



THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

COLLEGE OF AGRICULTURE
DEPARTMENT OF WATERSHED MANAGEMENT

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Mr. Burton B. Schardt
ERTS Program Manager
Code ER, NASA Headquarters
Washington, D.C. 20546

E73 10889

CR-133527

Subject: Progress Report (Type I)
(June 1, 1973 - July 31, 1973)

Contract NAS 5-21820

- a. Use of Earth Resources Technological Satellite (ERTS) Data in a Natural Resource Inventory (SRO 99).
- b. GSFC - UN 620
- c. Ernest B. Fish, Principal Investigator, left the University of Arizona for employment at Texas Tech University in early July. This slowed progress slightly, but considerable time was spent in the field and laboratory by new personnel with Dr. Fish prior to his leaving. Work on the project is progressing with continuity and on schedule. Request has been submitted for principal investigator to be Phil R. Ogden.
- d. The major effort during this reporting period has been to field sample taxonomic units within geomorphic-soil-vegetation mapping units. Within each mapping unit designated on imagery obtained from high altitude aircraft, image classes have been identified and sample sites selected within these for collection of ground truth.

Within selected mapping units, several methods of determining drainage density from imagery were used to collect data, and proportions of image classes found in each mapping unit were determined by dot grid counts. These data will be used to select techniques and parameters which can be obtained from imagery and utilized to group similar mapping units.

The major effort during the next reporting period will be to obtain ground truth data from field sampling.

(E73-10889) USE OF EARTH RESOURCES
TECHNOLOGICAL SATELLITE (ERTS) DATA IN A
NATURAL RESOURCE INVENTORY Progress
Report, 1 Jun. - 31 Jul. 1973 (Arizona
Univ., Tucson.) 2 p HC \$3.00 CSCL 08F

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Unclas
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- e. Not applicable at this time.
- f. Not applicable at this time.
- g. Not applicable at this time.
- h. None.
- l. None.
- j. None.
- k. None.



Phil R. Ogden
for Ernest B. Fish
Principal Investigator