

ABSTRACT

World trade is an important aspect of the economy of every country in the world. As an agricultural country, increasing the agricultural sector's growth is the Indonesian government's mainstay to increase the growth of the country's national income (GDP). The agricultural sector has great potential to continue to grow, with Indonesia being ranked as the fifth largest export of the world's agricultural sector, but this situation does not match the welfare of farmers. This makes the number of farmers decrease yearly and increases unemployment. Through better management of agricultural sector exports, farmers' welfare can increase by increasing Indonesia's GDP. In addition, it is also necessary to monitor inflation where inflation is one of the factors that affect GDP.

This study aims to determine the evolution of the agricultural sector trade network, inflation, unemployment, and world GDP from 1998 to 1998. 2019, as well as knowing the correlation between the network approach in the form of degree centrality, betweenness centrality, closeness centrality, eigenvector centrality and non-network approaches in the form of inflation and unemployment of a country to the country's GDP. The study used to export data from the agricultural sector, inflation data, and unemployment data for 135 countries from 1998 to 1998. 2019.

The results showed the evolution from 1998 to d. 2019 through a network approach that experienced an increase and decrease in network properties and a non-network approach, GDP experienced a significant decline in 2008, when the world experienced a severe recession. Inflation experienced a significant increase in 2009 due to an increase in people's purchasing power. decrease in 2009 increased demand for labor. The results of the Spearman correlation show that proximity centrality, degree centrality, intermediate centrality, eigenvector centrality, inflation, and unemployment have a significant relationship with GDP where the correlation values are -0.135, -0.145. -0.152, -0.158, 0.171 and -0.198.

Keywords: world trade, GDP, inflation, unemployment, network analysis, spearman correlation