

Abstract

The study of village 's lake eutrophication

The study of village 's lake eutrophication are employed to gain insights into water quality of village's lake of water budgets , chemical environment concentration by phosphate-phosphorus , stratified water column by temperature. Consequently, to achieve knowledge and understand of its effect performed, the village's lake Nong-Lerng was selected for the study by means of data collection each month of a year during September 1999 to October 2000.

The study revealed that annual changes in lake level are seasonal changes due to peaks in gain and loss at different times of year. Where wet and dry seasons give a lake level and volume difference at 54.8 cm. And $1,630,925.36 \text{ m}^3$

The phosphate-phosphorus concentration during wet and dried months were 3.2076 mg/l and 0.6657 mg/l . The lake photovisibility in wet season was low range at average of 50 cm. Where as in dry season the range at mean of 2 m. The lake stratified by temperature was more clearly measure in dry months than wet months. It was concluded that surface run off by rain is the major influence in village's lake eutrophication.