

Research on the relation between Water problems and Grain production in the Huabei plain, China.

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Recently, water problems such as water shortage have become serious around the world, those are related to grain production deeply. The relation between the grain production and factors contributing to change of grain productivity in the Huabei plain, China has been analyzed using statistical data 'Hebei economic statistical yearbook' from 1984 to 2001 assuming that the difference of land condition produces effect on the grain production. The data has analyzed on an appropriate small scale similar to unit of land condition such as topographic features and the water environment. The counties which are located at the latitude of 38 degrees North, Luancheng, Shen County and Nanpi, have been considered especially qualifying typical cases of the land condition in the Huabei plain. The relation between the grain production and the factors, drop of groundwater level, fertilizer consumption and price of farm products was observed with difference depending upon land conditions.