**Abstrast**

Resources, their use, efficiency in use, means and methods of measuring efficiency can be viewed from a global/macroeconomic point of view or from the micro/individual/firm/farm basis. No matter the way in which we decide to look at resources , it is worthy of note to acknowledge that there are resources available for the use of man and the resources are scare and man has to see to it that there is/are proper management of the limited available resources. There are some problems attached to the availability, non availability, use, misuse and the measurements of resources. Some of these problems can be summarized as: the desire of all human beings to acquire more of the good things of life (but there is no limit to the number of good things of life desired by man), there is a scarcity or limitation of the means of satisfying these human needs and desires, how does or can man make the best use of the limited resources available to him in order for him to satisfy his needs in the best ways possible. Economic efficiency seeks to proffer solutions on how to make the best use of available scarce resources using economic tools like econometrics, production economics, statistics, mathematics, linear programming etc. Hence this study seeks to use the knowledge of Production Economics and Econometrics to provide some insight into the concept of resource use efficiency, measurement, resources use and misuse.

**Keywords: Resource use, Resource use efficiency, Resource use efficiency measurement, Production Economics, Econometrics.**