

## **Spatial and Temporal Aspects of Evapotranspiration in Tanjung Karang Paddy Field, Peninsular Malaysia.**

### **ABSTRACT**

Evapotranspiration ET of rice was measured using microlysimeter in TAKRIS, Malaysia. Values of ET obtained are from 4.8 to 6.2 mm/d from all sectors of the irrigation scheme and irrespective of the season. Normality of data distribution was tested using descriptive statistical parameters. Mean, standard deviation, variance skewness and kurtosis were calculated. The skewness is in the range of 0.22 to -0.96, -1.79 to -0.80 and -1.59 to -0.45 for three seasons respectively. The values were within the conventional acceptable limit of  $\pm 2$ . The results of one-way ANOVA indicates that ET data for the three seasons was significantly different at the  $p < 0.05$  level ( $F = 4.65$  and  $p = 0.011$ ). The Post-hoc comparison using Tukey HSD, Scheffe and Bonferroni test indicated that the mean ET values for wet season ( $M = 5.05$  mm/d,  $SD = 0.84$ ) and mid-season ( $M = 5.47$  mm/d,  $SD = 0.85$ ) are significantly different, whereas off season ( $M = 5.24$  mm/d,  $SD = 0.90$ ) did not differ significantly from either wet or mid-season. The study shows a good water management in the TAKRIS.

**Keyword:** Evapotranspiration; Growth Stage; Irrigation; Microlysimeter; Normality Test