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# AGRICULTURAL SYSTEMS IN EAST AFRICA VIEWED FROM LANDSAT

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Landsat digital data are being analyzed to examine traditional agricultural systems in a remote region in West Pokot District in northwestern Kenya. The computer-aided analysis incorporates ground observations, made during the period December 1977 - September 1978, in addition to maps and aerial photographs. The study area was selected to extend earlier work in Tamkal Valley (Conant and Cary 1977) to include a flatland area to the north, where cropping is more continuous than in the valley and irrigation is practiced. Differences in distribution of active cultivation between the shifting cultivation system of the valley and the irrigated system of the flatlands are being investigated. Preliminary results indicate that computer-aided analysis makes possible the examination and comparison of spatio-spectral variations in these agricultural systems.

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Conant, Francis P., and Cary, Tina K. "A First Interpretation of East African Swiddening Via Computer-Assisted Analysis of 3 Landsat Tapes". Proceedings, Symposium on Machine Processing of Remotely Sensed Data, June 21-23, 1977, pp. 36-43. West Lafayette, Indiana: Laboratory for Applications of Remote Sensing.

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