Upper Klamath Lake Drainage Land Cover Assessment



Quality

Upper Klamath Lake Drainage



Slide 1-15

North Fork Sprague River

Land Cover Assessment Methodology

Step 1. Land cover polygons and stream polylines are digitized from 1998 color aerial photos. All digitized polygons are drawn to capture visually like land cover features. All digitized line work is completed at 1:5,000 or less.

Step 2. Basic land cover types are developed and assigned to individual polygons. The land cover types used in this effort are aggregate land cover groups, such as: conifers, hardwoods, shrubs, etc.

Step 3. Through simple assumptions regarding land cover succession and by examining land cover types adjacent to major anthropogenic disturbance areas (i.e. clearcuts, roads, cultivated fields, etc.), it is possible to develop a rule set that can be used to estimate potential land cover conditions. For example, small conifers are assumed to have the potential to become large conifers. A high and low range is developed in areas where uncertainty remains about land cover succession or the potential for recovery.

Step 4. Automated sampling is conducted on classified land cover spatial data sets in 2dimensions. Every 100 feet along the stream (i.e. in the longitudinal direction), both stream banks are sampled every 15 feet, starting at the channel edge, out to 135 feet. This sampling rate results in 950 measurements of land cover per every mile of stream.

Step 5. Ground level land cover data is statistically summarized and sorted by land cover type. Median values for land cover height and density can then be used to describe land cover classifications.

Step 6. Land cover physical attributes can then be described in 2-dimensions since automated sampling occurs in both the longitudinal and transverse directions.

Step 1 Digitize Land Cover Polygons and Stream Polyline at 1:5,000













Upper Klamath Lake Drainage Land Cover Assessment

Slide 9-15

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South Fork Sprague River

Fishhole Creek















-ower Sycan River





- Middle River Sprague







Slide 14-15



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120