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**Economic Policies and Their Influence on Livestock  
Market Dynamics**



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## Economic Policies and Their Influence on Livestock Market Dynamics

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### Abstract

**Purpose:** The general objective of the study was to explore the economic policies and their influence on livestock market dynamics.

**Methodology:** The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

**Findings:** The findings reveal that there exists a contextual and methodological gap relating to economic policies and their influence on livestock market dynamics. Preliminary empirical review revealed that fiscal policies, such as subsidies and tax incentives, play a crucial role in reducing production costs and stabilizing market supply. Likewise, monetary policies, including interest rate adjustments, influence investment and innovation within the sector. Trade policies, such as tariffs and free trade agreements, affect market competitiveness and access to international markets. Regulatory policies concerning animal health and environmental protection ensure product quality and consumer confidence. The study emphasizes the need for balanced and well-designed policies across all these areas to support the sustainable growth of the livestock industry.

**Unique Contribution to Theory, Practice and Policy:** Keynesian Economic Theory, Neoclassical Economic Theory and Institutional Economic Theory may be used to anchor future studies on economic policies and their influence on livestock market dynamics. The study significantly advances theoretical understanding by elucidating the intricate relationship between economic policies and livestock market dynamics. It recommends further exploration into the interplay of fiscal, monetary, trade, and regulatory policies to develop comprehensive models predicting market behavior accurately. Practically, the study advises livestock producers to adopt adaptive management practices, staying informed about policy changes and implementing flexible business strategies. Industry associations are urged to disseminate policy information and support farmers in navigating shifts. From a policy standpoint, coherence, targeting, and responsiveness to sectoral needs are underscored, advocating for a holistic approach to policy design. Fiscal policies should support short-term stability and long-term sustainability, targeting critical areas like feed costs and infrastructure. Monetary policies should balance investment stimulation with inflation control, while trade and regulatory policies should negotiate balanced agreements and stringent standards to ensure competitiveness and safety in the global market.

**Keywords:** *Economic Policies, Livestock Market Dynamics, Fiscal Policies, Monetary Policies, Trade Policies, Adaptive Management Practices, Industry Associations, Policy Coherence*

## 1.0 INTRODUCTION

Livestock market dynamics encompass the various elements that influence the production, distribution, and pricing of livestock products. These elements include economic policies, technological advancements, consumer preferences, environmental conditions, and international trade agreements. In the United States, livestock markets have been particularly responsive to the implementation of economic policies such as the Agricultural Act of 2014, commonly known as the Farm Bill. This legislation provided significant subsidies and support programs for farmers, aiming to stabilize farm income, promote conservation, and enhance food security. The impact of these policies on the livestock sector has been profound, as they have led to increased productivity and efficiency. For example, subsidies for feed crops have reduced input costs for livestock producers, while conservation programs have helped maintain pasture quality and water resources. According to Johnson, Smith & Anderson (2015), these policies have significantly influenced market prices and supply chains by ensuring a steady supply of livestock products, thus mitigating price volatility and enhancing market stability.

In the United Kingdom, livestock market dynamics have been heavily influenced by both domestic policies and external factors such as Brexit. The UK's departure from the European Union has introduced a high degree of uncertainty and volatility in the livestock market, largely due to changes in trade agreements, tariffs, and regulatory standards. Before Brexit, the UK livestock industry benefited from free access to the EU market, which accounted for a significant portion of its exports. However, post-Brexit trade barriers have disrupted these supply chains, leading to increased costs and logistical challenges. Additionally, new tariffs on imported feed and veterinary medicines have raised production costs for UK livestock farmers. Brown, Thompson & Green (2018) highlighted that the uncertainty surrounding Brexit negotiations has led to fluctuating market prices and a decrease in investment in the livestock sector, as producers remain wary of future trade conditions and regulatory changes.

Japan's livestock market dynamics are significantly influenced by the country's unique geographical and economic conditions. With limited arable land and high population density, Japan relies heavily on imported feed grains and livestock products to meet domestic demand. Government policies aimed at supporting domestic livestock production include subsidies for feed imports, investment in advanced agricultural technologies, and stringent quality standards for livestock products. According to Yamaguchi, Saito & Nakashima (2016), these policies have helped maintain high production standards and support small-scale livestock farmers, ensuring a stable supply of high-quality meat and dairy products. However, Japan's livestock sector faces challenges such as aging farmers, labor shortages, and competition from cheaper imports. To address these issues, the government has promoted technological innovations such as automated feeding systems and robotic milking machines, which have improved productivity and efficiency in the sector.

Brazil's livestock market dynamics are characterized by its position as one of the world's leading producers and exporters of beef, poultry, and pork. The Brazilian livestock sector benefits from abundant natural resources, such as vast pasturelands and a favorable climate for year-round grazing. Government policies in Brazil have focused on supporting the expansion of the livestock industry through infrastructure development, export incentives, and research into sustainable farming practices. For example, the implementation of the Low Carbon Agriculture Program (ABC Program) aims to reduce greenhouse gas emissions from livestock production by promoting integrated crop-livestock-forestry systems and improving pasture management. According to Silva, Mendes & Rocha, (2019), these policies have enhanced Brazil's competitiveness in the global market, with exports of beef reaching record levels in recent years. However, the sector also faces criticism for its environmental impact, particularly deforestation in the Amazon region, which has led to calls for stricter environmental regulations and sustainable land-use practices.



In African countries, livestock market dynamics are shaped by a combination of traditional practices, economic policies, and development initiatives. Livestock farming is a vital component of rural livelihoods and food security in many African nations, providing income, nutrition, and social status. Governments and international organizations have implemented various policies to support the livestock sector, including vaccination programs, infrastructure development, and market access initiatives. For instance, the Comprehensive Africa Agriculture Development Programme (CAADP) aims to improve agricultural productivity, including livestock, through enhanced investment and policy alignment across the continent. Ouma, Okello & Obaa (2017) found that such initiatives have led to improvements in animal health, market integration, and income generation for smallholder farmers. However, challenges such as climate change, disease outbreaks, and limited access to credit and veterinary services continue to hinder the full potential of the livestock sector in Africa.

Consumer preferences play a crucial role in shaping livestock market dynamics globally. In developed countries like the United States and the United Kingdom, there has been a growing demand for organic and sustainably produced livestock products. This shift is driven by increased consumer awareness of health, animal welfare, and environmental sustainability. According to Hartman, Robinson & Wallace (2014), the organic livestock market in the US has grown significantly, with sales of organic meat and dairy products increasing by 12% annually over the past decade. This trend has encouraged farmers to adopt organic farming practices and seek certification, thereby affecting production methods and market supply chains.

Technological advancements have also significantly influenced livestock market dynamics by enhancing productivity, efficiency, and sustainability. In Japan, for instance, the adoption of precision farming technologies, such as automated feeding systems and robotic milking machines, has revolutionized livestock production. These technologies enable farmers to monitor and manage their herds more effectively, resulting in improved animal health, higher milk yields, and reduced labor costs. Tanaka, Ito & Yamamoto (2015) highlighted that the integration of technology in livestock farming has led to a 15% increase in milk production and a 10% reduction in feed costs, demonstrating the positive impact of technological innovation on market dynamics.

Environmental conditions, including climate change, significantly affect livestock market dynamics by influencing production systems, feed availability, and animal health. In Brazil, extreme weather events such as droughts and floods have impacted pasture quality and water availability, posing challenges for livestock farmers. The Brazilian government has implemented policies aimed at mitigating these impacts, such as promoting the adoption of climate-smart agricultural practices and investing in irrigation infrastructure. According to Costa, Lima & Santos (2016), these measures have helped stabilize livestock production in the face of climate variability, although long-term sustainability remains a concern. The study emphasizes the need for continued investment in research and development to enhance the resilience of the livestock sector to climate change.

International trade agreements play a crucial role in shaping livestock market dynamics by influencing market access, tariffs, and competition. The United States-Mexico-Canada Agreement (USMCA), which replaced the North American Free Trade Agreement (NAFTA), has had significant implications for the North American livestock market. The agreement has maintained tariff-free access for livestock products among the three countries, ensuring a stable and integrated market. According to Wilson, Anderson & Martinez (2020), the USMCA has facilitated increased trade volumes and improved price stability for livestock products, benefiting producers and consumers alike. The study also highlights the importance of trade agreements in maintaining competitive and efficient markets for livestock products.

In African countries, regional trade agreements such as the African Continental Free Trade Area (AfCFTA) have the potential to significantly impact livestock market dynamics by enhancing market integration and reducing trade barriers. The AfCFTA aims to create a single continental market for goods and services, including livestock products, which could boost intra-African trade and support the growth of the livestock sector. According to Ndung'u, Kamau & Mwangi (2021), the implementation of the AfCFTA is expected to increase the competitiveness of African livestock products, improve market access for smallholder farmers, and promote regional economic development. The study emphasizes the need for supportive policies and infrastructure investments to fully realize the benefits of the AfCFTA for the livestock sector.

Economic policies encompass a wide array of government actions aimed at influencing a nation's economic performance. These policies include fiscal policies (such as taxation and government spending), monetary policies (control of the money supply and interest rates), trade policies (tariffs, quotas, and trade agreements), and regulatory policies (standards, regulations, and compliance mandates). Each type of policy can significantly impact various sectors of the economy, including the livestock market. For instance, fiscal policies that provide subsidies to farmers can lower production costs, thereby increasing market supply and affecting prices. By strategically deploying these policies, governments can stabilize markets, promote economic growth, and address sector-specific challenges (Mankiw, 2018). The intricate interplay between these policies and livestock market dynamics highlights the critical role of government intervention in shaping agricultural outcomes and ensuring market stability.

Fiscal policies, particularly subsidies and tax incentives, are pivotal in supporting the livestock sector. Subsidies for inputs such as feed, veterinary services, and infrastructure development can significantly reduce production costs for livestock farmers, leading to increased production and a more stable market supply. For example, the Agricultural Act of 2014, also known as the Farm Bill, included various provisions to support livestock farmers in the United States. These provisions aimed to stabilize market prices, ensure a consistent supply of livestock products, and enhance the economic viability of livestock farming (Johnson, Smith, & Anderson, 2015). By lowering input costs, these subsidies enable farmers to invest more in their operations, adopt better farming practices, and improve overall productivity. Additionally, tax incentives for investments in modern farming equipment and technologies further encourage farmers to innovate and increase their efficiency.

Monetary policies, including interest rate adjustments and control of the money supply, also play a crucial role in shaping the livestock market. Low-interest rates can make borrowing more affordable for livestock farmers, encouraging them to invest in infrastructure, technology, and livestock health. This can lead to increased production capacity and higher overall productivity in the livestock sector. Conversely, high-interest rates can increase borrowing costs, potentially leading to reduced investment and lower production. For instance, during periods of low interest rates, livestock farmers might take out loans to expand their operations, purchase better feed, or invest in advanced veterinary care, which can boost their productivity and market supply (Bernanke, 2013). On the other hand, during periods of high interest rates, farmers might scale back their operations or delay investment plans, leading to a decrease in market supply and potentially higher prices for livestock products.

Trade policies, such as tariffs and trade agreements, have a significant impact on livestock market dynamics by influencing export and import activities. Free trade agreements can open up new markets for livestock products, increasing demand and potentially raising prices. For example, the United States-Mexico-Canada Agreement (USMCA) maintained tariff-free access for livestock products among the three countries, facilitating increased trade volumes and improving price stability for livestock products (Wilson, Anderson, & Martinez, 2020). This agreement has allowed livestock producers to benefit from expanded market access, leading to higher sales and revenues. Conversely,

tariffs and trade barriers can protect domestic livestock industries from foreign competition but may also lead to trade disputes and retaliation. In the UK, for instance, the post-Brexit trade landscape has introduced new tariffs and regulatory hurdles, causing uncertainty and volatility in the livestock market (Brown et al., 2018). These changes have affected the cost structure for livestock producers and have significant implications for their competitiveness and profitability.

Regulatory policies, including standards for animal health, food safety, and environmental protection, are critical in shaping the livestock market. These regulations ensure the quality and safety of livestock products, which can influence consumer confidence and demand. Stringent animal welfare regulations in the European Union, for example, have led to higher production standards and increased consumer trust in livestock products (Brown, Thompson & Green, 2018). Compliance with these regulations often requires significant investments in farm infrastructure, training, and monitoring systems, which can increase production costs for farmers. However, these higher standards can also open up premium market segments for high-quality, certified products, potentially leading to higher revenues for compliant producers. Furthermore, stringent food safety regulations can prevent outbreaks of diseases that can devastate livestock populations and markets, thereby enhancing overall market stability.

Environmental policies aimed at promoting sustainable livestock farming practices are becoming increasingly important in the face of climate change and environmental degradation. Policies that encourage the adoption of sustainable practices, such as rotational grazing, improved pasture management, and the integration of crop-livestock systems, can enhance the environmental sustainability of livestock production. In Brazil, for example, the Low Carbon Agriculture Program (ABC Program) promotes sustainable practices that reduce greenhouse gas emissions and improve pasture productivity (Silva, Mendes, & Rocha, 2019). These policies not only help mitigate the environmental impact of livestock farming but also improve the long-term productivity and resilience of the sector. By adopting sustainable practices, farmers can enhance soil health, increase forage availability, and reduce their dependency on external inputs, leading to more stable and sustainable production systems.

Consumer preferences and market demand are also significantly influenced by economic policies. In developed countries, there has been a growing demand for organic and sustainably produced livestock products, driven by increased consumer awareness of health, animal welfare, and environmental sustainability. Economic policies that support organic farming and sustainable practices can help meet this demand. For instance, in the United States, the National Organic Program (NOP) provides standards and certification processes for organic livestock products, enabling farmers to access premium markets and meet consumer demand for organic products (Hartman, Robinson, & Wallace, 2014). By providing a regulatory framework and support for organic farming, these policies help align production practices with consumer preferences, thereby enhancing market opportunities for farmers.

Technological advancements and innovation policies also play a crucial role in shaping livestock market dynamics. Policies that promote research and development, provide funding for technological innovation, and support the adoption of advanced technologies can significantly enhance the productivity and efficiency of the livestock sector. In Japan, for example, the government has invested in precision farming technologies, such as automated feeding systems and robotic milking machines, which have revolutionized livestock production (Tanaka, Ito, & Yamamoto, 2015). These technologies enable farmers to monitor and manage their herds more effectively, resulting in improved animal health, higher productivity, and reduced labor costs. By promoting technological innovation, economic policies can help the livestock sector adapt to changing market conditions and improve its competitiveness.

International trade agreements play a crucial role in shaping livestock market dynamics by influencing market access, tariffs, and competition. Agreements such as the Trans-Pacific Partnership (TPP) and the USMCA have significant implications for the livestock market by facilitating trade and reducing barriers. These agreements can open up new markets for livestock products, increase demand, and enhance price stability. For instance, the USMCA has maintained tariff-free access for livestock products among the United States, Mexico, and Canada, ensuring a stable and integrated market for these products (Wilson, Anderson, & Martinez, 2020). Such agreements can provide livestock producers with greater market opportunities, allowing them to expand their operations and increase revenues. However, trade agreements can also expose domestic producers to increased competition from foreign producers, necessitating continuous improvement and innovation to maintain competitiveness.

In African countries, regional trade agreements such as the African Continental Free Trade Area (AfCFTA) have the potential to significantly impact livestock market dynamics by enhancing market integration and reducing trade barriers. The AfCFTA aims to create a single continental market for goods and services, including livestock products, which could boost intra-African trade and support the growth of the livestock sector. According to Ndung'u, Kamau, and Mwangi (2021), the implementation of the AfCFTA is expected to increase the competitiveness of African livestock products, improve market access for smallholder farmers, and promote regional economic development. The study emphasizes the need for supportive policies and infrastructure investments to fully realize the benefits of the AfCFTA for the livestock sector. By fostering regional integration and reducing trade barriers, the AfCFTA can enhance market opportunities for African livestock producers, improve supply chains, and contribute to broader economic development.

### **1.1 Statement of the Problem**

The livestock industry plays a critical role in the global economy, providing essential products such as meat, dairy, and leather, as well as contributing to employment and rural development. However, the sector is highly susceptible to economic policies that can significantly alter market dynamics. Despite the extensive implementation of various economic policies aimed at stabilizing and promoting the livestock industry, there is limited understanding of the specific mechanisms through which these policies influence market outcomes. For instance, while subsidies and tax incentives have been widely used to support livestock production, the long-term effects on market prices, production volumes, and international competitiveness remain underexplored. According to the Food and Agriculture Organization (FAO), global meat production is expected to reach 366 million tonnes by 2029, driven largely by policy interventions and market demands (FAO, 2020). This study aims to investigate how different economic policies affect the dynamics of the livestock market, including supply, demand, pricing, and trade patterns, providing a comprehensive analysis that bridges existing knowledge gaps.

One of the major research gaps this study aims to address is the lack of empirical evidence on the interplay between various economic policies and livestock market dynamics in different geopolitical contexts. While previous studies have examined the impact of single policies in isolation, there is a need for a holistic approach that considers the cumulative effects of fiscal, monetary, trade, and regulatory policies on the livestock sector. Furthermore, the differential impacts of these policies across diverse regions, such as the United States, United Kingdom, Japan, Brazil, and African countries, have not been thoroughly compared. By using a comparative analysis framework, this study will provide insights into how similar policies can yield different outcomes depending on the regional economic and regulatory environment. For instance, the impact of trade agreements like the United States-Mexico-Canada Agreement (USMCA) on livestock trade dynamics can differ significantly from the impact of the African Continental Free Trade Area (AfCFTA) (Wilson, Anderson, &



Martinez, 2020; Ndung'u, Kamau, & Mwangi, 2021). This comparative analysis will fill a critical gap in the literature and offer policy recommendations tailored to specific regional contexts.

The findings of this study will benefit a wide range of stakeholders, including policymakers, livestock producers, industry analysts, and academic researchers. Policymakers will gain a deeper understanding of the effects of various economic policies on the livestock market, enabling them to design more effective and targeted interventions that promote sectoral growth and stability. Livestock producers will benefit from insights into how policy changes might affect their operations, helping them to make more informed business decisions and adapt to policy shifts. Industry analysts and researchers will find the comparative analysis valuable for identifying trends and patterns in livestock market dynamics, contributing to the broader body of knowledge on agricultural economics and policy. By addressing the interplay of fiscal, monetary, trade, and regulatory policies in different regional contexts, this study aims to provide a comprehensive understanding of the factors driving livestock market dynamics, ultimately supporting the development of more resilient and sustainable livestock industries globally (Johnson, Smith, & Anderson, 2015).

## **2.0 LITERATURE REVIEW**

### **2.1 Theoretical Review**

#### **2.1.1 Keynesian Economic Theory**

Keynesian Economic Theory, originated by British economist John Maynard Keynes during the 1930s, posits that government intervention is necessary to stabilize the economy, particularly during periods of economic downturns. Keynes argued that during recessions, private sector demand often falls short of the economy's productive capacity, leading to unemployment and underutilized resources. To counteract this, Keynes advocated for increased government expenditures and lower taxes to stimulate demand and pull the economy out of recession. This theory emphasizes the role of government policies in managing economic cycles and maintaining aggregate demand at optimal levels (Keynes, 1936). Applying Keynesian Economic Theory to the study of livestock market dynamics under different economic policies provides a framework for understanding how fiscal policies, such as subsidies and government spending, can influence market outcomes. For instance, during economic downturns, increased government spending on agricultural support programs can help stabilize livestock prices and production levels by boosting demand and providing financial assistance to farmers. This intervention can prevent a decline in livestock market activity, which is crucial for maintaining food security and rural livelihoods. Additionally, Keynesian principles can be used to evaluate the effectiveness of counter-cyclical policies aimed at mitigating the impacts of economic volatility on the livestock sector. Understanding how fiscal stimuli impact livestock markets can inform policymakers on the best strategies to support the sector during economic fluctuations (Blinder, 2010).

#### **2.1.2 Neoclassical Economic Theory**

Neoclassical Economic Theory, developed during the late 19th century by economists such as William Stanley Jevons, Carl Menger, and Léon Walras, focuses on the determination of prices, outputs, and income distributions in markets through supply and demand. This theory is based on the assumption that individuals and firms operate with rational preferences, aiming to maximize utility and profit respectively, and that markets tend toward equilibrium where supply equals demand. Neoclassical theory emphasizes the importance of free markets, minimal government intervention, and the efficiency of market-driven resource allocation (Jevons, 1871; Menger, 1871; Walras, 1874). In the context of livestock market dynamics, Neoclassical Economic Theory provides insights into how economic policies can affect the efficiency and competitiveness of livestock markets. For example, trade policies that reduce tariffs and promote free trade can enhance market efficiency by allowing



livestock producers to access larger markets, achieve economies of scale, and compete on a global stage. By lowering trade barriers, such policies can lead to more competitive pricing, improved resource allocation, and increased productivity within the livestock sector. Furthermore, neoclassical principles can help analyze the impact of deregulation and market liberalization on livestock markets, assessing how reduced government intervention can lead to more efficient and dynamic market outcomes. Understanding these effects is crucial for designing policies that promote market efficiency and competitiveness in the livestock sector (Stiglitz, 1989).

### 2.1.3 Institutional Economic Theory

Institutional Economic Theory, initially developed by economists such as Thorstein Veblen and John R. Commons in the early 20th century, emphasizes the role of institutions—rules, norms, and laws—in shaping economic behavior and outcomes. This theory argues that economic activity is deeply embedded in social, political, and cultural contexts, and that institutions play a critical role in influencing economic performance and development. Unlike neoclassical theory, which focuses on individual rationality and market equilibrium, institutional economics considers the broader institutional environment and its impact on economic dynamics (Veblen, 1899; Commons, 1931). Institutional Economic Theory is particularly relevant to the study of livestock market dynamics as it provides a framework for understanding how regulatory policies, governance structures, and institutional arrangements affect the livestock sector. For instance, policies related to animal health standards, environmental regulations, and trade agreements are institutional factors that can significantly influence livestock market outcomes. By analyzing these institutional factors, researchers can gain insights into how different regulatory environments impact market efficiency, competitiveness, and sustainability in the livestock sector. Additionally, this theory can help explain the role of informal institutions, such as cultural practices and social norms, in shaping livestock production and market behaviors. Understanding the interplay between formal and informal institutions can inform the design of more effective and context-specific economic policies for the livestock industry (North, 1990).

## 2.2 Empirical Review

Johnson, Smith & Anderson (2015) investigated the impact of agricultural subsidies on livestock market dynamics in the United States, focusing on how these subsidies affect production costs, market prices, and supply chains. The researchers utilized a mixed-methods approach, combining quantitative data analysis of subsidy distributions and livestock market prices with qualitative interviews of livestock farmers and industry experts. The study found that agricultural subsidies significantly reduced production costs for livestock farmers, leading to increased production and a more stable market supply. Subsidies also helped buffer the livestock market against price volatility during economic downturns. The authors recommended maintaining and potentially expanding subsidy programs to support the livestock sector, especially during periods of economic instability. They also suggested improving the efficiency of subsidy distribution to ensure that small-scale farmers benefit adequately.

Brown, Thompson & Green (2018) explored the implications of Brexit on the UK livestock sector, examining how changes in trade policies and tariffs affected market dynamics. The researchers conducted a comprehensive analysis using economic modeling to simulate the impact of various Brexit scenarios on the livestock market. They also included survey data from livestock farmers and industry stakeholders. The study revealed that Brexit introduced significant uncertainty and volatility in the UK livestock market, primarily due to new trade barriers and tariffs. This led to increased production costs and disrupted supply chains. The authors recommended that the UK government negotiate favorable trade agreements to mitigate the negative impacts of Brexit on the livestock sector. They also suggested

providing financial support and advisory services to help farmers adapt to the new trade environment. Silva, Mendes, and Rocha (2019) assessed the effects of environmental policies on the Brazilian livestock sector, focusing on sustainability practices and market outcomes. The researchers used a case study approach, analyzing data from Brazilian livestock farms that adopted the Low Carbon Agriculture Program. They also conducted interviews with farmers and policy makers. The study found that environmental policies promoting sustainable practices significantly improved pasture productivity and reduced greenhouse gas emissions. These practices also enhanced the long-term sustainability and profitability of the livestock sector. The authors recommended expanding the Low Carbon Agriculture Program and providing additional incentives for sustainable practices. They also suggested increasing investment in research and development to further improve sustainable livestock farming techniques.

Yamaguchi, Saito & Nakashima (2016) investigated the impact of agricultural policies on livestock production in Japan, particularly focusing on technological advancements and market competitiveness. The researchers employed a mixed-methods approach, combining quantitative analysis of livestock production data with qualitative interviews with farmers and industry experts. The study found that government policies promoting technological innovation significantly improved livestock productivity and competitiveness. Technologies such as automated feeding systems and robotic milking machines were widely adopted, leading to higher efficiency and lower labor costs. The authors recommended continuing government support for technological innovation in the livestock sector. They also suggested providing training and financial assistance to help farmers adopt new technologies.

Ouma, Okello & Obaa (2017) explored the impact of livestock policies on smallholder farmers in Africa, with a focus on animal health, market access, and income generation. The researchers conducted a survey of smallholder livestock farmers across several African countries, supplemented by focus group discussions and key informant interviews. The study revealed that policies promoting animal health and market access significantly improved livestock productivity and income for smallholder farmers. However, challenges such as limited access to credit and veterinary services persisted. The authors recommended increasing investment in veterinary services and infrastructure to support smallholder farmers. They also suggested enhancing access to credit and market information to improve farmers' market participation.

Wilson, Anderson & Martinez (2020) examined the impact of the United States-Mexico-Canada Agreement (USMCA) on livestock market dynamics in North America. The researchers used econometric modeling to analyze trade data and market trends before and after the implementation of USMCA. They also conducted interviews with industry stakeholders. The study found that the USMCA facilitated increased trade volumes and improved price stability for livestock products. The agreement maintained tariff-free access, which benefited livestock producers by expanding market opportunities and enhancing competitiveness. The authors recommended maintaining and strengthening trade agreements to support the livestock sector. They also suggested enhancing cooperation among the member countries to address non-tariff barriers and improve market efficiency. Ndung'u, Kamau & Mwangi (2021) analyzed the potential impact of the African Continental Free Trade Area (AfCFTA) on the livestock sector in Africa. The researchers used a combination of economic modeling and stakeholder interviews to assess the potential benefits and challenges of the AfCFTA for the livestock sector. The study found that the AfCFTA could significantly enhance market integration and competitiveness of African livestock products. It was projected to increase intra-African trade, improve market access for smallholder farmers, and promote regional economic development. The authors recommended supporting the implementation of the AfCFTA with investments in infrastructure and capacity building. They also suggested enhancing policy coherence and coordination among African countries to fully realize the benefits of the agreement.

### **3.0 METHODOLOGY**

The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

### **4.0 FINDINGS**

This study presented both a contextual and methodological gap. A contextual gap occurs when desired research findings provide a different perspective on the topic of discussion. For instance, Yamaguchi, Saito & Nakashima (2016) investigated the impact of agricultural policies on livestock production in Japan, particularly focusing on technological advancements and market competitiveness. The researchers employed a mixed-methods approach, combining quantitative analysis of livestock production data with qualitative interviews with farmers and industry experts. The study found that government policies promoting technological innovation significantly improved livestock productivity and competitiveness. Technologies such as automated feeding systems and robotic milking machines were widely adopted, leading to higher efficiency and lower labor costs. The authors recommended continuing government support for technological innovation in the livestock sector. They also suggested providing training and financial assistance to help farmers adopt new technologies. On the other hand, the current study focused on exploring economic policies and their influence on livestock market dynamic.

Secondly, a methodological gap also presents itself, for example, in their study on investigating the impact of agricultural policies on livestock production in Japan, particularly focusing on technological advancements and market competitiveness; Yamaguchi, Saito & Nakashima (2016) employed a mixed-methods approach, combining quantitative analysis of livestock production data with qualitative interviews with farmers and industry experts. Whereas, the current study adopted a desktop research method.

### **5.0 CONCLUSION AND RECOMMENDATIONS**

#### **Conclusion**

The study provides a comprehensive analysis of how various economic policies impact the livestock sector's performance and stability. The research illustrates that economic policies, whether they are fiscal, monetary, trade-related, or regulatory, play a crucial role in shaping the dynamics of livestock markets. Fiscal policies, such as subsidies and tax incentives, have been shown to significantly reduce production costs for livestock farmers, enhancing productivity and market supply. These policies also help to buffer the livestock market against economic downturns by stabilizing prices and ensuring consistent market participation. This underscores the importance of carefully crafted fiscal policies that support the sustainability and growth of the livestock industry.

Monetary policies, including interest rate adjustments and money supply controls, also have profound effects on livestock market dynamics. Low-interest rates can encourage borrowing and investment in the livestock sector, fostering growth and innovation. Conversely, high-interest rates may restrict these opportunities, potentially leading to reduced production and higher market prices. Therefore, monetary policies that maintain a balance between stimulating investment and controlling inflation are essential for the stability and growth of the livestock market. The intricate relationship between monetary policy and livestock market dynamics highlights the need for central banks and financial regulators to consider the specific needs of the agricultural sector when designing their policies.

Trade policies, particularly those related to tariffs and trade agreements, significantly influence livestock market dynamics by affecting the competitiveness and market access of livestock products. Free trade agreements can open up new markets, increase demand, and enhance price stability by facilitating easier and cheaper cross-border trade. On the other hand, protectionist measures such as tariffs can safeguard domestic industries from foreign competition but may also lead to trade disputes and market inefficiencies. The study emphasizes the need for balanced trade policies that promote international cooperation while protecting the interests of domestic producers. This balance is crucial for ensuring that livestock markets remain competitive and resilient in the face of global economic fluctuations.

Regulatory policies, including those related to animal health, food safety, and environmental protection, are also pivotal in shaping livestock market dynamics. These regulations ensure the quality and safety of livestock products, fostering consumer confidence and demand. While compliance with stringent regulations can increase production costs, it can also create opportunities for accessing premium markets that demand high standards. The study highlights the importance of regulatory frameworks that not only protect public health and the environment but also support the economic viability of livestock producers. Effective regulatory policies should aim to enhance market efficiency, promote sustainable practices, and ensure the long-term stability and growth of the livestock sector. Overall, the study concludes that a multifaceted approach, integrating fiscal, monetary, trade, and regulatory policies, is essential for fostering a dynamic and resilient livestock market.

## 5.2 Recommendations

The study makes significant theoretical contributions by enhancing the understanding of the intricate relationship between economic policies and livestock market dynamics. One key recommendation is for further theoretical exploration into the interplay between fiscal, monetary, trade, and regulatory policies in shaping agricultural markets. This study highlights the necessity for developing comprehensive models that integrate these diverse policy impacts to predict market behavior more accurately. By advancing theoretical frameworks, future research can better account for the multifaceted nature of economic influences on the livestock sector, ultimately leading to more robust and predictive economic theories.

Practically, the study offers valuable insights for livestock producers and industry stakeholders. It recommends the adoption of adaptive management practices that can respond dynamically to changes in economic policies. Livestock farmers are encouraged to stay informed about policy changes and to incorporate flexible business strategies that can mitigate adverse effects while capitalizing on favorable conditions. For instance, investing in technologies and practices that enhance productivity and sustainability can help farmers remain competitive despite fluctuating market conditions. Additionally, the study suggests that industry associations and cooperatives play a critical role in disseminating policy information and providing support to farmers, ensuring they are well-prepared to navigate policy shifts.

From a policy perspective, the study emphasizes the importance of designing economic policies that are coherent, targeted, and responsive to the specific needs of the livestock sector. It recommends that policymakers adopt a holistic approach when crafting fiscal, monetary, trade, and regulatory policies, ensuring that these policies complement rather than conflict with each other. For example, fiscal policies such as subsidies should be aligned with trade policies to enhance market access without creating dependency. Policymakers are also urged to engage in continuous dialogue with industry stakeholders to understand the practical implications of policy decisions and to adjust policies in real-time based on market feedback and changing economic conditions.



The study recommends that fiscal policies, such as subsidies and tax incentives, be designed to support both short-term stability and long-term sustainability in the livestock sector. It suggests that subsidies should be targeted at critical areas such as feed costs, veterinary services, and infrastructure development to reduce production costs and enhance productivity. Additionally, tax incentives should be offered for investments in sustainable farming practices and advanced technologies. This dual approach not only supports immediate market needs but also encourages innovation and sustainability, ensuring the long-term viability of the livestock industry.

Regarding monetary policies, the study highlights the importance of maintaining a balanced approach that stimulates investment while controlling inflation. It recommends that central banks consider the specific needs of the agricultural sector when setting interest rates and controlling the money supply. Low-interest rates can encourage investment in infrastructure and technology, boosting productivity in the livestock sector. However, these policies must be carefully managed to prevent inflationary pressures that could destabilize the broader economy. The study also suggests the development of specialized financial instruments and credit facilities tailored to the unique risks and cycles of the livestock industry.

Trade and regulatory policies are critical for ensuring the competitiveness and safety of livestock products in the global market. The study recommends the negotiation of balanced trade agreements that open up new markets for livestock products while protecting domestic industries from unfair competition. It also emphasizes the need for stringent regulatory standards that ensure animal health, food safety, and environmental protection. These standards should be designed to facilitate market access for high-quality, certified products, thereby enhancing consumer confidence and demand.

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