

The Prediction of Teachers' Demand in the Primary and High Schools in Chongqing

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Since the 21st century, school-age population in the foundation stage of education reduces substantially, and educational resources began to appear idle and waster. According to each annual review of Chongqing in recent years, Chongqing's yearly birth rate is decreasing. This change inevitably makes the number of schooling students and the demand for the teachers decline. Based on the additional population discrete prediction model, some models on the amounts of enrollment, campus students on different grades, total campus students, requirements and replenishes on professional teachers for Primary and Junior Middle Education are established in this paper. Firstly, a model combined by non-stationary time series model and regression model is established for the birth population in Chongqing. Then, the Logistic Growth Curve Model is established for the high school enrollment rate. It is predicted that the student population and the teachers' demand in the primary and high schools in the future. In the next 10 years, the number of students will reduce 0.42 million. The primary school will have a large surplus of teachers and high school will lack for teachers in serious. Normal college can expand enrollment in 6% in the next two years and pay more attention on the high school teachers' training.

Key words: prediction, the number of campus students, demand for the number of teacher