CAPABILITY OF TM DATA FOR LANDUSE/LAND RESOURCES MAPPING,
DIGITAL CLASSIFICATION COMBINED with GEOGRAPHICAL INFOR -
MATION SYSTEM (GIS) FACILITIES IN PART OF IRAN.

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ABSTRACT:

Capability of the thematic mapper (TM) with higher
resolution has now become much easier to map various units
of land resources efficiently and accurately in a shorter
period of time.

During work described in this paper an attempt has been
made to prepare various landuse map by visual interparta-
tion of a TM false color composit at the average scale of
1:100,000 in conjuction with field ckecks covering an area
about 25000 aquare KM in northern part of IRAN.

The landuse map was perpared in association with subgruop
levels and a total of 7 levels landuse mapping to establish
and utilize digital classification, geomateric correction,
enhencement, were applied, digital mapping,also in conjuc-
tion with GIS system facilities. The following 7 levels
classification and subclasses have been investigated,   -
Agriculture land or crop land I1,I2 Forestry F1,F2,Range
land R1, R2,Orchard OI,IO,Bare soil, Urban area, Water
Bodies L1,L2 Low land,Swmap.

The results of this discrimination indicats that TM data
gave excellent investigation in agriculture land classifi-
cation and landuse mapping.