Retention Survey Techniques & Methodologies Training

Module 2

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Live Course 2015
Module 2 - Agenda
Retention Survey Techniques and Methodologies

• **Audience:** Experienced Silviculture Surveyors

• **Show all aspects of Complex Surveys**
  1) Multi-storeyed  Chtp 9.2.1
  2) Layered  Chtp 9.2.2
  3) Deviation from Potential (DFP)  Chtp 9.2.3
  4) Single Entry Dispersed Retention Chtp 9.2.4 (SEDRSS)

• stand type applications, limitations, techniques and procedures used

• virtual 3.99 m radius plot “developing as we go”.

2
How do I survey this block??

Even aged or uneven-aged?
Multi-storey – Layered – DFP??
# Survey Methodology Selection Matrix

<table>
<thead>
<tr>
<th>Management Regime</th>
<th>Even-aged stand structure</th>
<th>Uneven-aged stand structure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stocking Standard</strong></td>
<td>One Layer TSS &amp; MSS</td>
<td>Multiple Layer TSS &amp; MSS</td>
</tr>
<tr>
<td><strong>Silviculture System (1)</strong></td>
<td>Clearcut (CC) ≤ 5 m² BA Dispersed Retention residual stems</td>
<td>Dispersed Retention of residual stems: &gt; 5 m² BA and &lt; 20 m² Interior / &lt; 40 m² Coast</td>
</tr>
<tr>
<td><strong>Survey Methodology Options</strong></td>
<td>• Standard CC/Even-aged Survey Methodology</td>
<td>• Layered Survey Procedures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DFP related (SEDRSS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Mixedwood (Dec/Conifer)NE Interior and CFR</td>
</tr>
</tbody>
</table>

(1) BA values only guidelines
Terminology Time !!!

From Silv. Survey Manual Glossary and RISS Definitions

- **Opening**: A bounded area subject to a *stand disturbance* — *harvesting or natural events*. A single opening has one or more Polygons and SUs.

- **Stratum/Polygon**: A subdivision of a forest area - productive or non-productive (NP) - to be *inventoried* based on a group of trees with the same or similar species composition, age, and/or height class, (*plural*=*strata*).
  - **Polygon** corresponds to the *Inventory Label*

- **Standards Unit (SU)**: An area within an opening that is subject to uniform soil disturbance limits and stocking standards
  - **SU** corresponds to the *Silviculture Label*
    - “all stocking standards”
From RISS document

Examples Combos for one Opening

Example 1
Polygon 1 = Pli leading
Polygon 2 = Fdi leading

Example 2
SU A
Polygon 1
SU B
Polygon 2

Example 3
SU A
Polygon 1
WT P
Polygon 2
Road = polygon 3

Example 4
SU A
Polygon 1
Non-mapped rock outcrops
# # #
Layer Definitions – age class surrogates

- Mature Layer 1: ≥ 12.5 cm dbh
- Pole Layer 2: 7.5 to 12.49 cm dbh
- Sapling Layer 3: >1.3 m in height to 7.49 cm dbh
- Regeneration Layer 4: ≤1.3 m in height
Multi-storey

Uneven-aged Single Tree
Selection Management
Regime

• Multiple entries planned on short cutting cycle
• Retained stems (planned or not), if contribute to stocking must be healthy
• Layers 1 & 2:
  • ≥ 6% Crown Closure or > 5 m² BA layer 1; and
  • Layers 3 and/or 4
• Uneven-aged stocking standards
• MS Workbook – intended use & procedures
Multi-Storey Parameters

Use Multi-storey Stocking Standards

<table>
<thead>
<tr>
<th>Even Aged TSS</th>
<th>Layer</th>
<th>Target Stocking Standard</th>
<th>M value/3.99 m. plot for nesting</th>
<th>Minimum Stocking Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>1</td>
<td>600</td>
<td>3</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>800</td>
<td>4</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>1000</td>
<td>5</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>1200</td>
<td>6</td>
<td>700</td>
</tr>
</tbody>
</table>

- Tally all layers, with nesting (capping to $\uparrow M$ value)
- No MITD for Layer 1
- Multi-storey FG damage criteria
- No Statistics
- Use stocking status decision key
## Virtual 3.99 m radius plot – Multi-storey

<table>
<thead>
<tr>
<th>Layer</th>
<th>M value/3.99m plot for nesting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

### Table:

<table>
<thead>
<tr>
<th>Layer</th>
<th>Total Trees</th>
<th>Total Con.</th>
<th>Count, Con.</th>
<th>Count, Height (cm)</th>
<th>Preferred and Acceptable Species</th>
<th>Total (W)</th>
<th>Total (FG)</th>
<th>Age</th>
<th>Total Height (m)</th>
<th>Competing Vegetation</th>
<th>Forest Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>p</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>Edi</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SILVICULTURE SURVEY PLOT CARD**

**MAPSHEET - OPENING NO.**
82M046-032

**LICENCE NO.**
FLA18689

**SURVEYOR NAME(S) & REGISTRATION NO(S).**
Genean Johnson

**SURVEY DATE**
08 05 28

**PAGE OF**
2 5

**POINT OF COMMENCEMENT**
Junction of Rd/8NDY - south end of the block

<table>
<thead>
<tr>
<th>BEARING &amp; DISTANCE</th>
<th>PLOT NO.</th>
<th>STRATUM</th>
<th>LAYER</th>
<th>TOTAL TREES</th>
<th>TOTAL CON.</th>
<th>COUNT</th>
<th>COUNT</th>
<th>HEIGHT (m)</th>
<th>WELL-SPACED</th>
<th>FREE-GROWING</th>
</tr>
</thead>
<tbody>
<tr>
<td>100m, 360°</td>
<td>2</td>
<td>A</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>Fdi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

prism 3 Fd
modal 36 cm

**Notes:**
- M value’s: layer 1 → M value = 3
- layer 2 → M value = 4
- layer 3 → M value = 5
- layer 4 → M value = 6

**Forest Health**
- Pest Code
- Tree Species Affected
- Live Trees
- Dead Trees

Well spaced/free growing age and height sample data is recorded for the representative well spaced/free growing tree within plot collected periodically, (approx. 1 per 4 plots, min. 3 per stratum), from v
MS Stocking Status Decision Key

Layer 1
Total WS or FG /ha ≥ MSS for Layer 1 300

YES SR or FG

Layer 1+2
Total WS or FG /ha ≥ MSS for Layer 2 400

YES SR or FG

Layer 1,2+3
Total WS or FG /ha ≥ MSS for Layer 3 500

YES SR or FG

Layer 1,2,3+4
Total WS or FG /ha ≥ MSS for Layer 4 700

YES SR or FG

NO

NSR
Multi-Storey Damage Criteria

• Forest Health Differences from Even-aged
  – Wounds, Infections & Deformations: More complex descriptions per Layer – generally more lenient for layers 1 & 2
    - for upper layers should be harvested ~ 20 yrs. -
  – Decay: More detail for Layers 1 & 2
  – Root Rot: Multiplier WS net down calculated by Layer down
    - the more rot in upper layers the higher the net down -
  – Dwarf Mistletoe Infection: Same for lower Layers – Hawksworth Rating applies to Layer 1
Hawksworth 6 class Dwarf Mistletoe Rating

Instructions
1. Divide the live crown into 1/3’s
2. Rate each 1/3 separately. Each 1/3 should be given a rating of 0, 1 or 2 as described below:
   (0) No visible infections
   (1) Light infection ( ≤ ½ of total number of branches in 1/3 infected)
   (2) Heavy infection ( > ½ total number of branches in 1/3 infected).
3. Add ratings of 1/3’s to obtain rating if > 3 unacceptable
Layered

- No multiple entries - Single Entry
- More then one layer
- Low BA only
- suggested < 10m2 Interior
- Even-aged Management & Stocking Standards
- No MITD for Layer 1
- Tally all layers – no nesting
- Statistics Apply
Layered Surveys procedures

- Select the best crop trees first, regardless of layer.
- Accept L1 as a crop tree only if judged capable of contributing merchantable volume to the next rotation.
- No MITD between L1 (unless in SP).
- "Drip line" for between L1 and L2, 3, 4; and MITD between L2, L3 and L4. (usually 2 m. or SP)
**Virtual 3.99 m radius plot – Layered**

<table>
<thead>
<tr>
<th>Layer</th>
<th>Total Trees</th>
<th>Total Count</th>
<th>Preferred and Acceptable Species</th>
<th>Competition</th>
<th>Forest Health</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pl</td>
<td>X</td>
<td>DMP, IP</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>2</td>
<td>p</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>1</td>
<td>a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Pl: Pine
- X: Competition
- DMP: Dead trees
- IP: Invasive plant species
Layered Damage Criteria

• Recommended to use SEDRSS Damage Criteria
  – Separated by layer 1 and layers 2, 3 and 4 grouped together
  – Crop trees in all layers must be healthy until the next rotation
    • as low as 50 years (Coast) to 80 years (Interior)
DEVVIATION FROM POTENTIAL (DFP)

20% DFP
DFP related Surveys

• Not recommended to be interpreted as a Stocking Standard – only in isolated situations:
  – Disturbed or salvaged (MPB) areas lacking a full prescription
  – Areas with Mod or High retention requirements for non-timber objectives

• Intended for areas with high levels of stocking diversity
Deviation From Potential - procedures

- **DFP** – is an index which represents a Deviation From Potential growing space as a percentage

- **Full stocking occupancy is a DFP of zero (0) or 0%**
- **No stocking occupancy is a DFP of one (1) or 100%**

- **Two Stage Assessment to calculate DFP:**
  1. Overstorey BA – Layer 1
  2. Understory Well Spaced density count – outside *dripline* of Layer 1

It is a good measure of **site occupancy**
Based on a 2 Stage Assessment...

1) Prism sweep of “IN” layer 1 trees

2) 200th ha understory regeneration plot
1) Prism sweep of "IN" Layer 1 trees
Deviation From Potential – procedures – cont.

- No MITD for Layer 1
- Retained stems that contribute to stocking must be healthy
- No Statistics used
- Stocking decisions:
  1. Threshold DFP must be achieved
  2. Proportion (%) of plots in
     - stocked
     - partially stocked and
     - open areas

To address sample variation & amount of open area
### DFP table - Interior

<table>
<thead>
<tr>
<th>OS Basal Area (m²/ha)</th>
<th>Well-spaced trees in plot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>1.00</td>
</tr>
<tr>
<td>1</td>
<td>0.90</td>
</tr>
<tr>
<td>2</td>
<td>0.96</td>
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<tr>
<td>3</td>
<td>0.98</td>
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<td>4</td>
<td>0.80</td>
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<tr>
<td>5</td>
<td>0.86</td>
</tr>
<tr>
<td>6</td>
<td>0.82</td>
</tr>
<tr>
<td>7</td>
<td>0.77</td>
</tr>
<tr>
<td>8</td>
<td>0.72</td>
</tr>
<tr>
<td>9</td>
<td>0.67</td>
</tr>
<tr>
<td>10</td>
<td>0.62</td>
</tr>
<tr>
<td>11</td>
<td>0.57</td>
</tr>
<tr>
<td>12</td>
<td>0.50</td>
</tr>
<tr>
<td>13</td>
<td>0.47</td>
</tr>
<tr>
<td>14</td>
<td>0.42</td>
</tr>
<tr>
<td>15</td>
<td>0.38</td>
</tr>
<tr>
<td>16</td>
<td>0.33</td>
</tr>
<tr>
<td>17</td>
<td>0.29</td>
</tr>
<tr>
<td>18</td>
<td>0.26</td>
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<tr>
<td>19</td>
<td>0.22</td>
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<tr>
<td>20</td>
<td>0.19</td>
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<tr>
<td>21</td>
<td>0.16</td>
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<td>22</td>
<td>0.13</td>
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<tr>
<td>23</td>
<td>0.11</td>
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<tr>
<td>24</td>
<td>0.07</td>
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<td>25</td>
<td>0.05</td>
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<tr>
<td>26</td>
<td>0.04</td>
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<tr>
<td>27</td>
<td>0.02</td>
</tr>
<tr>
<td>28</td>
<td>0.01</td>
</tr>
<tr>
<td>29</td>
<td>0.00</td>
</tr>
<tr>
<td>30</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Understorey Density** – along the top

**Overstorey BA** – left side

**EXAMPLE: Occupancy Standard - 4 Criteria:**

- Ave. Plot DFP ≤ 0.20 or 20% loss of potential growth
- % Plots Stocked ≥ 60%
- % Plots Partly Stocked ≤ 40%
- % Plots Open ≤ 20%
Step 1 – Overstorey (BAF 5) – BA = 10
Step 2 – Understorey – WS = 2
Step 3 – DFP - 0.32
DFP Damage Criteria and Height Min

• Uses the Even-aged Damage Criteria for Age Class 1- with L1 wounding criteria
  – For overstorey Layer 1 stems and understorey Layers 2, 3 and 4 stems. *(if using DFP on Coast for SEDRSS, then use SEDRSS damage Criteria)*

• Height Minimums usually Reduced
  – In order to account for lower light levels and slower growth rates in the same time period for stands without retention
SINGLE ENTRY DISPERSED RETENTION STOCKING STANDARD (SEDRSS)

Something other than Timber here!!!
Why SEDRSS?

Stocking Standard Framework designed to:

• Address stand level sustainability issues on the Coast associated with partial cutting practices.

• Replace the Multi-storey ~ Single Tree Selection Stocking Standard being applied in single entry

• Create a suitable regeneration environment as well as maintain some stand value for the next rotation harvest.

Acceptable or not?
Definition of SEDRSS

• SEDRSS is a:
  – Partial cut - *single entry* stocking standard used where retained overstorey stems *contribute towards a stocking obligation* and the next rotation cut,
  – and where further stand entries (cuts) *are not* required to meet stand structural objectives.
SEDRSS is Applicable if.....

• Only if the retention of dispersed stems is required to achieve **non-timber** FRPA management objectives

• The FSP clearly **states the situations and circumstances** where these stocking standards will be applied.

• Stands will have a dispersed Residual Basal Area (RBA) of **9 to 39 m² / ha**.
SEDRSS fits into Moderate Retention

9 to 39 m² – SEDRSS

< 9 m² – Clear Cut

> 40 m² – Intermediate Cut
# SEDRSS Regen & FG Obligation Criteria

<table>
<thead>
<tr>
<th>Layer</th>
<th>COMMON Criteria (REGEN &amp; FG)</th>
<th>REGEN Criteria</th>
<th>FREE GROWING (FG) Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual Overstorey Layer 1</td>
<td>Spp (_1)</td>
<td>REGEN Delay (Max Years)</td>
<td>FG Date (Min Yrs)</td>
</tr>
<tr>
<td></td>
<td>MITD</td>
<td></td>
<td>Comp. Brush Factor(4)</td>
</tr>
<tr>
<td></td>
<td>BA &amp; Density (SEDRSS Tabular only)</td>
<td></td>
<td>Min Ht (5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Damage Criteria</td>
</tr>
<tr>
<td>≥ 12.5cm DBH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Understorey (Advanced or Artificially Established) Layers 2, 3 &amp; 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 12.5cm DBH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SEDRSS – two options

- Option 1
  Coastal DFP table

- Option 2
  Tabular DFP

Originated from Interior DFP Table
### #1 DFP table – Coastal 2014

<table>
<thead>
<tr>
<th>Understorey Density – along the top</th>
<th>Overstorey BA – left side</th>
</tr>
</thead>
</table>

**EXAMPLE: Occupancy Standard**

**2 Criteria:**

1. Ave. Plot DFP
   - ≤ 0.32 or 32% loss of potential growth
2. % Plots Open
   - ≤ 25%
DFP........to.......Tabular

<table>
<thead>
<tr>
<th>Basal Area Groupings</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 8 m²</td>
</tr>
<tr>
<td>9 – 15 m²</td>
</tr>
<tr>
<td>16 – 22 m²</td>
</tr>
<tr>
<td>23 – 28 m²</td>
</tr>
<tr>
<td>29 – 39 m²</td>
</tr>
<tr>
<td>≥ 40 m²</td>
</tr>
</tbody>
</table>
#2 SEDRSS Tabular DFP for CWHvh1-01

<table>
<thead>
<tr>
<th>Regeneration Guide</th>
<th>Free Growing Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Site Occupancy</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Only used during plots</td>
<td>One of these 4 BA combinations are applicable to final SU REGEN / FG SEDRSS obligations</td>
</tr>
<tr>
<td>All BA combinations are applicable to survey plots</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BGCU</th>
<th>Layer</th>
<th>Species</th>
<th>Height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWHvh1 01</td>
<td>Regen Layer (L2-L4) (WS / ha, TSS - Target MSS - Minimum)</td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Residual Layer (L1) (≥12.5 dbh) (BA m² / ha)</td>
<td></td>
<td>2.0</td>
</tr>
</tbody>
</table>

- Residual Layer (L1) (≥12.5 dbh) (BA m² / ha): Cw, Hw, Cy, Pl
- Regen Layer (L2-L4) (WS / ha, TSS - Target MSS - Minimum): Cw, Hw, Cy, Pl

<table>
<thead>
<tr>
<th>BA</th>
<th>Species</th>
<th>Height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
<tr>
<td>9-15 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
<tr>
<td>16-22 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
<tr>
<td>23-28 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
<tr>
<td>29-39 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
<tr>
<td>≥ 40 m² / ha</td>
<td>Cw, Hw, Cy, Pl</td>
<td></td>
</tr>
</tbody>
</table>

- Cw, Yc, Pl Hw

37
PLOT:  Step 1 – Crop Overstorey BA = 10
Step 2 – Understorey WS – MSS 400/ha. & TSS 800/ha
Step 3 – Understorey Stocking Plot = 600/ha

SU:  Step 4 – Stocking Decision  a) Determine mean Crop BA
     b) Mean Understory ≥ MSS for Crop BA
#2 SEDRASS Tabular DFP for CWHvh1-01

Table 5: Example SEDRASS Tabular Method Coastal 2013 for CWHvh1 01 (based on table 4)

<table>
<thead>
<tr>
<th>Regeneration Guide</th>
<th>Free Growing Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Site Occupancy</td>
</tr>
<tr>
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<tr>
<td>All BA combinations are applicable to survey plots</td>
<td>Only used during plots</td>
</tr>
<tr>
<td>BGCU Layer</td>
<td></td>
</tr>
<tr>
<td>Residual Layer (L1) (≥12.5dbh) (BA m²/ha)</td>
<td>Cw, Hw, Cy, P1</td>
</tr>
<tr>
<td>Regen Layer (L2-L4) (WS/ha, TSS - Target MSS - Minimum)</td>
<td>Cw, Hw, Cy, P1</td>
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</tbody>
</table>
SEDRSS Damage Criteria
Separate Tables Primary Difference

Layer 1

- Very similar to Even-aged Criteria with a few Multi-Storey larger stem Criteria for Layer 1

- \textbf{Cw} separated out and no criteria other than:
  - Require live foliage
  - Specific \textbf{Cw} stem merchantability criteria

Layers 2, 3 and 4

- Blend of Even-aged Criteria and Advanced Regen Criteria with a few Multi-Storey larger stem Criteria
Retention Survey Methodologies

Summary

Uneven-aged Multi-storey

**IDF only**

- Tally all layers + nesting
- No Stats
- Use stocking status decision key – SR w/L1

Layered

- ↓BA only suggested
  - <10m² Interior
- Tally all layers–no nesting
- Dripline, Stats Apply

DFP

- Not Recommended SS
  - Salvage or Non-timber Only
- DFP growing space as %
- 2 stage assess L1 & Regen
- Dripline, No Stats
- Threshold DFP% & % Plots

SEDRSS (Coastal only)

- Non –timber - Situ & Circ
- Tabular DFP Groupings BA
- Dripline, No Stats
Thank You and Question Period

Dave Weaver
Silviculture
Performance Assessment Specialist