ABSTRACT

Thesis Title   : Citation Analysis of Scientific Periodicals in Food

         Science and Technology Abstracts and the Needs of

         Users of the Scientific and Technological Information

         Division, Department of Science Service

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Degree Sought   : Master of Arts

Major   : Library and Information Science

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The purpose of this research was to relate citations, actual use and user needs. The study focused on the correlations between the citation in scientific periodicals in Food Science and Technology Abstracts and the needs of the users of the Scientific and Technological Information Division. More specifically, the study looked at the actual use made of the citations of scientific periodicals in Food Science and Technology Abstracts by the users of the Scientific and Technological Information Division each day during the period 1991 to 1995. The samples used for this research were of two types : 1) 338 of 1,696 lists of the periodicals cited in Food Science and Technology Abstracts from 1985 to 1995 and 2) 395 of 11,275 users of the Scientific and Technological Information Division between 1991 to 1995. Forms for recording the citation of the periodicals appearing in the Food Science and Technology

Abstracts and the questionnaire which the researcher designed were used as the tools for this study. The chi-square χ^2 - test of independent measures was the statistic used to analyze the data

The results of the study showed that the citations of Food Science and Technology Abstracts conformed with the needs of users of the Scientific and Technological Information Division. The correlation between the private/industry section and government/state enterprises was significant at the 0.01 level while that of the education section was significant at the 0.05 level. Futhermore, the correlation of the citations of scientific periodicals in Food Science and Technology Abstracts to actual use was significant at the 0.01 level.