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The 5th International Seminar on Sciences IOP Conf. Series: Earth and Environmental Science 299 (2019) 012022 IOP Publishing doi:10.1088/1755-1315/299/1/012022 1 Empowerment of women farmers on sustainable food Security with dynamics system modelling (in Nagari Koto Tuo, Harau Sub-district, Limapuluh Kota Regency, West Sumatera) H Ibrahim1 and R Yanti1\* 1Agricultural Polytechnic of Payakumbuh, West Sumatera \*E-mail: rinda\_yanti@yahoo.co.id Abstract. Based on Observation in Nagari Koto Tuo showed that empowerment of women farmer group in food security has not been optimal yet.

The indicators are: 1) the education of respondents is dominated by the elementary school (42.17%), thus greatly affect to food pattern and serving meal menu; 2) land productivity less than 0.5 ha is 71% and depends on rainwater (68%), 3) family expenditure is allocated mostly for food with calorie consumption less than 2100 kilocalories (63.66 %) and, only 36.7 % is a requirement of nutritional adequacy and mostly nutritional status are

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