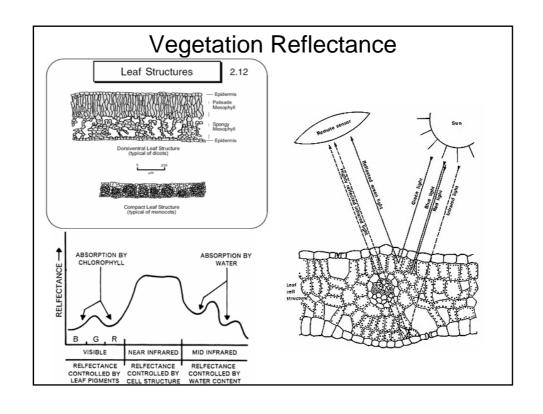
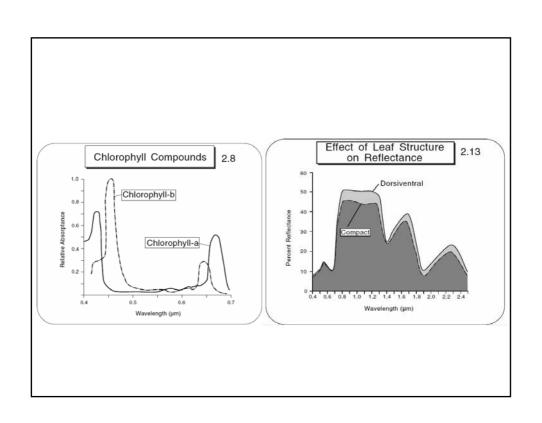
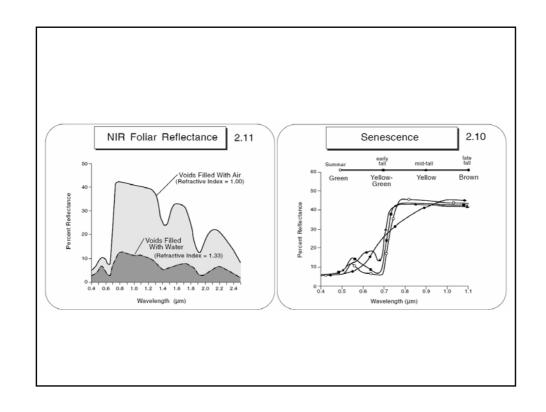
RS and Plant Science

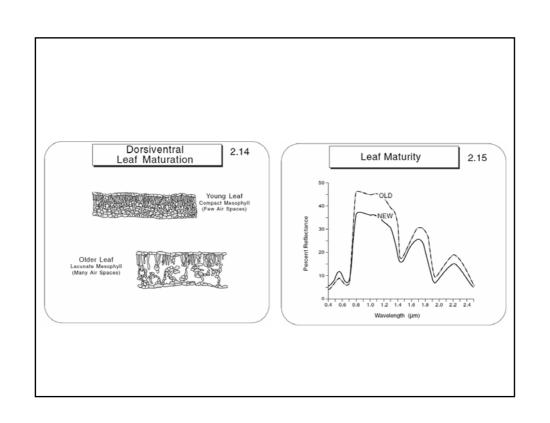
Vegetation Mapping

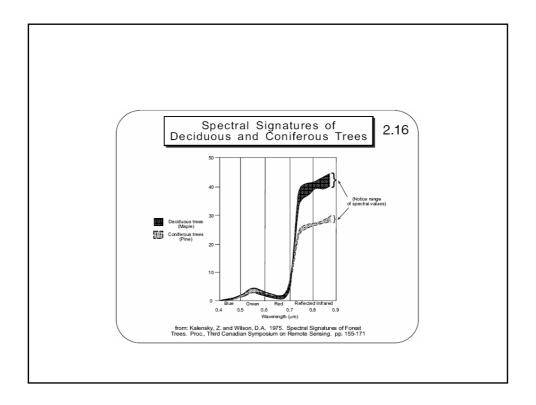
- Classification schemes
 - Plant community
 - Multiple species
 - Multiple vertical strata
 - Floristics classification
 - Class, order, family, genus, species
 - Physiognomy classification
 - Life forms: tree, shrub, herbaceous, ...
 - Ecological zones (ecoregions)







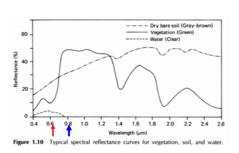


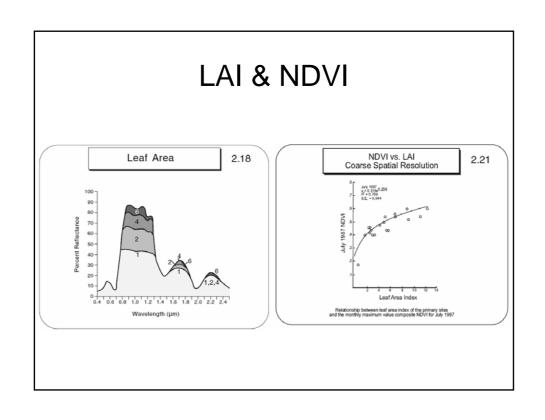


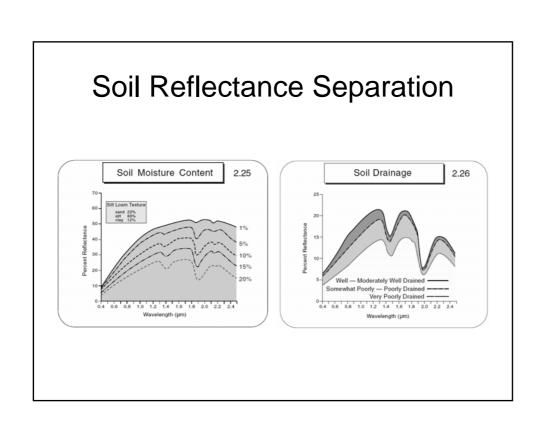
Indices

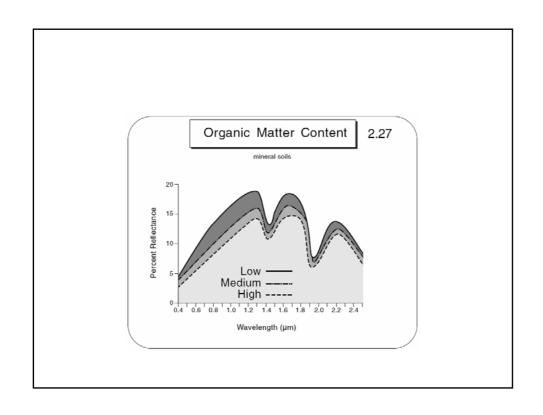
- Band ratioing
- NDVI (Normalized Difference Vegetation Index)

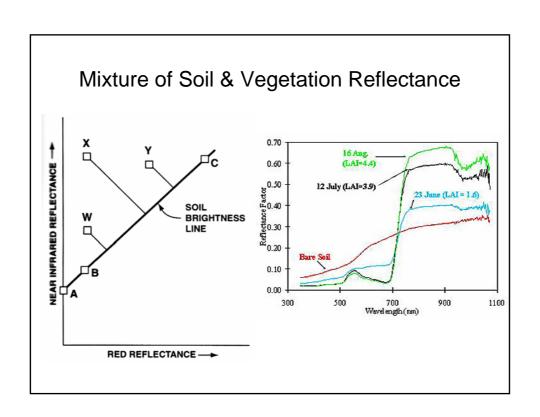
$$\frac{IR - R}{IR + R}$$

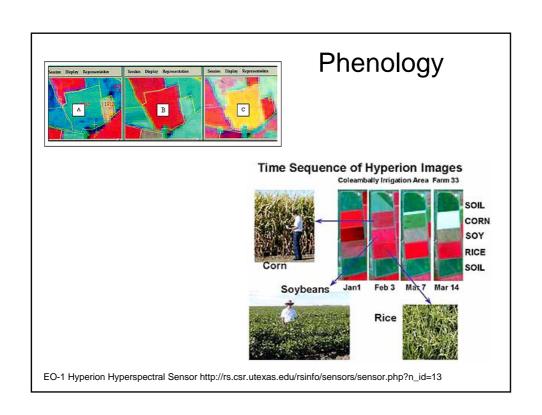












TM vs SPOT in Crop Identification Total Data Swath Number Pixels per Line Width (km) Bandwidth IFOV zation (bits) Rate Band (µm) (m) (km) (Mbits/s) Landsat Thematic Mapper (TM) 185 0.45-0.52 30 × 30 0.52-0.60 30×30 0.63-0.69 30×30 0.76-0.90 1.55-1.75 10.4-12.5 30×30 120 × 120 30 × 30 2.08-2.35 h SPOT High Resolution Vis ible Sensor Systems (HRV) 1, 2, and 3 0.50-0.59 20×20 3000 60 0.61-0.68 20×20 0.79-0.89 20×20 0.51-0.73