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Study on modeling and forecasting of tobacco **R**esearch **P**aper production in India PREMA BORKAR AND V. M. BODADE See end of the paper for Abstract: The paper describes an empirical study of modeling and forecasting time series data of authors' affiliations tobacco production in India. Yearly tobacco production data for the period of 1950-1951 to 2014-2015 Correspondence to : of India were analyzed by time-series methods. Autocorrelation and partial autocorrelation functions PREMA BORKAR were calculated for the data. The Box Jenkins ARIMA methodology has been used for forecasting. Gokhale Institute of Politics The diagnostic checking has shown that ARIMA (1, 1, 1) is appropriate. The forecasts from 2015-2016 and Economics, PUNE (M.S.) INDIA to 2019-2020 are calculated based on the selected model. The forecasting power of autoregressive integrated moving average model was used to forecast tobacco production for five leading years. These forecasts would be helpful for the policy makers to foresee ahead of time the future requirements of tobacco production, import and/or export and adopt appropriate measures in this regard. KEY WORDS: ACF - Autocorrelation function, ARIMA - Autoregressive integrated moving average, Forecast, PACF - Partial autocorrelation function, Tobacco Paper History : How To CITE THIS PAPER: Borkar, Prema and Bodade, V.M. (2017). Study on modeling and forecasting of Received : 16.01.2017; tobacco production in India. Internat. Res. J. Agric. Eco. & Stat., 8 (2): 281-286, DOI: 10.15740/HAS/IRJAES/ : 17.07.2017: Revised 8.2/281-286. Accepted : 29.07.2017