

CANAL LOSS AND CONVEYANCE EFFICIENCY

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In fine tuning computerised operations of Irrigation systems, initial assumptions of losses and efficiencies need to be refined.

Experiments were conducted in a Distributory Channel in the Gal Oya system to estimate canal losses. The data was analysed using a computer program developed for the purpose.

The data to be fed to the programme are side slopes, gradient, "Mannings n"

(c) Rank Order Clustering Algorithm (ROC2) developed by J.R. King and V. Nakornchai together with a relaxation procedure for bottle-neck machines was used with some modification for it, for the analysis to develop block diagonal form for the machine-component matrix.

The technique was applied for the components which are manufactured in the Sri Lanka State Hardware Corporation machine shop at Yakkala.

References

1. King J.R. and Nakornchai V. (1982) Machine-component group formation in group technology: review and extension, Int. J. Production Res.. 20 117.
2. Opitz, H. (1970) A classification system to describe workpieces, Pergamon Press, Oxford.