

Diversifying Food Production & Consumption

Improving Regional Food Security

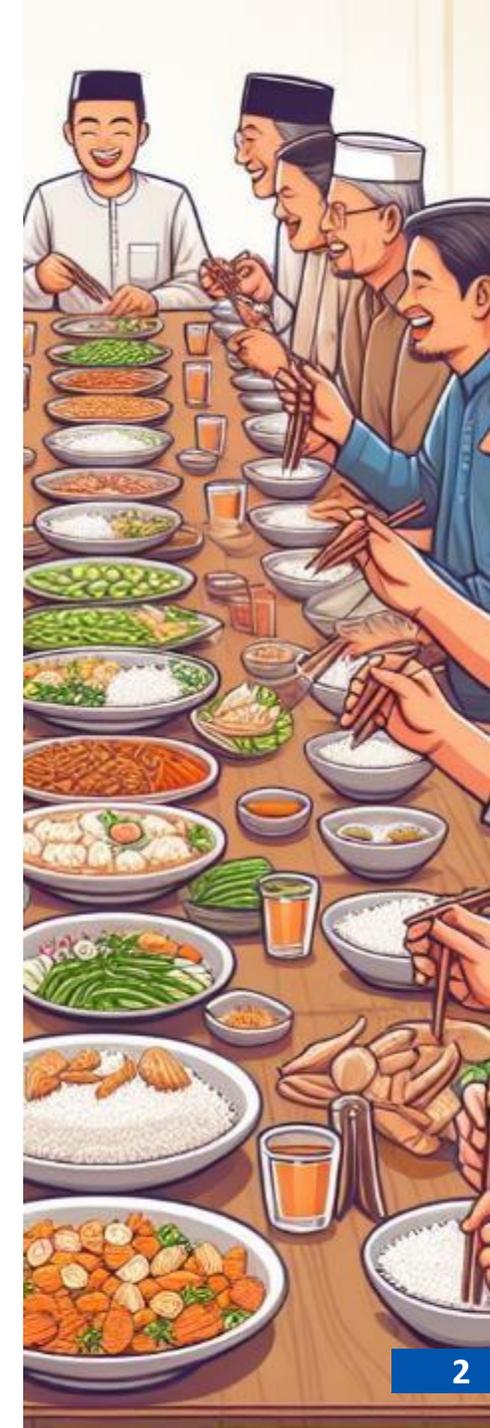
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December 2024



Comparison of Average Daily Macronutrient Intake in Indonesia Compared to WHO Recommendation and Other Countries

Macronutrients daily consumption	Indonesia (in 2022)	WHO Recommendation	Indonesia consumption gap vs WHO recommendation	Comparison with other countries (in 2022)			
				Singapore	Thailand	Philippines	Malaysia
Protein	57 grams	62 grams	Deficient by 5 grams	84 grams	68 grams	66 grams	80 grams
Carbohydrate	280 grams	215-405 grams	Exceeds by 65 grams	300 grams	285 grams	310 grams	275 grams
Fiber	10 grams	26-34 grams	Deficient by 16 grams	25 grams	20 grams	23 grams	22 grams
Fat	65 grams	50-65 grams	Exceeds by 15 grams	80 grams	58 grams	47 grams	62 grams



Background

Food consumption in Indonesia and selected countries in 2022

	Indonesia	Japan	Australia	Malaysia	
Demographic overview	GDP per capita	USD 4,580	USD 34,135	USD 64,000	USD 11,972
	Average height	Male: 165.1 cm Female: 154.9 cm	Male: 172.7 cm Female: 157.5 cm	Male: 177.8 cm Female: 165.1 cm	Male: 170.2 cm Female: 157.5 cm
Food consumption per capita (kg/year)	Beef	3.6	9.65	36.7	6.1
	Buffalo meat	0.2	N/A		
	Poultry	8.6	22.5	48.4	48.9
	Chicken egg	7.6	20.1	7.7	17.3
	Cow milk	16.3	47.3	234.9	5.4
	Fish	23.8	20.1	7.7	17.3
	Soybean	15.1*	N/A		
	Total Protein	75.0	119.7	335.4	95.0
	Rice	94.1	72.6	13.6	105.9
	Wheat	35.2	50.9	46.7	53.6
	Total Carbohydrates	129.3	123.5	60.3	159.5
	Sugar	11.6	17.2	33.4	41.6
	Chile	2.0	N/A		
	Garlic	2.0	N/A		
Total other foods	15.6	17.2	33.4	41.6	

Source: Central Bureau of Statistics (BPS), National Food Agency (Bapanas), ourworldindata.org, and others.

Tofu and tempeh are commonly consumed soy-based products in Indonesia.

Background

Food consumption by Indonesians in key Indonesian regions

	Java and Bali	Sumatra	Kalimantan and Nusa Tenggara	Sulawesi	Maluku and Papua	
Demographic overview	GDP per capita	IDR 66.8 million	IDR 52.1 million	Rp. 70.2 million	Rp. 56.8 million	Rp. 52.2 million
	Average height	Man: 157 cm Woman: 152 cm	Man: 156 cm Woman: 151 cm	Male: 159 cm Female: 154 cm	Male: 158 cm Female: 153 cm	Male: 159 cm Female: 154 cm
Food consumption per person per region	Beef	11 Kg	8 Kg	12 Kg	9 Kg	8 Kg ¹
	Buffalo meat	0.1 Kg	1 Kg	0.2 Kg	0.3 Kg	0.2 Kg
	Chicken meat	16 Kg	12 Kg	14 Kg	13 Kg	12 Kg
	Chicken eggs	185 eggs	160 eggs	170 eggs	165 eggs	155 eggs
	Cow's milk	11 liters	8 liters	9 liters	8 liters	7 liters
	Fish	30 Kg	35 Kg	40 Kg	45 Kg	50 Kg
	Soya bean	15 Kg	12 Kg	13 Kg	14 Kg	13 Kg
	Total Protein ²	81.58 Kg	76.24 Kg	84.77 Kg	88.49 Kg	89.86 Kg
	Rice	130 Kg	125 Kg	120 Kg	120 Kg	115 Kg
	Wheat	11 Kg	8 Kg	9 Kg	10 Kg	8 Kg
	Total Carbohydrates	141 Kg	133 Kg	129 Kg	130 Kg	123 Kg
	Sugar	20 Kg	22 Kg	21 Kg	22 Kg	24 Kg
	Chilli	5 Kg	6 Kg	5 Kg	6 Kg	7 Kg
	Garlic	2 Kg	2 Kg	2 Kg	2.5 Kg	2 Kg
Total Others	27 Kg	30 Kg	28 Kg	30.5 Kg	33 Kg	

Source : BPS, 2021 – 2023

¹ included ruminants other

² with assumption 1 egg is 0.05 Kg and 1 liter of milk is 1.03 Kg

Background

Food consumption in key Indonesian regions

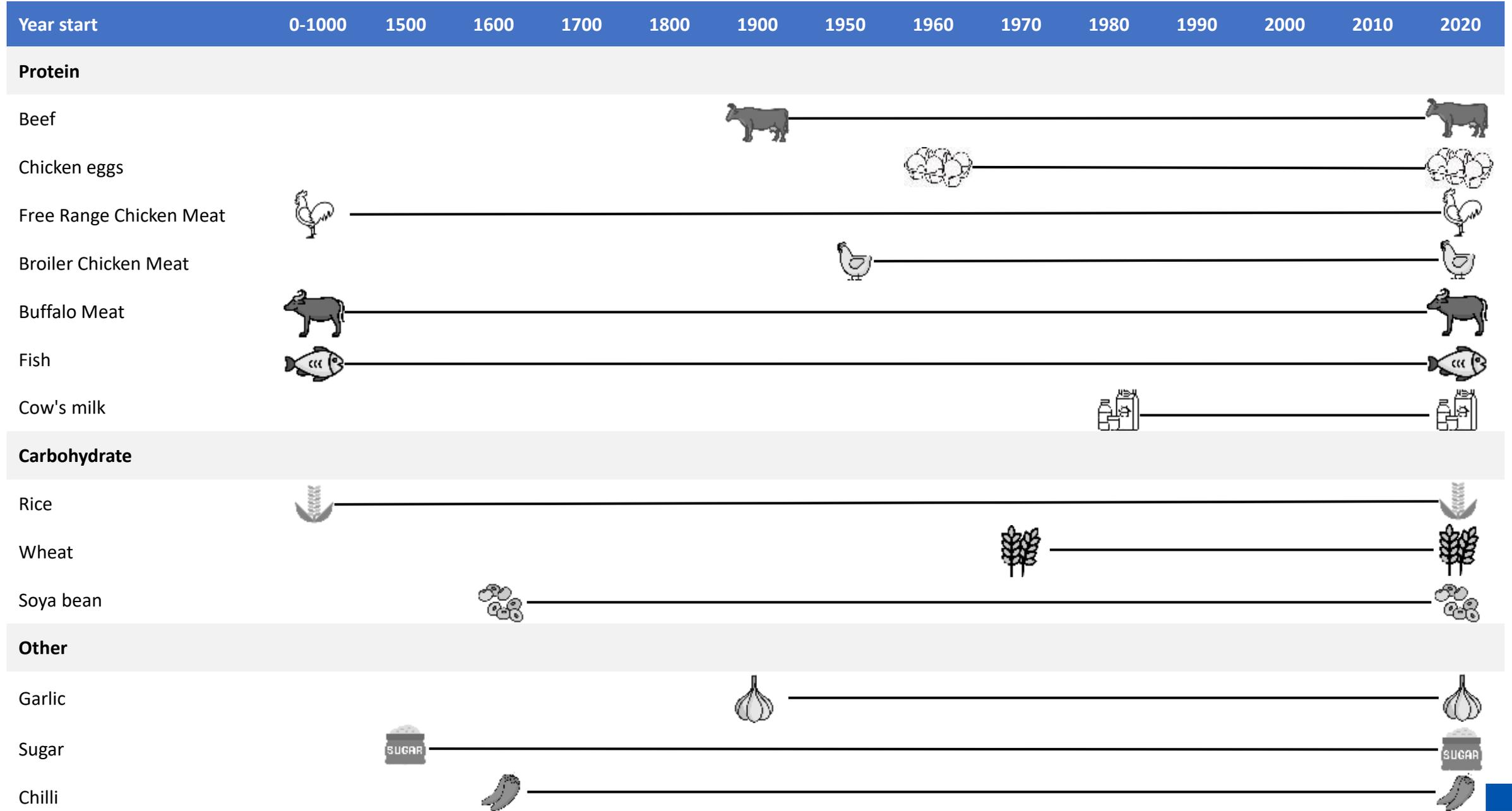
	Java and Bali	Sumatra	Kalimantan and Nusa Tenggara	Sulawesi	Maluku and Papua	
Demographic overview	GDP per capita	Rp. 66.8 million	Rp. 52.1 million	Rp. 70.2 million	Rp. 56.8 million	Rp. 52.2 Million
	Population (people)	159.8 Million	61.3 Million	28.2 Million	20.3 Million	7.7 Million
Food consumption per region per year	Beef	1.7 million tons	0.5 million tons	0.3 million tons	0.2 million tons	0.06 million tons ¹
	Buffalo meat	0.01 million tons	0.01 million tons	0.01 million tons	0.01 million tons	0.01 million tons
	Chicken meat	2.5 million tons	0.7 million tons	0.4 million tons	265 Thousand Tons	93 Thousand Tons
	Chicken eggs	29,564 million eggs	9,819 million eggs	4,798 million eggs	3,363 million eggs	1,197 million eggs
	Cow's milk	1,758 million liters	491 million liters	254 million liters	163 million liters	54 million liters
	Fish	4.8 million tons	2.1 million tons	1.1 million tons	0.9 million tons	0.4 million tons
	Soya bean	2.4 million tons	0.7 million tons	0.4 million tons	0.3 million tons	0.1 million tons
	Total Protein ²	13.0 million tons	4.7 million tons	2.4 million tons	1.8 million tons	0.7 million tons
	Rice	20.7 million tons	7.6 million tons	3.4 million tons	2.4 million tons	0.9 million tons
	Wheat	1.7 million tons	0.5 million tons	0.2 million tons	0.2 million tons	0.06 million tons
	Total Carbohydrates	22.5 million tons	8.1 million tons	3.6 million tons	2.6 million tons	0.9 million tons
	Sugar	3.2 million tons	1.3 million tons	0.6 million tons	0.4 million tons	0.2 million tons
	Chilli	0.8 million tons	0.4 million tons	0.1 million tons	0.1 million tons	0.05 million tons
	Garlic	0.3 million tons	0.1 million tons	0.06 million tons	0.05 million tons	0.01 million tons
Total Others	4.3 million tons	1.8 million tons	0.8 million tons	0.6 million tons	0.3 million tons	

Source : BPS, 2021 – 2023

¹ included ruminants other

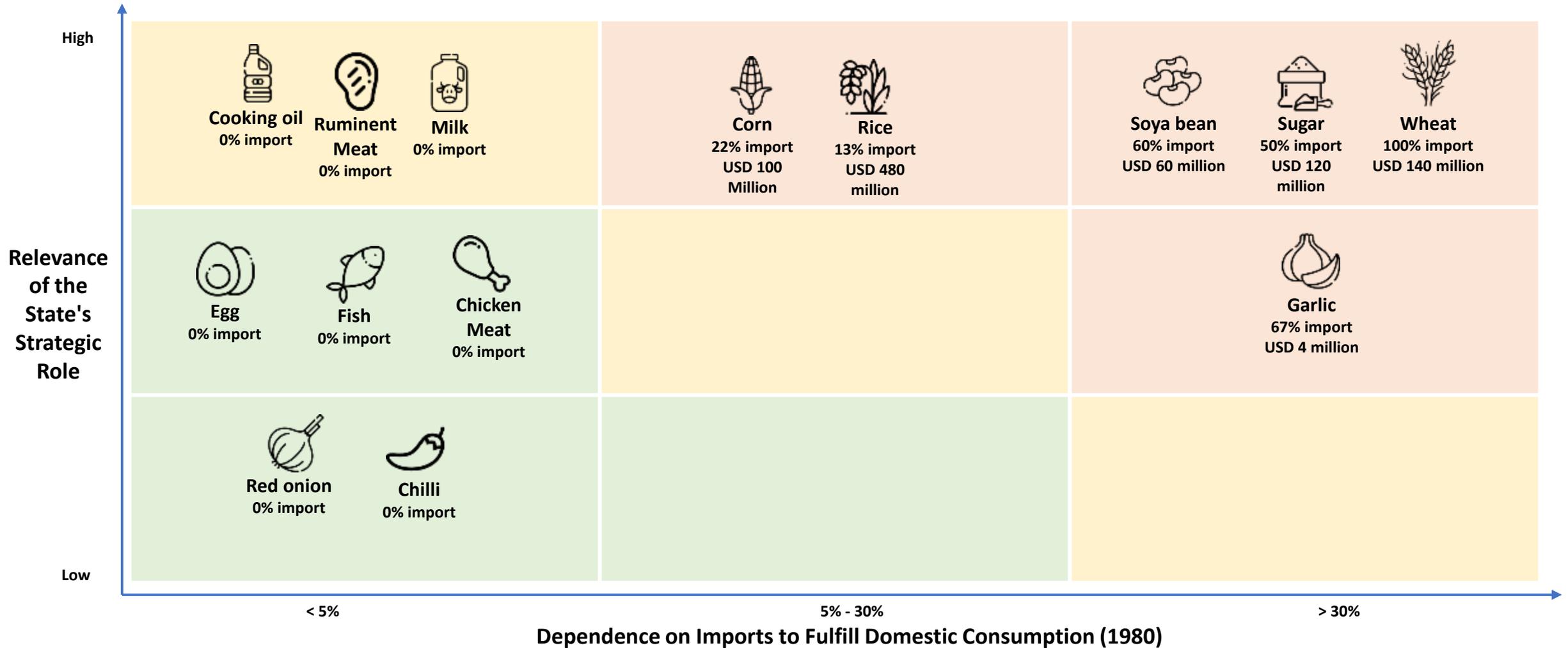
² assumption 1 egg is 0.05 Kg and 1 liter of milk is 1.03 Kg

History of Indonesian food consumption (1/2)



Background

National Food Balance: 1980



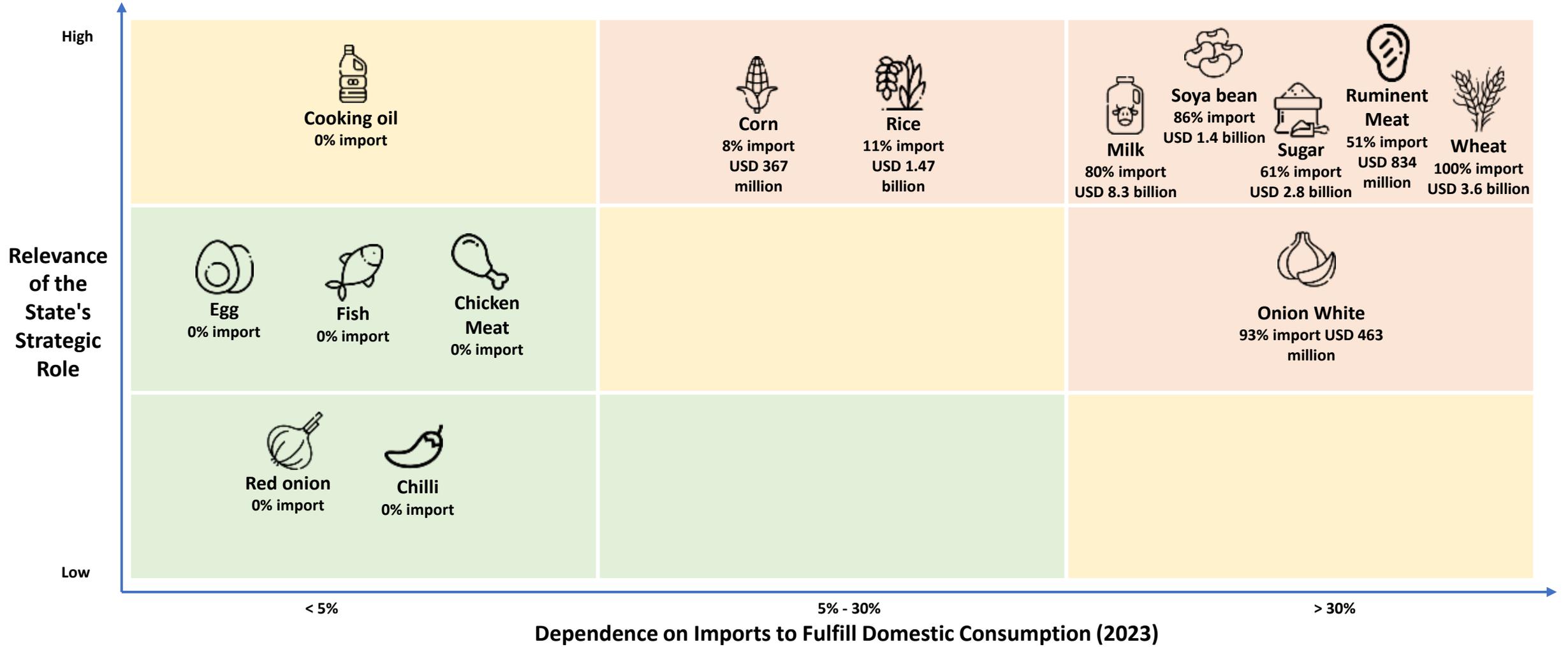
The relevance of the strategic role of the state considers:

- The amount of foreign exchange required to facilitate imports.
- The number of farmers involved in the food ecosystem.
- The contribution of price sensitivity to inflation and domestic political conditions.

- High need for intervention
- Intermediate need for intervention
- Low need for intervention

Background

National Food Balance: 2023



Relevance of the State's Strategic Role Considers:

- The amount of foreign exchange required to facilitate imports.
- The number of farmers involved in the food ecosystem.
- The contribution of price sensitivity to inflation and domestic political conditions.

- High need for intervention
- Intermediate need for intervention
- Low need for intervention

Commodity Outlook : Meat

- The consumption of ruminant meat in Indonesia in 2022 was approximately 3.66 kg per capita.
- Indonesia's consumption level is significantly lower compared to the average consumption trend in Asian countries (8.66 kg per capita) and the global average (7.15 kg per capita) for countries with similar GDP levels.

Scenarios and Projections for Meat Consumption in Indonesia

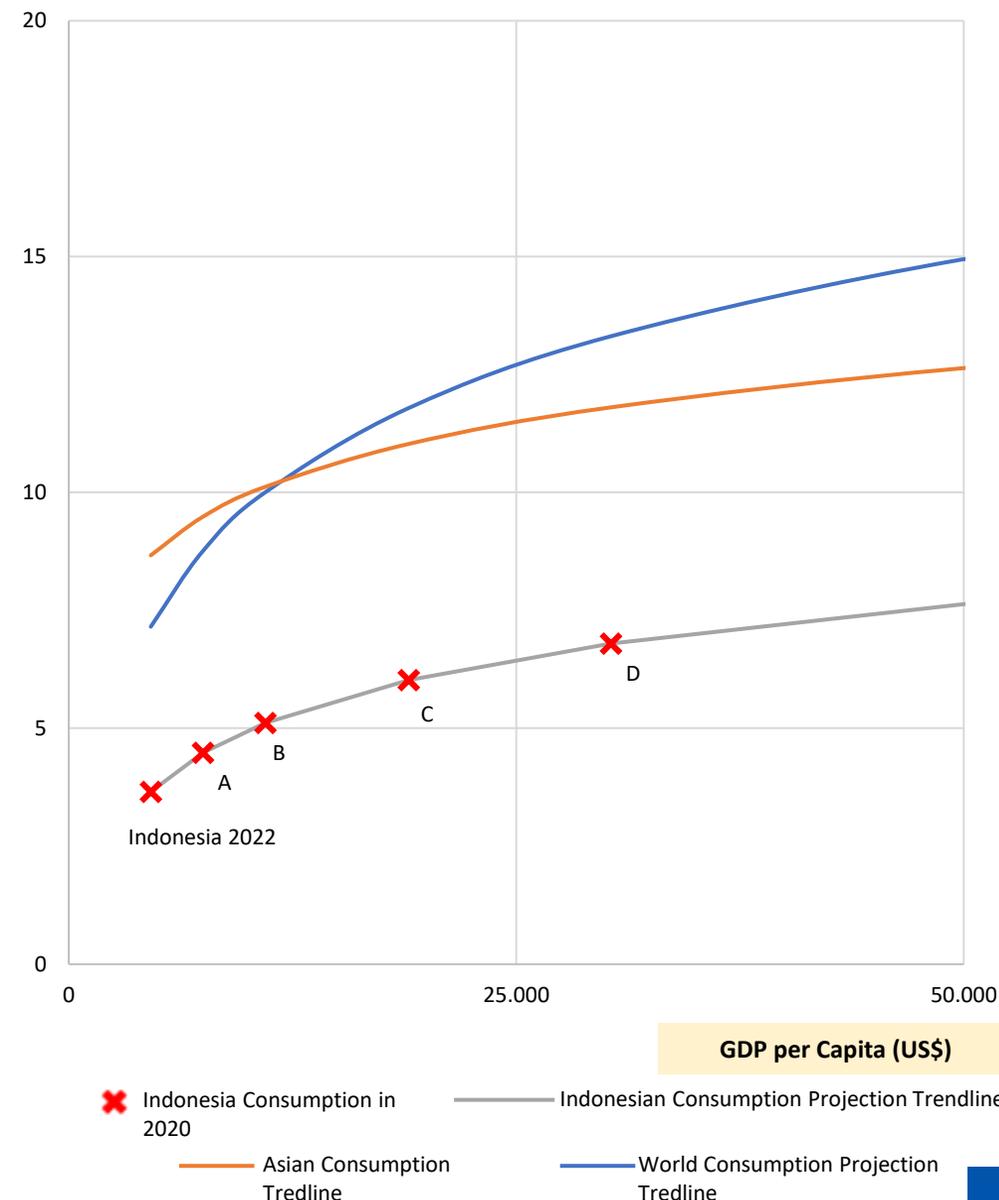
Scenario	Year	GDP/ Capita (US\$)	World Consumption Trends per Capita (Kg)	Asia Consumption Trends per Capita (Kg)	Indonesia Consumption per Capita (Kg)
Beginning	2022	4,580	7.15	8.66	3.66
A	2029	7,500	8.76	9.48	4.48
B	2034	11,000	10.01	10.12	5.12
C	2039	19,000	11.79	11.03	6.02
D	2045	30,300	13.31	11.80	6.80

Balance Sheet of Production-Consumption in Indonesia

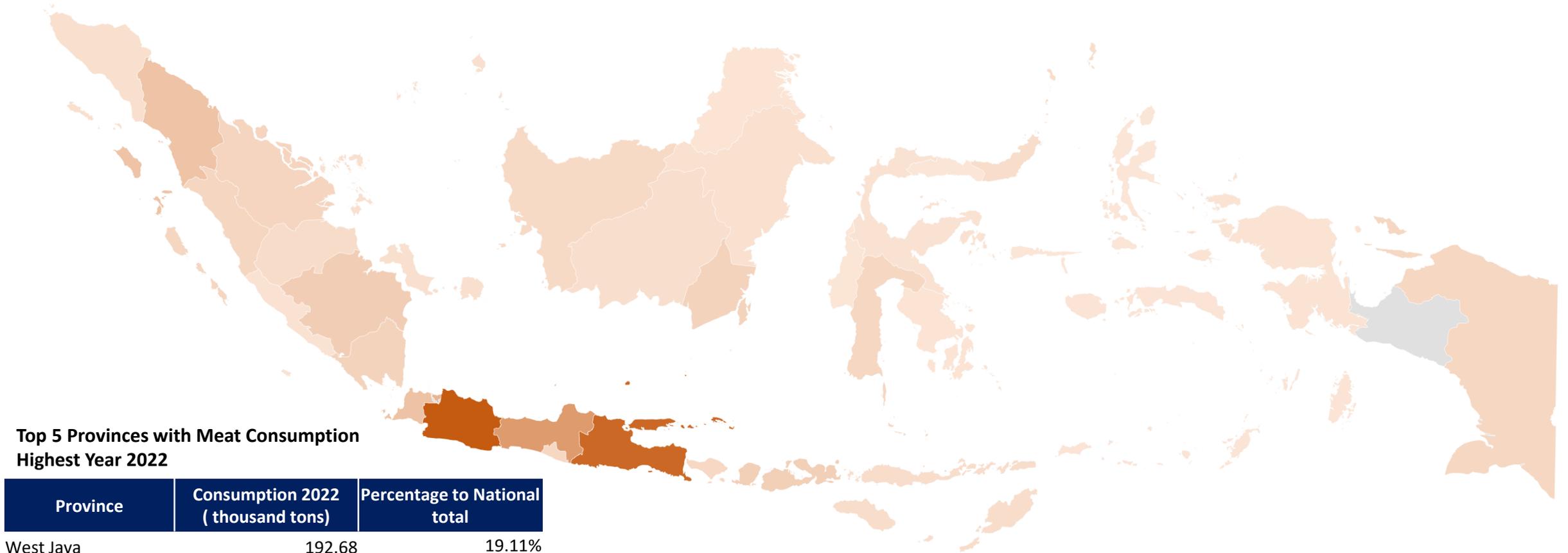
Scenario	Year	National Consumption / Year (Thousand Tons)	CAGR Consumption per Period	Balance Sheet Production-Consumption 2022 (thousand tons)	CAGR Consumption 2020-2045
Beginning	2022	1,008.51		(508.80)	
A	2029	1,332.38	2.82%	(832.67)	3.05%
B	2034	1,577.55	2.86%	(1,077.84)	
C	2039	1,910.84	3.25%	(1,411.13)	
D	2045	2,203.11	2.40%	(1,703.40)	

Ruminants Meat National Production in 2022 (Thousand Tons)	499.71
CAGR of Production Over the Last 5 Years	0.07%
CAGR of Consumption for the Next 20 Years	3.05%

Consumption per Capita (Kg) Ruminants Meat Consumption Trends vs GDP per Capita



Meat Consumption in Indonesia in 2022

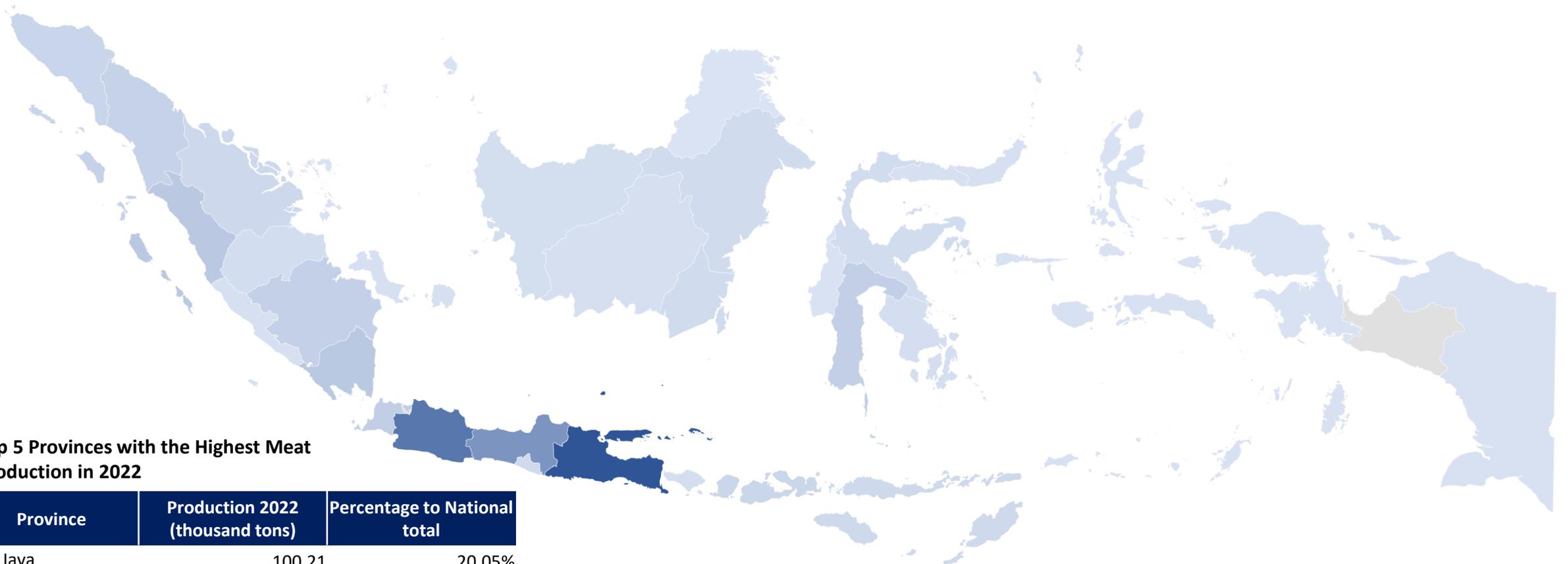


Top 5 Provinces with Meat Consumption Highest Year 2022

Province	Consumption 2022 (thousand tons)	Percentage to National total
West Java	192.68	19.11%
East Java	172.83	17.14%
Central Java	103.69	10.28%
Jakarta	68.35	6.78%
Banten	49.01	4.86%
Total Top 5	586.56	58.16%
Nationwide Total	1,008.52	100.00%

Source : processed from Situation Consumption National Food 2023 , Bapanas (2024).

Meat Production in Indonesia in 2022

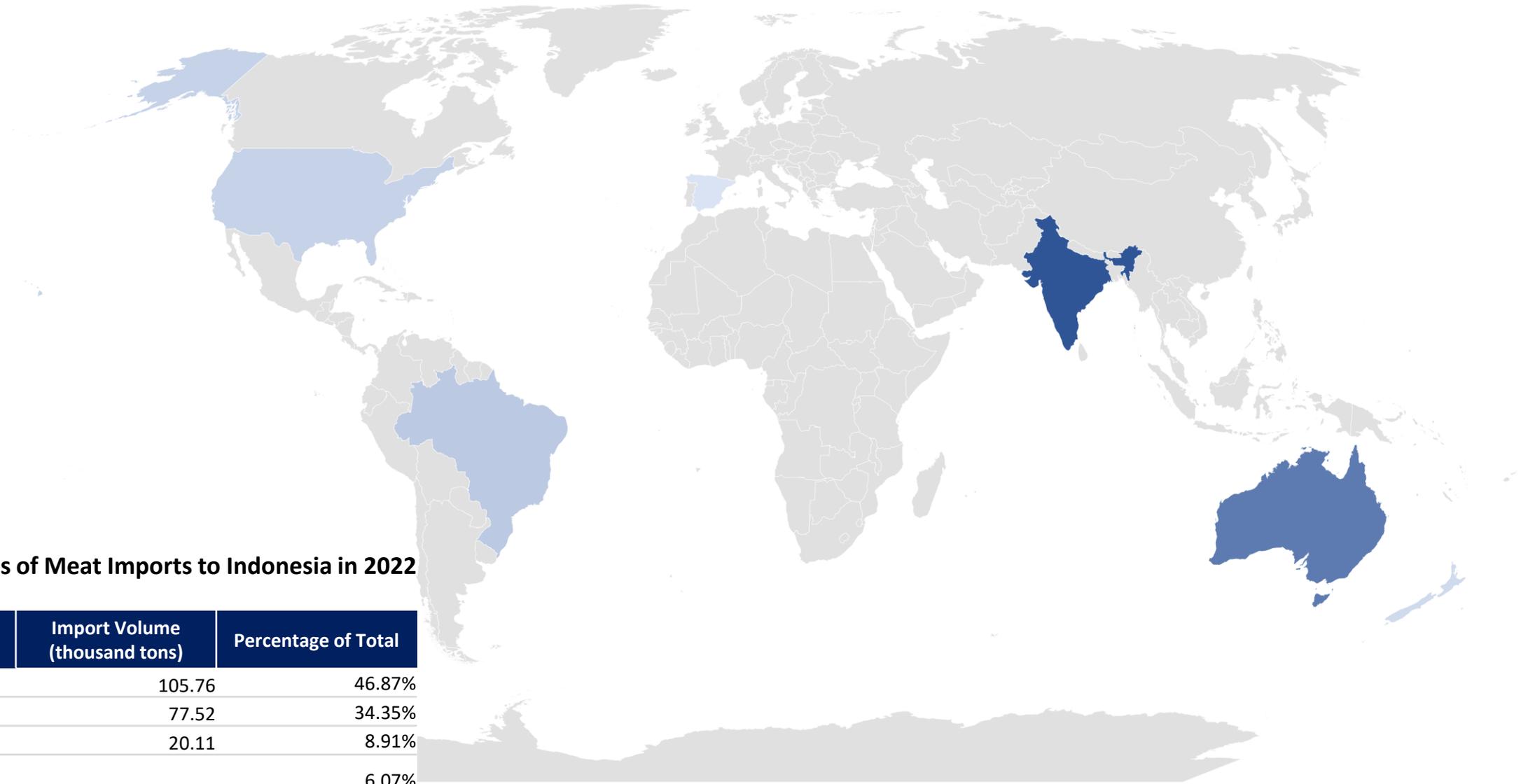


Top 5 Provinces with the Highest Meat Production in 2022

Province	Production 2022 (thousand tons)	Percentage to National total
East Java	100.21	20.05%
West Java	72.44	14.50%
Central Java	68.25	13.66%
West Sumatra	30.89	6.18%
Lampung	21.89	4.38%
Total Top 5	293.68	58.77%
Nationwide Total	499.71	100.00%

Source: Processed from Indonesian Statistics 2024, Central Bureau of Statistics (2024).

Meat Import Origins to Indonesia in 2022



Top 5 Countries of Meat Imports to Indonesia in 2022

Province	Import Volume (thousand tons)	Percentage of Total
India	105.76	46.87%
Australia	77.52	34.35%
Brazil	20.11	8.91%
United States of America	13.69	6.07%
New Zealand	7.41	3.29%
Total Top 5	224.49	99.48%
Total Imports	225.65	100.00%

Source : processed from Indonesian Statistics 2024, Central Statistics Agency

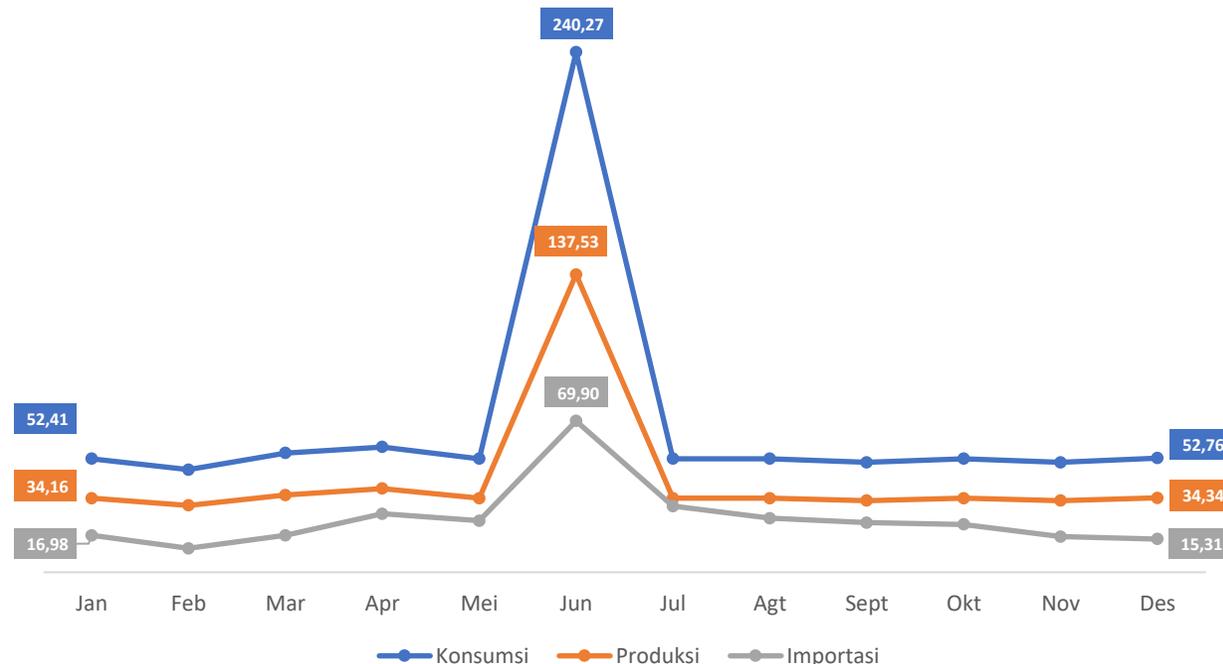
Monthly Balance of Meat in 2022

Production , Consumption and Importation January - December (in thousands of tons)

Month	Consumption	Production	Importation
Jan	52.41	34.15	16.98
Feb	47.33	30.85	11.02
Mar	55.09	35.61	17.02
Apr	57.84	38.65	26.97
May	52.41	34.15	23.78
June	240.26	137.52	69.90
Jul	52.41	34.15	30.53
Aug	52.41	34.15	24.90
September	50.71	33.05	22.85
Oct	52.41	34.15	22.07
Nov	50.71	33.05	16.46
Dec	52.75	34.34	15.31
TOTAL	816.79	513.87	297.84

- Consumption and production of ruminant meat remained fairly consistent throughout the year, with consumption levels generally higher than production.
- Significant increases in consumption and production occurred during the Eid al-Fitr and Eid al-Adha periods, where consumption rose up to 5 times, and production increased 4 times.
- End-of-year stock reserves were maintained to stabilize prices and ensure availability.

Production , Consumption and Importation January - December



Commodity Outlook : Chicken Meat

- Consumption chicken meat in Indonesia in 2022 around 8.57 kg/ capita . Indonesia's consumption is far more low compared to with trend consumption of Asian countries (19.74 kg/ capita) and trend world consumption (14.98 kg/ capita) for countries with similar GDP .

Consumption Chicken Meat Scenarios and Projections of Indonesian

Scenario	Year	GDP/ Capita (US\$)	World Consumption Trends per Capita (Kg)	Asia Consumption Trends per Capita (Kg)	Indonesia Consumption per Capita (Kg)
Beginning	2022	4,580	14.98	19.74	8.57
A	2029	7,500	19.15	20.76	9.59
B	2034	11,000	22.39	21.55	10.38
C	2039	19,000	27.01	22.67	11, 50
D	2045	30,300	30.96	23.63	12.47

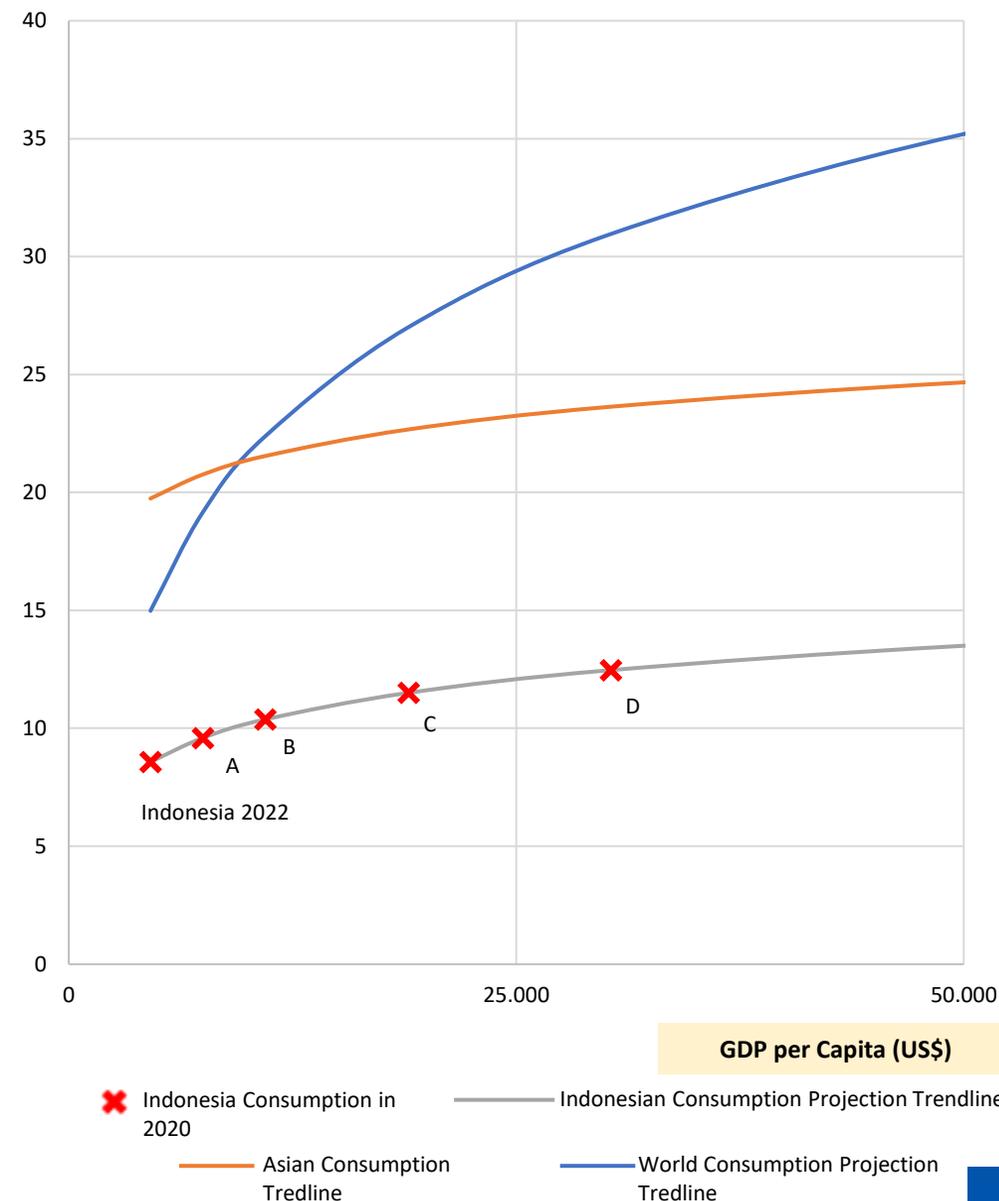
Balance Sheet of Production-Consumption in Indonesia

Scenario	Year	National Consumption / Year (Thousand Tons)	CAGR Consumption per Period	Balance Sheet Production – Consumption 2022 (thousand tons)	CAGR Consumption 2020-2045
Beginning	2022	2,364.13		1,581.48	
A	2029	2,851.97	1.89%	1,093.64	2.08%
B	2034	3,200.27	1.94%	745.34	
C	2039	3,649.54	2.21%	296.07	
D	2045	4,039.68	1.71%	(94,074)	

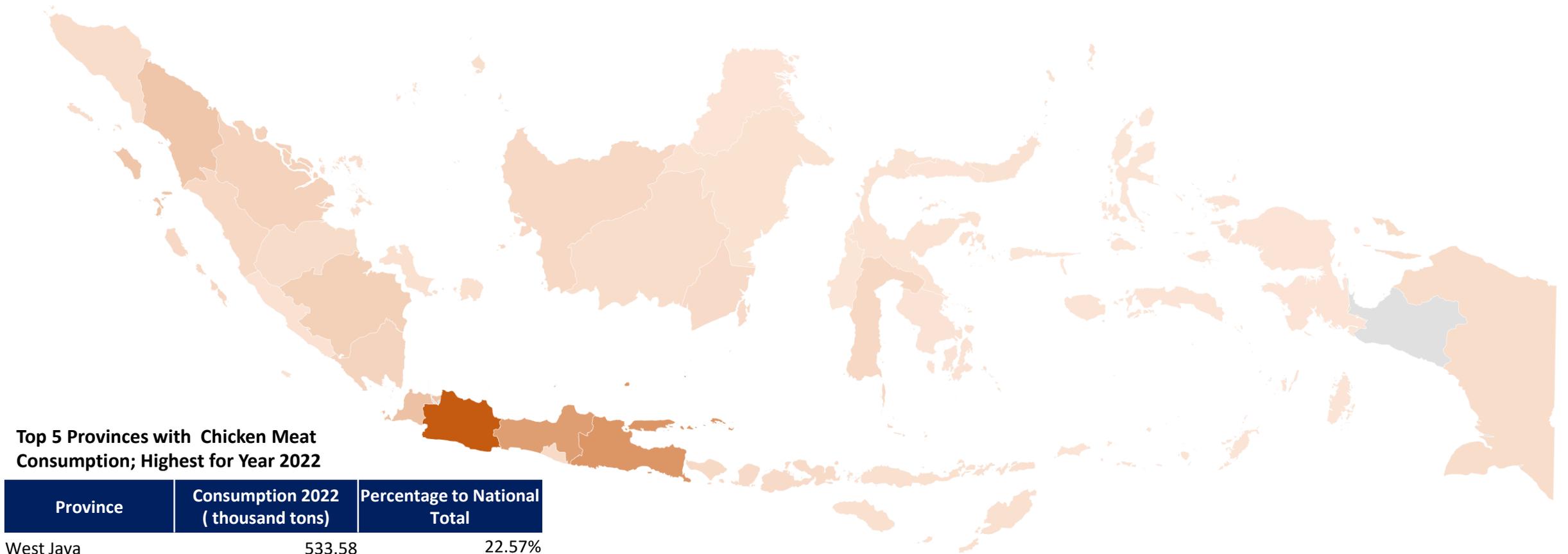
National Production of Chicken Meat in 2022 (Thousand Tons)	3,765.57
CAGR of Production Over the Last 5 Years	2.01%
CAGR of Consumption for the Next 20 Years	2.08%

Consumption per Capita (Kg)

Trends Consumption Chicken Meat vs GDP per Capita



Chicken Meat Consumption in Indonesia in 2022



Source : processed from Situation Consumption National Food 2023 , Bapanas (2024).

Chicken Meat Production in Indonesia in 2022



Top 5 Provinces Producer Chicken Meat Highest Year 2022

Province	Production 2022 (thousand tons)	Percentage to National Total
Central Java	742.95	19.73%
West Java	733.98	19.49%
East Java	586.70	15.58%
Banten	195.90	5.20%
North Sumatra	193.13	5.13%
Total Top 5	2,452.66	65.13%
National Total	3,765.57	100.00%

Source : processed from Indonesian Statistics 2024, Central Statistics Agency (2024).

Monthly Balance of Chicken Meat 2022

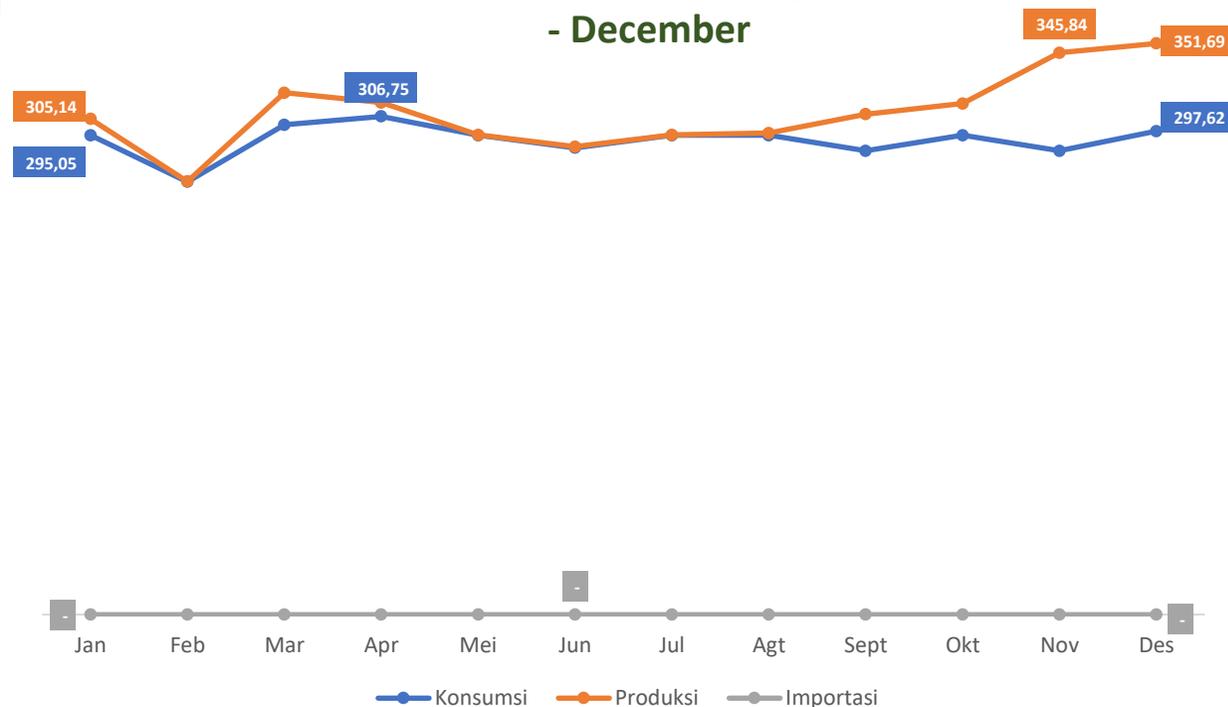
Production , Consumption and Importation January - December

(in thousands of tons)

Month	Consumption	Production	Importation
Jan	295.05	305.14	-
Feb	266.49	266.63	-
Mar	301.52	321.31	-
Apr	306.75	315.20	-
May	295.05	295.24	-
June	287.34	288.05	-
Jul	295.05	295.24	-
Aug	295.05	296.46	-
September	285.53	308.13	-
Oct	295.05	314.60	-
Nov	285.53	345.84	-
Dec	297.62	351.69	-
TOTAL	3,506*	3,704	0

- **Consumption and production** meat cow Enough consistent throughout year , with mark more consumption low compared to production .
- **Improvement production** happened in the lead up to end year with improvement about 15% of the monthly average previously .
- **Improvement consumption** occurred in the period Eid fitri and Christmas, even though thus mark consumption Still balanced with production .

Production , Consumption and Importation January - December



Chicken Meat Balance Sheet: 2022

sorted based on highest deficit

Province	Production 2022 (thousand tons)	Consumption 2022 (Thousand Tons)	Balance Sheet
Jakarta	2.22	134.57	-132.35
Papua	11.89	32.26	-20.36
Kep , Riau	22.89	28.77	-5.88
Bengkulu	11.63	16.89	-5.27
Maluku	1.06	5.08	-4.02
West Papua	2.86	5.56	-2.71
North Maluku	1.22	2.90	-1.68
North Kalimantan	6.34	6.91	-0.58
North Sulawesi	15.37	13.30	2.08
Islands , Bangka			
Belitung	24.53	21.07	3.46
Central Kalimantan	37.67	32.89	4.78
Gorontalo	9.79	5.01	4.78
East Nusa Tenggara	28.12	22.41	5.71
West Sulawesi	9.52	3.65	5.87
Central Sulawesi	18.15	10.12	8.03
West Nusa Tenggara	49.84	39.96	9.88
West Sumatra	61.28	50.77	10.52
Southeast Sulawesi	22.49	8.92	13.57
Aceh	50.73	33.53	17.20
Jambi	57.49	38.13	19.37

Province	Production 2022 (thousand tons)	Consumption 2022 (Thousand Tons)	Balance Sheet
West Kalimantan	70.83	50.98	19.85
DI Yogyakarta	67.56	41.76	25.81
Riau	100.71	74.74	25.97
South Sumatra	129.57	84.84	44.74
Bali	93.78	45.48	48.30
South Sulawesi	107.07	52.59	54.48
Lampung	122.81	67.91	54.90
East Kalimantan	72.25	15.83	56.42
South Kalimantan	114.60	43.08	71.53
North Sumatra	195.61	122.43	73.17
Banten	232.46	139.67	92.79
East Java	560.40	304.51	255.89
West Java	900.70	533.58	367.12
Central Java	732.16	274.04	458.12
TOTAL	3,945.61	2,364.12	1,581.49

Commodity Outlook : Rice

- Consumption rice in Indonesia in 2022 around **94.08 kg/ capita** .
- Indonesia's consumption is more higher compared with consumption of Asian countries trend (**69.46 kg/ capita**) and world consumption trend (**54.93 kg/ capita**) for countries with similar GDP .

Scenarios and Projections Indonesian Rice Consumption

Scenario	Year	GDP/ Capita (US\$)	Trends World Consumption per Capita (Kg)	Trends Asia per Capita Consumption (Kg)	Consumption per Capita Indonesia (Kg)
Beginning	2022	4,580	54.93	69.46	94.08
A	2029	7,500	48.78	61.39	86.01
B	2034	11,000	44.01	55.12	79.74
C	2039	19,000	37.19	46.17	70.79
D	2045	30,300	31.37	38.53	63.15

Balance Sheet Production – Consumption in Indonesia

Scenario	Year	National Consumption / Year (Thousand Tons)	Consumption CAGR per Period	Balance Sheet Production – Consumption 2022 (thousand tons)	Consumption CAGR 2020-2045
Beginning	2022	25,945.95		5,594.57	
A	2029	25,582.07	(0.18%)	5,958.45	
B	2034	24,589.67	(0.66%)	6,950.85	(0.91%)
C	2039	22,457.94	(1.50%)	9,082.58	
D	2045	20,465.01	(1.54%)	11,075.51	

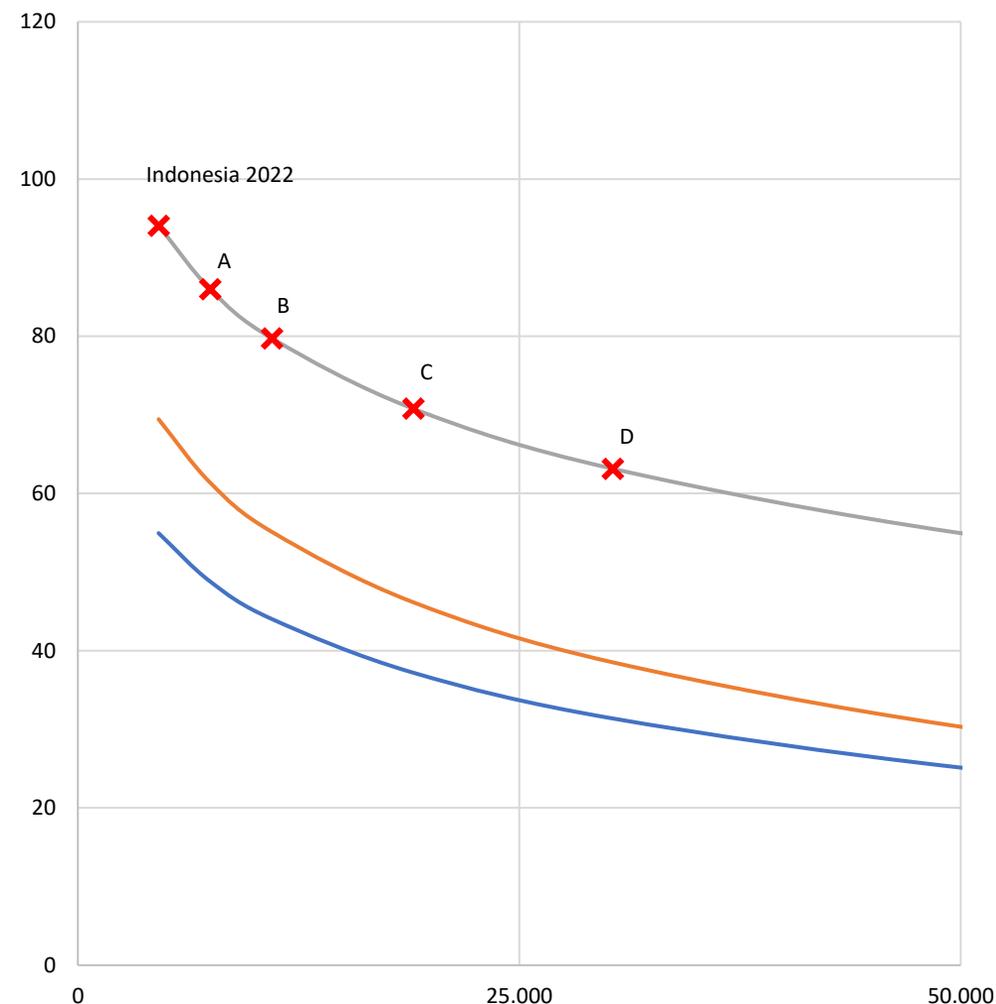
National Production of Rice in 2022 (Thousand Tons) **31,540.52**

CAGR of Production Over the Last 5 Years **(1.46%)**

CAGR of Consumption for the Next 20 Years **(0.91%)**

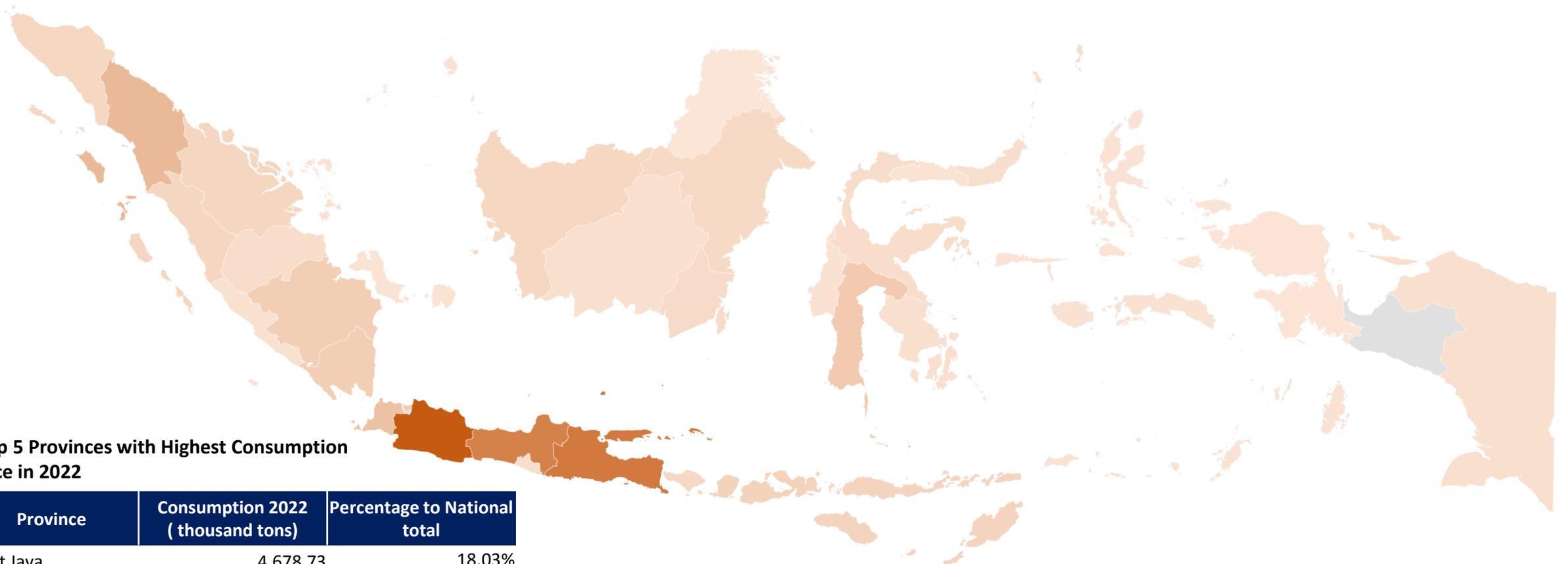
Consumption per Capita (Kg)

Trends Consumption Rice vs GDP per Capita



✕ Indonesia Rice Consumption in 2020
 — Indonesian Consumption Projection Trendline
— Asian Consumption Trendline
 — World Consumption Projection Trendline

Rice Consumption in Indonesia in 2022



Top 5 Provinces with Highest Consumption Rice in 2022

Province	Consumption 2022 (thousand tons)	Percentage to National total
West Java	4,678.73	18.03%
East Java	3,633.55	14.00%
Central Java	3,336.62	12.86%
North Sumatra	1,502.45	5.79%
Banten	1,237.45	4.77%
Total Top 5	14,388.80	55.46%
National Total	25,945.95	100.00%

Source : processed from Situation Consumption National Food 2023 , Bapanas (2024).

Rice Production in Indonesia in 2022



Top 5 Provinces Highest Rice Producer in 2022

Province	Production 2022 (thousand tons)	Percentage to National total
East Java	5,500.80	17.44%
West Java	5,447.81	17.27%
Central Java	5,380.51	17.06%
South Sulawesi	3,075.86	9.75%
South Sumatra	1,593.60	5.05%
Total Top 5	20,998.58	66.58%
National Total	31,540.52	100.00%

Source : processed from Indonesian Statistics 2023, Central Statistics Agency

(2023)

Monthly Balance Sheet of Rice Commodity in 2023 and 2024

(Million Tons of Rice)

Production and Consumption January - December

Month	Prod 2023	Prod 2024	Cons 2023	Cons 2024	Surplus/ Deficit 2023	Surplus/ Deficit 2024
Jan	1.34	0.87	2.54	2.56	-1.20	-1.69
Feb	2.85	1.39	2.54	2.57	0.31	-1.18
Mar	5.13	3.43	2.54	2.57	2.59	0.86
Apr	3.66	5.38	2.55	2.57	1.11	2.81
May	2.86	3.71	2.55	2.57	0.31	1.14
June	2.79	2.10	2.55	2.58	0.24	-0.48
Jul	2.48	2.05	2.55	2.58	-0.07	-0.52
Ags	2.52	2.95	2.55	2.58	-0.03	0.37
Sep	2.52	3.05	2.56	2.58	-0.04	0.47
Oct	2.19	2.54	2.56	2.58	-0.36	-0.04
Nov	1.62	1.71	2.56	2.59	-0.95	-0.88
Dec	1.14	1.17	2.56	2.59	-1.43	-1.42
Total	31.10	30.35	30.61	30.91	0,48	-0.56
Difference Production '24 -'23		-0.75		0.30	Difference (Prod - Cons)	-1.04
		-2.41%		0.98%		-216.66%

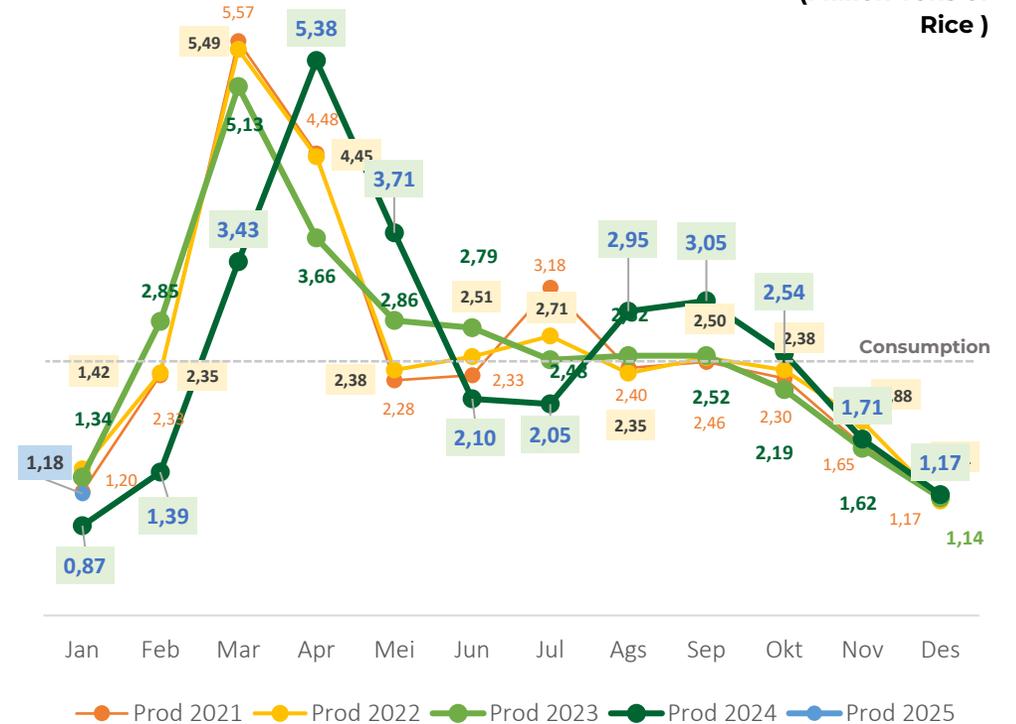


Highlights:

- **Total production** rice Jan – Dec 2024: **30.35 million tons, lower 750 thousand tons or (2.41%)** compared to the same period in 2023 .
- **Total consumption** rice Jan – Dec 2024 : **30.91 million tons, higher 300 thousand tons or (0.98%)** compared to the same period in 2023 .
- **Balance Sheet production - consumption** Jan – Dec 2024 : **560 thousand tons , lower 1.04 million tons or (216.66%)** compared to the same period in 2023 .

Production Rice Comparison January - December 2021 - 2024

(Million Tons of Rice)



Production of rice in August until October 2024 **is higher** compared to with same month in 3 years prior .

Rice Balance Sheet: 2022

sorted based on deficit highest

Province	Production 2022 (thousand tons)	Consumption 2022 (Thousand Tons)	Balance Sheet
Jakarta	1.38	954.79	-953.41
Riau	122.56	568.18	-445.62
North Sumatra	1,198.05	1,502.45	-304.40
East Kalimantan	139.27	431.14	-291.87
Banten	1,018.65	1,237.45	-218.80
Kep , Riau	0.29	178.09	-177.80
East Nusa Tenggara	442.84	610.59	-167.74
Jambi	160.67	319.90	-159.23
Papua	110.74	262.46	-151.73
North Sulawesi	136.96	277.92	-140.96
Maluku	51.86	162.39	-110.53
Bali	383.83	494.05	-110.22
North Maluku	13.70	113.99	-100.28
Islands , Bangka			
Belitung	36.41	127.34	-90.93
West Kalimantan	432.59	518.12	-85.53
West Papua	14.40	95.49	-81.09
Central Kalimantan	204.29	251.36	-47.07
North Kalimantan	18.10	60.70	-42.60
Bengkulu	162.20	202.92	-40.72
Southeast Sulawesi	275.06	270.98	4.08

Province	Production 2022 (thousand tons)	Consumption 2022 (Thousand Tons)	Balance Sheet
Gorontalo	134.08	122.25	11.83
DI Yogyakarta	319.06	303.21	15.85
West Sulawesi	203.03	163.65	39.38
South Kalimantan	484.83	391.44	93.39
Central Sulawesi	439.41	322.55	116.86
West Nusa Tenggara	827.53	650.28	177.25
West Sumatra	795.31	562.37	232.94
Aceh	869.57	534.30	335.27
Lampung	1,545.30	826.81	718.48
South Sumatra	1,593.60	825.01	768.59
West Java	5,447.81	4,678.73	769.08
East Java	5,500.80	3,633.55	1,867.26
Central Java	5,380.51	3,336.62	2,043.89
South Sulawesi	3,075.86	954.87	2,120.99
TOTAL	31,540.52	25,945.95	5,594.57

Varieties local rice that is consumed by Indonesians



Pera (IR42) Rice



Rojolele Rice



Red rice



Fragrant Pandan Rice



Black Rice



Milk Fragrance Mentik Rice



C4 Rice



Brown Rice



Rice varieties imported to Indonesia

Ponnie Rice



Price:
Rp. 32,500 / kg
Planting Period :
120 days
Origin :
Tamil Nadu, India
Suitable For :
Liwet rice , uduk rice,
yellow rice .

Japanese Rice



Price:
Rp. 38,000 / kg
Planting Period :
105 days
Origin :
Japan
Suitable For :
Sushi, onigiri.

Sticky rice Rice



Price:
Rp. 23,500 / kg
Planting Period :
120 days
Origin :
Southeast & East Asia
Suitable For :
Wingko , jadah ,
porridge sticky rice ,
mango sticky rice,
lemper .

Jasmine Rice



Price:
Rp. 18,000 / kg
Planting Period :
120 days
Origin :
Thailand & East Asia
Suitable For :
Pad Thai, Hotpot Pot
Chicken Rice.

Basmati Rice



Price:
Rp. 30,000 / kg
Planting Period :
145 days
Origin :
India, Pakistan
Suitable For :
Served with Middle
Eastern cuisine

Ponnie Rice



Price:
Rp. 31,000 / kg
Planting Period :
100 days
Origin :
Kerala, India
Suitable For :
Pudding , fried rice,
salad

Setra Ramos (IR 64) Rice



Price:
Rp. 16,100 / kg
Planting Period :
110 days
Origin :
Los Banos, Philippines
Suitable For :
Suitable For daily food



Free Nutritious Meal Program

Meal Pick Up



Communal Eating



Source : Indonesia Food Security Review (IFSR) based on the MBG Pilot Service Unit Sukabumi

Lighthouse Quick-Win Program (QWP): Free Nutritious Meal



Menu



Menu

- Nasi
- Ayam goreng
- Sayur labu wortel
- Jeruk
- Susu UHT 200 ml

Kandungan gizi :

- Energi : 586 kcal
- Protein : 26,06 gr
- Lemak : 18,19 gr
- Karbohidrat : 102,17 gr



Menu

- Nasi
- Ikan tp bb adom manis
- Acar timun wortel
- Jeruk
- Susu UHT 200 ml

Kandungan gizi :

- Energi : 621 kcal
- Protein : 29,31 gr
- Lemak : 23,19 gr
- Karbohidrat : 98,02 gr



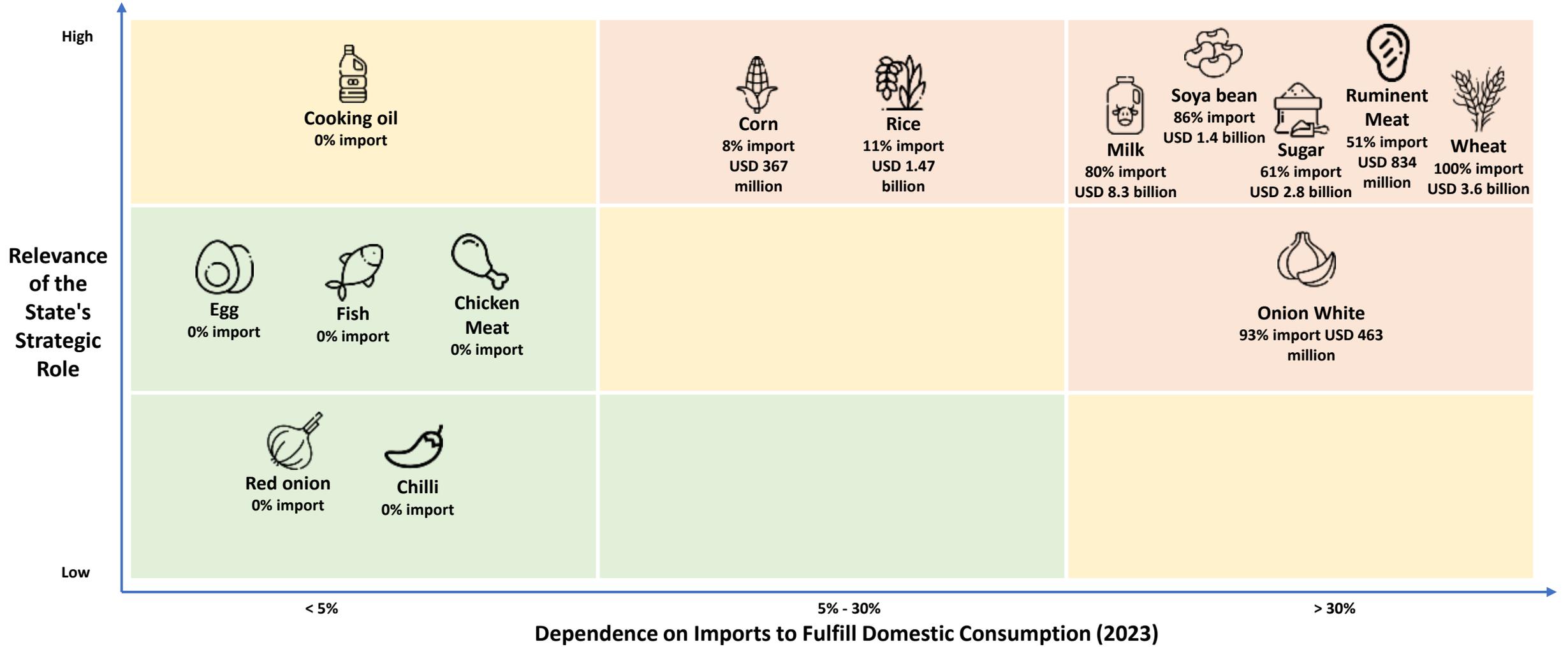
Proposed Free Nutritious Meal Menu

	Area 1 Majority of Sumatra	Area 2 Mentawai	Area 3 Riau & Babel	Area 4 Kalimantan	Area 5 Banten to Central Java
Carbohydrate	Rice	Sago , Taro, Taro	Sago	Taro, Cassava	Rice, Corn
Side dish	Meat Chicken , Tofu	Shrimp , Fish	Shrimp , Fish	Fish, Meat Cow	Meat Chicken
Fruit	Mangosteen, Papaya	Banana, Jackfruit, Durian	Papaya , Durian, Pineapple	Banana, Rambutan, Orange	Papaya , Orange
Vegetables	Water Spinach , Carrots , Mustard	Leaf Pawpaw	Water Spinach , Cucumber , Eggplant	Carrots , Mustard Greens , Water Spinach	Beans , Pumpkin

	Area 6 From Yogyakarta to East Java	Area 7 Bali	Area 8 NTB & NTT	Area 9 Sulawesi	Area 10 Maluku	Area 11 Papua
Carbohydrate	Rice, Corn , Cassava	Rice	Corn , Sorghum	Cassava , Sago , Corn	Sago , Cassava , Corn	Sago , Cassava , Sweet Potato
Side dishes	Shrimp , Fish, Eggs , Meat	Fish, Tofu	Meat Beef , Meat Poultry	Fish, Meat Beef , Tofu	Fish, Meat Cow	Fish, Meat Beef , Legumes
Fruit	Mango, Avocado , Dragon Fruit	Salak , Orange , Banana, Mango	Orange , Banana, Papaya	Orange Tangerine , Banana, Mango, Papaya	Banana, Mango, Orange , Papaya	Matoa , Avocado , Guava, Duku , Mango
Vegetables	Cabbage , Long Beans , Carrots	Water spinach , green beans , mustard greens	Leaf Moringa , Eggplant , Papaya	Long Beans , Eggplant , Water Spinach	Bitter Melon, Eggplant , Water Spinach	Beans , Papaya Flowers

Background

National Food Balance: 2023



Relevance of the State's Strategic Role Considers:

- The amount of foreign exchange required to facilitate imports.
- The number of farmers involved in the food ecosystem.
- The contribution of price sensitivity to inflation and domestic political conditions.

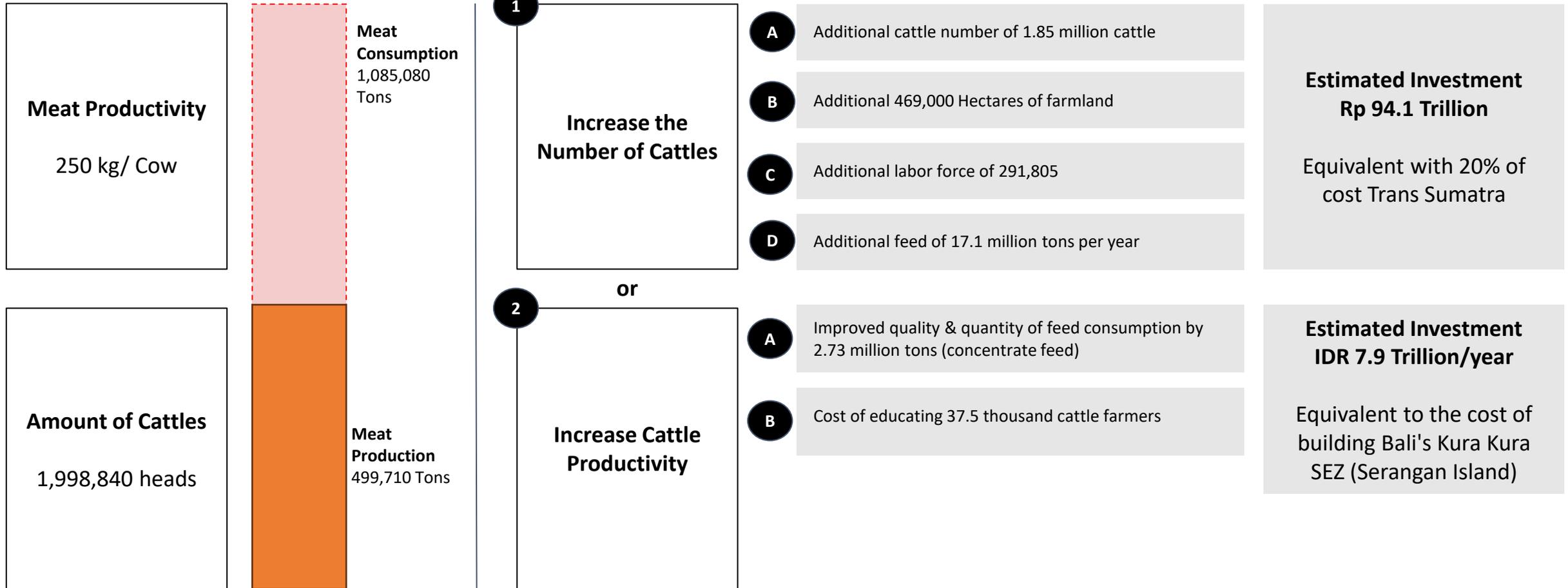
- High need for intervention
- Intermediate need for intervention
- Low need for intervention

Investment Requirement for Meat Self Sufficiency

Increase in production to ~500,000 tons per year from current ~500,000 tons per year (~2x increase)



Commodity
Cow Meat 2022



Investment Requirement for Dairy Self-Sufficiency

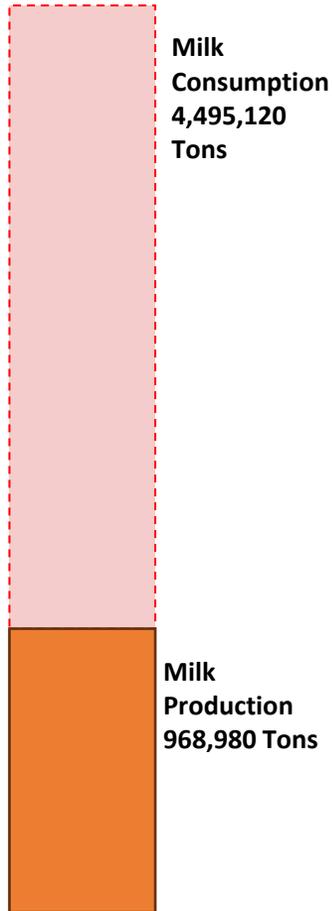
Increased production of ~3,500,000 tons per year from current ~960,000 tons per year (~3.6x increase)



Commodity
Cow Milk 2022

Annual Productivity
1.6 Ton Milk/Cow

Amount of Cows
592,897 heads



Strategy

1
Increase Number of Cows

or

2
Improve Cow Productivity

Factor Production

- A Additional cows as much as **2.13 Million Heads**
- B Addition land farm as wide as **213 . 000 Hectare**
- C Additional workforce of **426 000**
- D Addition feed as much as **7.14 Million Tons**
- E Addition consumption of electricity **705,030,000 kWh**

- A Improvement quality & quantity consumption 3x more
- B Training for farmers small , due to 90% of the population cow owned by the small farmer.

Estimate Investment

Estimated Investment Rp175.45 Trillion
Equivalent to 2x Jakarta-Bandung Fast Train Project

Estimated Investment IDR 74.7 Trillion/year
Equivalent to 2x the value of the PIK 2 project

Investment Requirement for Cassava (Wheat Substitute) Self-sufficiency

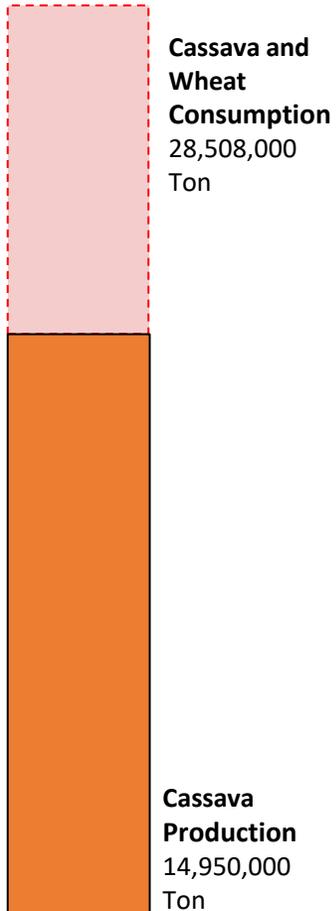
Increase in production to ~13,500,000 tons per year from current ~15,000,000 tons per year (~2x increase)



Commodity
Cassava and Wheat 2022

**Annual Cassava
Land Productivity**
27 Tons / Ha

**Cassava
Agriculture Land
area**
549,250 hectares



Strategy

1
Land Expansion

or

2
**Productivity
Improvement**

Production Factor

- A Opening of 400,368 Hectares of new land
 - B An additional workforce of 2,000,000
 - C Fertilizing 400,368 Hectares of new land
 - D Purchase of new seedlings around 4,003,680,000 seedlings
- A A 1.1-fold increase in the quality & quantity of feed & nutrition consumption

Investment Estimate

**Estimated Investment
Rp 7.6 Trillion**

Equivalent to Cisumdawu
Toll Road project

**Estimate Investment
Rp 1.1 Trillion / year**

Equivalent to Yogyakarta -
Kulonprogo Airport Access
Railway project

Investment Requirement for Sugar Self-Sufficiency

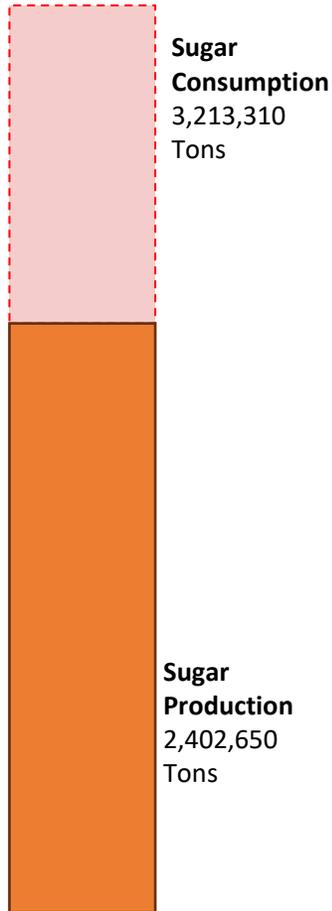
Increase production by ~800,000 tons per year from current ~2,400,000 tons per year (~0.3x increase)



Commodity
Sugar 2022

Productivity Annual
5 Tons of Sugar/
Hectare

Land
488,982 Hectares



Strategy

1
Land Expansion

or

2
Productivity Improvement

Production Factor

- A** Opening land new as wide as **162.132** Hectare
 - B** Addition as many field workers as **32,426**
 - C** Fertilization of new land covering an area of **162,132** hectares
- A** Additional fertilizer & nutrient costs for **488,982** hectares of land with a productivity target of 6.6 tons/Ha

Estimated Investment

Estimated Investment
Rp 4.05 Trillion

Equivalent to the cost of the Jakarta International Stadium project

Estimated Investment IDR
489 Billion / year

Equivalent to Indofood's advertising and promotion costs for 1 quarter.