E7.3 - 1 1. 0. 6. 0.

CR-/33957

PROGRESS REPORT 7

AUTOMATIC PHOTOINTERPRETATION FOR,

LAND USE MANAGEMENT IN MINNESOTA

ERTS

Proposal Number MMC 257

Principal Investigator Number PR 202

Contract Number NAS 5-21742

June 1973

Prepared by: R. E. Zirkle   Approved by: *[signature]*
                                            G. D. Swanlund

Summary

Three areas have been selected for evaluation; the iron range, the twin cities and Sheridan county in western Minnesota. These provide representative samples for evaluating our automatic thematic mapping techniques. Results on the iron range area show a surprisingly accurate 90% correct classification on five classes. In this case, individual detector outputs on ERTS were analyzed and two faulty detectors were isolated and their outputs were not used. We think the use of only good detector outputs produced the excellent results. This is now being evaluated. If true, we have determined a key factor in improving classification accuracy.

1