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PROGRESS REPORT 9

AUTOMATIC PHOTOINTERPRETATION FOR

LAND USE MANAGEMENT IN MINNESOTA

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Proposal Number MMC 257

Principal Investigator Number PR 202

Contract Number NAS 5-21742

October 1973

Prepared by: L. Kirvida

Approved by ø. Swanlund G.

Honeywell, Inc. Systems and Research Division 2600 Ridgway Parkway Minneapolis, Minnesota 55413 We have completed an automatic classification run of Ramsey County. This is a metropolitan, suburban type area which includes St. Paul, Minnesota. Four classes were used in the initial delineation, namely open, residential, water and urban. The results are given in the confusion matrix below.

K-Class Assignments				
Ground				· · · · ·
Truth	Water	Open	Residential	Urban
Water	58 ~	Ö	0	0
Open	2	27	5	4
Residential	0	· 7	135	5
Urban	1	7	3	138
				· .

A thematic map was generated for Ramsey County using these four classes. We are planning to add texture features to evaluate its usefulness in separating metropolitan classes.

The confusion matrix was computed using density only from the four MSS bands of an October 6th coverage - 1075-16321.

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