

Source: Office of the Permanent Secretary, Ministry of Commerce

Manufacturing production index: In September 2021, was at 96.75, 5.67 percent contraction compared to the same period last year. The basic chemicals group contracted 9.46 percent compared to the same period last year. Products with a contraction in production were ethanol, a contraction of 57.52 percent, for the downstream chemicals group, a contraction of 4.53 percent compared to the same period last year. The products with the highest production contraction were: fabric softener, a contraction of 15.22 percent, talcum powder, a contraction of 12.79 percent, soap and skincare products, a contraction of 10.17 percent.

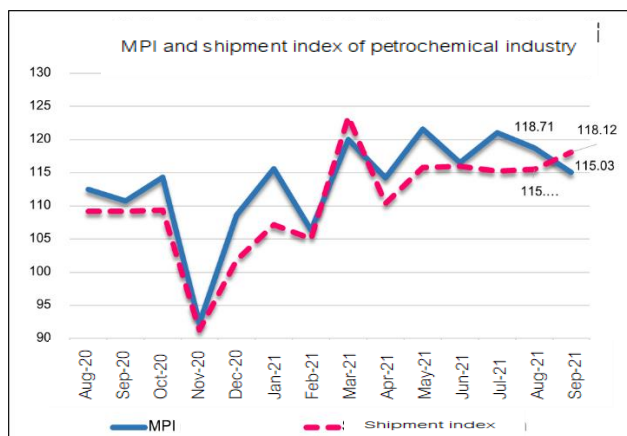
Shipment index: In September 2021, was at 98.70, a contraction of 3.74 percent compared to the same period last year. The index of shipments in the basic chemicals group contracted by 2.06 percent, a contraction in the product category. Ethanol contracted 35.84 percent for the chemicals group. Downstream contracted by 4.18 percent. Products that contracted were Loose powder, decreased by 16.58 percent, fabric softener, decreased by 15.18 percent, and soap and skincare products decreased by 13.12 percent.

Export: In September 2021, the total export value was 929.63 million USD grew by 29.73 percent compared to the same period last year. The basic chemicals group had an export value of 575.05 million USD, an increase of 46.27 percent compared to the same period last year. As for downstream chemicals exports, the export value was 354.58 million USD grew by 9.62 percent. Products that contributed to the expansion of export value such as fertilizers, an increase of 118.74 percent, organic chemicals increased by 67.81 percent and miscellaneous chemicals grew by 31.58 percent. Exports expanded in many markets such as China, Japan, India and Indonesia.

Import: In September 2021, is worth total imports of 1,629.93 million USD or expanding 35.98 percent compared to the same period last year. The basic chemicals group had an import value of 1,080.77 million USD or 43.10 percent growth compared to the same period last year. The downstream chemicals had an import value of 549.16 million USD grew by 23.85 percent compared to the same period last year.

Chemical industry trends in October 2021, it is expected that exports will increase according to the needs of key partners. The epidemic situation of the COVID-19 virus has begun to ease and the trend of infected people has decreased including the government of each country, various promotional measures are in place to stimulate domestic consumption.

7. Petrochemical Industry

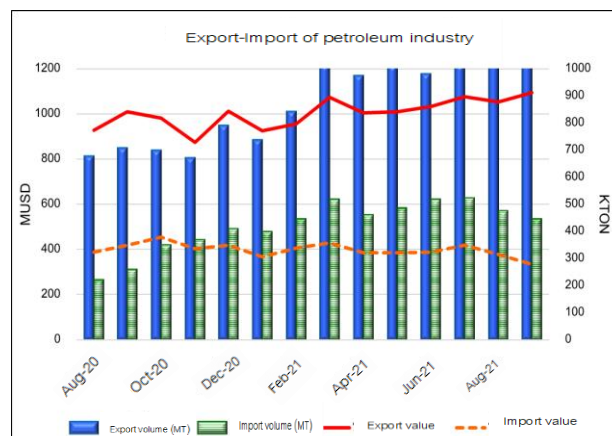


Source: Office of Industrial Economics

+ Manufacturing production index: The petrochemical industry in September 2021 was at 115.03 level or 3.77 percent growth compared to the same period last year but dropped 3.10 percent compared to the previous period basic petrochemicals, such as Toluene and Ethylene, grew by 14.19 percent and 8.34 percent compared to the same period last year, and the downstream petrochemicals, such as ABS and PP resin, grew by 10.73 percent and 9.30 percent compared to the same period last year.

+ Shipment index: In September 2021, was at 118.12, expanding 8.13 percent compared to the same period last year and grew by 2.28 percent compared to the previous month. It is a basic petrochemical such as expanded Propylene 16.16 percent year-on-year and downstream petrochemicals such as PE and PS resin grew by 10.84 percent and 3.58 percent compared to the same period last year.

+ Export: In September 2021, is worth 1,273.47 million USD or increased by 50.64 percent compared to the same period last year and expanded 1.59 percent compared to the previous month which expanded 102.11 percent in basic petrochemicals such as Ethylene and Toluene and expanded in downstream petrochemicals such as PS resin and PP resin, etc., expanding 40.79 percent.

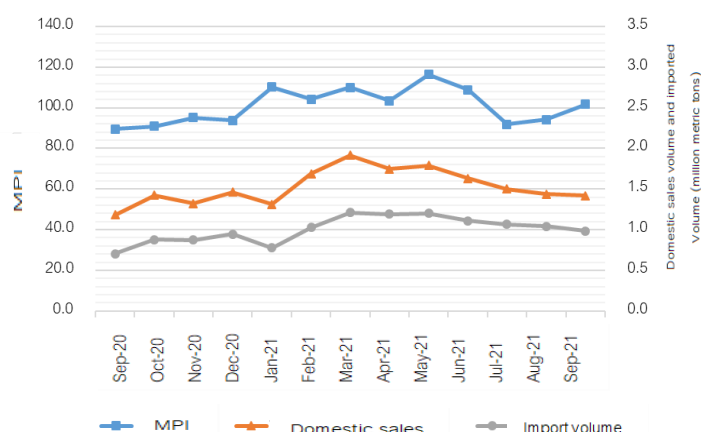


Source: Office of the Permanent Secretary, Ministry of Commerce

+ Import: In September 2021, it was valued at 533.03 million USD or grew by 49.47 percent compared to the same period last year but contracted by 6.26 percent compared to the previous month which expanded in the basic petrochemical group such as Styrene, etc. by 89.70 percent and expanded in the Downstream petrochemicals, such as PE resin and PS resin, grew by 43.11 percent, partly due to the price level that started to increase in line with crude oil prices.

Outlook for trends in October 2021, the overall industry outlook is expected to expand better compared to the same period last year from the return of production in many products together with the increase in the price of crude oil in the world market economic recovery after the COVID-19 situation make production and export. There is a tendency to increase accordingly.

8. Iron and Steel Industry



Source: Office of Industrial Economics and Steel Institute and steel of Thailand

+ **The manufacturing production index:** In September 2021, the value was 101.7, an increase of 13.6 percent compared to the same period last year. According to the expansion of continuous industries such as the electrical industry causing manufacturers to accelerate production according to the increasing orders of users, In addition, there is a production to wait to be sold as steel prices are likely to remain stable When considering the main products, which are products in the long steel and flat steel groups. It was found that the flat steel production index expanded but long steel contracted by-products in the flat steel group, The MPI was 119.1, an increase of 43.5 percent. Products that grew in production were cold-rolled steel sheets grew by 107.7 percent, followed by galvanized steel sheet grew by 76.1 percent and hot-rolled coils grew by 13.5 percent for products in the long steel group. The MPI was 86.4, a contraction of 2.9 percent. These were round steel bars, a contraction of 37.0 percent, followed by cold-rolled structural steel and deformed steel bars contracted by 18.9 percent and 9.7 percent, respectively.

+ **Domestic consumption:** In September 2021, the consumption volume was 1.4 million tons, an increase of 20.0 percent compared to the same period last year by flat steel group consumption volume was 1.0 million

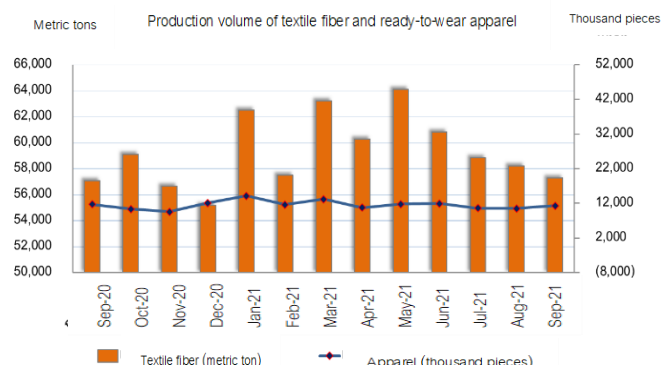
tons, an increase of 41.1 percent due to the consumption of cold-rolled thin strips that grew by 73.9 percent, followed by hot-rolled thin steel sheets increased by 65.7 percent and tin-plated steel consumption of long-form steel was 0.4 million tons, a contraction of 11.9 percent due to a decrease in consumption of wire rod by 16.9 percent, steel bar and hot-rolled structural steel, a contraction of 15.8 percent.



Import: In September 2021, the import volume was 1.0 million tons, an increase of 39.2 percent compared to the same period last year. The import volume of long steel was 0.2 million tons, an increase of 28.9 percent from rebar imports. Carbon steel grew by 862.5 percent (the main countries imported by Thailand were Japan, China, and South Korea), followed by alloy steel bars, which grew by 247.6 percent (the main countries imported by Thailand were China and Japan). Seamless steel pipe grew by 75.3 percent (the main country imported by Thailand is China) for products in the flat steel group imported volume was 0.8 million tons, an increase of 42.1 percent. Flat steel that imports expanded was carbon steel P&O, which grew by 523.1 percent (the main countries imported by Thailand were Japan, South Korea, and Taiwan), followed by the following were hot-rolled steel sheets of alloy steel, with an increase of 305.3 percent (the main countries imported by Thailand were China and Japan), and cold-rolled thin-rolled steel sheets of alloy steel, with an increase of 166.9 percent (the main countries imported by Thailand were Japan, South Korea. and China)

"The outlook for the steel industry in October 2021 is forecasted to increase slightly compared to the same period last year with supporting factors from continuous industry expansion. This will affect the production and consumption of steel products in the country."

9. Textile and Wearing Apparel Industry



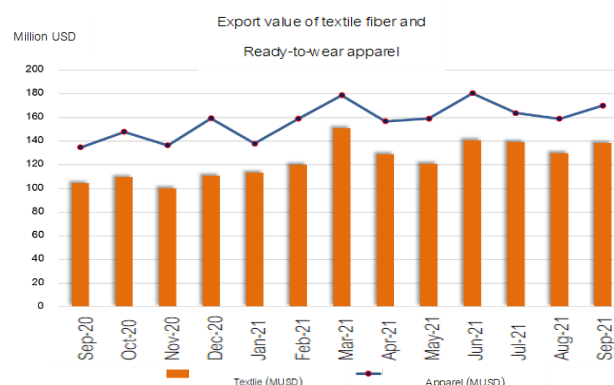
Source: Office of Industrial Economics

Production

➕ Textile fibers and fabrics grew by 0.41 and 6.31 percent, respectively, to support the continual increase in exports. From recovery in key markets such as the United States of America, the EU and China, coupled with a low base last year while ready-made garments contracted by 3.41 percent due to a slowdown in domestic consumption. However, compared to 2019 before the outbreak of COVID-19 It was found that production has not recovered throughout the supply chain by textile fibers, fabrics and ready-made garments continue to shrink 15.76 percent, 27.22 and 21.36 percent, respectively.

Domestic sales

➕ Textile fibers and fabrics grew by 9.31 percent and 7.39 percent due to the low base last year. In addition, demand for raw materials for export returned to expand in key markets while ready-made garments contracted by 3.52 percent due to the slowdown in purchasing power of domestic consumers.



Source: Ministry of Commerce

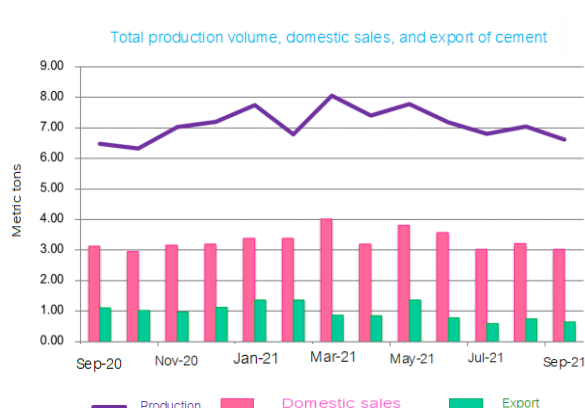
Exports

➕ Textile fibers, fabrics and ready-made garments recovery throughout the supply chain, The export value of textile fibers increased by 32.49 percent in Pakistan, China and Indonesia markets. The fabric segment increased 15.97 percent in markets of Vietnam, Bangladesh, Cambodia, China and Indonesia. The ready-to-wear segment increased by 26.23 percent in the United States of America, Japan, Belgium, Hong Kong, Germany, and the United Kingdom. Due to the outbreak situation in major trading partner countries after vaccination rate high level causing the economic activities to return to normal more, therefore, exports have increased.

Industry outlook for October 2021

It is expected that the textile manufacturing industry continues to expand with a low base in the previous year coupled with orders from abroad continuously throughout the supply chain while apparel production is likely to slow down in line with purchasing power in the country decreased due to the outbreak of COVID-19 and has been affected by the power shortage in China. As a result, raw materials such as yarns and fibers increased in price and began to become scarce, affecting the production of clothing and uniforms causing operators to postpone production while pre-orders are limited. Due to uncertainty in the delivery time of the products, major trading partners, such as China, the United States of America and EU, gradually recovered and demand continued to increase.

10. Cement Industry



Source: 1. Domestic production and distribution volume: Division of Industrial Economics and Information Office of Industrial Economics

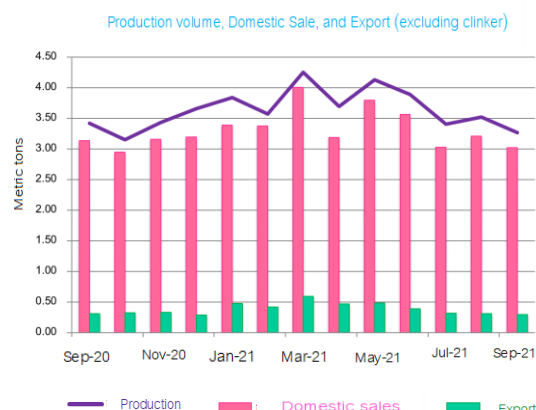
2. Export volume: Information and Communication Technology Center, Office of the Permanent Secretary, Ministry of Commerce

+ In September 2021, total production of cement the amount was 6.63 million tons, a decrease of 5.97 percent from August 2021 (% MoM), but an increase of 2.31 percent from the same month of the previous year (%YoY).

- In September 2021, total domestic sales of cement the sales volume was 3.02 million tons, a decrease of 5.98 percent from August 2021 (%MoM) and a 3.63 percent decrease from the same month of the previous year (%YoY).

- In September 2021, total cement exports amounted to 0.65 million tons, a decrease of 12.89 percent from August 2021 (%MoM) and a 41.29 percent decrease from the same month of the previous year (%YoY) as a result of the reduction of orders from Bangladesh, Cambodia and Myanmar markets, down 31.51 percent, 19.93 percent and 18.85 percent, respectively.

Forecasts and trends of cement manufacturing industry overall, October 2021 compared to the same period last year expected to decline



Source: 1. Domestic production and distribution volume: Division of Industrial Economics and Information Office of Industrial Economics

2. Export volume: Information and Communication Technology Center, Office of the Permanent Secretary, Ministry of Commerce

- In September 2021, cement production (excluding clinker) it amounted to 3.27 million tons, a decrease of 7.14 percent from August 2021 (%MoM) and a 4.41 percent decrease from the same month of the previous year (%YoY).

- In September 2021, domestic sales of cement (excluding clinker) the sales volume was 3.02 million tons, a decrease of 5.99 percent from August 2021 (%MoM) and a 3.67 percent decrease from the same month of the previous year (%YoY).

- In September 2021, cement exports (excluding clinker) amounted to 0.30 million tons, a decrease of 3.46 percent from August 2021 (%MoM) and a 3.22 percent decrease from the same month of the previous year (%YoY) as a result of the order reduction. Purchased from Cambodia and Myanmar markets, decreasing 23.92 percent and 18.82 percent, respectively.

Forecasts and trends of the cement manufacturing industry (excluding clinker) in October 2021 compared to the same period last year. It is expected to decline due to flooding in some areas. Although the construction of public utility projects has already received a new budget, the flooding that happened is an obstacle in the progress of construction.