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摘要： 本文使用回归分析方法，选取农业机械总动力、有效灌溉面积、农民人均可支配收入、化肥施用量、经济作物种植面积 5 个变量，运用 SPSS16.0 统计软件，对 2000-2022 年的时间序列数据进行回归分析，进行逐步的修正优化，分析了影响海南省农业总产值的主要因素，发现农业机械总动力和农民人均可支配收入是影响海南省农业总产值的最主要因素。通过时间序列分析，预测海南省农业生产总值的走向，提出了提高海南省农业生产机械化，落实扶贫助农政策等推动海南省农业经济发展的建议。

关键词： SPSS 回归分析；农业生产总值；影响因素

Analysis of Influencing Factors of Agricultural Output Value in Hainan Province Based on SPSS

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Abstract: This paper uses regression analysis method, selects 5 variables including total power of agricultural machinery, effective irrigation area, per capita disposable income of farmers, fertilizer application amount, and planting area of cash crops, and uses SPSS16.0 statistical software to conduct regression analysis on time series data from 2000 to 2022, and carries out gradual correction and optimization. The main factors affecting the agricultural output value of Hainan Province were analyzed, and it was found that the total power of agricultural machinery and the per capita disposable income of farmers were the main factors affecting the agricultural output value of Hainan Province. Based on the analysis of time series, this paper predicts the trend of agricultural GDP in Hainan Province, and puts forward some suggestions to promote the development of agricultural economy in Hainan province, such as improving the mechanization of agricultural production and implementing the policy of poverty alleviation and agricultural assistance.

Key words: SPSS regression analysis; total agricultural output value; influencing factors

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