

A Guide for using the Seral Stage and Patch Size Distribution Analysis for Landscape Units and Forest Development Units in the Kalum and Nass portions of the Coast Mountains Natural Resource District (2020-2025 Analysis)

Step	Guidance		
1	Identify block(s) to be reviewed		
2	Confirm LU, FDU, and BEC variant for block Also confirm if block falls within a Kalum SRMP Special Management Zone		
3	Confirm if block in 2020-2025 patch/seral analysis Review 2025 pdf maps provided. If block on map, then it has been captured in analysis and go to 4A for Seral, 5A for Patch. If the block is not in the analysis, go to step 4N for Seral, 5N for Patch.		
	Seral Stage Review		
4A	Block in 2020-2025 Analysis		
4A-1	Go to the file: “ <i>Seral stage situation Kalum & Nass FDU 2020 & 2025</i> ” to locate your licence/FDU, then review the tables in each of the tabs within the spreadsheet to determine if the block falls within a “red-flag” LU/ BEC variant for Early; Mature + Old; or Old		
4A-2	If no red-flag, then no further work required.	If red-flag for a seral stage within a FDU, go to the file: “ <i>Seral stage situation Kalum & Nass LU 2020 & 2025</i> ” and review the LU tables in that section to determine if the block falls within a “red-flag” LU/ BEC variant for Early; Mature + Old; or Old	
4A-3		If no red-flag, then document, and no further work required.	If red-flag, then compare the variance (ha) column for 2025 with the column for 2020
4A-4			<p>If the 2025 number is less negative (or more positive) than the 2020 number, then the situation is moving in the right direction, and no further work is required. <i>Consider informing other licencees that share the LU</i></p> <p>If the 2025 number is negative, and is more negative than in 2020 (or the 2020 number was positive), then the situation is moving in the wrong direction: Consider the Guidance in 5G below & determine if the block should not proceed as projected.</p>
4N	New Block		
4N-1	Go to the file: “ <i>Seral stage situation Kalum & Nass FDU 2020 & 2025</i> ”. Compare the appropriate information for 2020 and 2025 seral stages for the management unit “operating area” (Nass or Kalum).		
4N-2	Look up the LU and BEC variant for the block in each tab of the spreadsheet (Early, Mature+Old, Old) and compare 2025 with 2020		
4N-3	If the 2025 number shows a large positive variance (i.e. addition of the new block will not bring it anywhere close to a “red-flag” situation), then document this fact, and no further work is required.		If the 2025 number shows a red-flag situation or a small positive variance (such that the addition of the new block or of a few more new blocks will bring it close to a “red-flag” situation), then review the 2020 number.
4N-4		<p>If the 2025 number is less negative (or more positive) than the 2020 number, then the situation is moving in the right direction. Document this work, and no further action is required. <i>Consider informing other licencees that share the LU</i></p>	<p>If the 2025 number is moving in the wrong direction and there is a likelihood of crossing or approaching the threshold with the addition of the new block, go to the file: “<i>Seral stage situation Kalum & Nass LU 2020 & 2025</i>”. and review the LU tables in the spreadsheets to determine if the block exceeds the LU/ BEC variant threshold for Early; Mature + Old; or Old. If the LU information indicates that the threshold has been exceeded, consider the Guidance in 5G below & determine if the block should not proceed as projected. <i>Mitigation of the issue can include confirmation that there is not going to be additional blocks planned (through internal procedures, or in the case of overlapping FDU, through communication with other licencees). Alternatively, a FSP amendment may be called for.</i></p>

GUIDE: 2020-2025 Seral Stage and Patch Size

Step	Guidance		
	Patch Size Distribution Review		
5A	Block in 2020-2025 Analysis		
5A-1	Review the 2025 pdf maps provided to determine which patch size category (small, mid, or large) the block falls within.		
5A-2	Go to the file: “Patch redflag tables FDU 2020 & 2025” to locate your licence/FDU, then compare the appropriate information for 2020 and 2025 patch size distributions.		
5A-3	For the affected patch categories, determine if the adjusted 2025 numbers are within the threshold ranges (or below or above the range). * You may also have to use the file: “Patch size distribution kalum nass LU 2020 & 2025” for this.		
5A-4	If affected categories are within the threshold ranges, document this fact and no further work is required.	If the affected categories are above or below the threshold ranges, compare the numbers with the 2020 numbers.	
5A-5		If the change from 2020 to 2025 is still in the right direction (i.e. the 2025 situation is closer to the threshold range than the 2020 situation), then document this fact and no further work is required.	If the change from 2020 to 2025 is not in the right direction (i.e. the 2025 situation is not closer to the threshold range than the 2020 situation), then repeat steps 5A-2 through 5A-4, but using the information for patch sizes consolidated by Landscape Unit (i.e. file: “Patch redflags Kalum Nass LU 2020 & 2025”)
5A-6		If okay, document <i>Consider informing other licencees that share the LU</i>	If not okay, then block requires mitigation*, or a rationale that (a) is in agreement with the applicable FSP result or strategy, and (b) describes how the patch size target is a rotational target (as per wording in the Kalum SRMP). * Mitigation can include re-configuration of the block or strategic placement of leave strips. Alternatively, a FSP amendment may be called for.
5N	New Block		
5N-1	Review 2025 pdf maps provided with report to determine which patch size category (small, mid, or large) the block will be in. This may require work comparing how the block combines with other patches, taking into account the age of those adjacent patches. This may result in changes to all three distributions.		
5N-2	Go to the file: “Patch redflag tables FDU 2020 & 2025” to locate your licence/FDU, then compare the appropriate Tables for 2020 and 2025 patch size distributions.		
5N-3	Adjust the affected 2025 patch ranges to account for the changes created by the new block.		
5N-4	For the affected patch categories, determine if the adjusted 2025 numbers are within the threshold ranges (or below or above the range) * You may also have to use the file: “Patch size distribution kalum nass LU 2020 & 2025” for this.		
5N-5	If affected categories are within the threshold ranges, document this fact and no further work is required.	If the affected categories are above or below the threshold ranges, compare the numbers with the 2020 numbers.	

GUIDE: 2020-2025 Seral Stage and Patch Size

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5N-6		If the change from 2020 to 2025 is still in the right direction (i.e. the 2025 situation is closer to the threshold range than the 2020 situation), then document this fact and no further work is required.	If the change from 2020 to 2025 is not in the right direction (i.e. the 2025 situation is not closer to the threshold range than the 2020 situation), then repeat steps 5A-2 through 5A-4, but using the information for patch sizes consolidated by Landscape Unit (i.e. file: “Patch redflags Kalum Nass LU 2020 & 2025”)
5N-7			<div>If okay, document</div> <div>If not okay, then block requires mitigation*, or a rationale that (a) is in agreement with the applicable FSP result or strategy, and (b) describes how the patch size target is a rotational target (as per wording in the Kalum SRMP).</div> <div>* Mitigation can include re-configuration of the block or strategic placement of leave strips. Alternatively, a FSP amendment may be called for.</div>
5G	Guidance when assessing Patch & Seral thresholds in light of conflicting targets (as discussed at the CMNRD Steering Committee, January 8, 2018): <div>1. If more than one category is below target:<div>a. If development is moving the category furthest from its target in the right direction, this will be acceptable. This can be measured either on a percentage or area basis.</div>or<div>b. If development is moving the category closest to its target in the right direction in a significant way in comparison to the category furthest from its target (e.g. ten times the area impact), this will be acceptable.</div></div> <div>2. If a category is more than 5% below target, and other categories are not:<div>a. Then you can address that category even if it moves one of the other categories slightly in the wrong direction (i.e. less than 1%).</div></div>		
	SRM Zone Review		
	Block in Kiteen/Cedar SRM Zone. File: “SMZz and Grizzly Bear Watersheds 2020 & 2025”		
6-1	Confirm that block is not located in Polygon A. No Harvest in this polygon.		
6-2	If block is located in Polygon B, partial cutting harvest method only.		
	Block in Lakelse SRM Zone. File: “SMZz and Grizzly Bear Watersheds 2020 & 2025”		
7-1	Subzone 1: No Harvest. There is to be no harvest in Subzone 1. There should be no blocks in the Lakelse SRM Subzone 1.		
7-2	Subzone 2: In 2020 there is no available harvest room in Subzone 2. In 2025, there is 51 ha of available harvest room – check the SRMP for specific details around block sizes and selection harvesting.		
	Block in Grizzly Bear SRM Zone. File: “SMZz and Grizzly Bear Watersheds 2020 & 2025”		
8-1	Confirm which Grizzly Bear SRM Zone the block is in		
8-3	Check the appropriate tab (“Grizzly Bear Watersheds by Lic”) to determine if the block works within your FDU. If the block works, no further action required. If the block does not work, check the tab “Grizzly Bear Watersheds”		
8-2	If the block is in the Copper Grizzly Bear SRMZ, the 2025 projections show that there is over 5,200 ha of additional room in the YME (Young/ Mid/ Early mature) seral stage. The block will be compliant.	If the block is in the McKay-Davies Grizzly Bear SRMZ, the 2025 projections show that there is over 5,100 ha of additional room in the YME (Young/ Mid/ Early mature) seral stage. The block will be compliant.	
	Block in Undeveloped Watershed. File: “Undeveloped_Watersheds”		
9-1	Confirm which Undeveloped Watershed the block is in (<i>Brim, Emsley, Hugh, Jesse, Owyacumish, or Wahoo</i>)		
9-2	Determine the area by site series for the block.		

GUIDE: 2020-2025 Seral Stage and Patch Size

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9-3	Review the Tabs in the spreadsheet file (first by FDU, then by LU if needed) to determine if the block has old forest in any of the site series identified for the appropriate Undeveloped Watershed.	
9-4	If no, no further action required	If yes, set aside that area of old growth contained within the site series
	Block in Mushroom Polygon (Kiteen Order). File: “Kalum_Kiteen_Order”	
10-1	Confirm whether the block is within the Mushroom Management Area within the Kiteen area	
10-2	If the block is in the Mushroom Management Area, the 2025 projections show that the Mushroom Management Area is in deficit for stands of age 80- 200 years old. The block will NOT be compliant until this seral imbalance is addressed.	
	Block in Moose Ungulate Winter Range (UWR-6-009, UWR-6-018). File: “MWR_MU”	
11-1	Confirm the Moose Ungulate Winter Range Management Unit (MWR-MU) in which the block is located	
11-2	If there is a Moose Management Plan in place for the MWR-MU, follow the Moose Management Plan.	
11-3	If there is not a Moose Management Plan in place for the MWR-MU: Refer to table in the file for the Moose Winter Range Management Unit	
11-4	If the block is already in the Analysis, check the area of mature + old seral stages in the Management Unit: If the mature + old area is above the threshold, no further action is required. If the mature + old area is below the threshold, then the block should not proceed at this time without a Moose Management Plan.	
11-5	If the block is NOT in the Analysis check the area of mature + old seral stages in the Management Unit to determine if there is room for the additional area of the block. If there is no room, then the block should not proceed at this time without a Moose Management Plan.	
	ECA Thresholds	
	Block in ECA Watershed. File: “ECA Thresholds 2020 & 2025”	
12-1	Confirm whether block is in a Nass Watershed or a Kalum SRMP Community Watershed. If the block is in either of these, and the block’s silviculture system is one that impacts ECA thresholds, then ECA thresholds will apply.	
12-2	Refer to the appropriate tab in the spreadsheet to find the appropriate Nass Watershed or Kalum SRMP Community Watershed	
12-3	If the block is in the Analysis: If the ECA threshold is not exceeded, the block can proceed If the ECA threshold is exceeded, the block should not proceed at this time; alternatively it may be possible to proceed if a Watershed Assessment is conducted (check your FSP).	
12-4	If the block is NOT in the Analysis, check the area of Surrogate Hydrologically Effective Greenup (SHEG) for the watershed to determine if there is room for the additional area of the block.(i.e. the ECA threshold is not exceeded). If there is room, then the block can proceed. <i>Consider informing other licencees that share the Watershed.</i> If there is NO room, then the block should not proceed at this time; alternatively it may be possible to proceed if a Watershed Assessment is conducted (check your FSP).	