

Climate changes became international problem. These changes affect the agriculture sector badly. Basic purpose of this study to check the effect of climate changes on the rice, wheat, Sugar Cane and Cotton production of Punjab. Secondary data of rice, wheat, Sugar Cane and Cotton crops were used. Seven districts of Punjab were selected for analysis. These districts are Multan, Bahawalpur, Faisalabad, Lahore, Jhelum, Sialkot and Sargodha. Panel data are used from period 1980 to 2010. Data is taken from Pakistan Bureau of Statistic and Pakistan Meteorological development. Fixed Effect model used to analysis the data. Annual Productions of rice, wheat, Sugar Cane and Cotton crops were used as a dependent variable and temperature and rainfall used as independent variables. The finding shows that temperature has positive effect on agricultural production but it became harmful after the optimum point .Rainfall do not affect significantly to the Agriculture production of Punjab. Deficiency of water fulfill through Tube-well and Cannel.

Key Word: Agriculture Production, Temperature, Rainfall, fixed effect model, climate, Punjab