### REMOTE SENSING Topic 2: Elements of Airphoto Interpretation Chapter 4: Lillesand and Keifer Chapter 2: Avery and Berlin

### Airphoto Interpretation

- - The extraction of information of all types from aerial photography

Airphoto Interpretation

Data --

Information

### Airphoto Interpretation Activities

- A process that involves:
  - Detection/Identification
  - 2. Measurement/Assessment
  - 3. Problem Solving/Results

### Airphoto Interpretation

- Ideally, the analyst will have:
  - Experience
  - Knowledge
  - Familiarity
  - Background

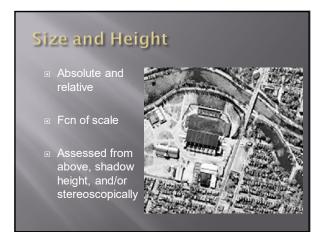
### 8 Key Diagnostic Characteristics

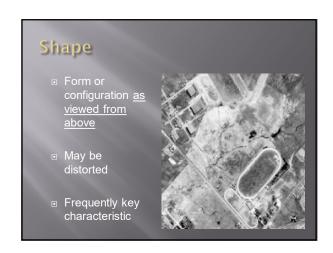
- 1. Tone or Hue
- 2. Size and Height
- 3. Shape
- 4. Texture
- 5. Pattern
- 6. Site
- 7. Association
- 8. Shadov

Adequate Resolution - prerequisite for identification

## Tone Diagnostic Discriminatory

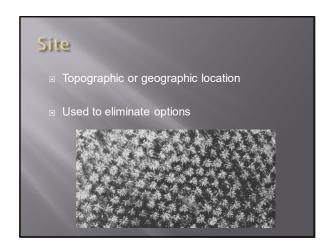






### Texture Frequency of tonal change Described as course or fine Function of scale Perceived even when the individual features are imperceptible

# Pattern Arrangement of objects Pattern recognition is scale dependent Also evident even when features are unidentifiable



### Association Location of features relative to other features Used when other diagnostic characteristics fail

# Shadows Provide profile view from above Increases perception of topography Usually avoided

### Interpretation Strategies The "Multi" approach Spectral Panchromatic and IR photos Date Fall and summer photos Stage Early and late growing season Direction Verticals and obliques Disciplines Pedologist and botanist

## Interpretation Aids/Techniques Stereoscopic Viewing Ancillary Data Maps Other photos Reports, etc. Interpretation Keys Selection Keys Elimination Keys Elimination Keys Standard Classification Systems Land Use/Cover Classifications Vegetation Classifications

