

MANAGEMENT UNIT NAME: Dryden Forest (MU 535)
 PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-8 PROJECTED AVAILABLE HARVEST AREA BY FOREST UNIT

Forest Unit	Total Available Harvest Area (ha) for First 10-Year Period of Each 20-Year Period					
	2021	2041	2061	2081	2101	2121
BFDOM	152	329	463	118	183	111
BWDOM	88	218	230	202	171	33
CONMX	1,856	2,348	2,475	324	484	370
HRDMW	1,235	1,641	2,008	957	463	655
HRDOM	1,164	1,080	638	874	504	505
PJDOM	2,184	2,429	3,178	3,801	6,169	5,033
PJMX1	1,849	1,183	1,019	2,132	2,361	2,557
PODOM	1,408	964	1,401	1,664	2,193	1,813
PRWMX	34	27	26	83	109	197
SBDOM	1,762	1,080	448	479	527	111
SBLOW	1,493	1,354	1,261	1,087	248	835
SBMX1	1,544	875	280	696	1,468	1,064
Total	14,769	13,528	13,428	12,416	14,881	13,285

NOTE:

Data derived from results of Patchworks LTMD_10.

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FMP-9 PROJECTED AVAILABLE HARVEST VOLUME BY SPECIES GROUP AND BROAD SIZE GROUP

Species Group		Available Harvest Volume (cubic metres) Total for First 10-year Period of Each 20-Year Period					
		2021	2041	2061	2081	2101	2121
Net Merchantable Volume (NMV):							
Spruce-Pine-Fir	Small	1,165,086	998,017	994,182	1,092,658	1,450,490	1,258,580
Spruce-Pine-Fir	Large	3,326	15,837	20,224	9,003	5,370	3,515
Spruce-Pine-Fir	Subtotal	1,168,411	1,013,854	1,014,405	1,101,660	1,455,861	1,262,095
Poplar	Small	376,126	327,269	340,335	357,776	389,284	323,107
Poplar	Large	8,404	18,436	23,585	15,466	13,762	3,310
Poplar	Subtotal	384,531	345,704	363,921	373,243	403,045	326,417
White Birch	Small	92,133	89,361	75,679	54,214	49,141	35,913
White Birch	Large	889	3,646	4,026	3,373	1,100	382
White Birch	Subtotal	93,022	93,007	79,705	57,587	50,241	36,296
NMV TOTAL All Species	Small	1,667,585	1,444,919	1,436,319	1,532,177	1,906,131	1,643,210
NMV TOTAL All Species	Large	13,592	38,773	48,800	31,798	23,654	11,266
NMV TOTAL All Species		1,681,176	1,483,691	1,485,119	1,563,975	1,929,785	1,654,478
Defect (Branches, Twigs, Leaves, Bark):							
Spruce-Pine-Fir		374,405	312,681	277,740	277,273	342,731	295,295
Poplar		290,438	264,913	289,398	303,585	320,388	234,215
White Birch		55,054	56,077	51,755	38,882	27,141	20,174
DEFECT TOTAL All Species		733,568	646,615	630,689	628,530	692,124	554,204
Undersized (Top Wood)							
Spruce-Pine-Fir		193,621	177,341	158,701	162,121	203,590	190,144
Poplar		98,885	81,966	87,265	105,708	115,738	99,875
White Birch		13,013	12,824	11,242	9,407	6,748	5,327
UNDERSIZED TOTAL All Species		309,587	276,034	260,757	279,880	326,659	296,703
TOTAL AVAILABLE HARVEST VOLUME		2,724,331	2,406,340	2,376,565	2,472,385	2,948,568	2,505,385

NOTE:

Data derived from results of Patchworks LTMD_10. Volume broad size group is applied to net merchantable volumes only (not defect or undersize volumes).

White Pine-Red Pine, Other Conifer, and Other Hardwood are incidental on the Dryden Forest, and are not considered major harvest volume Species Groups.

Volumes associated with these incidental species are included in the TOTAL All Species and GRAND TOTAL volumes.

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FMP-10: Assessment of Objective Achievement

Strategic modelling projections based on: LTMD_10

Management Objective	Indicator	Plan Start Level	Desirable Level	Timing of Assessment	Target (short-term)	LTMD - Projections			Assessment
						Short (10 yrs)	Medium (20 yrs)	Long (100 yrs)	
1. Forest Composition: To emulate natural forest composition and age classes which includes old growth forest.	(1a) Landscape Class Area:	(ha)	(ha)	(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation					PARTIALLY ACHIEVED: 3 of 4 classes meet desirable levels aligned with BLG milestones. ML Balsam achieves the desirable level in the medium-term. ML Lowland Conifer consistently moves towards the desirable level through the long-term (is above desirable level all periods) as a result of inventory classification. ML Upland Conifer maintains the desirable level all periods. ML Hardwood decreases towards then maintains desirable level in 80 years onwards.
	Mature and late balsam fir	1,765	2,108 - 3,426		increase	1,973	2,190	2,129	
	Mature and late lowland conifer	12,727	5,238 - 7,016		decrease	11,725	10,498	7,959	
	Mature and late upland conifer	31,496	20,088 - 40,910		maintain	25,300	21,490	23,246	
	Mature and late hardwood	19,101	8,472 - 12,731	decrease	18,835	19,347	12,140		
	(1b) Old Growth Forest Area:	(ha)	(ha)	(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation					ACHIEVED: OGUpl_Con, OG Mix_Hwd and OG Pr_Pw increase then maintain desirable levels from 2031 onwards. OG Low_Con moves towards and achieves desirable level in 60 years (result of inventory classification, minor decrease within 1% in 70-80 years). Overall indicator is achieved.
	Lowland Conifer	509	3,498 - 4,916		increase	873	1,764	3,540	
	Upland Conifer	5,956	6,765 - 14,652		increase	9,260	9,403	7,086	
	Mixedwood and Hardwood	3,464	9,913 - 17,843		increase	9,817	13,252	10,381	
	White Pine and Red Pine	12	increase		increase	12	25	234	
(1c) All ages red pine and white pine forest unit area (ha)	742	increase towards 7,900 ha, while not falling below the 1995 level of 578 ha.	(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation	increase	842	912	1,483	ACHIEVED: Area increases for next 100 years, desirable level met. Achievement of estimated 7,900 ha is not possible for approx. 300+ years. Operational strategies will continue 100+ years to ensure continued increase.	
(1d) Upland Jack Pine and Spruce: (ha) PJDOM+PJMx1+SBDOM+SBMx1	54,554	68,831 - 74,915 ha	(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation	increase	56,609	59,259	69,350	ACHIEVED: Target level is achieved with steady movement toward achieving desirable level in 50 years.	
(1e) Young Forest Area: (ha) All Plan Forest Units <36 years	36,525	31,801 - 64,374 ha	(1) Proposed LTMD (2) Completion of operational planning	maintain	43,599	45,636	50,990	ACHIEVED: Desirable level is achieved at Plan Start and maintained through the planning horizon.	

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						Short (10 yrs)	Medium (20 yrs)	Long (100 yrs)				
2. Landscape Pattern: To emulate natural disturbance and landscape patterns characteristic of the Dryden Forest.	(2a) Texture of mature and old forest (hexagon frequency distribution by mean proportion): 500 ha Hexagon Scale:		Move towards mean, with a focus on the two concentration classes > 60%. Mean:	(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation	Same as desirable level		N/A	N/A	NOT ACHIEVED: Mature and Old Forest texture is below desirable level at Plan Start, and is projected to decrease during this plan period. A large proportion of the old forest that currently stands is very old, starting to fall down, and succeed to balsam fir. The length of time that these patches could maintain old forest into the future was carefully considered in the strategy. Strategies are being implemented on the Dryden Forest to defragment and also to retain/avoid harvest in specific larger patches of currently mature/old forest, as well as avoiding areas that will become mature/old in the next 20 years to generate future large patches of even-aged young forest (acceptable short-term result). Results of the defragmentation strategy are evident in the short-term with the reduction of the proportion of the 40-60% concentration class on the Dryden Forest. Achievement in future FMPs is expected to improve.			
	1 - 20% concentration	11%	47%			15%						
	21 - 40% concentration	25%	14%			35%						
	41 - 60% concentration	37%	9%			31%						
	61 - 80% concentration	19%	8%			15%						
	81 - 100% concentration	8%	22%			4%						
	5,000 ha Hexagon Scale:											
	1 - 20% concentration	11%	35%			13%						
	21 - 40% concentration	12%	22%			28%						
	41 - 60% concentration	65%	18%			56%						
	61 - 80% concentration	12%	16%			3%						
	81 - 100% concentration	0%	9%			0%						
	(2b) Young forest patch size: (frequency by size class ha)	< 100	67%			Move towards mean: 65%				(1) Proposed LTMD (2) Completion of operational planning (4) Annual Reports for Year 5 and final year of plan implementation	Same as desirable level	62%
101-250		22%	13%	21%								
251-500		8%	8%	10%								
501-1,000		2%	5%	3%								
1,001-2,500		1%	5%	3%								
2,501-5,000		1%	2%	1%								
5001-10,000		0%	1%	0%								
10,001-20,000		0%	0%	0%								
>20,000		0%	0%	0%								
3. Wildlife Habitat: To maintain forest function for wildlife habitat in the Dryden Forest.	(3a) Habitat Proportion by Moose Emphasis Area: Rumac MEA:			(1) Proposed LTMD (2) Completion of operational planning					PARTIALLY ACHIEVED: Browse exceeds desirable range at Plan Start. Browse target level was relaxed to allow movement toward desirable level over 40 years. Mature conifer and mixedwood habitats acceptable (generally with desirable ranges throughout planning horizon).			
	Browse Producing Forest	38%	5-30%			decrease				44%	45%	N/A
	Hardwood/Mixedwood Forest	38%	20-55%			maintain				34%	35%	N/A
	Mature Conifer Forest	25%	15-35%			maintain				23%	20%	N/A

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						Short (10 yrs)	Medium (20 yrs)	Long (100 yrs)	
	(3b) Frequency of Young Forest Patch Size for Rumac MEA		100% of young forest patches in the <100, 101-250, and 251-500 ha size classes	(1) Proposed LTMD (2) Completion of operational planning	Move towards or maintain the young forest patch size frequency for the smallest three size classes.				NOT ACHIEVED: Through implementation of LTMD preferred harvest areas, young forest patches less than 500 ha is projected to move from 98% to 93% (away from the desirable level of 100%). The harvest strategy in the Rumac is to maintain a high proportion of small, young forest patches to maximize edge. This strategy and young forest patch size projected achievement may be improved through operational planning and harvest block layout during 2021 FMP development.
	< 100 ha	69%				61%	N/A	N/A	
	101-250 ha	20%				23%	N/A	N/A	
	251-500 ha	9%				9%	N/A	N/A	
	501-1,000 ha	2%				4%	N/A	N/A	
	1,001-2,500 ha	0%				2%	N/A	N/A	
	2,501-5,000 ha	0%				0%	N/A	N/A	
	5001-10,000 ha	0%				0%	N/A	N/A	
	10,001-20,000 ha	0%				0%	N/A	N/A	
>20,000 ha	0%	0%	N/A	N/A					
4. Forest Access:	(4a) Kilometres of primary and branch road per square kilometre of Crown productive forest.	0.35 km primary and branch SFL roads per km2 Crown productive forest	0.35 - 0.48 km primary and branch SFL roads per km2 Crown productive forest	(4) Annual Reports for Year 5 and final year of plan implementation	maintain within desirable level	TBD Stage 3	N/A	N/A	(future assessment after plan implementation)
To provide road-based access, land use and recreational opportunities through road maintenance and development of access to areas planned for harvest within the plan period.	(4b) Kilometres of operational road per square kilometre of Crown productive forest.	0.31 km operational SFL roads per km2 Crown productive forest	0.25 - 0.46 km operational roads per km2 Crown productive forest	(4) Annual Reports for Year 5 and final year of plan implementation	maintain within desirable level	TBD Stage 3	N/A	N/A	(future assessment after plan implementation)
5. Wood Supply:	(5a) Area of Managed Crown forest available for timber production (ha)	111,784	Maintain a minimum of 111,000 ha	(4) Annual Reports for Year 5 and final year of plan implementation		111,646	111,515	111,132	(future assessment after plan implementation, but estimated projections are good.)
To provide a predictable and continuous supply of wood to the forest products industry from the Dryden Forest.	(5b) Long-term projected available harvest area (ha) (all Forest Units combined)	14,766	Highest long-term AHA while balancing other plan objectives	(1) Proposed LTMD	Same as desirable level.	14,193	13,507	14,555	ACHIEVED: Harvest area projected through time to achieve harvest volumes and balanced objective achievement.
	(5c) Long-term projected available harvest volume by major species group (m³ / year).	Annual Harvest Volume:	Highest long-term harvest volumes while balancing other plan objectives (reported by species group).	(1) Proposed LTMD	Same as desirable level.				ACHIEVED: Harvest volume projected through time to achieve harvest volumes, manage harvest volume variation between FMPs, and balanced objective achievement through the planning horizon.
	SPF	116,841				105,147	101,385	140,235	
	PO	38,453				37,991	34,570	36,273	
	BW	9,302				9,302	9,301	4,270	
TOTAL	168,118	155,402	148,369	165,448					
(5d) Long-term projected available harvest volume by broad size (m³/year).	Annual Harvest Volume:	166,759	Maintain similar size distribution as 2021 Plan Start	(1) Proposed LTMD	Same as desirable level.				ACHIEVED: The proportion of harvest volume by broad size groups is calculated to be similar (same or greater proportion of "large" sized volume) throughout planning horizon, as compared to Plan Start.
Small	166,759					151,363	144,492	164,321	
Large	1,359					4,039	3,877	1,127	
TOTAL	168,118	155,402	148,369	165,448					

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						Short (10 yrs)	Medium (20 yrs)	Long (100 yrs)	
	(5e) Actual Harvest Area as Percentage of Planned, by forest unit.	Annual Harvest Area (ha):	Percentage of Planned Harvest Area Actually Harvested:	(4) Annual Reports for Year 5 and final year of plan implementation		N/A	N/A	N/A	(future assessment after plan implementation)
	BFDOM	152	100%		min. 90%				
	BWDOM	88	100%		min. 95%				
	CONMX	1,856	100%		min. 95%				
	HRDMW	1,235	100%		min. 95%				
	HRDOM	1,164	100%		min. 95%				
	PJDOM	2,184	100%		min. 95%				
	PJMX1	1,849	100%		min. 95%				
	PODOM	1,408	100%		min. 95%				
	PRWMX	34	N/A		N/A				
	SBDOM	1,762	100%		min. 95%				
	SBLow	1,493	100%		min. 85%				
	SBMX1	1,544	100%		min. 95%				
	TOTAL	14,769							
	(5f) Actual Harvest Volume as Percentage of Planned, by major species group.	Annual Harvest Volume:	Major species groups:	(4) Annual Reports for Year 5 and final year of plan implementation		N/A	N/A	N/A	(future assessment after plan implementation)
	SPF	116,841	100%		min. 90%				
	PO	38,453	100%		min. 90%				
	BW	9,302	100%		min. 90%				
	TOTAL	168,118							
6. First Nation Engagement: To engage during plan development First Nation and Métis communities in or adjacent to the Dryden Forest, as well as individual Indigenous peoples who live off the reserve but continue to have traditional ties to the Dryden Forest.	(6a) Feedback on effectiveness of engagement from First Nation and Métis communities that participated in FMP development		100% of First Nation and Métis communities that participated during plan production to provide feedback on the effectiveness of their engagement.	(3) Draft Plan	Same as desirable level	N/A	N/A	N/A	(future assessment at Draft Plan stage)
	(6b) Opportunities for involvement of First Nation and Métis communities in plan development, background information and values identification		100% of First Nation and Métis communities provided opportunities for involvement in plan development, background information and values identification	(3) Draft Plan	Same as desirable level	N/A	N/A	N/A	(future assessment at Draft Plan stage)
7. LCAC Engagement: To have the Local Citizens' Advisory Committee (LCAC) effectively participate in the development of the management plan.	(7a) Local Citizens' Advisory Committee's self-evaluation of its effectiveness in plan development.		LCAC Effectiveness survey results indicate at least 80% effectiveness in the development of the FMP.	(3) Draft Plan	LCAC Effectiveness survey results indicate at least 70% effectiveness in the development of the FMP.	N/A	N/A	N/A	(future assessment at Draft Plan stage)

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8. Forest Renewal: To effectively regenerate harvest areas consistent with the regeneration standards outlined in the Silvicultural Ground Rules.	(8a) Percent of harvested forest area assessed as successfully established, by forest unit	N/A	100% of harvested area, eligible for establishment assessment, successfully meeting SGR establishment standards (by forest unit)	(4) Annual Reports for Year 5 and final year of plan implementation	Minimum of 95% of harvested area, successfully meeting SGR establishment standards (by forest unit)	N/A	N/A	N/A	(future assessment after plan implementation)
	(8b) Planned and actual percent of harvest area treated by broad treatment type.	Planned Renewal Area as a Percentage of Harvest Area, by Broad Treatment Type	Actual Renewal Area as a Percentage of Planned Harvest, by broad treatment type	(4) Annual Reports for Year 5 and final year of plan implementation	Minimum of 80% of the actual harvest area treated by the planned broad treatment type				(future assessment after plan implementation)
	Natural	25%	Min. 90%			N/A	N/A	N/A	
	Plant	47%	Min. 90%			N/A	N/A	N/A	
Seed	28%	Min. 90%	N/A			N/A	N/A		
	(8c) Planned and actual percent of area successfully regenerated to the target forest unit, by forest unit.	N/A	Minimum of 90% of the actual harvested area successfully regenerated to the target forest unit, by forest unit.	(4) Annual Reports for Year 5 and final year of plan implementation	Minimum of 70% of the actual harvested area successfully regenerated to the target forest unit, by forest unit.	N/A	N/A	N/A	(future assessment after plan implementation)
9. Forest Values: To implement forestry operations in a manner that minimizes negative impacts on all identified resource users, and protects all identified values.	(9a) Percent of forest operation inspections in non-compliance, by activity and remedy type.	N/A	0% of FOIP inspections reported as non-compliant by activity and remedy type.	(4) Annual Reports for Year 5 and final year of plan implementation	Maximum 5% of FOIP inspections reported as non-compliant by activity and remedy type.	N/A	N/A	N/A	(future assessment after plan implementation)
10. Healthy Ecosystems: To maintain productivity of soil function, and to protect water quality and fisheries habitat where forest management activities occur in the Dryden Forest.	(10a) Compliance with management practices that prevent, minimize or mitigate site damage (% of inspections in non-compliance, by remedy type).	N/A	0% of FOIP inspections reported as non-compliant with management practices that prevent, mitigate, or minimize site damage (by activity and remedy type).	(4) Annual Reports for Year 5 and final year of plan implementation	Maximum 5% of FOIP inspections reported as non-compliant with management practices that prevent, mitigate, or minimize site damage (by activity and remedy type).	N/A	N/A	N/A	(future assessment after plan implementation)

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	(10b) Compliance with management practices that protect water quality and fish habitat (% of inspections in non-compliance, by remedy type).	N/A	0% of FOIP inspections reported as non-compliant with management practices that protect water quality and fish habitat (by activity and remedy type).	(4) Annual Reports for Year 5 and final year of plan implementation	Maximum 5% of FOIP inspections reported as non-compliant with management practices that protect water quality and fish habitat (by activity and remedy type).	N/A	N/A	N/A	(future assessment after plan implementation)